



Volume C Pricing Document

CLIENT: Board of Management

JOB: Carrick On Shannon Community School

DATE: 21/08/2026

Pricing Document C Index

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PRELIMINARIES

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<u>1. PRELIMINARIES PARTICULARS</u> <u>1 PRELIMINARY PARTICULARS</u> <u>This Pricing Document must be completed in full and returned with the tender</u> 1.1 Project, parties and consultants <u>The name, nature and location of the project</u> The name of the project is construction of a new two storey extension including all associated ancillary site works at Carrick-on-Shannon Community School, Carrick-on-Shannon, Co. Leitrim . The nature of the Works is the construction of a new two-storey extension to the existing school containing classrooms, specialist classrooms, special tuition rooms and ancillary accommodation along with all associated site works. The location of the site is Carrick-on-Shannon Community School, Carrick-on-Shannon, 2-12 Glen Carrick, Summerhill, Carrick-On-Shannon, Co. Leitrim, N41 VX63 <u>A general description of the works</u> The contract comprises the following works: The development will consist of the demolition and removal of existing temporary accommodation and the construction of a new 2 storey school extension building comprising; 15 no. classrooms including; Music Room, Art Room, Home Economics Room, 2 no. Science Lab, 1 Science Preparation Room, 10 no. general teaching classrooms, 2 no Special Tuition Rooms, ancillary accommodation including toilets and plant spaces all measuring approximately 1,775m². The associated site works include; ballcourt, yard area, car parking, bicycle parking, boundary walls and fencing, footpaths, vehicular entry/ exit points, pedestrian access points, gas compound and vehicle turning head and all other ancillary site works, all as detailed in the Volume A Works Requirements. Whilst the new build school extension will be delivered in a single phase (Section 2), the external works of the project will be delivered in Phases, as per Architect's Drawing nos. TD-0131 - 0134. <u>The names and address of the Employer and Consultants together with their respective roles.</u> The 'Employer' shall mean Carrick-on-Shannon Community School, 2-12 Glen Carrick, Summerhill, Carrick-On-Shannon, Co. Leitrim, N41 VX63 <u>Names and addresses of the Consultants</u> The term 'Employer's Representative' shall mean McCarthy O'Hara Architects, Old Church, Church Street, Portlaoise, Co.Laois				

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<u>1. PRELIMINARIES PARTICULARS (Cont)</u>					
The Architect is:					
McCarthy O'Hora Architects, Old Church, Church Street, Portlaoise, Co.Laois					
The Civil and Structural Engineer is:					
CHH Consulting Engineers, Innisfree House, 44-45 High Street, Co. Sligo, F91 RFN1					
The Building Services Engineer is:					
Patrick McCaul Environmental Consulting Engineers Ltd., Bankmore Business Park, Bankmore Road, Omagh, Co. Tyrone, BT79 0BE					
The Quantity Surveyor is:					
McGahon Surveyors Ltd., Block 1, Quayside Business Park, Mill Street, Dundalk, Co Louth					
The Project Supervisor Design Process is:					
Tobin Consulting Engineers, Fairgreen House, Fairgreen Road, Galway					
1.2 Description of site					
A	The boundaries of the site, the means of access and the position of the works are as indicated on the Architect's drawings. The Contractor should visit the site and note all adjacent and/or abutting buildings.	1	item		
B	The proposed extension is located on the site of the existing Carrick-on-Shannon Community School located off L3412 Summerhill.	1	item		
C	The existing school shall remain fully operational during all phases of the proposed works.	1	item		
<u>The existing boundaries of the site include the following:</u>					
D	All existing boundaries are to remain unchanged apart from the main site entrance which is to be widened as detailed on Architect's Drawing No TD-0408 "Site Details-Widened Entrance".	1	Item		
E	The contractor is expected to visit the site when preparing his tender submission and satisfy himself as to the existing site boundary conditions.	1	Item		
				To Collection €	

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<u>1. PRELIMINARIES PARTICULARS (Cont)</u>						
<u>Means of Access</u>						
A	The proposed construction access to the site for the construction of this new school accommodation is from the L3412 Summerhill Road as per Architect's Drawing Nos. TD-0131 - 0134 'Site Plan Phase 1 - 4'. The contractor shall erect a suitable secure solid hoarding min. 2.4M high to separate the construction site (during all phases, as per Architects Drawing Nos. TD-0131 - 0134) from the existing school (and all live environments) which will remain in operation for the full duration of the proposed works. The existing vehicular and pedestrian access to the live school environment shall be maintained for the use of the school for the duration of the new school building construction. The timing, sequencing and duration of the works required to be executed on site will need to be carefully considered by the contractor and submitted to the Employers representative for consideration by the school management in advance.	1	Item			
B	The contractor will be required to obtain any relevant consent for temporary access and any associated footpath adjustments for the local authority from the local authority. The contractor shall erect a suitable secure solid hoarding at a minimum of 2.4 metres to separate the construction site from the public footpath on L3412 Summerhill.	1	Item			
C	The Contractor is required to provide a secure, control gate access point to the site for all Phases of the Works.	1	Item			
D	The Contractor shall provide and maintain a full time "log in and out system" for all persons entering the works.	1	Item			
E	Disciplinary action may be taken against any person found entering or leaving (or attempting to enter or leave) the site other than by the designated gates or entrances. If the Contractor uses a gate or gates to gain access or egress from the site, the Contractor shall be responsible for securing such gate or gates at all times throughout the contract period.	1	Item			
F	The Contractor shall ensure that no damage is caused to the existing roads due to the delivery of materials or the removal of site materials, demolitions or rubbish. All vehicles entering or leaving the site carrying loads which constitute a potential dust or dirt nuisance such as aggregate, sand, gravel, soil or the like shall be secured so that no materials shall leave the vehicle.	1	Item			
G	The Contractor shall be responsible for keeping all roads adjacent to the site free from mud droppings or other materials which are due to his own and all other operations and safeguard the Employer from any liability resulting therefrom. The Contractor is expected to take reasonable care to ensure that all vehicles entering and leaving the site are free of mud on the wheels or tracks, and the loads are secure.	1	Item			
H	In the event of fouling of any roads due to any operations the Contractor will be expected to clean them expeditiously at their own expense to the satisfaction of the Employer's Representative and/or Employer. The Contractor shall be entirely responsible for any damage due to his failure to comply with this clause.	1	Item			

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<u>1. PRELIMINARIES PARTICULARS (Cont)</u>						
A	The Contractor shall confine his activities to the Works Area included in the contract and shall not allow his men to trespass on the other parts of the site or on the adjacent lands unless in direct execution of Works included in this Contract. In the event of any claims arising due to failure to comply with this clause, the Contractor shall be held entirely responsible and shall pay costs in connection therewith.	1	Item			
B	Prior to appointment the main contractor is to develop and provide by a specialist a clear strategy for the management of construction traffic and personel and school traffic/pedestrians during the construction works.	1	Item			
C	Access through the existing occupied school grounds is strictly forbidden; it is the responsibility of the contractor to ensure that all subcontractors, suppliers, visitors and others are made aware of the construction site access and do not enter the school grounds.	1	Item			
D	Tenderers must visit the site and ascertain the facilities for access thereto. They shall be understood to have acquainted themselves with the nature of the site, the existing school buildings and all adjacent buildings to the site and all other things insofar as they may have any connection with or affect the works. Tenderers must take all of the above into account when tendering and no claims for extras will be allowed in consequence of the failure to do this. Tenderers must make arrangements to visit the site by appointment with the employer or employer's representative.	1	Item			
<u>Restrictions on Access</u>						
E	Access to the Contractor's Construction Compound area for each phase of the works is as noted on the Architect's Phasing Drawings. During each phase of the works the Contractor shall construct hoarding (2.4m high timber hoarding) to clearly define the construction compound and maintain safe access for the pupils and staff in the areas occupied by the school. The hoarding is to be realigned for each phase in accordance with the Architect's Phasing Drawings. Construction Access will be separated from the School Access during all Phases.	1	Item			
F	Under no circumstances are construction vehicles, plant or machinery to access or be parked in the existing school parking spaces or to obstruct the main entrance gate, set down and turning areas to the front of the school.	1	Item			
G	The majority of the works are to proceed during the academic year within a live school environment. The Contractor must note that a teaching / pupil presence will exist within the school at all times. The Contractor will be responsible for their control and safety both on the construction site and all boundaries and interfaces with the school and its activities. The Contractor shall respond and deal immediately with any reasonable safety issue that may be raised by the School during the building works. If the school raises any concern about safety, the Contractor's site manager shall respond promptly and address the issue satisfactorily within a reasonable time frame and take whatever measures are necessary to ensure such an issue does not occur again. A programme / sequence of works shall be agreed in coordination with the Employer's Representative and Carrick on Shannon Community School.	1	Item			

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1. PRELIMINARIES PARTICULARS (Cont)			
School and construction traffic are to be separate at all stages of construction. Construction Traffic shall not park in the vicinity of the existing school buildings, or along the approaches to the school along L3412 Summerhill. It is the responsibility of the Contractor to inform all subcontractors and suppliers of this restriction. This should be fully coordinated with the school before works commence.	1	Item	
All deliveries shall be outside of peak dropping off and collection times for pupils.	1	Item	
The contractor is fully responsible for Construction Management Plan and must ensure that all deliveries are coordinated and managed to ensure there is no queuing within the public roadways, and pedestrian footpaths and access routes are maintained at all times.	1	Item	
The existing school emergency exits and entrances shall be maintained throughout the construction period.	1	Item	
The contractor shall implement a road cleaning regime for the duration of the works, including wheel-washing facilities for vehicles entering and exiting the site. The frequency of cleaning is the Contractor's responsibility and shall be included in the Construction Management Plan to be issued to the ER and Local Authority prior to works commencing.	1	Item	
The Contractor should note the close proximity of the new extension building to the existing school building. Works during exams will not be permitted under any circumstances. The Contractor should allow for state exam stoppages during the construction period and will be required to vacate the site during these stoppages for the Leaving Cert and Junior Cert Exam Period in the month of June (2027, 2028, 2029). The contractor is to include all costs herein associated with the cessation of the works for these periods. No claims on the grounds of want of knowledge will be entertained whatsoever.	1	Item	
<u>Position of the Works</u>			
The new build accommodation is to be constructed to the North-East of the existing school building. Refer to the Proposed Site Plan Drawing No TD-0131	1	Item	
<u>Existing Buildings and Services</u>			
Refer to Existing Site Layout Plan on Architect's Drawing Nr TD-0004 for location of existing school building, prefab classrooms, carpark, ballcourts and existing playing pitch.	1	Item	
The existing school will remain in operation on the site for the full duration of the proposed works. Services connections must be maintained by the contractor in all employer occupied areas for the duration of the works.	1	Item	
20420 - Carrick On Shannon CS		To Collection €	

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1. PRELIMINARIES PARTICULARS (Cont)			
It is the contractor's responsibility to verify the location of all existing underground services throughout the entire site prior to the carrying out any of the construction works, by way of a Ground Penetrating Survey (GPR). The Contractor must provide herein for all costs associated with carrying out this survey prior to any works commencing. No claims on the grounds of want of knowledge in this respect will be entertained whatsoever.	1	Item	
The Contractor shall liaise with the existing school to ensure all existing services are maintained at all times, in particular where final connections to the diversion of existing services need to be completed. Final Connections shall take place outside of normal school hours, to avoid the loss of service to the school.	1	Item	
During the construction phases of the project method statements are to be prepared by the Contractor with regards to services tie ins, locations and the erection of hoardings and temporary security fencing and access to existing buildings to carry out necessary works. These method statements must be issued in a timely manner and in accordance with the Contract, for review and approval by the Employer's Representative.	1	Item	
<u>Adjacent / Abutting Structures</u>			
The works include for the alteration of the existing site entrance opening to the carpark area as detailed on Architect's Drawing No TD-0408 "Site Details-Widened Entrance". These works will involve works and hoarding outside the boundary of the site. Making good the existing public paths, public roads, grass and planted areas on the adjacent lands within the area of the works. The contractor shall liaise with the council, owners of the lands and affected local residents when this work is being undertaken, to minimise disruption to the local area.	1	Item	
A full condition survey of the existing building shall be undertaken prior to commencement and issued to the ER for record.	1	Item	
A full dilapidation survey of all surrounding land shall be undertaken prior to commencement and issued to the ER for record.	1	Item	
A full condition survey of the school access/ exit points onto R3412 Summerhill Road shall be undertaken prior to commencement and issued to the ER for record. The Contractor is responsible for maintaining the surface of these junctions on to the public road throughout the construction period. This will include road surface repairs to potholes that develop whilst construction traffic access the site at these locations. These roads should be handed over in the same condition as before the commencement of the project.	1	Item	
The contractor shall liaise with the adjacent landowners when undertaking the work to minimise disruption.	1	Item	
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<u>1. PRELIMINARIES PARTICULARS (Cont)</u>						
1.3 Drawings and other documents						
<u>Drawings and other documents used for the preparation of this bill of quantities are:</u>						
A	Documents contained in Volume A - Works Requirements	1	Item			
<u>Project Particulars & General Conditions</u>						
B	Provide for any costs arising from complying with items given in Volume A.1 - Project Particulars	1	Item			
<u>Drawings - Copies</u>						
C	Copies of the Drawings, additional to those provided for in the Conditions of Contract shall be provided at the Contractor's expense. Keep one copy of all contract drawings on the works for inspection by the Employer's Representative on completion of the works.	1	Item			
<u>Pricing Documents</u>						
D	The basis of measurement is the Agreed Rules of Measurement, Issue Four 2010 (ARM4) and ARM 4 Supplement 1, agreed between the Construction Industry Federation and the Society of Chartered Surveyors Ireland.	1	Item			
E	Mechanical & Electrical Works measured in accordance with The Agreed Rules of Measurement 4 to Supplement 2	1	Item			
F	Tendering Contractors are referred to the General Rules section of ARM 4 Supplement 1 (Issue 1 2010) and the ARM Standing Committee Notice of Amendments to ARM 4, Supplement 2 dated 15th November 2019 used in the production of Volume C Pricing Document.	1	Item			
G	Tenders must be priced in accordance with section 5.7 of the Instructions to Tenderers issued with this tender	1	Item			
H	Errors in the Pricing Document will be dealt with in accordance with section 8.1 of the Instructions to Tenderers issued with this tender	1	Item			
J	Unbalanced Tenders will be dealt with in accordance with section 8.2 of the Instructions to Tenderers issued with this tender	1	Item			
K	Abnormally low tenders, abnormally high or low rates or prices will be dealt with in accordance with section 8.3 of the Instructions to Tenderers issued with this tender	1	Item			
L	The Contractor shall keep one unpriced copy of the Pricing Document on the Works and the Employer's Representative or his representatives shall at all reasonable times have access to it.	1	Item			

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<u>1. PRELIMINARIES PARTICULARS (Cont)</u>						
A	No alterations or qualifications of any kind may be made by the Tenderer to the text of the Pricing Document. Should any alteration amendment note or addition be made it will be ignored and the text prepared by the Quantity Surveyor shall be adhered to.	1	Item			
B	The tendering contractor must comply with the rules set out in the Instructions to Tenderers when completing Volume C - Pricing Document	1	Item			
<u>Generic Names / Performance Requirements / Proprietary Names</u>						
C	To avoid long descriptions repetitions, certain descriptions and measured items refer to the specification by use of the words "as described" whether so referred or not, all instructions and information contained in the Specification Clauses will be deemed to have been taken into consideration in pricing the whole of this Pricing Document.	1	Item			
D	Wherever a proprietary name is used to specify a material or process it shall be deemed to have the term "or equivalent" appended to it.	1	Item			
E	Where a material or process is described by reference to its proprietary name the name is used to indicate the standard of construction, appearance, ease of maintenance and durability acceptable to the Employer's Representative. The Employer's Representative will approve the use of alternatives where such alternatives are shown to equal or surpass the qualities of the product or process specified. Accordingly proprietary names wherever mentioned in the Specification, Pricing Document or on the drawings shall be deemed to mean the provision of the named product or process or an equivalent.	1	Item			
F	If the Contractor wishes to propose an "equivalent" product to that specified, they must follow the following procedures:	1	Item			
G	a) Proposal to change must be formally requested through the employer's representative (ER) citing the reason why and demonstrating that the "equivalent" is equal to the original specification	1	Item			
H	b) The ER is entitled to seek further demonstration that the "equivalent" proposal is equal, and tendering contractors should expect and include for same	1	Item			
J	c) The ER's approval of the "equivalent" must be issued in writing prior to the works commencing	1	Item			
K	In exceptional cases where it has not been possible to specify a generic element and a specific product has been named, an equivalent product to that specified is acceptable where it meets the technical, functional and aesthetic standards of that specified: the onus is on the contractor to ensure that an equivalent product to that specified meets the standard by means of an agreement cert, insurance backed guarantee or warranty, detailed specifications, fire test certificates where applicable, brochure and other means of proof of compliance. Notwithstanding this, the appropriate foregoing documentation and samples are to be provided to the architect prior to being incorporated into the construction.	1	Item			
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August 2026						
SFR115/Issue1/190207						
Preliminaries/8						

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<u>1. PRELIMINARIES PARTICULARS (Cont)</u>						
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<u>2. CONTRACT</u>						
<u>2. CONTRACT</u>						
2.1 Form, type and conditions of contract						
<u>Form, type and conditions of contract</u>						
The Form of Conditions set out in the Public Works Contract for Building Works designed by the Employer with a cited revision reference commencing with v2 published on http://constructionprocurement.gov.ie/contracts/ on the date 10 days before the latest date for receipt of Tenders (disregarding any amendments posted on that date).						
Articles of Agreement						
A	Agreement A2	1	Item			
Conditions of Contract - clause headings						
1. THE CONTRACT						
B	1.1 Definitions	1	item			
C	1.2 Interpretation	1	item			
D	1.3 Inconsistencies	1	item			
E	1.4 Pricing Document and Works Proposals	1	item			
F	1.5 Performance Bond	1	item			
G	1.6 Reliance Documents	1	item			
H	1.7 Joint Ventures	1	item			
J	1.8 Assignment	1	item			
K	1.9 Miscellaneous	1	item			
L	1.10 Background Information	1	item			
2.0 THE LAW						
M	2.1 Law governing the Contract	1	item			
N	2.2 Compliance with Legal Requirements	1	item			
P	2.3 Consents	1	item			
Q	2.4 Project Supervisor	1	item			
R	2.5 Safety, Health and Welfare at Work Act 2005 and Safety, Health and Welfare at Work (Construction) Regulations 2013	1	item			

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<u>2. CONTRACT (Cont)</u>						
A	2.6 Ethics in Public Office	1	item			
B	2.7 Legal Opinion	1	item			
C	2.8 Data Protection	1	item			
3.0 LOSS, DAMAGE AND INJURY						
D	3.1 Employer's Risks of Loss and Damage to the Works	1	item			
E	3.2 Care of the Works	1	item			
F	3.3 Insurance of the Works and Other Risk Items	1	item			
G	3.4 Contractor's Indemnity	1	item			
H	3.5 Employer's Indemnity	1	item			
J	3.6 Public Liability and Employer's Liability Insurances	1	item			
K	3.7 Professional Indemnity Insurance	1	item			
L	3.8 Existing Facilities and Use or Occupation by Employer	1	item			
M	3.9 General Requirements Concerning Insurance	1	item			
N	3.10 Limitation on Liability	1	Item			
4.0 MANAGEMENT						
P	4.1 Co-operation	1	item			
Q	4.2 Contractor's Representative and Supervisor	1	item			
R	4.3 Employer's Representative	1	item			
S	4.4 Employer's Representative's Communications	1	item			
T	4.5 Instructions	1	item			
U	4.6 Works Proposals	1	item			
V	4.7 Required Contractor Submissions	1	item			
W	4.8 Value Engineering	1	item			
X	4.9 Programme	1	item			
Y	4.10 Progress Reports	1	item			
Z	4.11 Notice and Time for Employer's Obligations	1	item			
AA	4.12 Documents	1	item			
20420 - Carrick On Shannon CS August 2026 SFR115/Issue1/190207					To Collection €	
Preliminaries/11						

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<u>2. CONTRACT (Cont)</u>						
A	4.13 Contractor's Management	1	item			
B	4.14 Communications	1	item			
C	4.15 Meetings	1	item			
D	4.16 Confidentiality and Secrecy	1	item			
E	4.17 Contractor's Things Not to be Removed	1	item			
F	4.18 Contractor's Documents	1	item			
5.0 CONTRACTOR'S PERSONNEL						
G	5.1 Contractor's Personnel to Carry Out Contractor's Obligations	1	item			
H	5.2 Qualifications and Competence	1	item			
J	5.3 Pay and Conditions of Employment	1	item			
K	5.4 Subcontractors and Specialists	1	item			
L	5.5 Collateral Warranties	1	item			
M	5.6 Removal of Workers	1	item			
N	5.7 Weekly Labour Records	1	item			
P	5.8 Ancillary Certificates	1	item			
6.0 PROPERTY						
Q	6.1 Ownership of Work Items	1	item			
R	6.2 Infringement of Property Rights	1	item			
S	6.3 Works Requirements	1	item			
T	6.4 Rights in Contractor's Documents	1	item			
7.0 THE SITE						
U	7.1 Lands Made Available for the Works	1	item			
V	7.2 Trespassers	1	item			
W	7.3 Contractor Responsible for all Site Operations	1	item			
X	7.4 Services for Employer's Facilities	1	item			
Y	7.5 Security and Safety of the Site and Nuisance	1	item			
Z	7.6 Other Contractors	1	item			

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<u>2. CONTRACT (Cont)</u>						
A	7.7 Setting Out the Works	1	item			
B	7.8 Archaeological Objects and Human Remains	1	item			
C	7.9 Access and Facilities	1	item			
D	7.10 Condition of Site on Completion	1	item			
E	7.11 Working Times	1	item			
8.0 QUALITY, TESTING AND DEFECTS						
F	8.1 Standards of Workmanship and Works Items	1	item			
G	8.2 Quality Assurance	1	item			
H	8.3 Inspection	1	item			
J	8.4 Tests	1	item			
K	8.5 Defects	1	item			
L	8.6 Defects Period	1	item			
M	8.7 Defects Certificate	1	item			
9.0 TIME AND COMPLETION						
N	9.1 Starting Date	1	item			
P	9.2 Suspension	1	item			
Q	9.3 Delay and Extension of Time	1	item			
R	9.4 Programme Contingency	1	item			
S	9.5 Omissions and Reduction of Time	1	item			
T	9.6 Substantial Completion	1	item			
U	9.7 Taking Over Part of the Works	1	item			
V	9.8 Liquidated Damages	1	item			
10.0 CLAIMS AND ADJUSTMENTS						
W	10.1 Compensation Event	1	item			
X	10.2 Contractor to Pay Employer's Cost of Checking Quantities	1	item			
Y	10.3 Contractor Claims	1	item			
Z	10.4 Proposed Instructions	1	item			

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<u>2. CONTRACT (Cont)</u>						
A	10.5 Employer's Representative's Determination	1	item			
B	10.6 Adjustments to the Contract Sum	1	item			
C	10.7 Delay Cost	1	item			
D	10.8 (Not used)	1	item			
E	10.9 Employer's Claims	1	item			
F	10.10 International Procurement Instrument Measures	1	Item			
11.0 PAYMENT						
G	11.1 Interim Payment	1	item			
H	11.2 Unfixed Works Items	1	item			
J	11.3 Retention	1	item			
K	11.4 Full payment	1	item			
L	11.5 Final Statement	1	item			
M	11.6 Time for Payment and Interest	1	item			
N	11.7 Value Added Tax	1	item			
P	11.8 Withholding Tax	1	item			
12.0 TERMINATION						
Q	12.1 Termination on Contractor Default	1	item			
R	12.2 Consequences of Default Termination	1	item			
S	12.3 Suspension by the Contractor	1	item			
T	12.4 Termination by the Contractor	1	item			
U	12.5 Termination at Employer's Election	1	item			
V	12.6 Consequences of Termination by Contractor or at Employer's Election	1	item			
W	12.7 Survival	1	item			
X	12.8 Payment	1	item			
Y	12.9 Reference to Conciliation	1	item			
13.0 DISPUTES						
Z	13.1 Dispute Management Procedure	1	item			

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<u>2. CONTRACT (Cont)</u>						
A	13.2 Conciliation	1	item			
B	13.3 Adjudication	1	item			
C	13.4 Arbitration	1	item			
D	13.5 Jurisdiction	1	item			
E	13.6 Agent for Service	1	item			
F	13.7 Continuing obligations	1	item			
14.0 COVID-19 MADATORY CLOSURE						
G	14.1 Covid-19 Definitions	1	item			
H	14.2 Covid-19 General Provisions	1	item			
J	14.3 Covid-19 Costs	1	item			
15.0 PRICE VARIATION						
K	15.1 Definitions	1	item			
L	15.2 Contract Sum Adjustment	1	item			
M	15.3 Proportions	1	item			
N	15.4 Change in Law	1	item			
P	15.5 Failure to Commence by the Start Date	1	item			
Q	15.6 Failure to Complete on Time	1	item			
R	15.7 Excluded Amounts	1	item			
S	15.8 Revisions of Index Figures	1	item			
T	15.9 Permitted Increases and Permitted Decreases for Material Categories and Fuel Categories	1	item			
U	15.10 Adjustments for Labour	1	item			
V	15.11 Efficiency	1	item			
Appendices to Clause 15						
W	Appendix 1 Definitions	1	Item			
X	Appendix 2 Permitted Increases and Permitted Decreases for Materials and Fuel	1	Item			
Y	Appendix 3 Labour	1	Item			

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<u>2. CONTRACT (Cont)</u>						
THE SCHEDULE - PART 1						
A	A. Employer's Representative and Communications	1	item			
B	B. Documents	1	item			
C	C. Project Supervisor	1	item			
D	D. Insurance	1	item			
E	E. Performance Bond	1	item			
F	F (i). Collateral Warranties	1	item			
G	F (ii). Ancillary Certificates	1	item			
H	F (iii). Named Specialists	1	item			
J	G. Dates for Substantial Completion, Sections, liquidated damages, retention	1	item			
K	H. Early Completion	1	item			
L	I. Defects Period	1	item			
M	J. Random Checks for Employment Records	1	item			
N	K. Delay Events, Compensation Events, Programme Contingency, Delay Costs, Adjustments	1	item			
P	L. Payment Particulars	1	item			
Q	M. Cap on Liability	1	item			
R	N. Conciliation, Adjudication and Arbitration	1	item			
S	O. Rights in Contractor's Documents	1	item			
T	P. IPI Measures	1	Item			
U	The completed Schedule Part 1 of the contract is contained within Volume B. Provide herein if not included elsewhere for complying in all respects with the schedule & conditions as described.	1	Item			
<u>The insertions in the Schedule Part 1 are:</u>						
<u>A. Employer's Representative and Communications</u>						
Sub-clauses 4.3 and 4.14						
Notices under clauses 12 and 13 to be sent to						

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<u>2. CONTRACT (Cont)</u> Chairperson of Board of Management, Carrick-on-Shannon Community School 2-12 Glen Carrick, Summerhill, Carrick-On-Shannon, Co. Leitrim, N41 VX63 Other notices to the Employer to be sent to Mr Bill McEvoy McCarthy O'Hora Architects, Old Church, Church Street, Portlaoise, Co. Laois Phone: +353(0)57 8622566 Email: bill.mcevoy@mcoh.ie The Employer's Representative is: Mr Bill McEvoy, McCarthy O'Hora Architects Notices to the Employer's Representative to be sent to Mr Bill McEvoy McCarthy O'Hora Architects, Old Church, Church Street, Portlaoise, Co. Laois Phone: +353(0)57 8622566 Email: bill.mcevoy@mcoh.ie The number of Project Board members for the Contract shall be: 1 member from each Party Maximum adjustment to the Contract Sum for a single Change Order: €2,000.00 Maximum cumulative value of adjustments to the Contract Sum for Change Orders in any 3 month period is: 0.25% of the Contract value, unless approved by the Employer. <u>B. Documents</u> Works Requirements are: As Scheduled in Volume A Works Requirements Pricing Document is: A Bill of Quantities to the Agreed Rules of Measurement 4 , as amended by Supplement 1 Issue 2, as included in Volume C. Mechanical & Electrical works measured in accordance with The Agreed Rules of Measurement 4 to Supplement 2 Works Proposals are:				
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<u>2. CONTRACT (Cont)</u> As included in Volume D and attachments - Works Proposals (response to Technical Merit Criteria as outlined in Appendix 1 of the ITT document and accompanying tender information outlining the technical merit criteria). <u>C. Project Supervisor (Sub-clause 2.4)</u> The Contractor, or an individual or body corporate named in the Work Proposals, is to be appointed project supervisor for the construction stage for the Works and any other work on the Site between the Starting Date and the date of Substantial Completion of the Works contemplated in the Works Requirements. <u>D. Insurance (Sub-clause 3)</u> A Insurance of the works: minimum amount insured for professional fees 12.5% of the Contract Sum B Minimum indemnity limit for Public Liability insurance: €6,500,000 for any one event, but this limit may be on an annual aggregate basis for products liability, collapse, vibration, subsidence, removal and weakening of supports and sudden accidental pollution C Minimum indemnity limit for Employers' liability insurance: €13,000,000 for any one event D Maximum excess for Insurance of Works and other Risk Items: the greater of 1% of the Project Value or 0.5% of Contractor's turnover E Maximum excess for Public liability: the greater of 1% of the Project Value or 0.5% of Contractor's turnover in respect of property damage only. There shall be no excess for death, injury or illness. F There is no excess permitted for Employers' liability insurance. Permitted exclusions from all Insurances G War, invasion, act of foreign enemies, hostilities [whether war is declared or not], civil war, rebellion, revolution, insurrection or military or usurped power H Pressure waves caused by aircraft or other airborne objects travelling at sonic or supersonic speeds J Contamination by radioactivity or radioactive, toxic, explosive or other hazardous properties of any explosive nuclear assembly or its components, in each case not caused by the Contractor or the Contractor's Personnel K Terrorism L Asbestos Permitted exclusions from insurance of the Works and other Risk Items:						
	1	item				
	1	item				
	1	item				
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<u>2. CONTRACT (Cont)</u>						
A	Use or occupation of the Works by the Employer except in connection with the Works	1	item			
B	Unless otherwise specified in the Works Requirements, cost of making good defects in the Works but not damage caused by such defects to other sound parts of the Works	1	item			
C	Wear, tear, normal upkeep or normal repair or gradual deterioration	1	item			
D	Inventory losses	1	item			
E	Loss of use or any consequential loss of any nature including penalties for delay, non-completion or non-compliance	1	item			
F	Failure of information technology	1	item			
G	Mechanical or electrical breakdown but not resulting damage	1	item			
H	Cessation of the Works for more than 3 months	1	item			
Permitted exclusions from public liability insurance:						
J	Persons under a contract of service or apprenticeship with the insured	1	item			
K	Property of the insured or in the insured's custody or control other than existing premises and their contents temporarily occupied for the purposes of the Works	1	item			
L	Defective workmanship or materials but not resulting damage	1	item			
M	Mechanically propelled vehicles within the meaning of the Road Traffic Acts	1	item			
N	Loss or damage due to design	1	item			
P	Gradual pollution or contamination	1	item			
Q	Territorial limits	1	item			
R	Unless otherwise specified in the Works Requirements, aircraft and waterborne craft	1	item			
S	Fines, penalties, liquidated damages	1	item			
Permitted exclusions from employer's liability insurance:						
T	Offshore work	1	item			
U	Liability compulsorily insurable under the Road Traffic Acts	1	item			
Permitted exclusions for professional indemnity insurance:						
V	Persons under a contract of service or apprenticeship with the insured	1	item			
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2. CONTRACT (Cont)					
Ownership, use, occupation or leasing of mobile or immobile property	1	item			
Effecting or maintenance of insurance of or in connection with the provision of finance or advice on financial matters	1	item			
Dishonest, malicious, criminal or deliberate illegal acts	1	item			
Libel and slander	1	item			
Insolvency	1	item			
Fines, penalties, liquidated damages or any penal, punitive, exemplary, non-compensatory or aggravated damages	1	item			
Failure of information technology	1	item			
Contractual liability that would not apply in the absence of the contract	1	item			
Optional insurance provisions					
Sub-clause 3.8 (Existing Facilities and Use or Occupation by Employer) shall apply.	1	item			
Insurance of the works and other Risk Items shall include the following property of the Employer, other than the Works and Work Items: Not applicable and the minimum sum for which this property is to be insured shall be €Not Applicable.	1	item			
If insurance of the Works and other Risk Items is to include terrorism cover, the minimum sum insured shall be: €0.00	1	item			
The Contractor is not required to extend the insurance of the Works and other Risk Items for a Section that has reached Substantial Completion until the Employer's Representative issues the certificate of Substantial Completion for the whole Works.	1	item			
Required extensions to Insurance: N/A	1	item			
Professional Indemnity Insurance is required	1	item			
If required, the Professional Indemnity Insurance is in place it must be kept in place for 12 years after Substantial Completion of the Works is certified by the Employer's Representative	1	item			
If required the minimum indemnity limit for professional indemnity insurance shall be €1,000,000 annual aggregate limit.	1	item			
The maximum excess shall be the greater amount of 2% of the Contractor's annual turnover or €5,000.	1	item			
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<u>2. CONTRACT (Cont)</u>					
E. Performance Bond (Sub-clause 1.5)					
A performance bond is required					
The amount of the performance bond shall be 12.5% of the initial Contract Sum up to certification of Substantial Completion of the Works, and 6.25% of the initial Contract Sum for 450 days after that.	1	item			
F(i). Collateral Warranties (Sub-clause 5.5)					
Collateral Warranties are required from the following categories of Specialists, by the following dates; and the amount withheld from payments under sub-clause 11.4.1 area as follows:					
Not Applicable	1	item			
F(ii). Ancillary Certificates (Sub-clause 5.8)					
Ancillary Certificates are required from the following categories of Contractor's Personnel. The list reflects the works elements known at the time of tender but does not limit the Contractor's duties under sub-clause 2.3.1:					
Refer to list of Ancillary Certificates included in Volume B - Schedule Part 1 (Note: The contractor should note that the list is not exhaustive).	1	item			
F(iii). Named Specialists (Sub-clause 5.4)					
Not Applicable	1	item			
G. Dates for Substantial Completion, Sections, Liquidated Damages, Retention					
The Works					
Date for Substantial Completion: Last day of 21 Months (91 Weeks) starting on the Contract Date	1	item			
Rate of Liquidated Damages: €See Sections as per below	1	item			
Section 1 - Diversion of services, provision of new LPG compound and connection to existing building, widening rear access road and construct new temporary fire escape from stairwell in existing school building all as detailed on Architect's Drawing Nr TD-0131 'Site Plan Phase 1' and Volume A Works Requirements					
Date for Substantial Completion: Last day of 4 Month (17 Weeks) period starting on the Contract Date	1	item			
Rate of Liquidated Damages: €22,00.00 per month	1	item			
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<u>2. CONTRACT (Cont)</u>						
Section 2 - Constuction of new temporary construction access to rear of site, and construction of new extension and stairwell all as detailed on Architect's Drawing Nr TD-0132 'Site Plan Phase 2' and Volume A Works Requirements						
A	Date for Substantial Completion: Last day of 12 Month (52 Weeks) period starting 4 Months after the Contract Date	1	item			
B	Rate of Liquidated Damages: €40,000.00 per month	1	item			
Section 3 - Removal/ Demolition of existing prefabs and construction of new ballcourt all as detailed on Architect's Drawing Nr TD-0133 'Site Plan Phase 3' and Volume A Works Requirements						
C	Date for Substantial Completion: Last day of 3 Month (13 Weeks) period starting 16 Months after the Contract Date	1	item			
D	Rate of Liquidated Damages: €22,00.00 per month	1	item			
Section 4 - Reconfiguration of existing site entrance and construction of new carpark, paths and landscaping to the front of the site all as detailed on Architect's Drawing Nr TD-0134 'Site Plan Phase 4' and Volume A Works Requirements						
E	Date for Substantial Completion: Last day of 2 Month (9 Weeks) period starting 19 Months after the Contract Date	1	item			
F	Rate of Liquidated Damages: €22,00.00 per month	1	item			
<u>H. Early Completion (Sub-clause 9.6)</u>						
G	The Employer's Representative is required to issue the certificate of Substantial Completion if the Works or a Section reaches Substantial Completion before its Date for Substantial Completion.	1	item			
<u>I. Defects Period</u>						
H	The initial Defects Period is one year from the date of Substantial Completion of the Works	1	Item			
<u>J. Random Checks for Employment Records</u>						
J	Sub-clause 5.3.3A(2) shall be part of the contract	1	Item			
<u>K. Delay Events, Compensation Events, Programme Contingency, Delay Costs, Adjustments (Sub-clauses 9.3,9.4, 10.1, 10.6, 10.7)</u>						
K	Event Nr 18 (Compensation Event - Yes)	1	item			
L	Event Nr 19 (Compensation Event - Yes)	1	item			
M	Event Nr 20 (Compensation Event - Yes)	1	item			
N	Event Nr 21 (Compensation Event - No)	1	item			
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<u>2. CONTRACT (Cont)</u>						
A	Weather station for measurement of weather events: Knock Airport weather station In Sub-clause 9.4	1	item			
B	The first threshold is 15 Site Working Days of delay caused by Compensation Events	1	item			
C	The second threshold is 25 Site Working Days of delay caused by Compensation Events	1	item			
D	In Sub-clause 10.6.4(3), the rates to be used to determine the cost of plant are the rates in: Not applicable modified as follows:	1	item			
E	Rates will be treated as if in euro and any rates in the Pricing Document In sub-clause 10.7, the amount to be added for delay cost is in accordance with sub-clause 10.7.1(2) the daily rate tendered by the Contractor in the Schedule, part 2D	1	item			
F	For the purposes of sub-clause 10.7, the Contractor is to tender in part 2D a single daily rate for delay costs L. Payment Particulars (Clause 11)	1	item			
G	Period for interim payment is: Monthly	1	Item			
H	Minimum amount for interim payments, except release of retention, €5,000.00	1	Item			
J	Up to the percentage stated below of the Contract value of the following unfixed Works Items may be included in an interim payment in accordance with sub-clause 11.2:	1	Item			
K	On-Site Materials: % of Contract value: 90%	1	Item			
L	Off-Site Materials with Bond: % of Contract value: 90%	1	Item			
M	The retention percentage is 3% <u>M. Cap on Liability (Sub-clause 3.10)</u>	1	Item			
N	€Equal to the Contract Sum <u>N. Conciliation, Adjudication and Arbitration (Sub-clauses 13.2, 13.3 and 13.4)</u>	1	item			
P	For the purposes of resolution of a dispute by conciliation the parties to the contract shall agree on the appointment of: A Conciliator appointed for each conciliation	1	item			
Q	Failing agreement, the conciliator (or Standing Conciliator) will be appointed by: The President of the RIAI	1	item			

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<u>2. CONTRACT (Cont)</u>						
A	The arbitration rules are the Capital Works Management Framework (CWMF) Arbitration Rules for use with Public Works and Construction Services Contracts (AR1)	1	Item			
B	The person or body to appoint the arbitrator, if not agreed by the parties, is The President of the RIAI	1	Item			
C	The person to appoint the adjudicator, if not agreed by the parties is Chairperson of the Panel of Adjudicators	1	Item			
<u>O. Rights in Contractor's Documents (Sub-clause 6.4)</u>						
D	Copyright and all other rights in the following Contractor's Documents and Works Proposals described in sub-clause 6.4.2 transfers to the Employer in accordance with sub-clause 6.4: Nil	1	Item			
<u>P. IPI Measures (Sub-clause 10.10)</u>						
E	Sub-clause 10.10 shall not apply.	1	Item			
STATUTORY COMPLIANCE						
<u>Planning</u>						
F	The Contractor is required to comply with the planning permission that is applicable to the Works including compliance in full with all conditions attached to the permission. Refer to The Grant of Planning Permission for this project is included in the Information Pack (Appendix 3 to ITT) and the Contractor shall include for any costs arising out of the conditions listed therein.	1	Item			
<u>Fire Safety</u>						
G	The Contractor is required to comply with the Fire Safety Certificates(s) that are applicable to the Works including compliance in full with all conditions attached to these certificates.	1	Item			
H	The Contractor is solely responsible for all the costs required to comply with such conditions.	1	Item			
J	The contractor shall engage a third party fire safety certifier to provide Ancillary Inspection Completion Certificate (SI RIAI ACI 02) under SI 09 in relation to all of the construction elements of the building relating to Fire Safety and Compliance with Building Regulations Part B and the granted Fire Safety Certificate	1	Item			

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<u>2. CONTRACT (Cont)</u>						
<u>Disability Access Certificates (DAC)</u>						
A	The Contractor is required to comply with the DAC(s) that are applicable to the Works including compliance in full with all conditions attached to these certificates.	1	Item			
B	The Contractor is solely responsible for all the costs required to comply with such conditions.	1	Item			
<u>Building Control (Amendment) Regulations 2014</u>						
C	Please note that all references to 'Builder' refer to the Main Contractor		note			
D	The Contractor shall provide Certificates as required by The Building Control (Amendment) Regulations 2014, and shall comply with The Building Control (Amendment) Regulations 2014, and shall comply with The Code of Practice for Inspection and Certification issued by the Department of Environment, Community, and Local Government.	1	Item			
E	The Contractor shall be responsible for the serving of and compliance with all notices and the like required under the Building Control Act 1990, the current Building Regulations and the Building Control (Amendment) Regulations 2014 in connection with the execution of the works.	1	Item			
F	The Contractor shall comply with all Building Regulations over which he has control. The Main Contractor shall at Substantial Completion provide written confirmation signed by a Director of his company that he has so complied.	1	Item			
1.0 Contract Requirements						
G	1.1 The Builder shall cooperate with the Assigned Certifier (AC) through the Employers Representative (ER) and coordinate the notifications and inspections	1	Item			
H	1.2 The Builder to provide all confirmations and / or documentation required for Interim & Final Certificate for Payments	1	Item			
J	1.3.1 No claims for delay and/or additional expense will be entertained under the contract due to delays by the builder in notifying all inspections	1	Item			
K	1.3.2 No claims for delay and/or additional expense will be entertained under the contract due to delays in completing builders inspections	1	Item			
L	1.3.3 No claims for delay and/or additional expense will be entertained under the contract due to delays caused by re-inspections or provision of records	1	Item			
M	1.3.4 No claims for delay and/or additional expense will be entertained under the contract - Contractor to use best endeavours to minimise any delays in inspection	1	Item			
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<u>2. CONTRACT (Cont)</u>						
A	1.3.5 No claims for delay and/or additional expense will be entertained under the contract - The Employer may employ and pay other persons to provide such records, certificates or confirmations and all costs incurred in connection therewith shall be recoverable from the Builder	1	Item			
B	1.4 Phased Construction: Section Completion - The Builder shall promptly provide the documentation set out in detail of this document for each individual phase or section of the works that is identified in the Preliminary Inspection Plan and Inspection Notification Framework. This school is to be constructed in two parts with sectional handover of the first part prior to commencement of construction of the second adjoining part. It will be necessary to complete BC(A)R separately for each section of the building.	1	Item			
2.0 Builder (Main Contractor) Obligations						
All of the obligations in this document are deemed to form part of the works requirements/ building contract and are to be included in the Builders tender costs.						
The Builder shall cooperate and coordinate with the Assigned Certifier and shall confirm and /or provide the following:						
C	1. that they accept from the Building Owner the assignment to build and supervise the building or works and provide/sign the statutory forms (see Appendices A) identified in the Commencement Notice	1	Item			
D	2. that they have familiarised themselves with the drawings, specifications and documents lodged with the Commencement Notice	1	Item			
E	3. Agree the execution, Inspection milestones, sequence and programme of works with the CA/ ER & Assigned Certifier in advance of commencement of works	1	Item			
F	4. ensure Competent Person(s) are assigned to oversee the general construction works and/or specialist works. The specialist works and associated Assigned Certifiers which the Builder is responsible for are identified on a preliminary basis in the Inspection Notification Framework issued at tender	1	Item			
G	5. that they will co-operate at all times with the CA/ER, design team, the Assigned Certifier and other Ancillary Certifiers	1	Item			
H	6. ensure that the workmanship complies with the requirements of the Building Regulations	1	Item			
J	7. ensure that materials which they select and for which they are responsible comply with the requirements of the Building Regulations	1	Item			
K	8. Confirmation with documentation is provided at interim certificate stage if requested by the AC via the CA/ER	1	Item			
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<u>2. CONTRACT (Cont)</u>						
A	9. Provide a signed statutory form- Certificate of Compliance on Completion at handover	1	Item			
B	10. Promptly provide to the Assigned Certifier, via the CA/ER, all documents requested by the Assigned Certifier to enable the Assigned Certifier to collate particulars for the purposes of handover and certification, and/or for further submissions to the Building Control Authority	1	Item			
C	11. ensure the coordination and provision of all test certificates and confirmations to the Assigned Certifier via the ER/CA, to the satisfaction of the Assigned Certifier	1	Item			
D	12. co-ordinate the work of all specialist sub-contractors and designers to ensure the coordination and provision of all test certificates and confirmations to the designated inspectors, or Ancillary Certifiers, who are required to provide Ancillary Completion Certificates, as identified by the Assigned Certifier at any stage during the project. Refer to Works Requirements for list of Ancillary Certificates required.	1	Item			
E	13. ensure the coordination and provision of all test certificates and confirmations to the Assigned Certifier via the ER/CA, to the satisfaction of the Assigned Certifier	1	Item			
F	14. co-ordinate the work of all specialist sub-contractors and designers to ensure the coordination and provision of all test certificates and confirmations to the designated inspectors, or Ancillary Certifiers	1	Item			
G	15. Maintain records as detailed in the Works Requirements	1	Item			
H	16. Comply with the detailed requirements of the Preliminary Inspection Plan and Inspection Notification Framework as issued at tender, and as updated	1	Item			
J	17. Provide/furnish Ancillary Completion Certificates to the Assigned Certifier via the CA/ER for specialist works with design	1	Item			
K	18. Co-operate with the Assigned Certifier, in the lodgement of supplementary documentation to the Building Control Authority during the course of the works	1	Item			
L	19. Incomplete design work or specialist design that is not available for submission at commencement stage can be submitted to the Building Control Authority at a later stage	1	Item			
M	20. Between 3-5 weeks in advance of a nominated completion date, provide all completed or prospective documentation and confirmations for which the Builder is responsible for, to the Assigned Certifier.	1	Item			
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<u>2. CONTRACT (Cont)</u>						
3.0 Statutory BC(A)R Assignment & Certificate Forms						
A	3.1 In advance of the commencement of the works, in addition to and accompanying the commencement Notice, there are 2 statutory assignments and 3 statutory certificate's to be completed on-line using the Building Control Management System on-line system. The format for these are as per the Second Schedule, SI 9 2014. At completion, a 4th statutory certificate is completed on-line using the Building Control Management System on-line system. The format for these are as per the Second Schedule, SI 9 2014.	1	Item			
B	3.2. The two assignments, A1 and A2 as follows are submitted with the Commencement Notice; A.1) Notice of Assignment of Assigned Certifier (Notice of Assignment of Person to Inspect and Certify Works); A.2) Notice of Assignment of Builder	1	Item			
C	3.3 There are three statutory certificates F1, F2, F3 as follows to be submitted by the Building Owner with the Commencement Notice; F1) Design Certificate (Form of Certificate of Compliance-Design); F2) Undertaking by Assigned Certifier (Form of Certificate of Compliance); F3) Undertaking by Builder (Form of Certificate of Compliance)	1	Item			
D	3.4 The fourth statutory certificate, F4 is co-signed by the Assigned Certifier and Builder and submitted at project completion. F4) Certificate of Compliance on Completion	1	Item			
E	3.5 No works shall commence on site until a valid Commencement Notice, including all the associated uploaded documentation, has been submitted to, and successfully registered by the Building Control Management System.	1	Item			
4.0 Ancillary Certifiers & Ancillary Completion Certificates						
F	4.1. The Builder shall co-coordinate the work of all specialist sub-contractors and all specialist subcontractors with design	1	Item			
G	4.2. The Builder shall coordinate the work of all the Ancillary Certifiers	1	Item			
H	4.3. Post Tender and prior to the issue of the Commencement Notice and subsequently as the works proceed, the Builder shall coordinate the notification of inspections and records with the Assigned Certifier and the Ancillary Certifiers in accordance with the Inspection Notification Framework	1	Item			
J	4.4. The forms of Ancillary Completion Certificate to be used are included in the Tender Documentation	1	Item			
5.0 Builder (Main Contractor) and Specialist Sub-Contractor Supervision						
K	5.1. The Contractor shall ensure that there are at all times on the site sufficiently suitably qualified, experienced and competent staff to supervise all work carried out under the contract	1	Item			
L	5.2. Supervision of the works shall always be the responsibility of the Builder and where relevant, the specialist Sub-Contractor (s).	1	Item			

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<u>2. CONTRACT (Cont)</u>						
A	5.3. Supervisors shall be provided both on and off the site that shall instruct the Sub- Contractor's tradesmen	1	Item			
B	5.4. Undertake all work with skill and care in order to produce work fit for its intended purpose and of good quality under the direct supervision	1	Item			
C	5.5. Sub-Contract pre-installation meetings shall be organised by the builder with the CA/ER, Assigned Certifier, Specialist Sub-Contractor, and Manufacturer's representatives, The Builder shall keep records of all such meetings	1	Item			
D	5.6. the Sub-Contractor shall notify the Builder the names of his appointed supervisors. No work shall be carried out unless one of the appointed supervisors is present	1	Item			
E	5.7. All work shall be carried out in accordance with the terms and requirements of the works requirements and approved submissions and samples.	1	Item			
F	5.8. The Architect or Assigned Certifier shall, if required, make random or periodic visits to suppliers premises to ensure that standards of manufacture and quality control are to their satisfaction.	1	Item			
6.0 The Preliminary Inspection Plan						
G	6.1. The Preliminary Inspection Plan is a statutory document prepared by the Assigned Certifier that is has to be submitted to the Building Control Authority by the Employer with the Commencement Notice a minimum of 2 weeks and a maximum of 4 weeks in advance of the commencement of the works. At project completion the Inspection Plan as implemented is submitted to the Building Control Authority.	1	Item			
H	6.2. It is the responsibility of the Builder to employ competent persons to supervise the works. The inspection plan shall not in any way diminish the duty of the Builder to properly supervise, and any defective works, whether identified during or after the contract period, remain the sole responsibility of the Builder.	1	Item			
J	6.3. The Builder shall include with his tender submission a Method Statement and his own Preliminary Inspection Plan indicating his own inspection and supervision regime.	1	Item			
K	6.4. A copy of the Preliminary Inspection Plan is included within the Tender Documents	1	Item			
7.0 The Inspection Notification Framework						
L	7.1. The Inspection Notification Framework identifies in detail and by trade/ stage and critical milestone what the Assigned Certifier, Builder, and Ancillary Certifiers (designers, specialist sub-contractors, suppliers, w/wo design) are required to inspect, when they are to inspect, and if records are required.	1	Item			
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<u>2. CONTRACT (Cont)</u>						
A	7.2. The Builder shall have regard to the Inspection Notification Framework issued at tender with respect to programming of the works.	1	Item			
B	7.3. The tenderers are to include for all costs associated with the INF	1	Item			
C	7.4 . The Builder shall coordinate the inspections and provision of records of the Ancillary Certifiers for which he is responsible	1	Item			
D	7.5. The Builder shall at tender submit an associated method statement identifying on a preliminary basis how the INF and Inspection Protocols will be achieved	1	Item			
E	7.6. Project Specific Identified Risk Elements	1	Item			
F	7.7. Project Specific Tests Requirements	1	Item			
8.0 Inspection Protocols						
G	8.1. The inspection requirements set out in this document do not in any way relieve, replace, or reduce the builders duty to supervise the works.	1	Item			
H	8.2. Coordination of tests, inspections & records: (a) the appointed Builder shall meet and coordinate and update the Inspection Notification Framework and preliminary Inspection Plan with the builders construction programme. (b) The Preliminary Inspection Plan is updated to show the agreed inspection milestones. (c) all elements identified in the Inspection Notification Framework to be made available for inspection at each milestone complete, not concealed and safely accessible. (d) The Builder shall facilitate random inspections by the Assigned Certifier or Ancillary Certifiers as if such inspections were identified in the Inspection Notification Framework. (e) The Builder to provide in a timely manner all certificates and tests for materials, products and assemblies	1	Item			
J	8.3. Advance notice and time for inspections: (a) Due consideration shall be given by the Builder for inspection notices. No claims for extension of time or financial claims shall be considered for delays arising out of inspection or re-inspection requirements. (b) The Builder shall ensure advance notifications are issued with respect to works to be inspected that are identified in the Inspection schedule. The minimum advance notice required for inspection of items of works is 5 working days.	1	Item			
K	8.4. Re-Inspections/Follow up inspections: (a) The minimum notice required for re-inspection of items of works not complete or requiring remedial works shall be 3 working days. (b) The Assigned Certifier shall without delay notify the Builder of any incomplete work at a given milestone identified in the Inspection Notification Framework. (c) The Builder shall diligently ensure that any incomplete areas of given milestones are completed and that such works are kept available for inspection again, or until a record of completion is furnished, as may be required by the Assigned Certifier.	1	Item			

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<u>2. CONTRACT (Cont)</u>						
A	8.5. The Builder shall diligently ensure that any areas of non compliance are rectified and that such works are kept available for inspection again, or until a record of rectification is furnished, as may be required by the Assigned Certifier. The Main Builder shall ensure all tests and certificates for materials, components and assemblies listed in the Inspection Notification Framework are undertaken in a timely way. Any test failure shall immediately be made known to the ER/AC, the materials/works in question shall be replaced/rectified and retested undertaken prior to proceeding with subsequent work. It is the responsibility of the Builder to coordinate and supervise the works and no claim for delay or cost shall arise from the requirement to re-inspect.	1	Item			
B	8.6. Non-Conformance: (a) Materials & Workmanship- contract clauses. (b) Contract /Works Requirements - contract clauses. (c) Missed Inspections - Ultimately they are recorded on the completed Preliminary Inspection Plan and registered with Building Control.	1	Item			
9.0 Record Keeping (Builders Progress Records)						
C	9.1. The Builder shall maintain progress records and inspection records prepared by him prepared in accordance with the Method Statement submitted at tender as set out in this document.	1	Item			
D	9.2. The Tenderers shall include in their tender costs for the provision of progress records as the works proceed.	1	Item			
E	9.3. Method of Recording	1	Item			
F	9.4. Promptly provide a copy to the Assigned Certifier of all progress records and inspection records prepared by the Builder and the Ancillary Certifiers	1	Item			
G	9.5. At completion the Builder shall issue the AC a copy of the records prepared by the Builder and the Ancillary Certifiers.	1	Item			
H	9.6. The Builder shall also retain in his own central office all records prepared by the Builder and the Ancillary Certifiers for a minimum period of 6 years.	1	Item			
J	9.7 One hardcopy and/or softcopy of all records shall be issued 5 days in advance of the nominated completion date.	1	Item			
K	9.8. The record should include evidence of the successful execution of the Builders method statement on supervision including tests, check sheets, photographs and memos. All evidence shall be indexed by location and date.	1	Item			
L	9.9. Acceptance of such records shall not constitute approval or imply that their content has been examined.	1	Item			
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<u>2. CONTRACT (Cont)</u>						
10.0 Tender Submittal Requirements						
The apparently successful tenderer shall submit the following documentation after tender. The submission of satisfactory documentation is precedent to the award of the contract.					1	
A	1.Builders Competence Assessment	1	Item			
B	2.Sub-Contractor/Specialist Competence (Ancillary Certifiers) Assessment	1	Item			
C	3.Builders Method Statement	1	Item			
11.0 Completion						
D	11.1. Tenderers shall note that Substantial Completion for this contract is contingent upon the successful registration of the works on the Building Control Management System.	1	Item			
E	11.2. Tenderers shall note that this project shall require a Prior Notification of Completion to be submitted to the Building Control Authority in advance of completion.	1	Item			
F	11.3. The Builder shall provide 4/6 weeks in advance of the nominated completion date all completed and/or prospective documentation and confirmations for Registration. The Assigned Certifier and the Builder shall co-sign the Completion Certificate.	1	Item			
G	11.4. The Assigned Certifier and Builder shall then lodge/upload the documentation onto the Building Control Authority system.	1	Item			
H	11.5. Notwithstanding any statutory duty to retain same, in advance of project completion, the Builder shall issue to the Assigned Certifier a copy of all inspection records retained by the Builder during the course of the project.	1	Item			
J	11.6 Refer also to Sections 9 above for the project specific requirements for records and method for retaining records.	1	Item			
12.0 Additional BC(A)R Requirements						
Fire Protection Photographic Log						
Refer to the Volume A Works Requirements for the following required for the entire fire protection installation throughout: fire barriers, cavity barriers, intumescent pillows, fire protection to steel, firestopping (doors to walls, head of compartment walls, opes in compartment walls/ floors) (non exhaustive)						
K	Inspect & photograph each and every element of fire protection during construction:	1	Item			
L	Provide a detailed report and photographic log upon completion with interim reports at each fortnightly site meeting	1	Item			

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<u>2. CONTRACT (Cont)</u>						
A	Provide Cs Cert for supply & installation of firestopping Wall Ties Photographic Log	1	Item			
B	Provide a detailed report and photographic log upon completion with interim reports at each fortnightly site meeting for the blockwork installation throughout. Report to update on ongoing measures to ensure quality of installation.	1	Item			
<u>COMPLIANCE WITH BUILDING CONTROL ACT 2007</u>						
C	All building works to conform fully with the requirements of the Building Control Act 2007 (including current amendments, current statutory instruments and all current Building regulations) and specific items of works are to be executed strictly in accordance with the recommendations set out in the various current Technical Guidance documents A-M. A full set of the Technical Guidance Documents to be provided and kept on site at the Contractor's expense.	1	Item			
D	The Contractor on completion of the said Contract Works is to issue a certificate in a form acceptable to the Employer's Representative and Client confirming that all the Contract Works have been executed in accordance with the requirements of the Building Control Act 2007 and any amendments thereof.	1	Item			
<u>CONSTRUCTION CONTRACTS ACT 2013</u>						
E	The Contractor shall comply with the Main Contractor requirements as set out in the Construction Contracts Act 2013 and shall include for all costs associated with same. The "payment claim date" shall fall within the final full calendar week of each month for the duration of the construction Contract until the Certificate of Practical Completion is awarded.	1	Item			
2.2 Contractor's liability						
F	Contractors liability for risk or injury to persons and property and of damage to the works.	1	Item			
G	Provide for taking out and maintaining Public Liability and Employer's liability Insurances against injury to persons and property (minimum sum for Public Liability Insurances: (€6,500,000 for each and every claim; minimum sum for Employer's Liability Insurance €13,000,000) as required by the Conditions of Contract.	1	Item			
H	The Employer requires the Contractor to effect insurance in respect of the Contractor's liability for any such risk.	1	Item			
J	Provide for taking out and maintaining All Risks Insurance for the full value of the Works and ancillary items required by the Conditions of Contract.	1	Item			
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<u>2. CONTRACT (Cont)</u>						
A	The Contractor shall be held responsible for any damage to adjoining property and any other properties adjacent to the site, which may be caused by the execution of the works and he is to provide any necessary protection for this purpose and remove same when no longer required and make good any damage at his/her own expense. He/she is to indemnify the Employer in respect of any claim for disturbance or damage arising out of the foregoing	1	Item			
B	Before site clearance commences, the developer shall submit proposals for the off-site disposal of waste excavation material, which shall only be disposed off to a site which has a current waste licence or waste permit in accordance with the Waste Management Act, 1996. The details shall be submitted to, and agreed in writing with, the Planning Authority	1	Item			
C	The prices and rates shall include for any costs arising from the Contractor's obligations under the Waste Management Act 1996, or any other environmental legislation, with particular regard to the holding, transport recovery and disposal of waste arising from the carrying out of the works.	1	Item			
D	Insurances provided by Contractors must be authorised for this jurisdiction.	1	Item			
E	Any insurance policies which are renewed on or after 01 January 2021 with a UK domiciled Insurer will not be permitted in the ROI.	1	Item			
F	Any insurance policies which were in force prior to 01 January 2021 with a UK domiciled Insurer will remain valid (solely for the purposes of paying claims) for a period of 15 years.	1	Item			
G	The Contractor will need to have evidence Employers Liability and Public/Products/Pollution Liability insurances that cover the activities of Asbestos Handling/Removal and include both the Employer and the Main Contractor as additional Insureds and a Non-Vitiation clause under their Public/Products/Pollution Liability insurance.	1	Item			
2.3 Insurance liability of Employer						
H	The Employer shall have the risk of loss of and damage to its existing facilities and parts of the Works it uses or occupies, in accordance with sub-clause 3.8	1	Item			
2.4 Local Authority fees and charges						
J	A Roads Opening Licence must be obtained from Leitrim County Council prior to the commencement of any works in the public domain in order to comply with the Roads Act 1993.	1	Item			
K	Contractor to seek local authority approvals/ licenses as necessary to carry out the works through to completion.	1	Item			

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<u>2. CONTRACT (Cont)</u>						
A	The contractor is obliged to provide for Road opening licence(s) and/or Temporary road closure licence(s) for the works in relation to works outside the boundary of the site in public roadways, footpaths, verges etc. The contractor must provide all information as requested by Leitrim County Council, the NRA and all other involved parties.	1	Item			
B	Leitrim County Council shall be consulted with regards to the amount of the fees to be paid. The Contractor must include herein for all associated fees and charges	1	Item			
C	The tendering Contractor is to visit the site and it's surrounding location (as indicated in the Works Requirements) to ascertain the exact length of road opening required and contact the Local Authority to ascertain the fees required in this regard.	1	Item			
2.5 Obligations and restrictions imposed by the Employer						
<u>a) Access to and possession or use of the site.</u>						
Construction Access						
D	The Contractor will be responsible for providing, maintaining and removing all required pedestrian and vehicles access and egress points to the Works in accordance with the phasing drawings, the Traffic Impact Assessment Report for each Site, planning permission conditions, the preliminary Health & Safety Plan, the Safety, Health and Welfare at Work (Construction) Regulations 2013 and the Health and Welfare at Work (General Application) Regulations 1993. The Contractor is also responsible for providing, maintaining and removing all traffic management for all users of the public road and all school-related traffic as required by the phasing and construction of the Works. The Contractor shall pay particular care to avoid delay especially to neighbours and to users of the public road, including, where necessary, scheduling of deliveries to site outside of peak traffic periods and school pick-up and drop-off times, routing of site-related vehicles to avoid residential areas and existing schools, and, liaising with neighbours, other construction sites in the area, Local Authority Traffic and Roads Departments and local Gardai. All of the above provisions, and all others considered necessary for the safe execution of the Works, shall be outlined in a Construction Traffic Management Plan, which shall be made available to the ER prior to commencement on Site, and, be revised and maintained as required during the course of the Works.	1	Item			
E	Allow for all costs associated with providing temporary access to the existing school building by the Emergency Services, School staff and Pupils etc. and others whom require access to the school; provide necessary safe routes for both pedestrian and vehicular traffic; include for all necessary adjustment and maintenance of these routes to ensure the safety of all; include all making good work to areas disturbed	1	Item			

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<u>2. CONTRACT (Cont)</u>						
A	The proposed construction access to the site for the construction of this new school accommodation is from the L3412 Summerhill Road as per Architect's Drawing Nos. TD-0131 - 0134 'Site Plan Phase 1 - 4'. The contractor shall erect a suitable secure solid hoarding min. 2.4M high to separate the construction site (during all phases, as per Architects Drawing Nos. TD-0131 - 0134) from the existing school (and all live environments) which will remain in operation for the full duration of the proposed works. The existing vehicular and pedestrian access to the live school environment shall be maintained for the use of the school for the duration of the new school building construction. The timing, sequencing and duration of the works required to be executed on site will need to be carefully considered by the contractor and submitted to the Employers representative for consideration by the school management in advance.	1	Item			
B	The contractor will be required to obtain any relevant consent for temporary access and any associated footpath adjustments for the local authority from the local authority. The contractor shall erect a suitable secure solid hoarding at a minimum of 2.4 metres to separate the construction site from the public footpath on L3412 Summerhill.	1	Item			
C	Access to the Contractor's Construction Compound area for each phase of the works is as noted on the Architect's Phasing Drawings. During each phase of the works the Contractor shall construct hoarding (2.4m high timber hoarding) to clearly define the construction compound and maintain safe access for the pupils and staff in the areas occupied by the school. The hoarding is to be realigned for each phase in accordance with the Architect's Phasing Drawings. Construction Access will be separated from the School Access during all Phases.	1	Item			
D	School and construction traffic are to be separate at all stages of construction. Construction Traffic shall not park in the vicinity of the existing school buildings, or along the approaches to the school along L3412 Summerhill. It is the responsibility of the Contractor to inform all subcontractors and suppliers of this restriction. This should be fully coordinated with the school before works commence.	1	Item			
E	All deliveries shall be outside of peak dropping off and collection times for pupils.	1	Item			
F	The existing school emergency exits and entrances shall be maintained throughout the construction period.	1	Item			
Construction Access Restrictions						
G	Construction Access is shown on the Architects Drawings and is to be described in the Contractor's method statement for Traffic Management of the Works. The area is to be maintained in a clean, safe, condition in full compliance with all applicable Health & Safety Regulations. The area is also to be secured against entrance by unauthorised persons including members of the public, adjoining residents, pupils, school staff etc.	1	Item			
H	The Contractor is required to provide a secure, control gate access point to the site for all Phases of the Works.	1	Item			

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<u>2. CONTRACT (Cont)</u>						
Access for Employer Representative to Site and Workshops						
A	The Employer Representative and any person authorised by him shall at all times have access to the Works and to the Site and to all Workshops and places where work is being prepared or where materials, manufactured articles and machinery are being obtained for the Works and the Contractor shall afford every facility for and every assistance in or on obtaining the right to such access.	1	Item			
<u>b) Limitations of working space</u>						
B	Provide for complying with the limitations of the Site area and working space.	1	Item			
C	Parking for the contractor's and employee's vehicles must be entirely within the site boundaries. Construction Traffic shall not park in the vicinity of the existing school buildings, or along the approaches to the school on the L3412 Summerhill Road.	1	Item			
D	Under no circumstances are construction vehicles, plant or machinery to access or be parked in the existing school parking spaces or to obstruct the main entrance gate, set down and turning areas to the front of the school.	1	Item			
E	The Contractor must note that the works is to be carried out in / adjacent to a 'live school' and the existing schools' daily activities will have to continue, along side the construction works, on an uninterrupted basis. The Contractor should undertake adequate research and visit the site to ensure he is fully aware of the existing routines of the school and its patrons at present. The Contractor must provide herein for all costs associated with ensuring the uninterrupted continued use of the school. No claims on the grounds of want of knowledge in this respect will be entertained whatsoever.	1	Item			
F	The majority of the works are to proceed during the academic year within a live school environment. The Contractor must note that a teaching / pupil presence will exist within the school at all times. The Contractor will be responsible for their control and safety both on the construction site and all boundaries and interfaces with the school and its activities. The Contractor shall respond and deal immediately with any reasonable safety issue that may be raised by the school during the building works. If the school raises any concern about safety, the Contractor's site manager shall respond promptly and address the issue satisfactorily within a reasonable time frame and take whatever measures are necessary to ensure such an issue does not occur again. A programme / sequence of works shall be agreed in coordination with the Employer's Representative and Carrick on Shannon Community School.	1	Item			
G	The Contractor must confine his operation within the immediate area covered by the works and such other area as may be indicated on drawings and will make good at his own expense any damage to buildings, grounds, roads or shrubbery occasioned through negligence or non observance of this clause.	1	Item			
H	Only these areas are to be used for contractor facilities, storage of materials etc., necessary for the works and skips for waste/rubble removal etc and must also be used by all subcontractors.	1	Item			
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<u>2. CONTRACT (Cont)</u>						
A	Where work is described as being beyond the boundary of the Site or in a Public Highway, the Contractor's prices shall be deemed to include for the following as required; adequate watching and lighting traffic signalling, temporary barricades, walking platforms and warning notices sufficient to ensure the safety of all persons and removing on completion, giving notice to the Local Authority, paying their fees and charges and carrying out the work to their satisfaction. The Contractor's prices shall also include for maintaining in working order all services, conduits, telephones cables, etc and for making good any damage done thereto, by reason of these Works, to the satisfaction of the Authority concerned.	1	Item			
B	Where work is described as being beyond the boundary of the Site or in a Public Highway, the Contractor's prices shall be deemed to include for all NRA obligations and requirements	1	Item			
C	The Contractor's attention is drawn to the restrictive nature of this site. He is referred to 'Works Requirements' and Architect's Drawings in this regard.	1	Item			
<u>c) Limitations of working hours.</u>						
The limitations on working hours will apply:						
D	The hours of operation on site shall be restricted to 8am to 6pm Monday to Friday, and 8am to 1pm on Saturdays. No works on Sundays, Bank Holidays or Public Holidays.	1	Item			
E	Cognisance should be taken of the requirement of BS 5228 Part 1 1997 (Noise & Vibration Control on Construction & Open Sites)	1	Item			
F	If there is any occasion when works must be carried on outside daytime hours, the Environmental Health Officer, local residents, and businesses in areas which are likely to be affected by noise from the proposed works shall be notified in advance, e.g. by letter or leaflet or in advertisement form.	1	Item			
G	The Main Contractor should liaise with the Local Authority and local residents to avoid future noise and traffic issues	1	Item			
H	The contractor shall liaise with the school and agree reasonable time restrictions for any half days, proposed holidays etc.	1	Item			
J	All deliveries shall be outside of peak dropping off and collection times for pupils.	1	Item			
K	The Contractor should note the close proximity of the new extension building to the existing school building. Works during exams will not be permitted under any circumstances. The Contractor should allow for state exam stoppages during the construction period and will be required to vacate the site during theses stoppages for the Leaving Cert and Junior Cert Exam Period in the month of June (2027, 2028, 2029). The contractor is to include all costs herein associated with the cessation of the works for these periods. No claims on the grounds of want of knowledge will be entertained whatsoever.	1	Item			
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<u>2. CONTRACT (Cont)</u>					
The Contractor should note they are operating on the site of an occupied school. Contractor to allow for consulting the convenience of anybody who may be affected by the Works with regard to suitable times for carrying out works, making deliveries, etc. and include all necessary costs associated in complying with this requirement. Unless by prior arrangement with the school there shall be no contractor personnel or vehicles entering the school site from the existing main vehicular access to the school between the hours of 8.15am to 9.15am and 3.20pm to 4.20pm Monday to Friday.	1	Item			
Further Time Constraints: Comply with any time constraints as set out in any relevant planning permissions; Comply with any school by school time constraints; Comply with any restrictions stated in, arising out of or implied because of the Sectional Completions	1	Item			
Contract Stated Time Constraints; The time constraints in this section come within clause 7.11 of the contract	1	Item			
The Contractor shall herewith allow for any costs involved in complying with the limitations noted under convenience of neighbours and occupants	1	Item			
The contractor should allow for all costs involved in maintaining public relations with adjoining property owners, especially in relation to working hours, deliveries, noise levels and interruptions.	1	Item			
Provide for liaising with the Employer's Representative to arrange suitable times for carrying out work.	1	Item			
Subject to any provision to the contrary contained in the Contract none of the permanent work should be carried out during the night or Sundays without the permission of the Employer's Representative except when the work is unavoidable or absolutely necessary for the saving of life or property or for the safety of the Works in which case the Contractor shall immediately advise the Employer's Representative.	1	Item			
Any overtime working shall be in strict compliance with statutory requirements and any arrangements for such working shall require the Employer's Representative's prior agreement in writing.	1	Item			
<u>d) Limitations on use operation of plant with respect to adjoining property</u>					
The Contractor shall consult the convenience of anybody who may be affected by the work with regard to the approaches to be used, suitable times for making deliveries and all other matters affecting them.	1	Item			
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<u>2. CONTRACT (Cont)</u>						
<u>e) The use or disposal of any material found on the site.</u>						
A	No sand, ballast, gravel, coal or other useful material shall be removed from the Site, nor become the property of the Contractor, nor be used in the Works except on the express instructions of the Employer's Representative, in which case the quantity used, if any shall be measured and valued by the Quantity Surveyor and such value deducted from the Contract Sum.	1	Item			
B	Disposal of Toxic Items; Allow for the following in the event of encountering toxic matter on site: i. Specific safety plan for removal of asbestos ii. Prepare and keeping of occupational health register and workers' health assessment / surveillance iii. Specialist PPE / PPC iv. Separate cleaning / showering facilities, storage for clothes.	1	Item			
C	Pollution; Do not deposit deleterious material into surface water channels or lakes. Comply with the requirements of the Rivers Pollution Protection Act, the Public Health (Ireland) Acts, and the Fisheries Acts.	1	Item			
D	The Contractor shall not deposit deleterious material in drains: The Contractor shall comply with statutory requirements in respect of disposal of waste. The contractor shall implement an agreed waste management policy and keep records of the disposal of all waste material from the site.	1	Item			
<u>f) Hoardings, fences, screens, temporary roofs, temporary name boards and advertising rights.</u>						
Construction Phasing Drawings have been included in the Volume A - Works Requirements (Architect's Drawing Nos. TD-0131 - 0134 'Site Plan Phase 1 - 4'). These drawings indicate among others:						
E	- site hoarding lines	1	Item			
F	- site boundary lines	1	Item			
G	- site access	1	Item			
H	- construction compound area					
J	It is a requirement that all protective measures necessary are provided by the contractor to ensure the safe construction of the works. Responsibility for the construction of the works in compliance with the Safety, Health and Welfare at Work (Construction) Regulations 2013 rests with the contractor.	1	Item			
K	The Contractor shall be deemed to have included in their tender for the protection of the site boundaries with the existing school, surrounding roads and the completed works. Prior to appointment the contractor shall provide a detailed construction management plan and before any works commence so as to ensure safe access is maintained at all times for pedestrians and vehicles in the vicinity.	1	Item			

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<u>2. CONTRACT (Cont)</u>						
A	Provide for all costs associated with the provisions of temporary solid hoarding (2.4m high) to the perimeter of the area of the works and of the site consisting of good quality exterior grade plywood sheeting not less than 19mm thick fixed to timber carcassing. The Contractor is referred to the Works Requirements and in Particular the Phasing Drawings.	1	Item			
B	Hoardings at a minimum; Provide secure well marked temporary fencing, hoardings, planked footways, guard rails, as may be necessary to delineate the limits of the building site within the college area, to protect college personnel, members of the public and others, for the proper execution of the Works and to prevent unauthorised entry to or trespass beyond the boundaries of the site. The hoardings shall meet the requirements of the Local Authority. The Contractor is required to submit their hoarding design, design risk assessment, and HSA Temporary Works Design Certificate to the Employer's Representative, and PSDP, for approval prior to commencing construction works on site. NOTE: Harris fencing is not sufficient and not permitted.	1	Item			
C	Ensure that secure segregation between areas occupied by the Contractor and areas occupied by the schools / public is maintained at all times. Hoardings shall be moved and adapted as necessary.	1	Item			
D	Ensure that the site is fully secure and that the public cannot encroach on areas occupied by the Contractor	1	Item			
E	Contractor to provide site signage indicating construction access / deliveries, access/ egress points and general public safety signage.	1	Item			
F	Directional Signage; Provide and erect temporary directional signage to identify the site and its access route.	1	Item			
G	Advertisements shall not be displayed on the site without the consent of the Employer's Representative.	1	Item			
H	Provide Project Display Board incorporating Employer, Contractor, Consultants panels and a 3D image of the completed project to be erected in the vicinity of the Site. The sign should be large enough to include the panels etc. noted and should be constructed of materials and erected to last for the duration of the Works. Boards are to be mounted on galvanised steel posts with concrete foundations including suitable steel bracing. Boards are to be located in positions to be agreed with the Employers Representative.	1	Item			
J	The location for the project display board is to be agreed with the Employer's Representative prior to installation and the sign must remain in position for the entire duration of the project and for the required period thereafter	1	Item			
K	Provide temporary fencing, hoardings, fans planked footways, guard rails, as may be necessary to protect the public and others, for the proper execution of the works and to prevent unauthorised entry to or trespass beyond the boundaries of the site. The scaffolding and hoardings shall meet the requirements of the Local Authority. Alter, shift and adapt as necessary, remove bills, notices etc from faces of hoardings.	1	Item			

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<u>2. CONTRACT (Cont)</u>						
g) The maintenance and protection of existing services on, under or over the site.						
A	All services and utilities serving the school are to be maintained at all times. The Contractor shall ensure that all Works are planned to allow for this requirement. Any disruption to school services and utilities should be the minimum disruption required to make tie-ins in a safe manner. The existing school security, fire safety alarms and electrical systems must be maintained at all times save for agreed (with the Employers Representative and School) programmed limited periods to allow tie-ins between 8am and 4pm Monday to Friday excluding public holidays.	1	Item			
B	The Contractor will be responsible for all costs associated with alterations to or additional provision of any utilities made necessary as a result of the Works and will assume all risk (including costs and any other financial consequence, whether incurred by the Contractor, the Authority or any existing school) in relation to any interruption in, failure of supply to or availability of services to the existing school arising as a result of any act or omission of the Contractor or the Contractors Personnel, including in relation to complying with its obligations under this Section.	1	Item			
C	Provide for maintaining the flow in all/any existing drain runs at all times.	1	Item			
D	Provide for protecting and maintaining all services under or over the site.	1	Item			
E	Provide for all costs involved in locating, protecting and work around existing services during the Works. Assume all excavations in this regard will be carried out by hand.	1	Item			
F	The Contractor should undertake adequate research and visit the site to ensure he is fully aware of all existing services present. The Contractor must provide for maintaining these services if necessary. No claims on the grounds of want of knowledge in this respect will be entertained whatsoever.	1	Item			
G	The contractor is fully responsible for the management and disposal of all surface water and foul water from the construction site for the full duration of the works. The contractor shall note the Local Authority may not provide a temporary connection to the public system. The contractor shall allow for and provide measures necessary to deal with this restriction if it arises, including temporary tanks etc.	1	Item			
Public and Private Services						
H	Notify all service authorities of the proposed works before commencing site operations. So far as reasonable, ascertain location of services or confirm that none exist in the vicinity of the works. Protect, uphold and maintain all services. Do not interfere with their operation without consent of the service authorities or private owners, or the Employer's Representative as appropriate.	1	Item			

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<u>2. CONTRACT (Cont)</u>						
A	Ensure that any work that may involve a risk to disruption to existing live services in the neighbourhood is agreed in advance with the local authority / neighbours. All such work shall, in any event, be pre-planned and agreed with the neighbours. Method Statements must be prepared, issued and agreed in advance of all work on or near live services.	1	Item			
Existing Pipelines and Utility Services						
B	Where the works involve the construction of connections and modifications to existing pipelines and utility services, maintain the flows in existing pipes, sewers and water courses disturbed in the course of construction of the Works, and shall provide all temporary works and pumping necessary to do so and where such works are outside of the site boundary the Contractor shall consult with the drainage department of the local authority and submit schedules and methods of his work for its approval prior to the execution of these works including connections.	1	Item			
C	It may be necessary to raise and relay some existing services during the course of the construction Works. The Contractor shall, in this event, conduct his operations in such a manner that the minimum disruption possible is caused to the normal working of these services. The Contractor shall consult the responsible Local Authority and submit schedules and methods of operation for approval prior to the execution of all such work.	1	Item			
D	The Contractor is responsible for all additional costs involved in the execution of this work and in providing temporary diversions, over pumping and other such means to maintain the required levels of service during the construction of the Works.	1	Item			
E	It may be necessary to raise and relay some existing cables, ducts, chambers and similar belonging to the E.S.B., Eircom, Board Gais or other utility providers or any existing Site power and control cables etc. in the path or adjacent to the line of the proposed construction Works. The Contractor shall consult the responsible utility provider prior to the commencement of excavations for pipe laying or similar operations and submit schedules and methods of operation for approval.	1	Item			
F	The Contractor shall be responsible for dealing with all aspects of work affected by water arising from all natural sources and causes as well as due to leakages from water or sewer mains adjacent to excavations of temporary and permanent Works.	1	Item			
Services on and over the site						
G	The Contractor shall allow for all costs in connection with maintaining existing services during the works. The Contractor is referred to the Site Services layouts for locations of the various services infrastructure ducting/pipe runs and shall take all measures necessary to ensure that existing services remain uninterrupted, save for where connection or alteration works are required in which case the works shall be carried out with the minimum disruption possible.	1	Item			

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<u>2. CONTRACT (Cont)</u>						
Planned Services Interruptions						
The following measures are to be taken by the Contractor for planned services interruptions:						
A	1) The works are to be designed and method statements prepared by PSCS and issued to PSDP & Services Consultants for approval.	1	Item			
B	2) Risk Assessments and contingency plans to be issued and approved by the PSCS & PSDP.	1	Item			
C	3) Dates for carrying out the works to be agreed in advance.	1	Item			
D	4) Notification and regular written reminders to be issued to the Employers Representative in advance for the works being carried out.	1	Item			
Existing Site Services - Survey						
E	The Contractor shall, as any record drawings of existing services are provided for guidance only and must be verified by the Contractor on site by whatever investigation means as is appropriate, be deemed to have allowed for all such investigation and possible delays in commencement of his excavation and other allied works in his work programme and consequential costs for such Works in his tender.	1	Item			
Damage To Roads						
F	The Contractor shall be responsible for all damage to existing roads (private and/or public roads) caused by his own or Sub Contractor's or Suppliers' transport to and from the site. The approaches to the site shall be kept clear of mud and debris.	1	Item			
G	The Contractor shall be responsible for the maintaining and/or replacing of the existing bitmac access roads, carparking areas, footpaths and kerbs during the Contract and make good any damage caused by site traffic or site operations. The roads and carpark shall be kept free of mud and debris.	1	Item			
H	A full condition survey of the existing school access roads shall be undertaken prior to commencement and issued to the ER for record. The Contractor is responsible for maintaining the surface of these roads throughout the construction period. This will include road surface repairs to potholes that develop whilst construction traffic use the shared access roads. These roads should be handed over in the same condition as before the commencement of the project.	1	Item			
J	The Contractor shall include for a photographic survey of the condition of the adjoining footpaths and roadways prior to starting onsite to negate later arguments with Leitrim County Council.	1	Item			

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<u>2. CONTRACT (Cont)</u>						
h) The execution or completion of the work in any specific order or in sections or phases, including any coincidental work not at the discretion of the contractor.						
A	It is intended to construct the project in four main phases/ sections (Section 1, Section 2, Section 3 & Section 4), thus ensuring that the new build school extension and external works are delivered in a sequential manner in order to allow the existing school to operate as normal including providing adequate access to the site for parking and drop off (Refer to Volume A Works Requirements for details). Also, please see Architect's Drawing Nos. TD-0131 - 0134 'Site Plan Phase 1 - 4'. The Phases are detailed as follows: Section 1 - Diversion of services, provision of new LPG compound and connection to existing building, widening rear access road and construct new temporary fire escape from stairwell in existing school building all as detailed on Architect's Drawing Nr TD-0131 'Site Plan Phase 1' and Volume A Works Requirements	1	Item			
B	Carry out alterations within existing building. Construct new temporary fire escape from Stairwell (See Temporary Fire Escape below). Alterations to be co-ordinated with the school to ensure safe access and escape is maintained for students.	1	Item			
C	Services to be diverted around footprint of building and kept live. Watermain to be cut back and looped with relocated hydrant installed with school coverage maintained and live for fire services.	1	Item			
D	Cut back existing trees to make way for new gas compound and turning head.	1	Item			
E	Construction of new gas compound.	1	Item			
F	Dig trench and install LPG pipework to connect to existing school.	1	Item			
G	Remove existing gas tank, and associated pipework.	1	Item			
H	Demolish existing container.	1	Item			
J	Resurfacing existing ground area and turning into larger grass area.	1	Item			
K	Widen existing access road and gate to rear of site. Section 2 - Constuction of new temporary construction access to rear of site, and construction of new extension and stairwell all as detailed on Architect's Drawing Nr TD-0132 'Site Plan Phase 2' and Volume A Works Requirements	1	Item			
L	Construct Temporary Construction Road and widen main entrance to allow for separation of construction traffic to the site.	1	Item			
M	School hoarding to be constructed separating the students circulation from the construction site.	1	Item			
N	Removal of fixtures/fittings within existing car park and ball courts.	1	Item			
P	Demolition of shed and part of the existing school car park (as shown).	1	Item			
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<u>2. CONTRACT (Cont)</u>						
A	Construct new school extension including new stairwell.	1	Item			
B	New surface water drainage to be redirected until the new attenuation tank is installed (Refer to Civils for further information)	1	Item			
Section 3 - Removal/ Demolition of existing prefabs and construction of new ballcourt all as detailed on Architect's Drawing Nr TD-0133 'Site Plan Phase 3' and Volume A Works Requirements						
C	Decant students into new extension.	1	Item			
D	Remove/ Demolish existing prefabs.	1	Item			
E	Construct new hammer head.	1	Item			
F	Place skip into its allocated space.	1	Item			
G	Construct new ball court.	1	Item			
Section 4 - Reconfiguration of existing site entrance and construction of new carpark, paths and landscaping to the front of the site all as detailed on Architect's Drawing Nr TD-0134 'Site Plan Phase 4' and Volume A Works Requirements						
H	Remove and move part of temporary road to allow for exit from the southern fire exit from the new extension.	1	Item			
J	Demolish part of old car park	1	Item			
K	Existing site entrance to be partially demolished, widened and constructed.	1	Item			
L	New car park footpaths and landscaping is constructed in this final phase.	1	Item			
<u>Services Connections/ Diversions</u>						
M	The works include the connection of new services, through the existing building/ site to the new boiler house and main electrical board - both temporary and permanent connections. This work is described in detail in the services drawings and specifications in Volume A Works Requirements. The contractor shall note that access through the existing school is not available during school term time and during normal school hours. The contractor shall programme all works within the existing school including connections and commissioning to take place during school holiday periods only.	1	Item			
N	The Contractor shall liaise with the existing school to ensure all existing services are maintained at all times, in particular where final connections to the diversion of existing services need to be completed. Final Connections shall take place outside of normal school hours, to avoid the loss of service to the school. The Contractor shall include this restriction within their contract programme and tender.	1	Item			
P	All site utilities are to be maintained by the Contractor for the duration the works and until the new extension has been handed over.	1	Item			
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<u>2. CONTRACT (Cont)</u>						
A	The Tenderer shall note the phasing requirements of the project and shall ensure that their tender amount includes for all costs associated with same (See Works Requirements)	1	Item			
B	It is envisaged that in broad terms, the works will be constructed in a number of sections as outlined on the Architect's drawings and within the Work Requirements. The Contractor must identify his methodology, in accordance with the WR, and agree same with the ER prior to commencement	1	Item			
C	The Contractor must allow for costs necessary and associated with dealing with the phasing of the works. If so required, the Contractor can contact the ER at tender stage in order to clarify any queries regarding phasing as no claims on the grounds of want of knowledge will be entertained whatsoever.	1	Item			
D	Where the Contractor is required to carry out work outside of the designated site area (e.g. within the existing neighbouring building, elsewhere on the school grounds, on the public road) the Contractor shall liaise with the relevant occupier to agree scope, extent & timing and shall submit area by area proposals in sufficient time, prior to the intended works, to the ER for the ER to review, comment, request changes and or accept.	1	Item			
E	Notwithstanding any ER agreement as to these time-to-time Contractor's proposals, the Contractor shall be wholly and solely responsible for the micro management of the elements of the Works as regards all aspects of the contract including, but not limited to, Health & Safety of public, pupils, staff and workers, while also maintaining public and or school access as necessary at all times. The Contractor should not expect to obtain vacant occupancy of these areas at any or all times.	1	Item			
F	Tenderers to allow for complying with all requirements as set out in Volume A Works Requirements concerning the Sequencing of Works:	1	Item			
G	- Temporary construction access roads	1	Item			
H	- Sequencing requirements	1	Item			
J	- Hoarding to be provided	1	Item			
K	- Existing Services/ utilities	1	Item			
<u>i) Maintenance of specific temperature and humidity levels.</u>						
L	Provide all necessary temporary equipment, fuel and attendance for drying and controlling the humidity of the works to the complete satisfaction of the Employer's Representative and in sufficient time to ensure that completion of his own sub-contractors work is not delayed by failure to do so. Where the permission of the Employer's Representative is given to use the permanent heating system for drying and obtaining the necessary temperature and humidity levels, the Contractor shall allow for all costs related to this item including fuel and extending of warranties.	1	Item			
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<u>2. CONTRACT (Cont)</u>						
<u>j) Temporary accommodation and facilities for the use of the Employer including heating, lighting, furnishing and attendance.</u>						
A	Provide temporary offices for the use of the Employer's Site Representative/ Clerk of Works (the Employer reserves the right to appoint Clerks of Works on this project) and any other person acting on behalf of the Employer; the office shall be for at least 2 nr persons (office space) and be complete with ventilation, heating, power, lighting, broadband, telephone/ fax provision, 2No. desks with lock up drawers, 2No. operator chairs, 2No. filing cabinets, drawing rack, together with small meeting table and chairs. The office shall have a boarded floor, a cylinder latch on the door. The Clerk of Works shall be provided with a laptop computer, telephone, fax machine, A3 colour printer/ scanner, digital camera with 16GB memory card and thermometer (Camera and laptop to be handed over to the Client on completion i.e. will become the property of the client). Laptop computer to be to latest specification by recognised manufacturer, minimum 14inch screen, provide for Windows 10 operating system complete with Microsoft Office and the latest version of Autocad for the duration of the project. On completion the office shall be removed and the site made good. The Contractor must note that this office must be provided within one week of commencing on site.	1	Item			
B	Provide a temporary Meeting room for the use of the Employer, Employers Representative and the Design Team and any other person acting on behalf of the Employer; the meeting room shall be for at least 15 nr persons and shall be complete with heating, power, lighting, meeting table for (for 15 nr persons). The office shall have a boarded floor, a cylinder latch on the door. On completion the meeting room shall be removed and the site made good. The Contractor must note that this facility must be provided within one week of commencing on site. No payments will be made whatsoever until these facilities are in place.	1	Item			
C	The Contractor shall include a cost herein for providing within the temporary meeting room a full video conferencing platform to allow design team members to join site meetings remotely by Microsoft Teams, Zoom or similar. This should include wall mounted TV/ Monitor complete with camera, audio and speakers that can be linked to a laptop/ PC to facilitate such meetings. No claims on the grounds of want of knowledge will be entertained whatsoever.	1	Item			
D	Provide separate lockable toilet facilities.	1	Item			
<u>k) Provision of connections to temporary voice and data communications systems for use of the Employer.</u>						
E	Provide all necessary temporary voice and data communications systems for use of the Employer and pay all fees and charges in connection therewith.	1	Item			
F	Provide for the installation of a data line or "wired" broad band connection for the ER's site office, band width to meet what would be reasonably expected for a commercial office.	1	Item			
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<u>2. CONTRACT (Cont)</u>						
A	Provide for 1No. laptop (to latest specification) with full email facility for the Clerk of Works	1	Item			
B	Provide for commercial office standard ink jet printer/ scanner for ER site office (A3 size)	1	Item			
C	The Contractor shall also provide 2 x office desks, 2 x chairs, 2 x filing cabinets and 1 x drawing rack for the ER's site office	1	Item			
<u>l) Periodic using and access charges on voice and data communications systems for use of the Employer and associated running costs.</u>						
D	Pay all fees, charges and associated running costs for voice and data communication systems provided for the Employer's use, including telephones, mobile communications, internet access, broadband/Wi-Fi and other associated communication services.	1	Item			
<u>m) Provision of the Project Supervisor Construction Stage services by the Contractor under the Safety, Health and Welfare at Works (Construction) Regulations.</u>						
E	Prior to acceptance of the tenderer a ' Letter of Intent' will be issued by the Contracting Authority requesting the tenderer to comply with the following requirements:	1	Item			
F	(a) Execution of the Collateral Agreement (for the services of the Project Supervisor Construction Stage) Model Form 10 (See Volume A Works Requirements) which must be returned by return of post and	1	Item			
G	(b) The drawing up by the tenderer of a detailed safety plan as required under the Regulations	1	Item			
H	Compliance with these requirements will be necessary prior to issue of Letter of Acceptance	1	Item			
The Main Contractor shall employ the following personnel, who should be the person proposed in the QW2 or meet at least the same standard as that to the person proposed. Any proposed change to personnel should be notified to the ER and PSDP and copies of the relevant CVs issued:						
J	A competent Temporary Works Designer, who must take overall responsibility for the stability of the structure, including permanent and temporary works during the entire construction phase. The Temporary Works designer shall also take overall responsibility for the design of the demolition of any existing works, including all supports to partially demolished structures. This designer must be competent in temporary works design, and will be required to demonstrate that he/she has safely provided for the complex forces involved in temporary works/ permanent works interaction at the various stages of construction.	1	Item			
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<u>2. CONTRACT (Cont)</u>						
A	A suitably qualified site engineer who must assist the Temporary Works Designer in relation to site implementation issues highlighted above and who must liaise with the designer, the PSDP and the PSCS.	1	Item			
B	A competent temporary electrical services designer and temporary mechanical services designer who must take overall design responsibility for the safety of the electrical services installation and mechanical services installation during the entire construction phase. These will be required to liaise with the electrical services designer and the mechanical services designer, contractor, PSDP and PSCS. M+E Co-ordinator is required to be on site 100% of the time.	1	Item			
C	Subject to the Contractor satisfying the Employer as to having the resources and skills necessary to perform the duties of the Project Supervisor for the Construction Stage under the Regulation the Employer may appoint the Contractor to fulfil this function under the terms of a Collateral Agreement in the form of Model Form 10 (See Works Requirements) to be entered into between the parties.	1	Item			
D	Provide all costs in connection with the provision of the services of a Project Supervisor for the Construction Stage for the duration of the Contract.	1	Item			
E	The Contractor shall include for a competent person to act as and carry out duties of Project Supervisor as set out in the Safety, Health and Welfare at Work (Construction) Regulations, 2013 and should particularly note the following:	1	Item			
F	(i) Following appointment as PSCS, develop the Safety & Health Plan, including updating it with new/revised design information passed on by the PSDP. Following this the Contractor's designers' information will be coordinated with all of the other designers' information and any new information will be passed onto the PSCS for inclusion in the Safety and Health Plan.	1	Item			
G	(ii) The PSCS shall be obliged to advise the PSDP, as soon as is practical, of any changes arising from unforeseen conditions or eventualities which may affect design. This must be done in order to permit the PSDP to pass this information to all designers so that they can coordinate their designs and include the changes in their designs.	1	Item			
H	(iii) The PSCS shall ensure that all personnel on site have appropriate training, Safe Pass and CSCS where necessary, and that records of same, including copies of certificates/cards, shall be kept on a readily accessible file for inspection. Copies of the same shall be provided to designated Representatives of the Local Authority.	1	Item			
J	The Contractor shall include for developing before the commencement of the construction work, the Safety and Health Plan for the construction site already prepared on a preliminary basis.	1	Item			
K	The Contractor shall include for the Project Supervisor for the Construction Stage giving notice to the National Authority for Occupational Safety and Health prior to commencement of work on site in accordance with the First Schedule of the Safety, Health & Welfare at Work (Construction) Regulations 2013.	1	Item			
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<u>2. CONTRACT (Cont)</u>						
A	The Contractor shall procure the insurance cover required to be obtained and maintained by the Contractor pursuant to the provisions of the Main Contract shall provide indemnity in respect of any claim for bodily injury or property damage which the Contractor may incur by reason of the performance of the function and duties of the Project Supervisor for the Construction Stage for the Project.	1	Item			
B	The Contractor shall enter into a Collateral Agreement (Model Form 10) with the Employer for the Contractor's appointment as Project Supervisor for the Construction Stage. Provide for any costs arising hereunder not provided for elsewhere herein.	1	Item			
C	Further information about safety requirements may be obtained from the National Authority for Occupational Safety and Health.	1	Item			
Safety Statement						
D	The Contractor shall provide a certificate to confirm that under the terms of the 2013 Safety, Health and Welfare at Work (Construction) Regulations the contracting firm is in possession of a written Safety Statement and that all employed and any other persons in the workplace who may be affected by risks to safety will be made aware of the contents of the Safety Statement and have access to it.	1	Item			
SAFETY FILE						
E	The Contractor shall co-operate with the PSDP in the preparation of the Safety File and shall provide all relevant documentation in his possession, including all technical manuals and materials safety sheets. The Employer will be unable to take possession of the Works ('Substantial Completion' stage) unless he has received the information and documentation required to allow the Employer comply with his duties in respect of the safe operation of the premises under relevant statutory provisions.	1	Item			
F	All Safety file information must be completed and forwarded to the Project Supervisor Design Process (PSDP) at or before Substantial Completion.	1	Item			
Digital Project Safety File (DPSF) Coordinator - Role & Responsibility						
G	The DPSF and all its specified elements and requirements are to be collated and managed by a specialist DPSF Coordinator and are to be reviewed for any amendments/additions with the client, Project Supervisor Design Process (PSDP) and the Project Supervisor Construction Stage (PSCS) prior to handover and installation to the client.	1	Item			
H	The DPSF Coordinator shall provide a full professional technical service/ solution which will produce a comprehensive and project specific CLIENT Digital Project Safety File.	1	Item			

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<u>2. CONTRACT (Cont)</u>						
Digital Project Safety File Software Application						
The DPSF is to be delivered in a proven software application format. Further, the DPSF shall be formatted to allow subsequent updating of information. The DPSF shall also incorporate detailed asset registers / digital images of all Building Fabric components & Building Services components. Furthermore the software shall allow secure (password protected) comprehensive control and tracking of the Handover Documentation to enable viewing / printing / access / editing / searching / updating and administration of the file. The DPSF is to have relevant metadata assigned to all construction handover documentation on the project and to structure all documents into a multi-level hierarchy for the project. The DPSF will have documents grouped, categorized or classified within the project based on a CLIENT standard approach, Documents are grouped by projects and by section and sub-sections as per the index or table of contents agreed for the project - by CLIENT, the DPSF system is to cater for over 20 concurrent users.					1	Item
The software system/application shall provide for the potential future migration of data to a more advanced enterprise software application which is capable of providing remote internet/intranet access and acting as a platform technology for compliance with current and future regulations, the data format and structure shall comply with best practices and standards.					1	Item
Draft Reviews and Handover / Install of Digital Project Safety File:						
Complete draft of the DPSF must be submitted to the Contracting Authority 2 weeks before the final date for Practical Completion. The draft DPSF must be reviewed by the PSCS & PSDP and amended in light of any comments before a final revision is submitted to the CLIENT. The DPSF Coordinator will not proceed with production of the final copies of the File until authorised to do so by the PSDP. The scheduled handover programme shall be as follows:					1	Item
1. A Draft DPSF will be presented to the PSDP and PSCS for review and comment at least 2 weeks before the final date for Practical Completion. This draft will include the latest list of any outstanding items so that these items can be agreed, documented, closed out and included.					1	Item
2. A Final Draft DPSF will be delivered to the PSDP and the CLIENT for final review and sign off before a final revision of the DPSF is submitted to the CLIENT.					1	Item
3. A Final REVISION DPSF signed off will be handed over and installed on the CLIENT network by the DPSF Coordinator					1	Item
IMPORTANT NOTE: It should be pointed out that the DPSF must be handed over to the ER at the handover of the building, i.e. on the day of Substantial Completion (SC). If any items are outstanding on the day of SC, they must be clearly itemised and listed along with a date when these items will be provided, these issues will be classified as defects. This DPSF Defects List must be provided in writing to the relevant Design Team members (PSDP) & the Employer before PC, for the ER's approval. If this list of defects is not approved by the ER then the Employer reserves the right to instruct the Design Team in relation to signing off SC.					1	Item
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<u>2. CONTRACT (Cont)</u>						
A	The Project Supervisor Construction Stage shall supply all necessary safety file information to the PSDP which shall include the following items (list not exhaustive):	1	Item			
B	The Project Supervisor Construction Stage in co-operation with the Main Contractor shall ensure that the Safety File to be produced at the end of the project shall incorporate all issues identified in the Main Contractor's Method and Safety statement.	1	Item			
C	The Project Supervisor Construction Stage shall identify relevant information to be issued by the Project Supervisor Design Process and issue a request in time. This will allow the Project Supervisor Design Process to instruct the Design Team and Client to issue the necessary information to be included in the File	1	Item			
D	The Project Supervisor Construction Stage shall standardise the format for each Sub-contractor's information for the Safety file with the Client for ease of access of information and standard of information to be submitted by all Subcontractors.	1	Item			
E	The safety file shall be merged with all pre-existing safety file data and where drawings, certification or data is superseded, it shall be removed from the file to ensure an accurate representation of the whole building	1	Item			
F	Contractor to provide one full hardcopy sets of the safety files, and two full electronic copies to be uploaded to the CLIENTS online digital safety file system. The DSF software platform must be approved by the CLIENT & PSDP and shall be capable of the following in relation to Presentation & Format;	1	Item			
G	To be presented in a clear and easy to follow format and should provide a complete understanding of the works, its intended performance & systems and enable it to be operated & maintained efficiently and safely.	1	Item			
H	The Digital Safety File should be a web based application capable of being hosted either online (available 24hrs a day, 365 days of the year) or on the client's internal IT network with no loss of functionality.	1	Item			
J	Documentation should be held primarily in PDF format with all drawings also included as CAD files for future use	1	Item			
K	The system will be capable of holding operation and maintenance documentation for a number of individual sites for the same client.	1	Item			
L	The file should be capable of being expanded to cater for existing projects and possible future expansion.	1	Item			
M	The system will be accessible through a front screen featuring each of the projects which will have links to the individual safety files of each individual project.	1	Item			
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<u>2. CONTRACT (Cont)</u>						
A	Access to the Digital Safety File should be restricted via password / username combinations. Individual usernames should be assigned to each user which can, in turn grant different levels of access. A variety of access levels should be available from 'read only' to full user access for editing and uploading. The system should not be restricted to a limited amount of users.	1	Item			
B	This application should facilitate the future uploading and editing of additional documentation by the client to any area of the file to ensure the file can be kept current and up to date by the user.	1	Item			
C	The system should facilitate the setting of permissions which can allow / restrict users when viewing certain documents.	1	Item			
D	A clear audit trail should be recorded for every document uploaded to the safety file. Time and date stamps should be applied to all documents when they are uploaded.	1	Item			
E	A comprehensive search engine is to be included to ensure easy and quick navigation to any document. Searching should be possible using key words, phrases and should be possible to restrict the search to specific areas of the Digital Safety File if required.	1	Item			
F	All documentation is to be submitted in PDF format to facilitate uploading to the builder's digital safety file.	1	Item			
G	Scanned documents are to be avoided except in the case of test certificates. Where scanned documents must be included, then a minimum setting of 400dpi in full colour shall be used.	1	Item			
H	Drawings are to be submitted in both PDF & CAD. CAD drawings should be presented in .dwg format and be fully bound to all external references.	1	Item			
The Digital Safety File should be:						
J	The DPSF and all its specified elements and requirements are to be collated and managed by a specialist DPSF Co-ordinator who should include for the following:	1	Item			
K	Site attendance as necessary to agree client specific layout for Digital Safety File	1	Item			
L	Collate and manage all design and O&M documentation from relevant parties	1	Item			
M	Present for approval of design team / PSDP	1	Item			
N	Final handover to client including staff training	1	Item			
P	The DPSF Co-ordinator shall provide a fully professional technical service / solution which will produce a comprehensive and project specific Digital Project Safety File. The file is to be formatted to facilitate tracking, viewing, printing, access, editing, searching and updating of the file.	1	Item			
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<u>2. CONTRACT (Cont)</u>						
Table of Contents						
A	The Digital Project Safety File Shall Consist Of The Following Four Sections, Sub Sectioned As Appropriate:	1	Item			
B	SECTION 1: GENERAL PROJECT INFORMATION: Content as described below. The information shall be provided to the DPSF coordinator from the Main Contractor and Design Team	1	Item			
C	SECTION 2: BUILDING FABRIC INFORMATION: Content as described below plus certain as-built drawings and other information provided to the DPSF coordinator from the Main Contractor and the Design Team	1	Item			
D	SECTION 3: BUILDING OPERATIONS SERVICES INSTALLATIONS: Content as described below, the information is provided to the DPSF coordinator through the Contractor by the Mechanical / Electrical / Lift Services Contractors subject to approval by the Services Consultants.	1	Item			
E	SECTION 4: PROJECT DRAWINGS & REPORTS: Content as described below. Section 1 Project Information must include:	1	Item			
F	1. Project Description - A detailed description of the building project	1	Item			
G	2. Site Location	1	Item			
H	3. Planning Documents (Application, Grant, Drawings) - Site Location maps and drawings	1	Item			
J	4. Existing Environment (Surveys etc.)	1	Item			
K	5. Project Organisation (Contact List for Design Team & Construction Team) - Names address telephone/fax numbers, e-mail/website address of all design team members/nominated subcontractors / domestic subcontractors / suppliers / manufacturers	1	Item			
L	6. Health & Safety	1	Item			
M	a. Preliminary Health & Safety Plan	1	Item			
N	b. Construction Health & Safety Plan	1	Item			
P	c. AF1 & AF2	1	Item			
Q	d. Residual Risk Information - The PSCS must outline and identify to the client any residual hazards after the project completion that is likely to have an impact on the operation, maintenance or demolition of the structure.	1	Item			
R	7. Fire Certificate Documents (Application, Grant, Drawings) - Details of all Statutory Certificates and Legal Documentation for the building including fire safety certificate application detail plus copies of all consents and approvals obtained.	1	Item			
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<u>2. CONTRACT (Cont)</u>						
A	8. Disabled Access Certificate (Application, Grant, Drawings)	1	Item			
B	9. All ancillary certificates from Subcontractors	1	Item			
C	10. Works Requirements Document	1	Item			
Section 2 Building Fabric Information (All Works Packages) must include:						
D	1. Architects Specifications & Schedules Design brief / specifications - Architect - overview / summary of how the building was constructed & how it is intended to achieve its performance and other objectives including specialist reports such as site surveys, topological surveys, asbestos survey reports, soil tests site investigation reports, tree surveys etc.	1	Item			
E	2. Civil & structural Specifications, Structural description & specifications along with surveys and, reports detailing all allowable loadings/restrictions/ pressures & structural maintenance requirements	1	Item			
F	3. Electrical Specifications, Details of all electrical construction packages relating to all nominated/domestic subcontractors - provision of a detailed description/scope of works for each specific works package/construction elements as well as specifics on materials or procedures which may present significant residual hazards with respect to cleaning, maintenance repair or deconstruction / recycling / demolition, this information must also be provided for all contractor designed work and performance specified work	1	Item			
G	4. Mechanical Specifications, Details of all mechanical construction packages relating to all nominated/domestic subcontractors - provision of a detailed description/scope of works for each specific works package/construction elements as well as specifics on materials or procedures which may present significant residual hazards with respect to cleaning, maintenance repair or deconstruction / recycling / demolition, this information must also be provided for all contractor designed work and performance specified work.	1	Item			
H	5. Fittings & component schedules: all final revision / as built fitting and component schedules to include but not limited to the following: sanitary ware schedule / signage schedule / ironmongery schedule / finishes schedules / door schedules / specialist equipment details	1	Item			
J	6. Planned preventative maintenance & cleaning procedure and frequency for each element / component	1	Item			
K	7. Site drainage report including drainage CCTV / other testing results	1	Item			
L	8. Copies of manufacturers current project literature specific for all products for which the particular proprietary brand has been chosen by the contractor including data sheets and manufacturers recommendations for cleaning and maintenance	1	Item			
M	9. Copies of all guarantees warranties and maintenance agreements offered by subcontractors and manufacturers	1	Item			
N	10. Copies of all product compliance test certificates and reports	1	Item			
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<u>2. CONTRACT (Cont)</u>						
A	11. The fire safety strategy for the building(s) including drawings showing emergency escape routes, location of emergency and fire fighting systems services shut-off valves switches etc.	1	Item			
B	12. The sustainability strategy for the building(s) including drawings, illustrations, diagrams, systems and components etc.	1	Item			
C	13. The universal access / emergency evacuation strategy for the building(s) including drawings, illustrations, systems and components etc	1	Item			
D	14. A list of any design risks / residual risks / hazards / maintenance considerations / disposal & recycling which will be relevant to the future operations and maintenance of the facility	1	Item			
E	15. Digital images of all buildings internally / externally and general site areas - progress photos shall also be taken at intervals to be agreed with the contracting authority	1	Item			
Section 3 Building Services - Mechanical & Electrical O&M Manuals Building Operations [Services Information] must include:						
F	It is suggested that M&E manuals follow the same format to allow easy and quick navigation by the end user - sample template provided below:	1	Item			
G	Project Details:	1	Item			
H	General details regarding the project - job title, location, scope of works,	1	Item			
J	Contractor's details:	1	Item			
K	Supplier's Contacts	1	Item			
L	Contact details for all equipment suppliers - company name, equipment supplied, contact person, address, phone, fax, email & website.	1	Item			
M	Description of Services - A full description of each of the systems installed written to ensure that the Schools services department fully understand the scope and facilities provided	1	Item			
N	Brief narrative of each service installed (water, heating, ventilation, lighting, power, access control etc). Give location of plant, areas served, method of control, set-points etc. Photographs of the plant and equipment in their installed position should be included in this section. A description on the operation of all systems including services capacity and restrictions / starting up operating and shutting down instructions for all equipment and systems installed.	1	Item			
P	Maintenance & Fault Finding. Recommended maintenance schedules for all items of plant (monthly, quarterly, annually). Fault finding guide for all major systems	1	Item			
Q	Recommendations as to the preventative maintenance frequency and procedures to be adopted to ensure the most efficient and environmentally beneficial operation of the systems.	1	Item			
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<u>2. CONTRACT (Cont)</u>						
A	Planned maintenance programmes, service life costs/plan, repair replacement, lubrication schedules, deconstruction, recycling or disposal procedures for items of plant / equipment	1	Item			
B	A full list of spare parts for all plant.	1	Item			
C	Lubrication schedules for all lubricated items	1	Item			
D	A list of all plant that requires re-testing including when re-testing is required	1	Item			
E	Fire alarm strategy - including cause and effect table	1	Item			
F	Emergency & safety procedures for all installed plant including telephone numbers for emergency services	1	Item			
G	Asset Register	1	Item			
H	List of all plant and equipment installed. Each item to have individual tag references corresponding to reference on the 'as-built' drawings. Details which should be noted include model, manufacturer, duties, location and serial numbers.	1	Item			
J	The name address and telephone number of the manufacturer of every item of plant and equipment together with catalogue list numbers	1	Item			
K	Mechanical & electrical specifications - final revision	1	Item			
L	As Built Electrical Drawings (in .dwg and PDF format): The drawings shall clearly show all systems, plant, terminal points such as luminaries, sockets, isolators, etc. and distribution, circuit orientation and references. All sizes of tray, trunking and their routes shall be indicated. All plant shall be clearly referenced and shall be readily identifiable	1	Item			
M	As Built Mechanical Drawings (in .dwg and PDF format format): The drawings shall clearly show all systems, plant, valves, dampers, etc. All plant & valves shall be clearly referenced and be readily identifiable and show a legend for all colour-coded services.	1	Item			
N	The Candidate and his Contractor shall ensure that any services or systems, which are buried within the structure, or underground, are precisely located on the drawings, along with the precise position of entry of services to the building, isolating valves and cocks.	1	Item			
P	Control sequences for all systems installed	1	Item			
Q	Diagrammatic drawings of each system indicating principal items of plant, equipment, valves etc. Legend for all colour-coded services	1	Item			
R	Plant Schedules (Plant /Asset Register - system by system) of plant equipment, stating their unique reference number, make, model, location, area served, as-built drawing reference	1	Item			
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<u>2. CONTRACT (Cont)</u>						
A	Manufacturer's specific technical literature for all items of plant and equipment assembled specifically for the project excluding irrelevant matter and including detailed drawings, electrical circuit details, and operating and maintenance instructions	1	Item			
B	A copy of all test /commissioning certificates (including but not limited to electrical circuit tests corrosion tests type tests Works tests start and commissioning tests) for the various elements of the installations.	1	Item			
C	A copy of all manufacturers, guarantees, warranties, and maintenance agreements offered by subcontractors and manufacturers	1	Item			
D	Schedules of all fixed and variable equipment settings established during commissioning and procedures for seasonal changeovers	1	Item			
E	Sample digital images for each key item of Mechanical, Electrical and Lift installations for use as cross reference photos within the various sections of the O&M Manuals	1	Item			
Section 4: Project Drawings & Reports must include:						
F	Complete Register of all "As Built" drawings Architectural, Civil / Structural, Services, Specialist, Fire etc. & Reports. Note that each drawing register shall be provided electronically in spreadsheet or tabular format and shall include the following information in the following column order:	1	Item			
G	1. Drawing Number	1	Item			
H	2. Drawing Title / Description - this must contain enough key information about the content to allow the drawing register to be searched efficiently by the CLIENT when locating drawings on a day to day basis	1	Item			
J	3. Drawing Revision	1	Item			
K	4. Drawing Date - in XX/XX/XXXX format	1	Item			
L	a. Note that the Filename of each drawing shall be the drawing number	1	Item			
M	b. All Architectural, Civil / Structural, Services, Specialist, Fire "As Built" drawings to be in .dwg and PDF Format	1	Item			
N	c. As-built drawings (in .dwg and PDF Format) recording details of construction for all contractor designed work and performance specified work	1	Item			
P	5. Underground Site Services	1	Item			
Q	a. Note that a separate drawing will be required for each service e.g. gas, drainage, telecommunications etc.	1	Item			
R	b. Drawings should be produced in a format that will allow the viewing of individual services, together with the option to show any combination of services on a drawing. Layering, line types etc. to be agreed in advance with the client	1	Item			
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<u>2. CONTRACT (Cont)</u>						
A	c. Note that the client requires the contractor to provide a final draft of each of the underground services drawings for their review and comment before the contractor issues the final revision of these drawings	1	Item			
B	d. Note that All underground "as built" site services drawings shall be delivered in .dwg and PDF Format	1	Item			
C	Contractors are contractually obliged to video record the handovers of the buildings and the demonstrations and these recordings will form part of the digital safety file.	1	Item			
D	The digital safety file is to be hosted as agreed with the CLIENT. 2 number DVD copies and one number hard copy of the file must be provided to the employer's representative and to the PSDP	1	Item			
AS -INSTALLED DRAWINGS:						
E	The drawings shall be prepared by CAD to A0 or A1 size for inclusion in the Digital Project Safety File (s):-	1	Item			
F	Drawing shall be clearly marked "As-installed drawing"	1	Item			
G	As-installed drawings shall be executed by a competent draughtsman and shall contain sufficient detail to enable the Employer to maintain, dismantle, reassemble and adjust all parts of the works.	1	Item			
H	Lettering on drawings shall be to an approved lettering system and the title block shall be to the Engineer's approval.	1	Item			
J	The title block shall not contain any revision notes or references, nor shall the drawings contain any references to existing services or similar notes.	1	Item			
K	The drawings shall clearly show all systems, plant, terminal points such as luminaires, sockets, isolators, etc. and distribution, circuit orientation and references. All sizes of tray, trunking and their routes shall be indicated. All plant shall be clearly referenced and shall be readily identifiable.	1	Item			
L	The contractor shall ensure that any services which are buried within the structure, or underground, are precisely located on the drawings, along with the precise positions of entry of services to the building, giving their depth and the locations of the relevant pits, etc.	1	Item			
M	The drawings shall incorporate all building changes which may have occurred during the course of the contract.	1	Item			
N	The contractor shall provide the following for inclusion in the Digital Project Safety File (s):-	1	Item			
P	A schedule of record drawings, including those issued by manufacturers or suppliers during the course of the works, e.g. switchgear layout and control panel wiring diagrams	1	Item			
Q	Any isometric or diagrammatic drawings.	1	Item			
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<u>2. CONTRACT (Cont)</u>						
A	Copies of distribution board identification charts.	1	Item			
B	The contractor shall provide one copy of each of the warning signs and safety charts, which shall be heat sealed or fixed in glazed hardwood frames, for installation in locations to be agreed on site.	1	Item			
COMPLETION CERTIFICATES:						
C	The contractor shall submit the following certificates when the installation is completed and include in the Digital Project Safety File (s):-	1	Item			
D	All relevant BCAR certificates as listed in the Preliminary Inspection Plan.	1	Item			
E	ETCI certificate of entire installation.	1	Item			
F	Certificates for fire alarm and emergency lighting.	1	Item			
G	Lightning protection certificate.	1	Item			
H	Certificates from suppliers or manufacturers stating that equipment has been installed and commissioned satisfactorily and is operating in accordance with the design requirements.	1	Item			
J	ETCI sub-system certificates.	1	Item			
K	All system testing and commissioning certificates and results.	1	Item			
L	An IOU (incomplete, outstanding or unsatisfactory work) shall be attached to a certificate in the event of any work not required at hand-over stage, and a programme agreed for the completion of works.	1	Item			
M	Compliance certificates as required by Building Control (Amendment) Regulations 2013	1	Item			
Temporary Works						
N	The contractor shall include a cost herein for employing a consulting engineer with PI of €6.5m to prepare their temporary works proposals for the support of any earthworks and any other permanent works to be executed that require temporary works.	1	Item			
P	The contractor shall include a cost herein for engaging a specialist geotechnical engineer to assess the existing ground conditions with regard to temporary works and allow for all measures necessary to ensure the stability of the existing ground above the excavations for the duration of the works.	1	Item			
Q	All Temporary Works Designers are required to provide Design Risk Assessments to the PSDP for inclusion in the Preliminary Safety & Health Plan and / or the Safety File.	1	Item			
R	All Temporary Works Designers are required to provide a HSA 'Temporary Works Design Certificate' to the PSDP, for their element of the Works on the Project.	1	Item			

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<u>2. CONTRACT (Cont)</u>						
A	*NOTE: Temporary Works may include such matters as trench shoring, scaffolding, propping, working platforms, gangways and access stairs / ladders, etc. Persons who make decisions on site in respect of these may be deemed to be designers. Those employing, or in control of, people undertaking design work are themselves deemed to be designers.	1	Item			
B	The PSCS must also ensure that a copy of the signed Temporary Works Design Certificate is forwarded to the Employer's Representative, and Client's Health & Safety Advisor.	1	Item			
FIRE SAFETY						
C	The Contractor shall ensure that fire brigade access is maintained to the Works and to existing buildings at all times. The Contractor shall consult with the fire authority as necessary and shall at all times carry out the Works with due regard for the fire safety of the Works and of any other buildings or users who may be affected by the Works. In particular the Contractor shall protect existing vehicular fire access and egress routes and access to fire hydrants.	1	Item			
D	The Contractor shall ensure that fire escape routes from existing buildings are maintained for the duration of the Works.	1	Item			
E	The Contractor shall take special precautions to avoid risk of fire and shall cease any work involving naked flames or sparks at least 45 minutes before work stops for the day. The Contractor shall not permit any accumulation of inflammable debris. The Contractor shall not take flammable liquids or gases onto the Works other than that needed for one day's work.	1	Item			
F	The Contractor shall employ (at the Contractor's own cost) a recognised Fire Safety Consultant to check each section of the building twice during the construction process and again immediately prior to handover, to ensure that the building has being built in full compliance with Fire Safety Certificate documentation including confirmation that the cause and effect strategy has been complied with in terms of the M&E installation and for the Consultant to provide a Certificate to this effect. This Certificate of Compliance is to be included in the Safety File and issued with all other Certification by the Contractor on completion. The third party fire safety certifier to provide Ancillary Inspection Completion Certificate (SI RIAI ACI 02) under SI 09 in relation to all of the construction elements of the building relating to Fire Safety and Compliance with Building Regulations Part B and the granted Fire Safety Certificate.	1	Item			
SECURITY						
G	On obtaining possession of the site, the Contractor shall immediately fence the site and secure the Contract work zone from trespass, with a hoarding as outlined in the drawings and elsewhere in this document.	1	Item			
H	The Contractor shall maintain the site in a secure and orderly condition, limiting free access to persons with accredited safety training and ensuring that all other persons whose presence on the site is required or necessary are accompanied by the site safety officer.	1	Item			

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<u>2. CONTRACT (Cont)</u>						
A	The Contractor shall ensure that the site is made secure from trespass at times when it is not in operation and shall provide such fencing, hoardings, enclosures, lighting and watching necessary to ensure this. The Contractor shall ensure in particular that all toxic and flammable materials are secure and that all access to scaffolds or unprotected areas is restricted.	1	Item			
B	The Contractor shall operate a 'sign-in' policy whereby all persons entering and leaving the site are required to sign in and out.	1	Item			
ENVIRONMENTAL						
C	The Contractor shall not deposit deleterious material in drains: The Contractor shall comply with statutory requirements in respect of disposal of waste. The Contractor shall implement an agreed waste management policy and keep records of the disposal of all waste material from the site.	1	Item			
D	All refuelling shall take place in a designated refuelling area at least 30m from watercourses, details of same to be included in the Construction Environmental Management Plan (CMEP).	1	Item			
E	All hydrocarbons, chemicals, oils etc. shall be stored in a dedicated bunded area at least 30m from watercourses and capable of storing 110% of the container/ tank capacity.	1	Item			
F	The Contractor shall ensure an adequate supply of spill kits and hydrocarbon absorbent pads are stocked on site.	1	Item			
Disposal of Toxic Items						
G	Allow for the following in the event of encountering toxic matter on site:	1	Item			
H	Specific safety plan for removal of asbestos;	1	Item			
J	Prepare and keeping of occupational health register and workers' health assessment / surveillance;	1	Item			
K	Specialist PPE / PPC; and	1	Item			
L	Separate cleaning / showering facilities, storage for clothes.	1	Item			
Pollution						
M	Do not deposit deleterious material into surface water channels or lakes. Comply with the requirements of the Rivers Pollution Protection Act, the Public Health (Ireland) Acts, and the Fisheries Acts.	1	Item			
Storage of Materials						
N	Store materials in a tidy manner. Separate different materials and protect them from dirt, physical damage, reaction with other materials marking or staining, micro-organisms, mildew, fungus and vermin. Do not store materials in ways which may cause damage to the Works, people or property.	1	Item			
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<u>2. CONTRACT (Cont)</u>						
Cleaning						
A	Remove and dispose of all rubbish from the Works as it accumulates and maintain the Works in a clean and tidy condition for the duration of the Contract.	1	Item			
B	Clean the Works internally and externally, remove all rubbish and leave the entire Works in a tidy condition ready for occupation or use.	1	Item			
CONCRETE WASHOUT						
C	Concrete washout is an alkaline material and must not be permitted to enter drains or watercourses. Concrete delivery trucks are to be washed down after each pour into an approved washout container and in accordance with a method statement developed by the PSCS. Wheelbarrows, hand tools and boots must also be washed down in an appropriate manner in accordance with a method statement.	1	Item			
Project Supervisor for the Design Stage						
D	The Project Supervisor for the Design Process is Tobins Consulting Engineers	1	Item			
E	Safety and Health Plan - Preliminary	1	Item			
F	The Preliminary Safety and Health Plan is included in Appendix 3 Information Pack of the Instructions to Tenderers	1	Item			
G	Project Supervisor for the Construction Stage	1	Item			
H	The Project Supervisor for the Construction Stage (PSCS) shall be the Main Contractor appointed to carry out the Works.	1	Item			
<u>n) Any other obligation or restriction</u>						
Irish Water						
J	It is the responsibility of the main contractor to prepare and submit the Irish Water (IW) connection applications paperwork agreements and engage with all other stakeholders to ensure connections for all services are made within the project programme.	1	Item			
K	It is the responsibility of the main contractor to agree and receive all connection applications agreements to ensure connections for all services and road opening licenses are obtained within the project programme.	1	Item			
Master Programme						
In addition to the requirements in Clause 4.9.1 of the Contract any programme submitted by the Contractor under Clause 4.9.1 shall:						
L	- show individual critical paths for each Section	1	Item			

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<u>2. CONTRACT (Cont)</u>						
A	- link the Substantial Completion of each Section to the Substantial Completion of the Works showing which Section/s are on the critical path for the Substantial Completion of the Works and which Sections are non-critical to same;	1	Item			
B	- clearly identify the programme contingency referred to in Clause 9.4.2 of the Contract;	1	Item			
C	- clearly describe the preparation time for including obtaining relevant permission for making all services connections;	1	Item			
D	- clearly describe work to be undertaken during school holidays and the preparation work including materials ordering in preparation for these Works;	1	Item			
E	- be submitted in Microsoft Project (or Microsoft Project compatible) and PDF formats in a GANNT format; and	1	Item			
F	- take into account of all constraints included in the Works Requirements and the contract.	1	Item			
G	The Contractor will be required to prepare and submit detailed Testing & Commissioning programmes to the Employer's Representative for review prior to the commencement of Testing and Commissioning activities on each Section.	1	Item			
H	The Contractor's monthly progress reports shall include the current programme with actual and expected progress plotted under programmed durations for each task. The actual/expected start and finish dates shall also be stated for each task to allow comparison with the programmed start and finish dates.	1	Item			
J	The Contractor's monthly progress report shall include a register with details of the actual submission and response dates of each package and the status of each submission.	1	Item			
Use of Services Prior To Handover						
K	The contractor shall cover the cost of all utilities used for construction and testing and commissioning purposes prior to handover of the building.	1	Item			
L	The contractor shall install any meters required to confirm usage and shall provide logs of meter readings. Alternatively the contractor shall only use energy between known times for testing and shall log energy use during those times.	1	Item			
M	Failure to adequately log construction energy costs shall result in the ER determining the amount to be deducted from the contractor and paid to the school. The decision of the ER in that scenario shall final.	1	Item			
N	The Contractor shall be fully responsible for providing and maintaining all services necessary for the proper execution and completion of the Works.	1	Item			

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<u>2. CONTRACT (Cont)</u>						
Materials & Workmanship						
Materials						
A	All construction products used must comply with the Construction Products Regulation (EU) No 305/2011.	1	Item			
B	British Standards (BS) and British Board of Agreement (BBA) certification are not acceptable methods of demonstrating compliance in accordance with Construction Products Regulation (EU) No 305/2011.	1	Item			
C	Any product specified to meet a conformity assessment procedure which requires or provides for third party certification must receive a certificate delivered by a body which is recognised as an EU Notified Body.	1	Item			
D	All products supplied which are subject to the Construction Products Regulation must be CE marked and be supplied with a Declaration of Performance.	1	Item			
E	Those for which there is an Irish Standard or Code of Practice are to comply therewith and shall bear the NSAI Irish Standard Mark or alternatively, shall be certified to a national standard of another member State of the European Union, which provides an equivalent guarantee of safety and suitability.	1	Item			
F	The Contractor shall provide proof of equivalence well in advance of required install date. Any delay due to insufficient information submittal for alternative materials or products will be borne by the Contractor.	1	Item			
Regulations & Current Standards						
G	The School is to be constructed, tested & commissioned in all respects in accordance with harmonised European and national statutes, regulations and standards, codes of practice and locally applied regulations (including planning, fire and DAC requirements).	1	Item			
H	Current Standards: References to national standards or codes of practice shall be to the latest relevant published version including any relevant amendments published at the date of tender. Where a standard code of practice has been superseded, the edition current at the date of invitation to tender shall apply. References to published documents are to the editions, including amendments and revisions, current on the date of the Invitation to Tender.	1	Item			
J	Compliance with these recognised standards, codes of practice and all statutory regulations is a minimum requirement. Plant, equipment and/or materials offered to other standards will be equal or superior in quality to those specified and full details shall be supplied to the ER to demonstrate compliance.	1	Item			
Codes of Practice						
K	Codes of Practice: The Contractor shall provide copies of codes of practice, building regulations and applicable national standards and DoES TGDs for use by his site supervisory staff.	1	Item			

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<u>2. CONTRACT (Cont)</u>						
Schedule of Samples						
A	Samples of Materials: Manufacturer's articles and executed work shall be submitted as required by the Works Requirements for review before incorporation into the Works and articles not accepted shall be removed, if directed by the ER. Comment on any materials or work will not relieve the Contractor from responsibility for Defects howsoever arising and for the need to comply with the Works Requirements. Sample products shall comply with specification requirements in respect of stated or implied characteristics. Samples shall be provided to suit the Works Programme. Orders shall not be placed until comment on the sample is obtained. Samples shall be removed from site when no longer required; this shall be undertaken in accordance with the provision of Clause 4.17 of the Contract.	1	Item			
B	Provide all samples of work as may be reasonably required by the ER. The cost of all reasonable tests are deemed included in the rates tendered in this document including all tests required to be undertaken to confirm compliance with the Works Requirements	1	Item			
C	The Contractor shall agree and maintain complete and current inspection and test procedures with the ER prior to commencement of the Works.	1	Item			
D	The Contractor shall supply, at his own expense samples of all materials manufactured articles and executed work, which the ER may request for comment before adoption. Such comment shall not relieve the Contractor from responsibility for any Defects.	1	Item			
E	The Contractor shall supply materials at his own expense, for all tests required by the Specification and such tests as the ER may direct under the Contract and execute all necessary arrangements, notices, removals and reinstatement in connection with such tests. Copies of the test results shall be issued directly to the ER.	1	Item			
F	All testing of civil and structural Works shall be in accordance with the Civil / Structural Materials & Workmanship Specification'.	1	Item			
G	All testing of mechanical and electrical Works shall be in accordance with the Mechanical and Electrical Materials & Workmanship Specification.	1	Item			
Submittals						
H	The Contractor shall not commence the works without acceptance of the required submittals by the Employer's Representative.	1	Item			
J	Provide a schedule of submittals for agreement with the Employer's Representative. Schedule to indicate the dates on which the Employer's Representative shall receive the required submittals. Correlate the schedule with the master programme and allow a reasonable amount of time for the review of each submittal. Indicate critical decision dates for selection of finishes and colours. Revise the schedule of submittals and resubmit as necessary.	1	Item			
Submission and Return of Working Drawings/ Documents:						

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<u>2. CONTRACT (Cont)</u>						
A	i) Allow for a sufficient period (a minimum of 10 (ten) working days) between the first submission of a drawing/ document and receipt of comments.	1	Item			
B	The order date should be included in the bi-weekly progress report and programme in accordance with Clause 4.10. Sufficient time should be allowed for 2-3 reviews (including 10 working days notice for each review) by the Employers Personnel of the Contractor's Submittal, which is deemed reasonable as the average responses required to obtain Status A. Responses to Contractor and Specialists drawings and submittals will be responded to under three headings:	1	Item			
C	Returned With Comments (RWC) Status A - No further comments. Proceed with installation	1	Item			
D	Returned With Comments (RWC) Status B - Installation may proceed at Contractors risk provided that comments on submittal are fully complied with and performance requirements of contract documents are met. However, strongly advisable to resubmit to obtain Status A before proceeding.	1	Item			
E	Returned With Comments (RWC) Status C - Submittal not accepted. Resubmit demonstrating compliance with Contract documents.	1	Item			
F	The ER will at all times endeavour to return submittals as soon as is practicable, without prejudice to the terms of clause 4.7 of the contract. Should the contractor only first provide a Submittal within less than 10 working days of ordering, without also providing adequate information to demonstrate compliance with the Works Requirements, any delay arising will be attributable entirely to the Contractor.	1	Item			
G	ii) Provide a list of Working Drawings proposed.	1	Item			
H	iii) Provide information specifically requested for each element of the works. Additional information may be required by the Employer on inspection of the Contractor's submittals to allow for accurate comments to be made.	1	Item			
J	Review: The Contractor's submittals will be reviewed by the Employer's Representative during the Evaluation, and any alteration and/ or agreements reached will be incorporated into the Contract documentation. Prototype Classroom	1	Item			
K	The Contractor shall, as part of the Works, complete a prototype classroom and associated internal and external building elements, in a location and to an extent to be agreed with the Employer's Representative, in advance of the corresponding works generally. The prototype shall be completed to a finished standard for the purpose of reviewing and approving materials, finishes, samples, detailing and interfaces in-situ, and for assessing the required standard of workmanship prior to progressing the relevant works throughout the building. Include here all associated costs where not included elsewhere in the Contract Sum.	1	Item			
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<u>2. CONTRACT (Cont)</u>						
Storage of Materials						
A	All unfixed materials shall be carefully stored in accordance with the best practice and in a suitable position on site. Manufacturers or agents recommendations regarding storage, transportation, application, material compatibility, workmanship, health & safety, etc. shall be strictly observed.	1	Item			
Workmanship						
B	All workmanship shall comply with current National Standards or European Standards (the Eurocodes) and be in accordance with Building Regulations Technical Guidance Document Part D.	1	Item			
C	Site Operatives shall be appropriately skilled and experienced for the type and quality of work proposed.	1	Item			
D	Products and materials shall be fixed, applied, installed or laid securely, accurately, plumb, neatly and in alignment. Do not use different colour batches where they can be seen together. Check on-site dimensions to ensure accurate fit. Finished work shall not be Defective, damaged, disfigured, dirty, faulty, or out of tolerance. Adjust any joints open to view so they are even, regular and true.	1	Item			
E	Do not scale dimensions, use figured dimensions only.	1	Item			
Method Statements						
F	Method statements on how the Contractor intends to achieve, construct, supervise, design, produce, co-ordinate, etc. shall be required.	1	Item			
Contractor to include for all method statements required in the preliminaries, specifications and drawings. These include but not limited to:						
G	Supervision of overall works	1	Item			
H	Supervision of Building Regulation Compliance including Compliance with Building Control (amendment) Regulations 2014 Statements	1	Item			
The following method statements are to be submitted when described in the specification. Where not described submit to the ER a minimum of four weeks before the respective element of work has to be ordered (or where no order time is required, before the activity it is due to commence on site.):						
J	Controlling and checking deliveries to site to ensure that the correct products are supplied, delivered and checked, prior to incorporation into the works.	1	Item			
K	Structure including co-ordination of roof steel, walls and beams to allow correct installation of roof systems	1	Item			
L	Roofing (please note detail and number required)	1	Item			
M	Compliance and sign off of all penetrations through roof and walls	1	Item			

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<u>2. CONTRACT (Cont)</u>						
A	Assessment - The contractor is to employ a suitably qualified BER assessor to carry out a preliminary assessment upon commencement of the works to demonstrate compliance with the current Building Regulations (TGD Part L Conservation of Fuel and Energy). Contractor to provide a Building Energy Rating (BER) certificate for the new build extension at substantial completion stage inclusive of all registration fees with S.E.A.I. and all other office costs in accordance with the European Communities (Energy Performance of Buildings) Regulations 2006, SI. No. 666 of 2006 and the current TGD Part L (Conservation of Fuel and Energy). It is the contractor's responsibility to comply with all the design criteria and to provide his Assessor with all the accurate data particularly with regard to:	1	Item			
B	Insulation types used on site	1	Item			
C	Manufacturer's data sheets for boiler, solar collector, PV panels, cylinder type etc.	1	Item			
D	Air permeability pressure test results.	1	Item			
E	Independently certified u-values for windows /doors	1	Item			
F	Certification of ALL acceptable construction details used	1	Item			
G	The contractor's BER Assessor is required to liaise/consult with the council and confirm compliance with current TGD Part L (Conservation of Fuel and Energy) prior to registration with S.E.A.I. and also provide the BER data file if required. Should the contractor fail to achieve compliance with the current TGD Part L the contractor is obliged to carry out remedial works at his own cost.	1	Item			
H	Certificate - Include in building manual (BER Certificate and Part L Report)	1	Item			
J	Submittal date - Prior to completion of the Contract works Acoustic Testing	1	Item			
K	The new-build extension shall be constructed in accordance with the Architect's Specification and all other relevant Contract requirements.	1	Item			
L	Upon completion of the school extension, the Contractor shall arrange for a representative series of acoustic tests to demonstrate compliance with the specified acoustic performance requirements and applicable regulations. Testing shall be undertaken by an independent specialist acoustic consultant appointed by the Contractor when the relevant areas are complete, furnished for normal use and unoccupied. The testing date shall be agreed in advance with the Architect/ Employer's Representative. Include all associated costs. Radon Testing	1	Item			
M	The Contractor shall appoint an independent third-party radon testing specialist registered/approved by the Environmental Protection Agency (EPA), where applicable. The appointed specialist shall maintain appropriate Professional Indemnity insurance for the services being provided.	1	Item			
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<u>2. CONTRACT (Cont)</u>						
A	The Contractor shall be responsible for ensuring that the radon protection system is installed in accordance with the Contract requirements, manufacturer's recommendations and all relevant details and specifications. Any remedial works arising from defective workmanship or non-compliant installation shall be carried out at the Contractor's own expense.	1	Item			
B	The Contractor shall arrange for radon testing to be undertaken approximately six months after Substantial Completion, during the Defects Period, and shall provide the test results and associated certification/report to the Employer's Representative.	1	Item			
CE Marking						
C	The EU Construction Products Regulation (No. 305/2011 - CPR) requires that construction products that are covered by a harmonised European product standard or are required to conform to a European Technical Assessments should normally have a CE marking. All products specified shall carry the appropriate CE marking as required by the EU Construction Products Regulation (No. 305/2011 - CPR). The CE marking shall include reference of the product standard and the levels or classes of performance being declared against some or all of the characteristics covered by the standard.	1	Item			
D	The CE marking shall be on the product, its label, packaging or accompanying documentation. Relevant documentary evidence (i.e. an EC Declaration of Conformity, must contain the following information: manufacturer's details (name and address, etc.); essential characteristics for the product; compliance with appropriate European standards and performance data; if relevant the identification number of the Notified Body; and a legally binding signature on behalf of the manufacturer.) shall be submitted to the ER on request and shall be incorporated into the O&M and H&S manuals upon project completion.	1	Item			
E	The CE marking shall be affixed visibly, legibly and indelibly to the construction product or to a label attached to it. Where this is not possible or not warranted on account of the nature of the product, it shall be affixed to the packaging or to the accompanying documents	1	Item			
F	The CE marking shall be followed by the two last digits of the year in which it was first affixed, the name and the registered address of the manufacturer, or the identifying mark allowing identification of the name and address of the manufacturer easily and without any ambiguity, the unique identification code of the product-type, the reference number of the declaration of performance, the level or class of the performance declared, the reference to the harmonised technical specification applied, the identification number of the notified body, if applicable, and the intended use as laid down in the harmonised technical specification applied.	1	Item			
G	Note: An importer or distributor shall be considered a manufacturer for the purposes of EU Regulation No 305/2011 and shall be subject to the obligations of a manufacturer pursuant to Article 11 (obligations of manufacturers) of EU Regulation No 305/2011, where he places a product on the market under his name or trademark or modifies a construction product already placed on the market in such a way that conformity with the declaration of performance may be affected.	1	Item			

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<u>2. CONTRACT (Cont)</u>						
A	Items requiring CE marking shall be as follows: Pre-cast normal/lightweight/ autoclaved aerated concrete products, Doors, windows, shutters, gates and related building hardware, Membranes, including liquid applied and kits (for water and/or water vapour control), Thermal insulation products, Composite insulating kits/systems, Structural bearings, Pins for structural joints, Chimneys, flues and specific products, Gypsum products, Geo-textiles, geo-membranes and related products, Curtain walling/cladding/structural sealant glazing, Fixed fire-fighting equipment (fire alarm/detection, fixed fire fighting, fire and smoke control and explosion suppression product), Sanitary appliances, Circulation fixtures: road equipment, Structural timber products/ elements and ancillaries, Wood based panels and elements, Cement, building limes and other hydraulic binders, Reinforcing and pre-stressing steel for concrete (and ancillaries), Post Tensioning kits. Masonry and related products. Masonry units, mortars and ancillaries, Wastewater engineering products, Floorings, Structural metallic products and ancillaries, Roof coverings, roof lights, roof windows and ancillary products. Roof kits, Road construction products, Aggregates, Construction adhesives, Products related to concrete, mortar and grout, Space heating appliances, Pipes-tanks and ancillaries not in contact with water intended for human consumption, Construction products in contact with water intended for human consumption, Flat glass, profiled glass and glass block products, Power, control and communication cables, Sealants for joints, Fixings. Building kits, units, and prefabricated elements, Fire stopping, fire sealing and fire protective products. Fire retardant products BREXIT Implications on CE Marking	1	Item			
B	The UK left the EU on the 31st January 2020. The Contractor shall be aware of the implications and non-compliance since this date for them or any of their subcontractors to install products which are CE marked under UK notified bodies. Post Brexit, UK notified bodies used for certification of conformity for 'CE' marking proposes have lost their status as EU Notified bodies and are/in the process of being removed from the EU Nando website. In such instances the manufacturer of the product now need to obtain alternatives for certification of conformity for 'CE' marking.	1	Item			
C	The contractor shall be aware that any product CE marked under a UK notified body post Brexit will no longer be accepted. Any products failing to meet this requirement shall be removed and replaced on the project with EU conforming products. All costs associated with removal and reinstatement shall be the responsibility of the contractor. No claims for costs shall be considered. Testing and Commissioning	1	Item			
D	In relation to testing and commissioning for Substantial Completion of each Section and the Works the Contractor's testing and commissioning proposals shall be approved shall be approved by the ER & Design Team and the testing and commissioning of the following elements as a minimum shall be witnessed by the relevant Contractor's design Specialist:	1	Item			
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<u>2. CONTRACT (Cont)</u>					
Fire alarm/emergency and security systems; Public address system; Final stage boiler commissioning tests; Final stage commissioning of BMS and other integral control systems; Final stage commissioning of all electrical, communication, security and IT systems; Demonstrations of satisfactory performance of lighting provisions (including emergency lighting); Final tests/inspections involving acceptance by third party utility providers (e.g., ESB, Bord Gais Eireann, other relevant 3rd parties etc.); Demonstrations/tests for acceptance of all major items of equipment; In-situ slip resistant tests on floors in wet areas; Confirmation of fitting of radon testing devices at SC with recordings to be taken during the Defects period; Site services including ducting, drains, watermain etc.; Lifts; CCTV; P.A.; Roofing systems; retesting of existing systems interfered with including PA, security alarms and CCTV, electrical and mechanical systems, bio-metric security I.D. systems; acoustics; air tightness; thermographics; daylighting; any water tests required by local authority; structural waterproofing installation; foul pumps and wastewater treatment equipment (where provided); and water tests of water retaining structures (where provided) and All tests to prove compliance with noise levels stated in DoES TGD 021-5 Thermographic imagery and air-tightness tests to prove compliance with DoES TGD 021-7.	1	Item			
Records of tests and witnessing are to be maintained and made available for inspection and included in the Safety File.	1	Item			
Quality Assurance and Quality Control					
Further to Clause 8.2 of the Contract the Contractor shall prepare, implement and update as necessary project specific quality assurance systems for itself and its sub-contractors. These systems shall include, inter alia, Quality Plans for the following:					
- Overall management, coordination and administration of the Works	1	Item			
- Managing safety and health and undertaking the statutory duties of Contractor and PSCS.	1	Item			
- Contractor's site supervision including details of procedures, roles, responsibilities and oversight, inspection and test plans, witness points, hold points and records to be kept. This should address:	1	Item			
- - Contractor's methodology for ensuring compliance with the design	1	Item			
- - Contractors methodology for confirming that all site operatives are trained to use the materials, equipment, or materials that they are installing and that relevant manufacturers recommendations are being followed;	1	Item			
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<u>2. CONTRACT (Cont)</u>						
A	- Contractor system for ensuring compliance with the Building Regulations and specifically the measures being taken by the Contractors management, to ensure compliance. This shall include, inter alia, all concealed Works site ,Fire Stopping / Fire Safety Compliance, compliance of fire door sets including frame and ironmongery, continuity of weathering surface including weathering of all penetrations and specifically roof penetrations, continuity of insulation , air-tightness, acoustic compliance, services testing, radon barrier compliance including at joints and penetrations, slips trips and falls including the accuracy of as installed stairs including risers, the off-site compliance of pre-cast concrete work before it is brought to site, drainage;	1	Item			
B	- Methodology to plan ahead including pre-ordering of materials to efficiently undertake Works required to existing schools during holiday periods;	1	Item			
C	- Materials approval prior to use in the Works, including the role of the design Specialists in the approval process and the records to be kept.	1	Item			
D	- Concrete quality control on site, including initial delivery inspection, sampling, testing pre pour and post pour check procedures and the records to be kept.	1	Item			
E	- Control of sub-contractors including selection and appointment sub-contractors and monitoring sub-contractors work to ensure compliance with the Works Requirements;	1	Item			
F	- Testing and commissioning including identification of the systems and tests to be undertaken, the roles and responsibilities of the relevant Works sub-contractors in the testing and commissioning process and the records, which are to be kept. To include details of the process for general building and room inspections, snagging and sign off as well as the mechanical and electrical building services, water, waste water, foul systems etc.;	1	Item			
G	- Compilation of the Safety File.	1	Item			
H	- Undertaking decanting of fitted furniture and & equipment;	1	Item			
J	- Coordination of building services and utilities; and	1	Item			
K	- Stakeholder management.	1	Item			
L	These Quality Plans shall be submitted to the Employer's Representative for review.	1	Item			
M	Observation and Non-Conformance register; As part of its quality systems the Contractor is required to maintain an 'Observation and Non-Conformance Register' to record and track the close out of all observations and non-conformances raised by the Contractor's site team, the Employer's Representative and Design Team etc. These registers are to be kept up to date by the Contractor, submitted regularly to the Employer's Representative for review and shall be included in the Contractor's monthly progress report.	1	Item			
N	Corrective actions for all observations and non-conformances are to be determined by the Contractor for review by the Employer's Representative.	1	Item			
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<u>2. CONTRACT (Cont)</u>						
Contractor's Monthly Progress Reports						
The Contractor should submit a progress report at least 2 days before the start of each site meeting. Notwithstanding the contractor's obligations under Clause 4.10.2 of the contract the report must include:						
A	- a progress statement by reference to the Master programme for the works	1	Item			
B	- details of any matter materially affecting the progress of the works	1	Item			
C	- sub-contractors and suppliers progress reports	1	Item			
D	- any requirement for clarification information/ drawings/ details to fulfil any obligations under the contract	1	Item			
E	- labour statistic report: daily record listing all management, skilled and unskilled labour on site, by trade	1	Item			
F	- plant report: weekly record listing significant elements of plant and machinery	1	Item			
G	- weather report: daily record listing part days/ days lost and identifying elements of work affected.	1	Item			
H	- schedule of work planned over next 2 weeks	1	Item			
J	- updated sample schedule in format prescribed in Architects schedule of samples.	1	Item			
K	- issue with BCAR inspections, reports, certification arising	1	Item			
L	- schedule of testing/inspection required over the next two weeks.	1	Item			
M	- Updated Inspection Plan (where applicable)	1	Item			
N	- Progress photographs: fortnightly digital record photographs showing overview of progress on site and photographs of works completed since the previous site meeting (format: on disc) - Issue to Employers Representative. Minimum 40 photographs, unless by agreement with ER.	1	Item			
The Control of Noise						
P	During the Construction phase, noise levels at noise sensitive locations shall not exceed 70dB(A) between 08:00 to 18:00 hours Monday to Friday and 08:00 to 13:00 hours Saturday and 45dB(A) at any other time.	1	Item			
Q	The Contractor shall provide and install sufficient sound monitors on the site to monitor the above requirement for the duration of the Contract. Recorded noise levels should be presented within the Contractor's monthly progress reports.	1	Item			

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<u>2. CONTRACT (Cont)</u>						
Vibration Monitoring						
A	The Construction works shall be carried out in accordance with the noise guidance set out by BS 5228-1:2009 Code of Practice for Noise and Vibration Control on Construction and Open Sites and the NRA Guidelines for the treatment of Noise and Vibration in National Road Schemes.	1	Item			
B	Vibration monitors to be installed on each premises that adjoins the site boundary as well on buildings on site to be retained. To be monitored and reported on by the main contractor.	1	Item			
C	The Contractor shall monitor ground vibrations at selected locations specified by the Employer's Representative to the approval of the Employer's Representative on site during the progress of the works. Each vibrograph shall be certified as being in proper working order and shall unless otherwise approved, record vibrations in three directions simultaneously with a print-out showing the amplitude and frequency of the vibrations.	1	Item			
Nuisance Precautions, Generally						
D	Take adequate precautions to protect persons and property from damage or nuisance caused by water, smoke, dust, rubbish, noise and otherwise. Execute any work which, in the Employer's Representative's opinion, is likely to cause annoyance or inconvenience to occupants of adjoining property at such times during working hours as the Employer's Representative may direct.	1	Item			
E	The Contractor shall appoint a liaison officer for all necessary communications with Carrick-on-Shannon Community School and its representatives. The role of the liaison officer shall extend to communications with the adjacent residents/ occupants throughout the duration of the works. Details of the proposed liaison officer shall be agreed with the Employer's Representative prior to commencement.	1	Item			
F	The Contractor shall maintain a Complaints Register to record any complaints regarding but not limited to noise, odour, dust, traffic or any other environmental nuisance. The Complaints Register shall include details of the complaint and measures taken to address the complaint and prevent repetition of the complaint.	1	Item			
Tax Clearance						
G	It will be a condition precedent to the award of this contract that the Contractor must be able to produce promptly a Tax Clearance Certificate (unless he has a Sub-Contractor C2 Certificate). In the case of a non-resident, a statement from the Revenue Commissioners will be required.	1	Item			
H	Furthermore, it will be the responsibility of the successful Contractor to ensure that any Sub-Contractor employed by him on this contract is in possession of either a bona fide C2 Certificate or a Tax Clearance Certificate and to submit such certificate in each case for inspection by this office when required to do so. No claims for increased costs will be entertained in respect of contractor's compliance with this condition.	1	Item			

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<u>2. CONTRACT (Cont)</u>						
A	Payments under this contract will at all times be conditional on compliance with these requirements. It is emphasised that in the absence of a current C2 Certificate, tax must be deducted at a rate of 35% from payments due in accordance with Section 17 of the Finance Act 1970, notwithstanding that a Tax Clearance Certificate has been furnished by the Contractor. CIF Pension Sick Pay Scheme	1	Item			
B	The Contractor shall be a contributor for the duration of the Contract, to a Contributory Pension and Sick Pay Scheme approved by the Revenue Commissioners in respect of all employees and must comply with the relevant labour agreements. Custom Duties	1	Item			
C	The Contractor will be deemed to have included in his tender for all Customs and other duties legally payable. Value Added Tax (VAT)		Item			
D	The tender shall be submitted on a VAT exclusive basis. However tenderers shall list separately the items included in the tender amount that are liable for VAT at rates other than the special building rate (13.5%) to allow for the calculation of the Employer's total VAT outlay on the contract. The Employer reserves the right to seek advice from the Revenue Commissioners on the accuracy of the VAT allocations shown and, in the event of a dispute, the opinion of the Revenue Commissioners on the VAT rate appropriate to any item of work shall be final (See Appendix A of this Pricing Document). During the Contract, payment amounts due to the Contractor shall be invoiced on the following basis:	1	Item			
E	(a) the amount due to the Contractor that carries a VAT liability of 13.5% shall be invoiced separately from any other amounts due. This invoice shall be clearly marked with the statement 'VAT ON THIS SUPPLY TO BE ACCOUNTED FOR BY THE PRINCIPAL CONTRACTOR'	1	Item			
F	(b) amounts due to the Contractor that carry no VAT liability, or are liable at rates other than 13.5%, shall be invoiced on a second invoice that identifies amounts due at the various VAT rates (apart from 13.5%), identifies the VAT due at the various rates and states the total amount due for payment.	1	Item			
G	Applications for payment and valuations of Compensation Events shall identify the items of work that carry a VAT liability at rates other than 13.5%, stating the rate applicable.	1	Item			
H	Where the cost of any items are VAT exempt or zero rated for VAT purposes the relevant items shall be itemised and the amount of the liability at this rate shall be clearly identified.	1	Item			
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<u>2. CONTRACT (Cont)</u>						
Patent Rights and Royalties						
The Contractor shall save harmless and indemnify the Employer for and against all claims and proceedings for or on account of infringement of any patent rights, design, trademark or name of other protected rights in respect of any constructional plant, machine work or material used or in connection with the Works.					1	Item
Removal of Improper Work and Materials						
The Employer's Representative shall have the power to order during the progress of the Works :						
(a) Removal from the site of any materials which, in his opinion, are not in accordance with the Contract.					1	Item
(b) Substitution of proper materials.					1	Item
(c) Removal and proper re-execution (notwithstanding any previous test thereof or interim payment there for) of any work which in respect of materials of work people is not in accordance with the Contract.					1	Item
Unfixed Works Items						
The Employers Representative may ask the Contractor for proof of full ownership (free from any lien or charge) in certain goods or materials delivered to the site to be embodied in the works in accordance with Clause 11 sub-clause 11.2. If this proof is not forthcoming the Employers Representative will be entitled to withhold certifying payment in respect of goods and materials in question. Payment for goods will be based on percentage value of 'material costs only' as stated within Contract Schedule 1 Part L.					1	Item
Other items for consideration						
Liaise and co-operate continuously with ER to ensure that the minimum disturbance and upset is caused to the adjoining schools / neighbours. Transistor radios, cassette players or the like and singing are banned within all work areas.					1	Item
Ensure that each Section shall be operational and have been fully snagged in advance of requesting the Employer to certify Substantial Completion. For the purposes of achieving Substantial Completion the Contractor shall ensure that the Works in that Section have been carried out to such a stage that they can be immediately used by the Employer and the school for its intended purpose and that any items of work or supply then outstanding and any Defects then patent are of trivial nature only and are such that their completion or rectification does not interfere with or interrupt the use of that Section. Such outstanding items and Defects shall be proceeded with expeditiously and shall be finished or rectified within a reasonable time after the date of Substantial Completion;					1	Item
Construction deliveries should not be made to site during the school morning start time or the afternoon school closing time to avoid conflict with other traffic.					1	Item
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<u>2. CONTRACT (Cont)</u>				
Site House Keeping				
Locate scaffolding, plant, chutes etc. to ensure all of the above requirements are complied with.	1	Item		
Air-borne dust should be prevented at all times	1	Item		
Ensure access for fire brigade and ambulances must be maintained at all times.	1	Item		
Ensure that the lighting of fires / burning of rubbish is not allowed on the site area.	1	Item		
Ensure that existing drains and sewers are kept clear and are in full use during the Works.	1	Item		
Ensure a safe working environment when working on roof areas or other heights	1	Item		
Ensure that all particularly noisy and disruptive work is carried out in accordance with good practice.	1	Item		
Road cleaning - All necessary measures shall be taken by the Contractor to prevent spillage or deposit of clay, rubble or other debris on adjoining roads during the course of the works. Ensure compliance with Planning Conditions including carrying out the works in such a manner as to ensure that the adjoining roads are kept clear of debris, soil and other material and if the need arises for cleaning works to be carried out on adjoining public roads, all this cleaning shall be at the Contractor's own expense.	1	Item		
Archaeology				
There is always a possibility that archaeologically enriched soils, features or deposits indicating the presence of destroyed or buried Sites will be revealed during construction, even in areas in which no impact is predicted. In such an event, attention is drawn to the National Monuments Legislation (1930-2004), which states in the event of the discovery of archaeological finds or remains, The Department of Arts, Heritage and the Gaeltacht and the National Museum of Ireland should be notified immediately.	1	Item		
Levels survey				
Before commencement, the Contractor shall undertake a levels survey of areas within the site boundary. A copy for this survey shall be forwarded to the Employers Representative in Autocad.dwg and PDF format. Any discrepancies to be advised to the Employers Representative.	1	Item		
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<u>2. CONTRACT (Cont)</u>			
Acoustic Testing			
The Main Contractor is to employ (at their own cost) a recognised Acoustic Consultant to check the building twice during the construction process and again immediately prior to handover, to ensure that the building has been built in full compliance with the Acoustic documentation and is compliant with SDG 02-05-03 Acoustic Performance in New Primary & Post Primary School Buildings including for the consultant to provide a certificate to this effect. This certificate of compliance is to be included in the Safety File and issued with all other certification by the contractor on completion	1	Item	
Prior to the completion of the project, testing has to be carried out by a qualified acoustic consultant. They will follow procedures set by the SDG 02-05-03 Acoustic Performance in New Primary & Post Primary School Building, Building Bulletin 93 & Good Practice Guide - Acoustic Testing of Schools document. Following testing, reports can be issued to the Dept of Education and employer before approval and sign off. Testing and reporting procedures described in the Association of Noise Consultants publication 'Good Practice Guide - Acoustic Testing of Schools' to be fully complied with including the scope of the tests. On site testing to be carried out, within the school, in order to measure noise and/or vibration levels in accordance with standards and guidelines including: SDG 02-05-03 Acoustic Performance in New Primary & Post Primary School Building; BB93 - Acoustic Design of Schools; BS ISO 10816 - Evaluation of machine vibration; Good Practice Guide - Acoustic Testing of Schools; BS 8233 - Guidance on sound insulation and noise reduction for buildings; BS EN ISO 3743, BS EN ISO 3746 or BS EN ISO 9614 - Determination of sound power level. Performance standards specified in in Acoustic Performance in New Primary & Post Primary School Building on the following topics are required to achieve this objective in respect of : Rain Noise, Indoor Ambient, Noise Levels, Airborne Sound Insulation between Spaces, Airborne Sound Insulation between Circulation Spaces and Other Spaces used by Students, Impact Sound Insulation of Floors, Reverberation in Various Spaces, Sound Absorption in Corridors, Entrance Halls and Stairwells.	1	Item	
Radon Membrane Inspection and Integrity Testing			
Provide for independently validated testing of the gas barrier by a specialist consultant, MEC Environmental Ireland (+353 86 241 8783 - www.mecenvironmental.ie) or equivalent, by means of air lancing to ASRM D4437 or approved in line with CIRIA RP960 - 'Good practice on Testing and Verification of Protection Systems for Buildings Against Hazardous Ground Gases'. Contractor to include a cost herein if not included elsewhere.	1	Item	
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<u>2. CONTRACT (Cont)</u>						
Ecological Survey						
A	Contractor to engage a suitably qualified Ecologist to survey the site before any demolition works or tree felling take place. If bats are discovered at any stage of the development, building work must be ceased and referred to Employer's Ecologist.	1	Item			
Existing Trees						
B	Prior to commencement of any construction works all existing trees to be retained shall be fenced off.	1	Item			
Articles of value						
C	All articles of value and of antiquarian or archaeological interest which may be found in the excavation or on the property of the Employer shall be handed over to the Employers Representative or the Employer.	1	Item			
Historical Finds						
D	The Contractor accepts full responsibility for any archaeological remains found on any Site during the Works in accordance with Clause 7.8 (Archaeological Objects and Human Remains) of the Contract Conditions. All articles of value and of antiquarian or archaeological interest which may be found in the excavation or on the property of the Employer shall be handed over to the Employers Representative or the Employer.	1	Item			
Construction Environmental Management Plan (CEMP)						
E	The Contractor shall prepare a Construction Environmental Management Plan (CEMP) to be submitted to the Planning Authority before the commencement of any works on site. This document shall be treated as a live document and held onsite at all times for inspection. The CEMP shall include but not be limited to operational controls of dust, noise and vibrations, construction traffic management, waste management, protection of soils and groundwaters, protection of flora and fauna, site housekeeping, emergency response planning, site environmental policy, environmental regulatory requirements and project roles and responsibilities. The CEMP shall also address extreme weather (drought, wind, precipitation, temperature extremes) and the possible impacts of receptors and mitigation of same. The CEMP shall be treated as a live document.	1	Item			

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<u>2. CONTRACT (Cont)</u>						
Construction and Demolition Waste Management Plan (CDWMP)						
A	The Contractor shall prepare a Waste Management Plan (CDWMP) for the proposed development and shall submit to the Planning Authority prior to commencement of any site activity. This document will be treated as a live document and be held onsite at all times for inspection. The CDWMP shall include but not be limited to project description, legislation requirements, demolition waste, construction phase waste, categories of construction waste, anticipated hazardous waste, non-construction waste, segregation of waste streams, estimated waste generated, hierarchy and adherence to same, roles and responsibilities and communication of WMP, details of recovery and disposal sites, details of waste hauliers, record keeping and documentation, waste audit procedures. The CDWMP shall be prepared in accordance with "Best Practice Guidelines on the Preparation of Waste Management Plans for Construction and Demolition Projects" (2006). The CDWMP shall also take cognisance of the current Regional Waste Management Plan in particular to the upper tiers of the Waste Hierarchy. All waste generated on site shall be recovered/ disposed of at an authorised facility and transported by an authorised collector. The WMP shall be treated as a live document and communicated to all relevant personnel.	1	Item			
B	All waste generated during construction, including surplus excavation material to be taken offsite, shall only be recovered or disposed of at an authorised site which has a current Waste Licence or Waste Permit in accordance with the Waste Management Acts, 1996 to 2008.	1	Item			
Asbestos						
C	Asbestos has been identified as being present in the existing school; please refer to the Asbestos Demolition Survey Report (hereinafter referred to as "Asbestos Report") which has been prepared. This is the overarching document as regards asbestos in each location and the Contractor / PSCS must appoint an asbestos surveying and removal sub-contractor to carry out the asbestos identification, removal & disposal Works. Prior to demolition of /or work to ALL relevant areas where asbestos is present this must be removed from buildings in accordance with the Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 & 2010 and all other associated regulations and codes of practice, please see the relevant Asbestos Report for details.	1	Item			
D	The Contractor / PSCS must appoint a specialist asbestos removal contractor to carry out the asbestos removal & disposal Works. The specialist contractor is to be approved by the Office of Public Works. The Contractor, PSDP, and PSCS should be aware that asbestos may be present in areas which could not be accessed for survey purposes and should stop work and take appropriate precautions if material suspected of containing asbestos is identified during the course of the Works.	1	Item			
E	The Contractor is required to comply fully at all times with all applicable Safety, Health and Welfare Regulations when working adjacent or with asbestos and to comply with all relevant notification periods with the Health & Safety Authority.	1	Item			

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<u>2. CONTRACT (Cont)</u>						
A	The Contractor / PSCS must appoint a competent independent analyst / accredited laboratory for the purpose of undertaking air sampling, project monitoring and issuing site clearance for reoccupation certification; in conformance with ISO 17025 General Requirements for the Competence of Testing and Calibration Laboratories.	1	Item			
B	Prior to commencing the asbestos removal Works the specialist contractor shall submit (to Employers Representative) their 'Plan of Work' (risk assessment / method statement), Design Risk Assessment, and temporary Works certificates for the Asbestos Removal Works (at least 21 days in advance of commencing the asbestos removal Works). The 'Plan of Work' must clearly identify the sequencing / phasing of asbestos removal; and the measures that will be employed to ensure other construction / project personnel and / or third parties are not exposed to respirable asbestos fibres.	1	Item			
C	Prior to commencing the asbestos removal Works the specialist Contractor shall submit their 'Plan of Work' (risk assessment / method statement), and notify, to the HSA (at least 14 days in advance of commencing the asbestos removal Works), if required by the Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006 & 2010. The PSCS must also ensure that copies of the notifications are forwarded to the Employer's Representative	1	Item			
D	NO WORKS may take place on Site until the 'Plan of Work' has been drawn up, and approved by the Contractor / PSCS.	1	Item			
E	No deviations shall be permitted from the Plan of Work.	1	Item			
F	Should the 'Plan of Work' require amending / updating (for whatever reason) it must be issued to the Employer's Representative in the first instance, and then the HSA, prior to proceeding with any proposed changes.	1	Item			
G	No asbestos removal Works may take place in areas occupied by normal construction / project personnel and / or third parties.	1	Item			
H	An asbestos site clearance for reoccupation certificate (s) must be supplied (by the competent independent analyst / accredited laboratory) to the Client's Health & Safety Advisor & Project Manager / Employers Representative prior to commencing any demolition or construction Works on Site (other than the asbestos removal Works); this shall include - Visual inspection & Air monitoring.	1	Item			
J	After completing Asbestos Removal Works the PSCS must ensure that asbestos site clearance for reoccupation certificates are issued to the Employers Representative PRIOR to allowing those areas to be opened up to persons (other than those persons directly involved in the asbestos removal Works).	1	Item			
K	NO Asbestos Containing Waste Material may be removed from the Site unless a C1 Consignment Note (removal of Hazardous Waste Material from Site) has been completed and issued to the PSCS / Contractor & Employer's Representative.	1	Item			
L	The PSCS / Contractor must forward copies of final disposal certificates (i.e. completed C1 Consignment Note (final disposal of Hazardous Waste Material)) to the Employer's Representative.	1	Item			
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<u>2. CONTRACT (Cont)</u>						
A	The PSCS / Contractor must forward, the following information (as applicable) to the PSDP, for inclusion in the Safety File	1	Item			
B	Bulk sample results, Amended Asbestos Register, Preliminary Safety & Health Plan and Specification, Specialist asbestos removal contractor 'Plan of Work', Notification to the Health and Safety Authority, Air monitoring results prior to removal works commencing, Air monitoring results during removal works, Site clearance for reoccupation certificates, Completed C1 Consignment Notes for the final disposal of all asbestos / hazardous waste.	1	Item			
C	The Contractor shall allow for all costs arising from all requirements relating to asbestos including those described here.	1	Item			
	Building Services					
	The Contractor shall include for the provision of a dedicated Services Co-ordinator whose role shall include carrying out the following activities:					
D	- The proper and accurate co-ordination of services	1	Item			
E	- The preparation, co-ordination, and weekly updating of the Contractors Building Services Integration Matrices	1	Item			
F	- Agreement of service routes/builders work openings	1	Item			
G	- Liaise at all times with the Services Engineers and Services Sub Contractors	1	Item			
H	- Liaise with the specialist equipment installers during the works	1	Item			
J	- Liaise with the Utility companies (Power, telephone, gas, water, and the like) and co-ordinate all Works and connections to avoid delays to the project	1	Item			
K	- Liaise with relevant Local Authority bodies and co-ordinate all Works and connections to avoid delays to the project;	1	Item			
L	- Ensure compliance with Building Regulations	1	Item			
M	- Ensure that all services equipment, parts, plant, components , fittings etc are ordered well in advance of the relevant works starting to avoid delays to the works	1	Item			
N	- Ensure proper and accurate co-ordination of all services	1	Item			
P	- Ensure proper and accurate system of final commissioning, testing and staff training	1	Item			
Q	- Ensure full and accurate as-built drawings are prepared and signed off for inclusion in the O&M manual	1	Item			
R	- Ensure full and accurate as-built technical literature, maintenance instructions and guarantees	1	Item			
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<u>2. CONTRACT (Cont)</u>										
Maintenance obligation on Mechanical and Electrical Installations for duration of Defects Period										
A	The Works Requirements include an obligation to maintain the mechanical and electrical installations, in addition to remedying defects, until the expiry of the Defects Period. This obligation shall include the provision of all consumables and disposal of used items / materials arising from the maintenance. 'Consumables' shall exclude fuel for mechanical installations, the purchase of which will be undertaken outside the scope of the Works Requirements. Fuel for testing of installations shall be deemed to be the responsibility of the Contractor and to be included for in the Contract Sum. The Contractor shall include a cost herein if not included elsewhere.				1	Item				
B	BMS contractor to provide two site visits during defects period for seasonal commissioning.				1	Item				
C	Datalogging - PC to be provided capable of storing archive data spreadsheets for at least 5 years.				1	Item				
Alternative Performance Specifications - Energy Performance Assurance										
1. Alternative Proposals:										
D	If the Contractor proposes any alternative materials, products, or performance specifications to those identified in the Contract Documents, such alternatives shall not be adopted without the prior written approval of the Employer's Representative/Design Team.				1	Item				
2. Performance Verification:										
E	Where such alternatives are proposed, the Contractor shall provide a detailed, independently verifiable analysis demonstrating that the substitution will have no adverse effect on the final operational energy demand or thermal performance of the completed building.				1	Item				
3. Calculation and Methodology:										
The analysis shall:										
F	a. Be prepared by a suitably qualified professional (e.g., building services engineer or energy modeller);				1	Item				
G	b. Include all necessary calculations, simulations, and supporting data;				1	Item				
H	c. Be based on recognised methodologies and standards (e.g., CIBSE TM54, SAP, SBEM, or equivalent, as applicable); and				1	Item				
J	d. Demonstrate equivalence or improvement in predicted energy demand and carbon emissions relative to the specified design.				1	Item				
4. Approval Requirement:										
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<u>2. CONTRACT (Cont)</u>						
A	No alternative materials or systems shall be incorporated into the Works until the Employer (or their Representative) has reviewed and accepted the Contractor's analysis in writing.	1	Item			
5. Responsibility:						
B	Approval of any alternative proposal shall not relieve the Contractor of responsibility for ensuring that the completed Works meet all specified performance criteria, including energy and environmental performance targets.	1	Item			
Schedule of Guarantees						
C	The Contractor shall include for the provision of all guarantees, warranties and insurance-backed guarantees required for the Works, as identified within Volume A - Works Requirements and elsewhere in the Contract Documents. Include all associated costs.	1	Item			
Monthly Progress Photos/ Video						
D	The Contractor shall provide monthly drone aerial photography of the project for the duration of the Works, subject to all necessary permissions and applicable statutory requirements. The photographs shall provide a clear record of the progress of the Works. Include all associated costs.	1	Item			
E	The Contractor shall provide a monthly progress video, approximately 10 minutes in duration, comprising a walkthrough of the building and site works sufficient to demonstrate the progress and current status of the Works. Include all associated filming, editing and submission costs.	1	Item			
Architectural Photography						
F	Upon completion of the Works, the Contractor shall engage a suitably qualified professional photographer to provide a comprehensive photographic record of the completed project, including internal and external photographs and drone aerial photography. Digital copies of all final photographs shall be provided to the Employer/Employer's Representative. Include all associated costs.	1	Item			
Works Proposals						
G	The Contractor shall include for all costs associated with the implementation of and compliance with the Works Proposals submitted with its tender and incorporated into the Contract, including all commitments, methodologies, resources, management arrangements and other measures identified therein in response to the Technical Merit Criteria contained in Appendix 1 of the Instructions to Tenderers and associated tender documentation. Include all associated costs where not included elsewhere.	1	Item			
Pre-Substantial Completion Requirements/ Checklist						
Contractor MUST ensure the following:						
H	1. Provide independent Fire Safety compliance report as per specification including specified fire door, screen and ironmongery information.	1	Item			
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<u>2. CONTRACT (Cont)</u>					
2. Provide independent airtightness certification as per Specification.	1	Item			
3. Provide thermographic report as per Specification.	1	Item			
4. Provide all information to BER assessor.	1	Item			
5. Provide letter of compliance of the construction of the works with the Building Regulations as per the Specification.	1	Item			
6. Provide the Safety file in compliance with the Specification and the requirements of the PSDP.	1	Item			
7. Provide a full itemised schedule for all M/E installations/ plant/ equipment etc that requires testing, commissioning and demonstration to the client prior to Substantial Completion. These are to be listed on a single document and signed and dated by the contractor, services consultant and Employer's Representative as a record that all took place and were clearly understood.	1	Item			
8. Provide original warranties for each piece of M&E equipment - as listed by Services Engineers and component of building envelope as per Architect's specification. State clearly the life of the warranty.	1	Item			
9. Provide original guarantees (insurance backed) for: roofing; flat roofing; windows.	1	Item			
10. It is the contractor's responsibility to snag the building. Thorough snagging is to be carried out before presentation to the design team for checking prior to Substantial Completion. The contractor is to ensure that those elements of the building that will be closed up or inaccessible at Substantial Completion are snagged and inspected earlier in the programme.	1	Item			
11. 1 or 2 page summary to be provided at the front of the Safety/ O&M file listing all items of equipment that require regular maintenance or testing and the periods for same - also the date for the first inspection.	1	Item			
12. Handover of keys and fobs: provide - 'Key handover certificates' for the following - doors, furniture, electrical cabinets etc, note boards/ cabinets, windows, access panels (in ceilings and walls/ floors etc), lifts and manholes etc - including key or fob/ swipe card. All keys to be tagged. Two copies of each key to be provided.	1	Item			
13. .Drainage system to be pressure tested or ball-bearing/ CCTV tested to civil engineers requirements.	1	Item			
14. Draw ropes been left in all empty/ spare ducts and photographed/ recorded.	1	Item			
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<u>2. CONTRACT (Cont)</u>						
Commissioning Plan						
A	The Contractor shall prepare, maintain and implement a comprehensive Commissioning Plan in advance of Substantial Completion. The Plan shall set out the Contractor's approach to managing and delivering the commissioning process, including planning, coordination, testing, verification, demonstration, training and handover.	1	Item			
B	The Plan shall identify key activities, responsibilities, interfaces, sequencing with the construction programme and quality assurance measures necessary to demonstrate that all building services, systems and installations achieve the performance requirements of the Contract.	1	Item			
C	The Contractor shall coordinate all relevant subcontractors, specialists and members of the Design Team as necessary and shall update the Commissioning Plan throughout the Works to reflect progress and commissioning requirements.	1	Item			
D	Include all associated costs for the preparation, coordination and implementation of the Commissioning Plan where not included elsewhere.	1	Item			
Handover Video						
E	As part of project completion and handover, the Contractor shall produce a comprehensive handover video documenting the completed building. The video shall provide a clear visual and verbal overview of the building's key features, systems and operation, including principal building services, access arrangements, maintenance areas and safety systems.	1	Item			
F	The video shall be of professional quality and shall assist the Employer's operational and maintenance personnel in understanding the building layout, operation and principal maintenance requirements. The Contractor shall agree the proposed content and format with the Employer's Representative prior to filming and shall ensure that the information presented is consistent with the final Operation and Maintenance Manuals and other handover documentation.	1	Item			
G	The completed video shall be provided in a suitable digital format, including MP4 or other format agreed with the Employer's Representative.	1	Item			
H	Include all associated filming, editing, narration and production costs.	1	Item			
ADDITIONAL ENGINEERING PRELIMINARIES						
Site Investigation (To footprint of Existing Building following demolition & removal)						
J	Contractor to provide a site investigation to the footprint area of existing building, carried out by a specialist contractor in accordance with BS5930:1999 and Engineer's Ireland's Technical Specification for Ground Investigation in Ireland. Site investigation to include:	1	Item			
K	3No. trial pits	1	Item			

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<u>2. CONTRACT (Cont)</u>						
A	2No. bore holes	1	Item			
B	Site investigation report shall be issued within one week of the site investigation being completed. The report shall summarise all principal issues that arose and the associated response actions.	1	Item			
Testing and Samples						
C	The Contractor to include all costs associated with the summary of Testing and Samples outlined in the Engineer's Civil Engineering Specification included in Volume A Works Requirements.	1	Item			
Formation Levels						
D	- For all structures more than one storey or with a storey height exceeding 3m, the foundation formation levels shall be verified by way of bearing pressures.	1	Item			
E	- The design safe bearing pressures shall be as indicated on the Engineer's Drawings & Specification or issued otherwise.	1	Item			
F	- The Contractor shall engage the services of a competent Geotechnical Engineer to inspect and confirm the safe bearing pressures at the exposed formation levels. Tenderers should base their pricing on a minimum of 6 visits by a Geotechnical Specialist.	1	Item			
G	- The Contractor shall include the price of engaging the Geotechnical Engineer and any associated overhead costs. The submission shall cover such visits and extensions thereof as such is required for the certification of the works.	1	Item			
H	- Summary inspection reports shall be issued within two weeks of the substructure works being completed. The inspection reports shall summarise all principal issues that arose and the associated response actions.	1	Item			
J	- The Contractor shall also issue upon completion of the works, a representative batch of photographs covering the inspection of all principal locations.	1	Item			
Notifications						
K	- The Contractor shall notify the Employers Representative on dates for foundation inspections. The Employers Representative reserves the right to make independent inspections. Such notifications shall be issued in writing at least five working days in advance of such works.	1	Item			
L	- No claims for delays arising from this requirement shall be entertained. The Contractor in the pricing proposal shall include this in the programme of works and all the relevant or associated costs.	1	Item			
M	- Notification for unexpected ground conditions shall be issued in writing to the Employers Representative within 24 hours of them becoming apparent.	1	Item			

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<u>2. CONTRACT (Cont)</u>						
<u>Testing Requirements</u>						
Testing of Sewers, Drains & Watermains						
A	The Contractor to include all costs associated with the testing requirements for watermains and sewers as outlined in the Civil Engineering Specification included in Volume A Works Requirements	1	Item			
B	The phasing and the testing of Watermains & Waste Water networks in line with the phasing requirements of the site are to be agreed between Irish Water and the Contractor.	1	Item			
C	The Contractor shall refer to Sections 4.10 to 4.11 of the Irish Water 'Code of Practice for Waste Water Infrastructure' and include a cost herein for all works associated with testing of Foul Sewer.	1	Item			
D	The Contractor shall refer to Sections 4.10 to 4.15 of the Irish Water 'Code of Practice for Water Infrastructure' and include a cost herein for all works associated with testing of Watermains.	1	Item			
Testing of All Sub-Grade						
E	The dry density moisture content of the compacted sub-grade shall be determined by means of the BS standard Compaction Test (Proctor Test) as described in BS 1377:1990.	1	Item			
F	Control of field compaction by use of this method of testing requires frequent determination of the density and moisture content of the compacted soil and also measurements of the moisture content of the excavated soil to assess its suitability as filling material. BS 1377 gives a number of standard methods of measuring the dry density the two most commonly used being the sand replacement method and the core cutter method. By measuring the moisture content of a representative sample the dry density can then be calculated. Standard cylinder penetration tests on samples of subgrade shall be carried out in order to determine the C.B.R. (California Bearing Ratio) value. Soils having C.B.R. values of less than 2% shall be removed to tip and replaced by selected filling material.	1	Item			
Pyrite Testing Regime						
G	The contractor is to engage an independent testing company approved by the engineer (either Ground Investigations Ireland or IGSL or equivalent) to confirm that all the hardcore which has been supplied to the site is a suitable material with a negligible risk of swelling	1	Item			
H	The contractor to furnish proof by way of independent testing and certification that all the hardcore he is using passes the requirements of table 49, all other results are deemed failed.	1	Item			
J	The independent testing agency is to carry out the testing and provide a corresponding report confirming that all hardcore used on site is an acceptable material with a negligible risk of swelling.	1	Item			

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<u>2. CONTRACT (Cont)</u>				
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3. WORK BY NOVATED SPECIALISTS, SPECIALISTS, WORK BY UTILITY PROVIDERS AND WORK BY OTHERS ENGAGED DIRECTLY BY THE EMPLOYER					
3.1 Work by Novated Specialists and other Specialists A n/a					
3.2 Work by Utility Providers B Capital contributions to utility providers for the permanent connections and permanent supply (e.g Irish Water, ESB, Bord Gais, Eir, etc.) will be paid by the Employer.				1	Item
C The Contractor, however, will be required to organise and manage the implementation of such works, as if they were part of the contract works. In this regard, therefore the contractor must allow in his tender price, and in his programme of works, for liaising with the Employer/Employer's Representative and the outside body concerned, for giving adequate notice to the Employer to pay for this work, for giving all notices required, for ensuring that the work concerned is carried out at the appropriate time/times to enable him (the contractor) to carry out and complete the overall project works in compliance with his contractual obligation, and for meeting any reasonable managerial / supervisor requirements that may be asked of him by the parties involved in the process.				1	Item
D The capital contribution costs and all other costs associated with all temporary diversions and temporary connections and supplies required for completion of the Works shall be borne by the Contractor.				1	Item
E All Works in relation to utility installations & diversions are to be in accordance with the Works Requirements				1	Item
F The tender sum is to include for all costs in connection with water & sewer connections incl. all fittings. The contractor is responsible for coordinating timescale with all service providers e.g. Irish Water, Roads and other agencies such as ESB, Public Lighting Designers/Providers, Eir and to ensure that all necessary licences, agreements and permissions such as for water & sewer connections including road openings are in place prior to commencement of any works.				1	Item
G ESB Networks installation: as per the Electrical Engineer's ESB Networks site layout drawing and specifications included in the Works Requirements. All costs including supply to buildings, all necessary ducting, mini/micro pillars to be borne by Contractor. The contractor is required to liaise with the ESB and ascertain all ESB requirements prior to tender and include all costs in his tender.				1	Item

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3. WORK BY NOVATED SPECIALISTS, SPECIALISTS, WORK BY UTILITY PROVIDERS AND				WORK BY OTHERS ENGAGED DIRECTLY BY 1	BY 1
A	Site lighting installation: as per the Electrical Engineer's electrical services site lighting site layout drawings and specifications included in the Works Requirements. All costs including all necessary ducting, boxes, mini/micro pillars, lamp standards etc. to be borne by the contractor. All site lighting in compliance with ESB requirements, SEAI LED Lantern Specification for Public Sector Exterior Lighting .	1	Item		
B	Contractor to liaise with ESB and coordinate timescale for re-routing existing overhead power lines and underground power lines where applicable.	1	Item		
C	All electrical works to be in accordance with all relevant current legislation and statutory requirements and with ETCI and ESB standards including all necessary ETCI completion certificates for internal and external electricity wiring and other electricity installations. All electrical sub-contractors to be RECI or equivalent approved.	1	Item		
D	Eir installation: as per the Electrical Engineer's electrical services Eir site layout drawings and specifications included in the Works Requirements. All costs and supply to building to be borne by Contractor. Contractor is responsible for liaising and coordinating timescale with Utilities Personnel. All ducts, boxes and equipment to be supplied by contractor.	1	Item		
E	Irish Water: It is the responsibility of the main contractor to prepare and submit the Irish Water (IW) connection applications paperwork agreements and engage with all other stakeholders to ensure connections for all services are made within the project programme. It is the responsibility of the main contractor to agree and receive all connection applications agreements to ensure connections for all services and road opening licenses are obtained within the project programme.	1	Item		
3.3 Work by others engaged directly by the Employer					
F	The Employer intends to appoint contractors for the provision of loose furniture, IT end user equipment and other specialist services and specialist equipment and the Contractor will be required to facilitate the work of these Contractors as Artists and Tradesmen. Contractor to allow for providing facilities for these Contractors and for insurance indemnifying the Contractor against claims arising from such Employment.	1	Item		
The Contractor must provide:					
G	Special attendances	1	Item		
H	General attendances	1	Item		
J	Additional insurances	1	Item		
K	Storage	1	Item		
L	Positioning all equipment	1	Item		
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3. WORK BY NOVATED SPECIALISTS, SPECIALISTS, WORK BY UTILITY PROVIDERS AND WORK BY OTHERS ENGAGED DIRECTLY BY 1		
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3. WORK BY NOVATED SPECIALISTS, SPECIALISTS, WORK BY UTILITY PROVIDERS AND WORK BY OTHERS ENGAGED DIRECTLY Carried to Summary		
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<u>4. GENERAL FACILITIES AND OBLIGATIONS</u>						
<u>4. GENERAL FACILITIES AND OBLIGATIONS</u>						
A	Maintaining temporary works, adapting, clearing away and making good shall be deemed to be included with the following items Under 4. (General Facilities And Obligations). Notices and fees to statutory Authorities or Public or Private Utility Providers or Undertakings and related to the preceding items shall be deemed to be included with those items. No claims in this regard will be entertained whatsoever.	1	Item			
a) Supervision and co-ordination of the Works.						
Generally						
B	General: Accept responsibility for coordination, supervision and administration of the Works including Building Regulation Compliance, including subcontracts.	1	Item			
C	Coordination: Arrange and monitor a programme with each subcontractor, supplier, local authority and public service company/ authority. Obtain and supply information as necessary for coordination of the work.	1	Item			
"The building control process, in order to be effective, requires an Inspection Plan of appropriate intensity and frequency. However, it is not practicable for every item of work to which the Building Regulations relate to be examined. The supervision by the Builder is, therefore, of critical importance." - Code of Practice for Inspecting and Certifying Buildings or Works issued by the Department of the Environment Community and Local Government (February 2014)						
The Contractor shall;						
D	(a) accept from the Building Owner the assignment to build and supervise the building or works outlined in the Commencement Notice;	1	Item			
E	(b) familiarise themselves with the drawings, specifications and documents lodged with the Commencement Notice;	1	Item			
F	(c) ensure a competent person is assigned to oversee the Construction works;	1	Item			
G	(d) co-operate with the design team, the Assigned Certifier and other certifiers;	1	Item			
H	e) ensure that the workmanship complies with the requirements of the Building Regulations;	1	Item			
J	(f) ensure that materials which they select and for which they are responsible comply with the requirements of the Building Regulations;	1	Item			
K	(g) sign the Certificate of Compliance (completion);	1	Item			

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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
A	(h) provide to the Assigned Certifier, such documents for which they are responsible, as may assist the Assigned Certifier to collate particulars for the purposes of handover and certification, and/or for further submissions to the Building Control Authority;	1	Item			
B	(i) ensure the coordination and provision of all test certificates and confirmations to the satisfaction of the Assigned Certifier or other designated inspectors or certifiers providing Ancillary Certificates; and	1	Item			
C	(j) maintain records.	1	Item			
D	The Contractor is required to submit a method statement describing how they will ensure compliance with the Building Regulations. This will include:	1	Item			
E	The Provision of Certificates of Compliance with Building Regulations by the Contractor, with supporting certificates by all relevant specialists including Consultants, sub-contractors, suppliers, manufacturers and all relevant Contractors with a design element to their works in the form described in the Works Requirements , or where the requirement is set out in the Inspection Plan	1	Item			
F	In the method statement the Contractor must describe how they will ensure compliance with works on site including independent tests to be provided to confirm compliance with the Regulations	1	Item			
G	The method statement should confirm the Contractor's management system for ensuring compliance with the Building Regulations. The method statement should name the individuals on site, in the Contractors Organisation (and direct employment) who are responsible for supervising the works to ensure compliance with the Building Regulations and the Inspection Plan. This particularly applies for elements of repetitive work that may be concealed between site inspections. These elements include but is not limited to;	1	Item			
H	Foundations	1	Item			
J	Services below the slab	1	Item			
K	Continuity of radon barrier system using materials from one supplier only,	1	Item			
L	Continuity of radon barrier system and sealing around penetrations	1	Item			
M	Compliance of concrete with specified strengths.	1	Item			
N	The installation of all structural fixings	1	Item			
P	Steel connections, bolts, fixings	1	Item			
Q	That pre-cast concrete reinforcing has been correctly installed in the suppliers workshop prior to site delivery	1	Item			
R	Continuity of insulation with no gaps, including at jambs, corners, and at the base adjacent dpc / slab	1	Item			

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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
Supervision (See Clause 4 Management)						
A	The Contractor shall provide adequate supervisory staff (including a representative with full authority to act on behalf of the Contractor and a full time supervisor of all the Contractors activities on the Site required by Clause 4.2 of the Standard Conditions) on the site constantly to supervise and direct the work and to ensure the good progress of the various trades and sub Contractors and in their proper sequence for the completion of the Contract by the Date for Substantial Completion. The type and qualifications of this supervisory staff shall be approved before commencement of the work by the Employers Representative who shall be empowered to make reasonable demands as to qualifications in accordance with the extent and complexity of the work.	1	Item			
B	Include cost of all personnel as required by the conditions of contract.	1	Item			
C	Include cost of general foreman or foremen capable of managing both structural and finishes elements of the project or site agent as required by the conditions of contract.	1	Item			
D	Provide for all on and off site costs required for the supervision and co-ordination of all aspects of the works including the co-ordination of services and work of statutory bodies.	1	Item			
E	The Contractor shall give and provide all necessary personal superintendence during the execution of the works and for as long thereafter as the Employer's Representative may consider necessary. It shall include person(s) with first class experience in this type of work.	1	Item			
The Contractor must provide a team to complete the works and this team must include, at a minimum, the following personnel:						
F	i) Contracts Manager	1	Item			
G	ii) Site Engineer	1	Item			
H	iii) General Foreman	1	Item			
J	iv) Finishing Foreman	1	Item			
K	v) Services Co-ordinator	1	Item			
L	vi) BCAR Supervisor/ Coordinator	1	Item			
M	vii) COVID-19 Supervisor (s)	1	Item			
N	viii) Temporary Works Engineer	1	Item			
The Contractor shall include in this item for engaging the services of a competent temporary works designer whose functions shall include:						

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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
A	Organise and co-ordinate the design of all temporary works carried out by the contractor, his subcontractors and suppliers including specialist subcontractors and suppliers and his temporary works contractors and suppliers on the works	1	Item			
B	Act as a liaison with the Project Supervisor for the Design Process and the permanent and specialist works designers with respect to co-ordinating their design with that of the temporary works designers including co-ordinating and organising the exchange of necessary information between them for the completion of the design of temporary and permanent works and for the provision of necessary information on the relevant statutory provisions for the health and safety plan and the safety file	1	Item			
C	Provide temporary works design where required on the project unless already provided elsewhere by the contractor, his subcontractors, suppliers, and his temporary works subcontractors and suppliers	1	Item			
b) Plant, tools and vehicles						
D	The Contractor shall provide all and every kind of transport, plant, tools, hoists, cranes, vehicles and everything else necessary for the proper and expeditious completion of the Works and temporary works; also for all transport and freightage costs, charges and expenses necessary for the proper completion of the works. Labour, supervision, transport to and from the site and other things of every kind required for the construction, completion and maintenance of the works. The Contractor shall provide for all freightage charges, costs and expenses incidental to the complete performance of the Works unless special exemption shall have been made by the Employer.	1	Item			
The Contractor shall allow for:						
E	- bringing all such plant to site and removing on completion	1	Item			
F	- maintaining on site for the duration of the works.	1	Item			
Removal of Plant						
G	Plant / scaffolding etc. shall not be removed until so agreed by the Employer Representative and when ordered to do so it shall be removed expeditiously. Request for removal to be presented to the Employer Representative two weeks prior to the proposed removal date.	1	Item			

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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
c) Scaffolding						
A	Provide as necessary all general scaffolding, personnel hoists, working platforms, etc required for the execution of the works which shall comply with all applicable statutory requirements and current codes of practice, and be carried out by persons with current certification or registration cards in accordance with the Regulations.	1	Item			
B	Special scaffolding required by Contractor and Sub-Contractors.	1	Item			
C	Provide for scaffolding externally to all external elevations of the proposed building to eaves level for the duration of the contract.	1	Item			
D	Provide for enclosing all external scaffolding with propriety dust screening.	1	Item			
E	Provide for Bringing all scaffolding to site, erecting and removing on completion	1	Item			
F	Provide for Adjusting and maintaining all scaffolding on site for the duration of the works	1	Item			
d) Site administration including the provision and keeping of all statutory records.						
G	Provide site administration and security, including watching, lighting and protection during the progress of the works and be responsible for any damage occasioned by want of sufficient watching, lighting or protection.	1	Item			
H	All areas to be photographed prior to construction start and the photographs given to the ER ((in JPG format, compression level 8, Minimum 1800x1200 pixels @ 300dpi)) and agreed with the ER as a record of the true existing condition prior to construction start.	1	Item			
J	Provide all on and off site management including authorised agent (Contracts Director).	1	Item			
<u>Site Records</u>						
K	Provide for maintaining a full set of site records of all labour, materials and their deliveries and plant used on the works tot he approval of the Employer's Representative.	1	Item			
L	Provide for maintaining a full set of records of all site tests.	1	Item			
<u>Progress Records</u>						
M	Maintain an up-to-date record at bi-weekly intervals. Display progress on the site office copy of the progress chart.	1	Item			

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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
<u>Progress Meetings</u>						
A	The Contractor, or a responsible official from his organisation, shall attend progress meetings which will be held at fortnightly (as appropriate to the stage of the works) intervals. Inform such sub-contractors and suppliers as are necessary that their attendance at progress meetings shall be required.	1	Item			
<u>Valuations</u>						
B	Submit when applicable, up to date detailed claims and supporting documents in accordance with the Conditions of Contract	1	Item			
Method Statement and Construction Management Plan						
<u>The Contractor must provide, a minimum of one month, before start date for any section method statements for works in proximity to the school, for:</u>						
C	- fire safety	1	Item			
D	- Asbestos Management	1	Item			
E	- traffic management	1	Item			
F	- road cleaning	1	Item			
G	- compliance with planning conditions	1	Item			
H	- obtaining a road licence	1	Item			
J	- Building Services Integration, including tie-ins, and statutory suppliers / Local Authority supplies	1	Item			
K	- site security	1	Item			
L	- measures to mitigate impact on adjoining properties including housing	1	Item			
M	- Programming of the Works to include ordering of all materials, components, and equipment in good time to meet the programme requirements.	1	Item			
N	The method statement is also to include how work Sections are to be undertaken. The method statements should be co-ordinated with the construction management plan.	1	Item			
P	A detailed method statement shall be provided describing how the planning of the Works including pre-ordering of all materials including ceilings, flooring, furniture, kitchens, structural steels, roof-lights, new internal and external doors, and services routes and installations to facilitate a fully co-ordinated, effective and well planned Site start. This will include a detailed weekly programme and shall identify all necessary service tie-ins and shall be co-ordinated with the Building Services Integration Matrices.	1	Item			

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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
e) Security						
A	On obtaining possession of the site, the Contractor shall immediately fence the site and secure the contract work zone from trespass, with a hoarding as outlined in the Works Requirements and elsewhere in this document.	1	Item			
B	The Contractor shall maintain the site in a secure and orderly condition and must put into action a security system that prevents access by anyone other than authorised persons at ALL times throughout the construction project.	1	Item			
C	The contractor shall ensure that the site is made secure from trespass at times when it is not in operation and shall provide such fencing, hoardings, enclosures, lighting and watching necessary to ensure this. The contractor shall ensure in particular that all toxic and flammable material are secure and that all access to scaffolds or unprotected areas is restricted.	1	Item			
D	The contractor shall operate a sign-in. policy whereby all persons entering and leaving the site are required to sign in and out.	1	Item			
E	The contractor shall provide a flagman to safely direct vehicles onto, and off, the site.	1	Item			
F	Watching, lighting, hoarding etc. necessary for the protection of the public and for the protection of the site and the works against trespass and interference.	1	Item			
G	The contractor, when necessary, is to make arrangements with the Garda and Local Authorities to provide access for lorries, plant etc to and from the site and arrangements must be made to limit obstruction to general public and existing school traffic. The contractor shall comply with all Garda regulations	1	Item			
H	The contractor is responsible for safeguarding the works, materials and plant against damage and theft, including providing all necessary watching and lighting for the security of the works and the protection of the public	1	Item			
J	The contractor shall ensure that reasonable precautions to prevent workmen, including those employed by the subcontractors, from trespassing on adjoining employer's property or any parts of the site which are not affected by the works	1	Item			
f) Provision of clearly identifiable site perimeters and surroundings.						
K	Tenderers should note that all site accommodation, material storage, contractor welfare and car parking, set down, wheel-wash and all other facilities necessary to undertake the works are to be located within the construction site allocated area, the position of each are to be agreed with the ER prior to their implementation	1	Item			
L	The contractor will be deemed to have visited the site and ascertained the facilities of access thereto and the general convenience of working. He shall be taken to have acquainted himself with the nature of the soil and other features of the site, all existing buildings on or adjacent to the site and all other things insofar as they may have any connection with or affect the works	1	Item			

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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
A	The compound area is to be located within the boundary of the site in a suitable location. Such compound should be fully secure. The contractor shall provide all necessary hardstanding for site compounds, material storage areas and set-down areas, including all maintenance, repair, relocation as necessary during the works and removal on completion	1	Item			
B	The contractor must allow of the removal of all construction materials, debris, temporary hardstandings etc from the Site Compound and the reinstatement of the site compound area on completion of the works	1	Item			
g) Provisions for protection of the public from site operations and arrangements for protection of third parties and visitors to the site in accordance with all statutory requirements.						
C	Watching, lighting, hoarding etc. necessary for the protection of the public from site operations and all necessary arrangements for the protection of third parties and visitors to the site in accordance with all statutory requirements	1	Item			
h) Transport for work people.						
D	Provide all necessary transport to and from the site as required.	1	Item			
i) Protecting the works from inclement weather						
E	Effectively protect the works from inclement or unsuitable weather, including providing and fixing all necessary temporary coverings, screens, rainwater disposal systems and the like.	1	Item			
F	Water-proof and frost-proof coverings, temporary shelter, temporary drainage and any other necessary protection for this purpose	1	Item			
j) Water for the works.						
G	The contractor shall arrange for his own clean, fresh water for use on the works, pay all charges in connection therewith, provide all temporary storage, plumbing services, pipes, connections, taps, hoses, valves, stand pipes etc and clean away and make good on completion	1	Item			
H	The contractor shall note that Irish Water may not provide a temporary connection to the public system. The contractor shall allow for and provide measures necessary to deal with this restriction if it arises.					
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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
A	The Contractor shall allow for the site water supply being metered individually and metering system proposed being approved in writing by the Employer's Representative in consultation with the Building Services Engineer. The metering system, connections etc. proposed must also be in accordance with all current regulations, legislation and Health and Safety requirements. The Contractor must pay all costs and charges associated with these connections	1	Item			
B	The Contractor shall allow for all temporary plumbing work etc. necessary and shall make his own arrangements for the supply of water for the works.	1	Item			
C	Provide clean water for the works including the works of all sub-contractors, form temporary connections, provide services for distribution about the site and storage and pay all fees and charges in connection therewith.	1	Item			
k) Temporary lighting and power for the works.						
D	The contractor shall provide electricity for use on the works and pay all charges in connection therewith. The Contractor shall provide all artificial lighting and power for the works, provide for distribution about the site and all temporary connections, leads, fittings etc and clear away and make good on completion	1	Item			
E	It shall be the contractor's responsibility to ascertain the level of supply required by all his subcontractors and to have this available prior to them commencing work on site	1	Item			
F	The contractor shall note that ESB may not provide a temporary connection to the public system. The contractor shall allow for and provide measures necessary to deal with this restriction if it arises.					
G	The Contractor shall allow for the site ESB supply being metered individually and metering system proposed being approved in writing by the Employer's Representative in consultation with the Building Services Engineer. The metering system, connections etc. proposed must also be in accordance with all current regulations, legislation and Health and Safety requirements. The Contractor must pay all costs and charges associated with these connections	1	Item			
H	The Contractor shall be permitted to connect into existing utility services (if available) subject to each utility being metered individually and metering system proposed being approved in writing by the Employer's Representative in consultation with the Building Services Engineer. The metering system, connections etc. proposed must also be in accordance with all current regulations, legislation and Health and Safety requirements. The Contractor will be fully responsible for paying any fees, connection charges and costs associated with same.	1	Item			
J	The Contractor shall provide all necessary supplies of electricity and other services necessary for the execution of the Works, shall pay all charges in connection therewith and shall ensure that all temporary installations are made in a safe and proper manner and cleared away and made good upon completion.	1	Item			

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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
<u>Temporary Utilities (water, electricity, gas, telecommunications, etc.)</u>						
A	The Contractor shall be fully responsible in providing all the necessary utilities to complete the works in accordance with the Works Requirements. The Contractor's tender must include for all costs (connection fees, connection, standing charges, bills, disconnection, reinstatement), and for complying with all requirements.	1	Item			
I) Temporary roads, hardstandings, crossing and similar items.						
B	Contractor to provide site set-up, compound, parking and traffic route drawings.	1	Item			
<u>Temporary Access</u>						
C	Provide for access facilities to the site, including, if and where appropriate, forming or enlarging openings in boundaries and for making good on completion. The Contractor must visit the site and examine the drawings to ascertain his requirements in this regard.	1	Item			
<u>Temporary road, hardstandings, crossings and similar items.</u>						
D	Provide and maintain all necessary temporary roads and hardstandings, complete with adequate temporary drainage on and adjacent to the site as deemed necessary for the execution of the works, including the works of all sub-contractors; re-instate the ground on completion. No claims on the grounds of want of knowledge will be entertained whatsoever.	1	Item			
E	The contractor should note the restrictive nature of the site in this regard.	1	Item			
<u>Traffic Management</u>						
F	The Contractor shall at all times during the execution, completion and maintenance of the Works, keep open and free from obstruction, all existing footpaths and roadways, adjacent to or near the site. The Contractor shall also arrange to carry out the work in a manner that will cause the least possible interference with the flow of traffic on all roadways.	1	Item			
G	The Contractor must ensure that suitable mobility management measures are in place for its staff to prevent obstructive parking behaviour on nearby residential streets.	1	Item			
H	The Contractor shall submit a traffic management plan prior to commencement on site in order to set out proposal for flag men, traffic lights etc. to be agreed with the Employers Representative, after being assessed and approved by the PSDP & PSCS.	1	Item			
J	All works outside the hoarding to be agreed with the Employers Representative in advance	1	Item			

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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
<u>Car Parking</u>						
A	The Contractor shall make adequate provision for car parking for site operatives and shall require that all site operatives, whether his own Employees or those of subcontractors, park within his Contract Areas. Where the site area is too small the contractor must make alternative arrangements which do not involve parking in the surrounding streets, roads, or similar areas causing nuisance to residents and other users.	1	Item			
B	The Contractor shall note that no contractor parking will be permitted on the live school sites, outside the designated contract area.	1	Item			
<u>Parking facilities for Employer & Design Team</u>						
C	The Contractor shall provide a suitable area of hardstanding adjacent to the works and site hut for the parking of employers and Design Team cars. Suitable temporary roads shall be provided from the entrance to the site to the hardstanding carpark and these shall be suitably signposted. On completion of the contract all roads and hardstandings shall be removed as required and areas disturbed made good.	1	Item			
m) Temporary accommodation for the use of the Contractor.						
<u>Welfare Facilities</u>						
Provide all temporary sheds, shelters, storage for workmen's clothing, offices, meeting room, mess and rest room rooms and sanitary accommodation required for the Contractors own use and for use by sub-Contractors in compliance with the Regulations including:						
D	- Shelters and accommodation for clothing and taking meals.	1	Item			
E	- Changing rooms and lockers.	1	Item			
F	- Washing facilities	1	Item			
G	- Sanitary Conveniences	1	Item			
Provide, erect, maintain, adapt, move as and when required						

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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
A	Provide and maintain suitable temporary office accommodation for the use of the Contractor, subcontractors and other persons acting on behalf of the Contractor for the duration of the Works. The accommodation shall be adequately heated, lit, ventilated and furnished, and shall include all necessary desks, chairs, storage, electrical supplies and other facilities required for the proper management and administration of the Works. Provide suitable computer and IT facilities, including software necessary for viewing, reviewing and managing drawings and project information, together with reliable telephone/mobile and high-speed internet/Wi-Fi facilities. At least one office shall be provided with access to an A1 colour printer/plotter, suitable for printing drawings and other Contract documentation. Include all associated installation, connection, rental, usage, maintenance and running costs.	1	Item			
B	The Contractor should note that all drawings (including revisions) will be forwarded to site via e-mail and then the Contractor will be expected to print himself the appropriate number of copies required. The Contractor must include here for all costs associated with the foregoing	1	Item			
C	Provide suitable separate sanitary convenience(s) for the work people in an appropriate place on the site and to the approval of the Employer's Representative. They shall be maintained by the Contractor at all times in a clean and hygienic condition and removed on completion of the Works the site being made good and deodorized where necessary. The Contractor must provide these facilities within one week of commencing work.	1	Item			
D	Provide offices for the Contracts Managers, Foremen or Site Agents in charge of the works.	1	Item			
E	The contractor should note the restrictive nature of the site in this regard.	1	Item			
n) Temporary storage areas including suitable and separate storage for dangerous materials or substances.						
F	Store materials in a tidy manner. Separate different materials and protect them from dirt, physical damage, reaction with other materials marking or staining, micro organisms, mildew, fungus and vermin. Do not store materials in ways which may cause damage to the works, people or property.	1	Item			
G	Provide suitable temporary sheds, offices, messrooms, sanitary accommodation and other buildings required for the use of the Contract and remove on completion.	1	Item			
H	Suitable sheds for use of the work people and the storage of materials shall be provided by the Contractor, maintained during the progress of the work and removed on completion, the site thereof being made good. Stores for cement are to be watertight and are to have raised floors to the approval of the Employer's Representative.	1	Item			

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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
o) Temporary telephones for the use of the Contractor.						
A	Provide all Contracts Managers, Site Managers, Foremen, Site Agents and other key site personnel with suitable mobile telephone and electronic communication facilities necessary for the proper management and coordination of the Works. Include all associated equipment, service, usage and running costs.	1	Item			
p) Traffic regulations						
B	Provide all costs in complying with all traffic regulations affecting the Works, the Contractor shall comply therewith and shall be responsible for the observance of this condition by his sub-contractors.	1	Item			
C	The Contractor shall include for all necessary costs associated with the implementation of a traffic management system should he consider it necessary for the safe execution of works to be carried out. This should be considered especially but not solely for works in connection to the access and egress from the site.	1	Item			
D	The Contractors attention is drawn to the fact that during the school period, students will be passing the site entrance. The Contractor is to ensure that adequate supervision is in place at this area and that no vehicles obstruct this area	1	Item			
q) Welfare facilities for work people to be in compliance with the fourth schedule of the Safety Health and Welfare at Work (Construction) Regulations.						
E	Include herein for providing all Welfare facilities for work people, in compliance with the fourth schedule of the Safety Health and Welfare at Work (Construction) Regulations.	1	Item			
r) Safety Health and Welfare at Work provisions including items for the following:-						
F	i. The operation of the requirements of the SAFE PASS and CONSTRUCTION SKILLS CERTIFICATES schemes.	1	Item			
G	ii. Safety Officers and all safety supervisors, first aiders, inspectors and certifiers required.	1	Item			
H	iii. Tests and certifications on plant and equipment	1	Item			
J	iv. Safety signs and signals	1	Item			
K	v. Provision of Personal Protective Clothing and Personal Protective Equipment (PPE) for all, including full PPE for the Employers use for at least 6 visitors (including hats, vests, jackets, boots, etc.)	1	Item			
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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
A	vi. Provision and maintenance of emergency routes and exits and designated personnel responsible for emergency procedures	1	Item			
B	vii. Energy distribution installations	1	Item			
C	ix. Maintenance of appropriate working conditions and work stations	1	Item			
D	x. Provision and maintenance of on site traffic routes	1	Item			
E	xi. Provision of first aid equipment and first aid room as appropriate	1	Item			
F	The Contractor shall include here for any additional cost in relation to Health & Safety etc. arising from Volume A1	1	Item			
G	The Contractor shall comply in all respects with the Safety, Health & Welfare at Work Act, 2005 and with any relevant Statutory Instruments or Regulations issued thereunder. In particular, the Contractor shall comply in all respects with the Health, Safety & Welfare at Work (Construction) Regulations, 2013	1	Item			
H	The Contractor shall comply in all respects with the Factories and Safety in Industry Acts and any other Acts amending those Acts and with any Statutory instruments or regulations issued thereunder.	1	Item			
<u>Overhead Lines</u>						
J	The Contractor must ensure that adequate safety precautions are taken when working in the vicinity of overhead lines. These may include the provision of goal post type barriers on each side of the overhead line and the non-use of scaffolding or ladders within 10 meters of the overhead line.	1	Item			
<u>COVID-19 "Work Safely Protocol"</u>						
K	The Contractor shall include all costs associated with the requirements of the Work Safely Protocol (the "Protocol"), published jointly by the Department of Business, Enterprise and Innovation and the Department of Health in consultation with the Labour Employer Economic Forum on 9th May 2020.	1	Item			
L	(i) Augmenting site infrastructure and welfare facilities such as toilets, canteen, isolation spaces, and access, egress and circulation routes to meet the standards set out in the Protocol.	1	Item			
M	(ii) Providing cleaning to the standard required in the Protocol.	1	Item			
N	(III) Providing Covid-19 supervisor role(s) as necessary to meet the requirements of the Protocol.	1	Item			
P	(iv) Providing Covid-19 Personal Protective Equipment (PPE) to meet the requirements of the Protocol.	1	Item			
Q	(v) Ensuring social distancing to meet the requirements of the Protocol.	1	Item			
R	(vi) Any other measures/ operational procedures necessary to meet the requirements of the Protocol.	1	Item			
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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
A	The Contractor shall note, while it is expected that realistic prices will be included against preliminary items based on (i) to (vi) above, the Contract Sum will be deemed to include for the implementation of all measures - including hygiene, access management, materials procurement and delivery, work sequencing and work practices - required to construct the work safely and to minimise the risk of disease contagion for the Contractor's Personnel, the Employer's Representative, Employer's Personnel and third parties visiting the site.	1	Item			
B	The Contractor shall note, as the project involves an extension and/or alterations to an existing live school, additional precautions will be required in relation to Covid-19 to ensure the safety of students and school staff (e.g. if access is shared between the School personnel and Contractor's personnel, if Contractor's personnel are required to enter the school area, either internally or externally, for particular tasks, or if Contractor's personnel have to undertake works in the school after school hours). Such precautions would involve, at a minimum, maintaining social distancing between Contractor's personnel and School personnel, wearing of appropriate PPE and sanitising any work areas in the school on a daily basis in preparation for school activities on the following morning.	1	Item			
C	The Contractor's sole remedies for a Covid-19 Mandatory Closure shall be those stated in sub-clause 9.3 for a Delay Event under the Schedule Part 1K Event 15 and Site Closure Costs under Clause 14 of the Contract. The provisions of clause 10 shall apply in respect of any extension of time to the Date of Substantial Completion under sub-clause 9.3 for a Delay Event under the Schedule Part 1 K Event 15 and an adjustment to the Contract Sum for the Site Closure Costs under clause 14 in respect of a Covid-19 Mandatory Closure.	1	Item			
D	In the event of a Covid-19 Mandatory Closure there shall be added to the Contract Sum the Site Closure Costs for the period of the Covid-19 Mandatory Closure[s], excluding the first [7] days in total of the Covid-19 Mandatory Closure or where there is more than one Covid-19 Mandatory Closure, the Covid-19 Mandatory Closures.	1	Item			
E	The Site Closure Costs for the period of the Covid-19 Mandatory Closure[s] will be based on the Site Closure Costs Supplement (Model Form MF-1.31) as included in the Volume A.1 Project Particulars.	1	Item			
s) Disbursements arising from the employment of work people						
F	The Contractor shall allow for all payments to workpeople, including payments additional to the recognised Trade Union rates and emoluments and for the cost of any special working conditions, overtime working, site agreements or otherwise and for any additional costs involved to obtain workpeople or to bring workpeople from one area to another. All Contractors workpeople to be part of the CIF pension scheme. A signed declaration on compliance to the above, in the form of the Public Works Model Form 13 will be required from the Contractor, with each monthly progress application.	1	Item			

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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
A	No extra will be allowed where the working of overtime is made a condition of employment in any particular trade or is necessary to achieve the Programme. Claims for overtime will be entertained only when authorised, in writing by the Employer's Representative as an extra to the Contract.	1	Item			
B	Provide for all costs in respect of employing Work People.	1	Item			
C	None but fully qualified competent workpeople shall be employed on the Works and the Contractor shall furnish such evidence as the Employer's Representative may require as to the qualifications and competence of any work person. The Employer's Representative shall have the power to have dismissed from the site any work person who misconducts him/her self or who is incompetent or negligent. The Contractor shall be responsible for keeping all workpeople under his control and within the confines of the site.	1	Item			
D	The Contractor shall pay rates of wages in accordance with current CIF directions/recognised rates and minimum wages shall be paid in accordance with Government Directives.	1	Item			
E	Provide for all costs in respect of labour including costs of for example:	1	Item			
F	Social Welfare Acts	1	Item			
G	Conditions of Employment Acts	1	Item			
H	Insurance (Intermittent Employment) Act	1	Item			
J	Holiday (Employers) Act	1	Item			
K	Redundancy Payments Acts	1	Item			
L	Industrial Training Acts	1	Item			
M	Factories Act, Building (Safety, Health & Welfare) Regulations	1	Item			
N	Travelling time, expenses, fares, transport	1	Item			
P	Guaranteed time	1	Item			
Q	SOLAS Levy	1	Item			
R	Monitoring Agency Levy	1	Item			
S	Any other disbursements arising from the employment of labour	1	Item			
T	Non productive overtime and other expenses in connection with overtime	1	Item			
U	Incentive and bonus payments	1	Item			
V	Sick Pay Disbursements	1	Item			
W	Country Money	1	Item			

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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
A	Pensions	1	Item			
B	AnCo Levy	1	Item			
C	Working Rule Agreement	1	Item			
D	The Contractor shall adhere to the requirements of Clause 5.3.3 of the contract.	1	Item			
E	Give the Employer's Representative each week a daily return of the number and description of tradesmen and general labourers employed on the Works.	1	Item			
F	The Contractor shall maintain proper wage books and time sheets showing the wages paid and the time worked by all work people in the execution of the contract. Such wages books should show the PRSI number of each work person. The Contractor shall produce such wages books and time sheets whenever required for the inspection of any person authorised by the Employer	1	Item			
G	When the working of overtime is made a condition of employment in any particular trade no claim for extra payment will be allowed under this heading. Claims for overtime will not be entertained whatsoever	1	Item			
H	The contractor must include in his rates for all overtime deemed necessary to achieve the completion date	1	Item			
J	Persons engaged upon the Works should, insofar as practical and without affecting the efficiency of the work, be recruited from the local offices of SOLAS to the extent that the total labour requirement of the contract exceeds the contractor's core work-force	1	Item			
<u>Industrial Relations</u>						
K	The Contractor shall be responsible for ensuring a good industrial relations climate on site. He shall not hire any labour directly at the site.	1	Item			
L	In the event of a dispute arising, the Contractor shall take all precautions to avoid a strike situation and in the event of a strike taking place shall ensure that the main entrance is not picketed.	1	Item			
f) Maintenance of public and private roads						
M	The Contractor shall provide, maintain and remove all temporary pedestrian and vehicular access and egress arrangements required for the execution of the Works, in accordance with the Drawings, Planning Conditions, the Safety and Health Plan and all applicable statutory health and safety requirements. All access arrangements shall be maintained in a safe and serviceable condition for the duration of the Works.	1	Item			

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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
A	The Contractor shall provide, maintain and manage all traffic management measures required in connection with the Works, including measures necessary for users of the public roads and school-related traffic having regard to the phasing and sequencing of the Works. Suitably trained banksmen shall be provided at site entrances and exits where required, with priority afforded at all times to pedestrians and users of the public road.	1	Item			
B	The Contractor shall take all reasonable measures to minimise disruption to the surrounding road network, including, where appropriate, scheduling deliveries outside peak traffic and school drop-off/pick-up periods, managing construction vehicle routes to minimise disturbance to residential areas and existing schools, and coordinating with other construction activities in the vicinity. The Contractor shall liaise as necessary with the Local Authority, An Garda Síochána and other relevant bodies. Include all associated traffic management costs.	1	Item			
C	The Contractor shall keep all site access and egress points free from obstruction, mud and debris and shall maintain the adjoining areas in a clean and safe condition. Any roads, footpaths, verges, kerbs or other surfaces disturbed or damaged as a result of the Works shall be made good to the satisfaction of the Employer's Representative and/or relevant authority.	1	Item			
D	The Contractor shall comply with all Planning Conditions applicable to site access, traffic management, road maintenance and related activities forming part of the Works.	1	Item			
E	Prior to commencement of the Works, the Contractor shall undertake a photographic condition survey of all roads, footpaths, access points, boundaries and other areas which may be affected by the Works or construction traffic. The photographic record shall be submitted to and agreed with the Employer's Representative as a record of the existing condition prior to commencement. Photographs shall be clearly dated, referenced and provided electronically in a suitable high-resolution format.	1	Item			
F	The Contractor shall maintain all existing roads, footpaths and access routes affected by the Works and shall promptly make good any damage arising from construction traffic or site operations. The Contractor shall take all necessary measures to prevent mud, dust and debris being deposited on public roads and adjoining areas. Provide and maintain suitable wheel-washing facilities at site exits and mechanical road sweeping or other cleaning measures as necessary to maintain the adjoining public roads in a clean and safe condition.	1	Item			
G	Provide all temporary roads, haul roads, tracks, entrances, hardstandings, crossings and other temporary access arrangements necessary for execution of the Works. Upon completion, remove all such temporary works and reinstate affected areas to the required condition. The foregoing requirements are minimum requirements and shall be supplemented as necessary to comply with the Planning Conditions and requirements of the relevant authorities.	1	Item			

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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
u) Removing rubbish, protective casings and coverings and cleaning the works on completion						
A	Provide for removing from the site from time to time or as necessary and on completion of the works all rubbish, debris, surplus materials etc.	1	Item			
B	On completion leave the works clean and tidy and to the satisfaction of the Employer's Representative.	1	Item			
C	On completion of the Works and as and when directed by the Employer's Representative, the Contractor shall clear away and removed from the site all constructional plant surplus materials, rubbish and temporary works of every kind and leave the whole of the site and works clean and in a workmanlike condition to the satisfaction of the Employer's Representative.	1	Item			
D	The Contractor shall keep the site clean and tidy and make arrangements to the regular disposal of rubbish. The Contractor shall clean by brushing and hosing all walkways and roadways used by his crews and vehicles at least one per day and/or as often as necessary to keep the roadways free of dirt, dust and mud. Contractors will provide their own hoses and connections to water supply points approved by the Local Authority/Employer. The Contractor will be required to clear away any builders rubble, debris or waste upon completion of the the contract works and make good and reinstate to their original condition any areas disturbed during the course of construction.	1	Item			
E	Provide for removing all rubbish, protective casings and covering etc arising from his own or any of his sub-contractors operations from the site both as it accumulates from time to time and on completion.	1	Item			
F	Provide for clearing the building on completion, inside and out, removing stains and touching up paintwork and polished work, washing all floor and glass and leaving the whole of the works clean and fit for immediate occupation to the satisfaction of the Employer's Representative.	1	Item			
G	Clean the works internally and externally remove all rubbish and leave the entire works in a tidy condition ready for occupation or use.	1	Item			
H	Use cleaning material only as recommended by the relevant manufacturers and in the absence of such recommendations, the material and methods must be approved by the Employer's Representative	1	Item			
J	Remove all temporary markings, coverings and protective wrappings unless otherwise instructed	1	Item			
K	The contractor is to touch up minor faults, carefully matching colour and brushing out edges. Repaint badly marked areas back to suitable breaks of junctions	1	Item			
L	Adjust, ease and lubricate all doors, windows, drawers, ironmongery, appliances controls and other moving parts as necessary to ensure easy and efficient operation	1	Item			

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4. GENERAL FACILITIES AND OBLIGATIONS (Cont)			
v) Compliance with waste management statutory requirements			
<u>Waste Management</u>			
The Contractor must provide the Employer's Representative with a Waste Management Plan, in accordance with the Health and Safety Plan, prior to disposal of any materials.	1	Item	
The European Waste Catalogue and Hazardous Waste List includes bituminous mixtures containing coal tar under the classification of hazardous waste.	1	Item	
The Waste Management (Hazardous Waste) Regulations (2004) implement provisions relating to hazardous waste. The collection and transfer of Hazardous Wastes are governed by separate legislation this being the Movement of Hazardous Waste Regulations, 2004. These Regulations set down procedures to track and monitor the movement of hazardous waste and make the local authority in whose functional area the waste originates responsible for the supervision and control of the waste.	1	Item	
Disposal of hazardous waste can only be undertaken at a licensed hazardous waste facility. Transfer of the hazardous material off-site requires the Contractor to obtain a waste collection permit and a consignment note (C1 Form) from the local authority.	1	Item	
Materials excavated from the site shall unless expressly stated otherwise be removed from site and disposed of at a tip/waste facility to be provided by the Contractor. The contractor shall ensure that all waste is removed from site by approved waste disposal contractors to approved facilities. Details of the final destination of all waste shall be furnished to the Employer's Representative quoting the reference number of the Waste Collection Permit issued under the Waste Management (Collection Permit) Regulation 2004	1	Item	
The contractors attention is drawn to the document "Best Practice Guidelines for the Preparation of Waste Management Plans for Construction and Demolition Projects". The contractor shall take these guidelines as mandatory and included in his tender for complying with them in full	1	Item	
The Contractor shall prepare a Construction Environmental Management Plan (CEMP) to be submitted to the Planning Authority before the commencement of any works on site. This document shall be treated as a live document and held onsite at all times for inspection. The CEMP shall include but not be limited to operational controls of dust, noise and vibrations, construction traffic management, waste management, protection of soils and groundwaters, protection of flora and fauna, site housekeeping, emergency response planning, site environmental policy, environmental regulatory requirements and project roles and responsibilities. The CEMP shall also address extreme weather (drought, wind, precipitation, temperature extremes) and the possible impacts of receptors and mitigation of same. The CEMP shall be treated as a live document.	1	Item	
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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
A	The Contractor shall prepare a Construction & Demolition Waste Management Plan (CDWMP) for the proposed development and shall submit to the Planning Authority prior to commencement of any site activity. This document will be treated as a live document and be held onsite at all times for inspection. The CDWMP shall include but not be limited to project description, legislation requirements, demolition waste, construction phase waste, categories of construction waste, anticipated hazardous waste, non-construction waste, segregation of waste streams, estimated waste generated, hierarchy and adherence to same, roles and responsibilities and communication of WMP, details of recovery and disposal sites, details of waste hauliers, record keeping and documentation, waste audit procedures. The CDWMP shall be prepared in accordance with "Best Practice Guidelines on the Preparation of Waste Management Plans for Construction and Demolition Projects" (2006). The CDWMP shall also take cognisance of the current Regional Waste Management Plan in particular to the upper tiers of the Waste Hierarchy. All waste generated on site shall be recovered/ disposed of at an authorised facility and transported by an authorised collector. The CDWMP shall be treated as a live document and communicated to all relevant personnel.	1	Item			
B	All waste generated during construction, including surplus excavation material to be taken offsite, shall only be recovered or disposed of at an authorised site which has a current Waste Licence or Waste Permit in accordance with the Waste Management Acts, 1996 to 2008. All wastes shall be managed in accordance with the Resource and Waste Management Plan submitted to the Local Authority.	1	Item			
w) Drying the works						
C	The Contractor is fully responsible for drying out the works and for providing all the necessary plant or equipment to achieve this. The Contractor must included here for all costs associated with drying out the works. (The Contractors attention is drawn to his responsibility for the adequate drying of floors to receive new finish).	1	Item			
D	Provide all temporary equipment, fuel and attendance and dry out and control the humidity of the works to facilitate progress and to prevent damage to or deterioration of the works.	1	Item			
E	When the heating installation is complete, tested and ready for operation, the Employer's Representative may grant permission to the Contractor to make arrangement with the Heating Sub Contractor for the use of the permanent heating installation to dry and control the humidity of the works; the contractor shall meet all costs in connection with use of the permanent heating installation for such purposes including insurance, fuel supplied and current consumed and shall accept liability for damage, disturbance, wear and tear however arising from such use and the maintenance, reinstatement and making good to the satisfaction of the Employer's Representative; should the Contractor elect to use the permanent installation for the purposes described above this shall not affect nor diminish his responsibility to maintain suitable temperature and humidity levels.	1	Item			

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4. GENERAL FACILITIES AND OBLIGATIONS (Cont)			
The contractor shall ensure that the laying of the floors which are to receive finishes are programmed to afford adequate time for drying in accordance with the various specification requirements. Should the required relative humidity level not be reached, therefore not allowing the floor finishes to be laid in accordance with the manufacturers instructions, then the Contractor shall, at his own expense apply a liquid damp proofing membrane. This liquid damp proofing membrane is to be laid after written confirmation has been received from the floor finish supplier that they are in agreement to the use of such membrane and that the membrane will in no way affect the quality, finish, warranty and use of their product. This written confirmation is to be copied to the ER as soon as it is received from the supplier.	1	Item	
x) Temporary fencing, hoardings, gates, doors, screens, fans, planked footways, guardrails, gantries, floor, stair, roof edge protection, and protection of openings, safety nets and similar items			
Provide for maintaining all temporary fencing, hoardings, fans, planked footways, guard-rails, gantries and the like as may be necessary for protecting the public, for the proper execution of the Works and for meeting the requirements of any local or other authority, including all lighting.	1	Item	
An appropriate hoarding is to be erected on the entire length of the entrance road in order to provide a safe environment for pedestrians and motorists sharing the road with the contractor. The contractor should include here for all costs in this regard.	1	Item	
Advertisements shall not be displayed on the site without the consent of the ER.	1	Item	
Provide secure well marked temporary fencing, hoardings, planked footways, guard rails, as may be necessary to delineate the limits of the building site within the school area, to protect school personnel, members of the public and others, for the proper execution of the Works and to prevent unauthorised entry to or trespass beyond the boundaries of the site. The hoardings shall meet the requirements of the Local Authority.	1	Item	
The Contractor is required to submit their hoarding design, design risk assessment, and HSA Temporary Works Design Certificate to the Employer's Representative, and Employer's PSDP, for approval prior to commencing construction works on site.	1	Item	
The Contractor shall provide all temporary works items included in the Preliminary Health & Safety Plan - Refer to Appendix 3 of the ITT- Information Pack.	1	Item	
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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
A	The Contractor shall allow a cost herein if not included elsewhere for all temporary works required to enable the existing school to remain fully operational; include for all necessary temporary access roads, carparking, fencing, hoardings, fans, planked footways, guardrails, gantries, stairs, entrances, exits, lighting, data/ communications/ power/ fire alarm/ water/ heating links between existing building, temporary accommodation and new extension and anything else that will be required to maximise above operational requirements and ensure safety of college users and the public at large, for the proper execution of the works and meeting the requirements of any Local or other Authority; maintain and adjust all as necessary.	1	Item			
B	The Contractor shall provide fully weathered (fully flashed, independently drained), insulated, acoustically treated and fire rated partitions (60/60/60 fire rating and 50dBA acoustic separation) between the existing school and the new works in each location that an interface is required. These temporary partitions shall also prevent dust migrating from the construction area into the occupied schools. This may require to be placed in a number of locations over the course of the construction stage and may require different versions for different phases. When weathering has been completed, the acoustic and fire related element of these partitions will still be required until substantial completion. Contractor to include herein all costs associated with this requirement and the design of these temporary works.	1	Item			
y) Control of noise, pollution and compliance with statutory obligations						
<u>Noisy Work/Disturbance</u>						
C	Noisy demolition/structural work shall be carried out during working hours to be agreed with Employers Representative or at week-ends, e.g. core drilling, use of kango hammers and heavy drills. The contractor shall note the limitations on working hours.	1	Item			
D	The Contractor shall inform the Employers Representative at least one week in advance of his intention to carry out work of an excessively noisy nature.	1	Item			
E	Due to the close proximity of adjacent live school buildings to the works at a number of the site locations, the Contractor shall take all necessary measures to minimise noise levels. No radio or sound equipment is to be allowed on site.	1	Item			
F	The Contractor shall take all necessary measures to minimise noise levels when carrying out works in the vicinity and adjacent to the existing School buildings.	1	Item			
<u>Dust Control</u>						
G	All necessary measures must be taken by the Contractor to minimise / eliminate dust from the site by means of watering the works.	1	Item			
H	A construction management plan shall be submitted by the Contractor for the development which will include details of measures to be taken to minimise dust and noise disturbance.	1	Item			
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4. GENERAL FACILITIES AND OBLIGATIONS (Cont)			
<u>Reducing the Risk of Pest Infestation</u>			
The Contractor shall ensure that proposed building works shall protect against and not contain or provide harbourage for infestation by vermin or insects.	1	Item	
The Contractor shall ensure and take account of all provision of Digest 415 produced by the Building Research Establishment entitled "Reducing the Risk of Pest Infestations: Design Recommendations and Literature Review".	1	Item	
<u>Waste Water / Surface Water Run-Off</u>			
Surface water run-off associated with the development is not permitted to discharge onto adjoining lands.	1	Item	
The Contractor shall provide a method statement for the collection, treatment, disposal / discharge of waste and surface water from the site and water that may infiltrate the excavations. A large mobile centrifuge pump may be required to clean the water prior to its discharge. Waste water shall be discharged through the sewers.	1	Item	
<u>Vibrations</u>			
The contractor shall not allow vibration to emanate from the site and/or works which may cause nuisance to adjacent premises	1	Item	
Vibration monitoring should be carried out in accordance with ISO recommendations R1996/1, 2 & 3 "Description and Measurement of Environmental Noise" as appropriate. With regard to construction activities, reference will be made to BS 5228: Noise Control on construction and open sites, which offers detailed guidance on the control of noise and vibration from demolition and construction activities	1	Item	
<u>Pollution</u>			
Do not deposit deleterious material into surface water channels or lakes. Comply with the requirements of the Rivers Pollution Protection Act, the Public Health (Ireland) Acts and the Fisheries Acts.	1	Item	
<u>Clean Site</u>			
The site surrounds must be kept clean of debris, dust and materials at all times. Special attention should be paid to ensure a secure, safe and clean site on a daily basis.	1	Item	
The main roads, access roads and laneways will be in constant use throughout the duration of the works and these are to be kept clean of debris and materials at all times. A suitable wheel wash should be installed at site entrances and provision should be made for mechanised road cleaning as deemed necessary.	1	Item	
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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
z) protection of the works						
A	Provide all costs in accordance with protecting the Works.	1	Item			
B	All work shall be adequately protected during the Works by temporary casings or otherwise as required	1	Item			
C	Provide for carefully covering and protecting the works at all times against damage from inclement weather, impact or any other cause. The Contractor will also provide all necessary protection to prevent any damage to existing buildings, fences, gates, walls, roads, services, sewer pipes, tanks etc paved areas, trees, general planting and any other site features which are to remain in position during the execution of the works	1	Item			
<u>Safeguard Against Damage</u>						
D	Safeguard the site, the works, materials and plant against unauthorised entry, damage and theft. Make good any damage caused by ineffective protection. Provide watching and lighting necessary for the security of the works.	1	Item			
<u>Protection of Finished Work</u>						
E	Keep finished surfaces clean as work proceeds and protect from dirt, staining and physical damage. All new floor finishes to be covered with durable material until handover.	1	Item			
ADDITIONAL PRELIMINARIES						
<u>Statutory Obligations</u>						
F	The Contractor shall comply with all Statutory Regulations as they apply to the works, including the control of noise and pollution.	1	Item			
<u>General Attendance on Specialist Sub-Contractors</u>						
G	Provide General Attendances on Specialist Sub-Contractors, including the use of Contractors temporary roads, pavings and paths, standing scaffolding, standing power operated hoisting plant, the provision of temporary lighting and water supplies, clearing away rubbish, provision of space for the Sub-Contractors own offices and for the storage of his plant and materials and the use of messrooms, sanitary accommodation and welfare facilities.	1	Item			
<u>Site dimensions</u>						
H	Take all necessary site dimensions before any work is carried out; any discrepancy with figured dimensions on the drawings should be notified to the ER prior to works commencing	1	Item			
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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
<u>Contractor to take charge</u>						
A	Take entire charge of the building works until handed over to the Employer and be responsible for, and make good, all injuries and damages occasioned to the said works by causes over which the Contractor has control. He shall take the proper precautions to prevent such happenings and accept liability for all risks and hold the Employer harmless from any claims for injuries to persons, animals or things, or for structural damage to property happening from any neglect, default, want of proper care or misconduct on the part of the Contractor or anyone in his employment during the execution of the works.	1	Item			
B	The Contractor shall prevent trespass outside the boundaries of the site allotted to him either by those engaged upon or in connection with the works except by written permission of adjoining owners.	1	Item			
<u>Sub-Contractor's work and the like</u>						
C	Correlate the work of all the various Sub-Contractors to ensure proper progress in the appropriate order for completion of the whole project by the due date. Any additional costs caused by incorrect or insufficient information being given or by the Contractor not keeping Sub-Contractors informed of all alterations shall be borne by the Contractor.	1	Item			
D	Obtain full particulars from all Sub-Contractors of their requirements for chases, recesses, holes and other items of builder's work at an early stage and supply them with all necessary dimensions and other information so that subsequent cutting and alterations may be avoided. Any alterations caused by failure on the part of the Contractor to do this will be carried out at his own expense.	1	Item			
E	Obtain guarantees of materials and workmanship normally issued by a Sub-Contractor for periods in excess of the Contract Defects Liability Period and forward to the Employers Representative. The Contractor shall at his own expense perform any duties and carry out any work necessary to obtain such guarantees.	1	Item			
F	Obtain certificates of fire resistance for all fire-resisting doors and fire stopping materials and forward to the ER.	1	Item			
G	The Contractor is required to ensure that any electrical work is carried out by members of the Connect Union. A signed declaration of compliance to the above will be required from the contractor.	1	Item			
<u>Certificates of Substantial Completion</u>						
H	Prior to the issue of the Substantial Completion Certificates or at a later date (subject to agreement with the Employers Representative) the Contractor shall furnish Certificates of Compliance confirming that the works have been built in accordance with the requirements of the Building Regulations.	1	Item			

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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
<u>Modifications to Entrances</u>						
Contractor to make alterations to accommodate temporary access to and from existing schools, to include but not limited to:						
A	- All necessary grubbing up, levelling and disposal of existing road surfaces, island, paths and walls.	1	Item			
B	- Re-alignment of road edges to provide a safe entrance / exit to the schools.	1	Item			
C	- Provision of safe crossing points for pedestrians and cyclists.	1	Item			
D	- Provision of all necessary temporary safety/ directional signage to notify changes to the Public.	1	Item			
E	All material to match and tie in with existing.	1	Item			
<u>Protection of Trees</u>						
F	The Contractor shall include for providing special protection to all existing trees to be retained in accordance with the specifications and drawings.	1	Item			
<u>Setting Out</u>						
G	The contractor shall set out the Works and keep them correct. Opening up and excavation shall not be commenced until the Employer's Representative has inspected the setting out. The checking of any setting out or any line or level by the Employer's Representative shall not relieve the Contractor of his responsibility for the correctness thereof.	1	item			
H	All setting out is to Architect's Dimensions only.	1	item			
<u>Bench Marks</u>						
J	Establish a master bench mark on the site for the duration of the Contract.	1	item			
<u>Tolerances</u>						
K	Unless otherwise detailed on the drawings and specification the tolerances to be adhered to are those set out in the most recent publication of the Irish Building Specification Manual and Guidance Notes.	1	item			
<u>Measurements</u>						
L	Do not scale the drawings. Use dimensions figured on the drawings for setting out the works. Check all dimensions both on drawings and site, particularly the correlation between components and the work in place.	1	item			

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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
<u>Existing Levels</u>						
A	Signify in writing any disagreement as to the correctness of the existing ground levels, as indicated on the the drawings, before the commencement of the works and before the existing ground is disturbed.	1	item			
<u>Notice to Employer's Representative for Inspection</u>						
B	Before placing foundations, laying drains, filling trenches pouring reinforced concrete or otherwise proceeding work that will cover and conceal previous work, the Contractor shall give early notice in writing to the Employer's Representative and shall afford him an opportunity of inspecting the previous work. Approvals given at such inspections will not relieve the Contractor from full responsibility for the quality of the work throughout.	1	item			
<u>Notices</u>						
C	Give all notices required by any Local or Public Service Authority relating to the execution of the works.	1	item			
<u>Completion Date</u>						
D	Notify the Employer's Representative in writing of the date on which it is considered Substantial Completion has been achieved and have a date agreed and certified in writing by the Employer's Representative.	1	Item			
<u>Completion, Maintenance Instructions</u>						
E	Give to the Employer's Representative, at Substantial Completion, two hard copies and one cd copy of all manufacturer's suppliers or Sub Contractors maintenance instructions.	1	Item			
F	The Certificate of Substantial Completion will not be issued until all O&M Manuals, as-built drawings and CCTV footage of foul and surface drainage pipelines (including an accurate record on SUS 25 format for manholes and pipelines) are submitted to and approved by the Employer's Representative which manuals are to be submitted 10 days in advance of the Certificate.	1	Item			
G	Prior to the Certificate of Substantial Completion, the Contractor shall provide the Employer's Representative with full plans, drawings and details of the entire development as completed. These drawings and plans shall be in hard copy and digital format and be compatible with AUTOCAD.	1	Item			
<u>Making Good Defects</u>						
H	Make arrangements with the Employer's Representative and give reasonable notice of the precise dates for access to the various parts of the works for purposes of making good defects. Make good all such defects.	1	Item			

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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
<u>Access for Employer's Representative to Site and Workshops</u>						
A	The Employer's Representative and any person authorised by him shall at all reasonable times have access to the Works and to the site and to all workshops and places where work is being prepared or where materials, manufactured articles and machinery are being obtained for the Works and the Contractor shall afford every facility for and every assistance in or obtaining the right to such access.	1	Item			
<u>PRIVATELY & PUBLICLY OWNED SERVICES & SUPPLIES</u>						
B	The Contractor shall make arrangements with the Statutory Undertakers and others concerned, for the co-ordination of his work with all work which needs to be done by them or their contractors concurrently with the Works. Compliance with the periods of notice given does not relieve the Contractor of his obligations.	1	Item			
C	Private Services to individual properties have not generally been listed or shown on the drawings. The Contractor shall make arrangements with the Statutory Undertakers and others concerned for the phasing of all necessary disconnections and diversions of private services affected by the Works.	1	Item			
D	Disconnected apparatus can be removed by the Contractor only with the prior approval of the Authority concerned.	1	Item			
E	The Contractor shall carry out any trial pits required to determine the extent of these services. The Contractor should note that the exact extent of the works involved shall be dependent on the findings of trial hole operations.	1	Item			
F	All work on new and existing services to be in accordance with the specific requirements and carried out in the presence of an Inspector from the relevant Statutory Undertaker.	1	Item			
TRAFFIC SAFETY & MANAGEMENT						
<u>General Requirements</u>						
G	The Contractor must ensure that the personnel (Contractor and/or subcontractor) carrying out any works outside the boundary of the site have the relevant experience and are approved by Leitrim County Council and by the NRA	1	Item			
H	The Contractor shall comply with the requirements of Traffic Signs Manual - Chapter 8 - Temporary traffic measures and signs for Road works" Department of Transport, November 2010 and Guidance for the control and management of Traffic at Road works - Department of Transport, NRA and Local Government Management Services Board, November 2010.	1	Item			
J	The Contractor's Temporary Traffic Management Designer shall prepare a Detailed Temporary Traffic Management Plan for all locations where works are planned on any Public Road. The Detailed Temporary Traffic Management Designs shall be prepared in accordance with Traffic Signs Manual Chapter 8 (2008 revision) and the Design Process Traffic Management Plan.	1	Item			

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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
A	The Operational Traffic Management Plan is prepared by the PSCS through further assessment and development of the Detailed Temporary Traffic Management Plans. The PSCS shall coordinate the implementation of the developed traffic management plan during the works and the Contractor's Temporary Traffic Operations Supervisor should oversee the implementation of the traffic management plan and should immediately notify the PSCS of any problems with the plan.	1	Item			
B	Traffic Management Designer (TMD) - The TMD is a member of the Engineers Design team who is responsible for designing the Design Process Traffic Management Plan	1	Item			
C	Temporary Traffic Management Designer (TTMD) - The TTMD is appointed by the Contractor and is responsible for the Design of the Detailed Temporary Traffic Management Plan.	1	Item			
D	Temporary Traffic Operations Supervisor (TTOS) - The TTOS is appointed by the Contractor and shall have direct responsibility for the implementation of the Operational Traffic Management Plan during construction, including, installing, maintaining, modifying and removing the temporary traffic management arrangements.	1	Item			
E	The Contractor shall consult all interested parties, including (but not limited to) the IDA, Garda Siochana and the Local Authority with respect to traffic management proposals. The Contractor shall submit his proposed Operational Traffic Management Plan for approval by the Engineer and the Local Authority before commencing any works on site. The Contractors programme of work shall allow two weeks for approval by the Local Authority of the Operational Traffic Management Plan and shall allow in his programme for other time limits specified in this Specification	1	Item			
F	The Guidelines as specified in the current Department of Transport Traffic Signs Manual, Chapter 8 should be used in conjunction with the Design Process Traffic Management Plan for signage, layout of road works and traffic management. This Section sets out the additional requirements over those stated in the Department of Transport Traffic Signs Manual, Chapter 8.	1	Item			
G	Where the Works are on or adjacent to Public Roads or Streets, the Contractor shall first view the Works from as many directions as traffic shall approach, plan his work sequence and his proposed traffic layout and then select the type of control devices. A full list of sign and device requirements shall be established before any site works commence.	1	Item			
H	The operational traffic management plan should include the following information as a minimum. Drawings/schedules indicating traffic management layout including the following as appropriate:	1	Item			
J	Phasing of works at each location	1	Item			
K	Geometric design	1	Item			
L	Extent of existing trafficked road being interfered with,	1	Item			
M	Position of traffic signals/signalment	1	Item			
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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
A	Working areas	1	Item			
B	Width of Lanes	1	Item			
C	Barriers	1	Item			
D	Safety zones	1	Item			
E	Provision for pedestrians	1	Item			
F	Access and exit locations for construction	1	Item			
G	Provision for emergency services	1	Item			
H	Timing of Operations	1	Item			
J	Road Lighting/ Temporary Lighting	1	Item			
K	Routes of proposed diversions	1	Item			
L	Road Signage, Cones, Temporary Marking, etc.	1	Item			
M	The Contractor may prepare and submit to the Engineer for his approval revisions to the Operational Traffic Management Plan during the course of the Works. The Operational Traffic Management Plan and revisions to that plan shall be submitted at least 7 days prior to the date on which the Contractor proposes to implement any element of the plan. The Contractor shall not commence any work, which affects vehicular, pedestrian or cycle movements without the prior written approval of the Engineer to the proposed Operational Traffic Management Plan. The Contractor shall regularly review the Operational Traffic Management Plan measures and prepare alternative plans where he considers it necessary or desirable to alter those measures. The Contractor shall not implement any alterations or revisions to the Operational Traffic Management Plan measures without the prior written consent of the Engineer.	1	Item			
N	The plan shall indicate traffic lane closures where required for the safe construction of the works or for the safety of personnel involved in construction activities and alternative arrangements for routing traffic. The plan shall be presented with a written description setting out the proposed sequence of traffic management measures and associated construction activities. The plan shall have regard to any concurrent Traffic Safety and Control measures in use adjoining or in close proximity to the proposed Works.	1	Item			
P	The Contractor shall submit with this Traffic Management proposals, full details of the timings of all operations. Such details will require the approval of the Engineer and An Garda Síochána.	1	Item			
Q	The 'Traffic Control Area' shall be the area between the 'Roadworks Ahead' sign and the 'Roadworks End ' sign at each end of Works.	1	Item			
R	The 'Work Area' shall be the overall area of the Highway within which the works are executed.	1	Item			
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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
A	The Contractor shall cover (in a manner approved by the Engineer) and uncover all existing signs and temporary signing which become inaccurate as a result of the introduction of any traffic management measure.	1	Item			
B	When directed by the Engineer or An Garda Siochana the Contractor shall:	1	Item			
C	(a) remove loads or debris which have accidentally fallen onto the operational Traffic lanes within the Traffic Control Area, from whatever source	1	Item			
D	(b) accommodate the routing of abnormal loads through the Traffic Control Area	1	Item			
E	Under such circumstances the Contractor shall submit to the Engineer within 48 hours a full record of the plant, labour and materials used in the operation.	1	Item			
F	Any damage caused to the carriageway as a result of the establishment or removal of traffic safety and control measures shall to be made good to the satisfaction of the Engineer at the Contractors Cost.	1	Item			
G	The Contractor shall ensure that carriageways and footways are swept clean before being opened to traffic. This includes prior to the establishment of any traffic control phase.	1	Item			
H	Any permanent road markings damaged during any traffic control phase shall be replaced or brought back to the specified standard.	1	Item			
J	Meetings to discuss the schemes of Traffic Management shall be held as required by the Engineer between the Contractor and An Garda Siochana. The Contractor shall be responsible for co-ordinating these meetings.	1	Item			
K	Traffic Signs and Management Apparatus	1	Item			
L	Traffic signs shall not be erected on scaffolding.	1	Item			
M	The Contractor shall ensure continuous inspection of all traffic control equipment in use and replace any defective equipment as soon as practicable. An adequate supply of replacement equipment shall be available at all times.	1	Item			
N	The Contractor shall keep clean and legible at all times all traffic signs, cones, road markings, barriers and lamps and ensure that all equipment is in its correct position at all times.	1	Item			
<u>Notice Requirements</u>						
P	Minimum notice required by the Local Authority to consider a Contractor's application (on appropriate pro-forma and with plans where necessary) for:-	1	Item			
Q	(i) Amending or making traffic orders - 8 weeks	1	Item			
R	(ii) Authorising of non-prescribed signs - 1 week	1	Item			
S	(iii) Authorising temporary traffic signals - 7 working days	1	Item			
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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
A	(iv) Moving signs to be compatible with the state of the Works - 4 working days	1	Item			
B	The Local Authority will invoice the Contractor for current charges in respect of work of (i) and (iv) as a result of his applications. Such costs are not reimbursable under the Contract.	1	Item			
C	Applications for (i) must provide:	1	Item			
D	Names of Roads	1	Item			
E	Details of alternative routes being suggested	1	Item			
F	Accurate description of sections to be closed	1	Item			
G	Periods of required closure, terminations, traffic directions, times of operation	1	Item			
H	Details of access availability for frontages, emergency services, pedestrians, construction traffic, other purposes	1	Item			
J	All illustrated with suitable plans.	1	Item			
K	For the purpose of (i), (ii), (iii) and (iv) above, the appropriate Authority is Leitrim County Council.	1	Item			
<u>ROUTING OF VEHICLES</u>						
Permitted Access Routes to and from the Site						
L	The permitted access route to and from the site shall be as indicated on the Architect's drawings. Any other route to and from the site shall be prohibited, without prior written approval of the County Council and the ER	1	item			
M	The Contractor shall erect adequate signing to the permitted access point, and take any other measures necessary to ensure that vehicles are properly routed to and from the site.	1	Item			
N	All signing shall comply with the traffic signs regulations and general directions.	1	Item			
P	The use of Permanent Works by Construction Traffic	1	Item			
Q	Sub-formation:	1	Item			
R	The Contractor shall take suitable measures to protect the sub-formation when used by the construction traffic. The Contractor shall provide details to the Engineer of his method of protection prior to bringing any area of sub-formation into use by construction traffic. These details shall include the loading on the layer, the material to be used, the thickness and width of the layer and calculations to support the choice of any of these parameters.	1	Item			

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4. GENERAL FACILITIES AND OBLIGATIONS (Cont)			
<u>Sub base:</u>			
The Contractor shall take suitable measures to protect the sub-base when used by construction traffic. The Contractor shall provide details to the Engineer of his method of protection prior to bringing any area of sub-base into use by construction traffic.	1	Item	
Where this is to be an over-thickening of the sub-base the Contractor shall provide calculations to support the choice of the depth of thickening which he has chose to use to protect the sub-base. The thickening shall extend across the full width of the carriageway.	1	Item	
<u>Substances Hazardous to Health</u>			
The Contractor shall take appropriate measures to prevent injuries from substances hazardous to health which include:	1	Item	
(i) Culvert and waterproofing agents	1	Item	
(ii) Paints	1	Item	
(iii) Any dust in substantial concentrations	1	Item	
(iv) Excavated contaminants	1	Item	
(v) Working adjacent to live foul sewers	1	Item	
Nothing contained in these Preliminaries shall relieve the Contractor of his obligations under the Contract.	1	Item	
<u>Measures to be taken to Protect Members of the Public</u>			
The Contractor shall advise the Engineer of the measures he proposed to take to safeguard the general public and the owners and occupiers of property adjacent to the Works, from the effects of hazardous materials.	1	Item	
<u>Hazardous Materials</u>			
Should hazardous materials be discovered during the course of the works they shall be dealt with by the contractor. The site shall be secured and protected and arrangements for disposal to a licensed tip shall be agreed with County Council prior to any disposal taking place.	1	Item	
Under the guidance of an environmental consultant, the main contractor shall carry out characterisation of the soil in accordance with the 2015 EPA Guidelines "Waste Classification List of Waste & Determining if Waste is Hazardous or Non-hazardous", in addition to WAC testing to determine what facility the waste can go to.	1	Item	
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<u>4. GENERAL FACILITIES AND OBLIGATIONS (Cont)</u>						
COLLECTION						
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MAIN EXTENSION

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<u>(19) SUBSTRUCTURE</u>						
<u>SECTIONAL COMPLETION</u>						
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item			
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item			
<u>NOTES</u>						
C	1. When pricing the following items the Contractor's attention is drawn to the location of the site. The Contractor should also visit and check the site. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.		note			
D	2. Please refer to Consulting Engineers and Architect's Specification and Drawings		note			
E	3. In exceptional cases where it has not been possible to specify a generic element and a specific product has been named, an equivalent product to that specified is acceptable where it meets the technical, functional and aesthetic standards of that specified: the onus is on the contractor to ensure that an equivalent product to that specified meets the standard by means of an agreement cert, insurance backed guarantee or warranty, detailed specifications, fire test certificates where applicable, brochure and other means of proof of compliance. Notwithstanding this, the appropriate foregoing documentation and samples are to be provided to the architect prior to being incorporated into the construction		note			
<u>EXCAVATION AND EARTHWORK</u>						
Ground Investigation						
<u>Excavation; refer to structural specification ref "20-120 CHH C & S Specifications" and site investigation report ref "GI Report" for additional requirements</u>						
Trial holes						
F	Allow for excavating trial pits	6	nr			
Bore holes						
G	Allow for bore holes driving, lining or capping as required	4	nr			

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<u>(19) SUBSTRUCTURE (Cont)</u>						
Excavation						
<u>Excavation; refer to structural specification ref "20-120 CHH C & S Specifications" and site investigation report ref "GI Report" for additional requirements</u>						
Foundation Pits						
A	Depth not exceeding 2.00m	320	m3			
Foundation Trenches						
B	Depth not exceeding 2.00m	297	m3			
Soft spots						
C	Depth not exceeding 2.00m	30.85	m3			
<u>Extra on Excavation Items for:</u>						
Below Ground Water Level						
D	Generally	97.18	m3			
Around Existing Services						
E	Eircom; parallel to excavations	25	m			
F	ESB; parallel to excavations	25	m			
G	Watermains; parallel to excavations	25	m			
H	Street Lighting; parallel to excavations	25	m			
J	Gas Main; parallel to excavations	25	m			
K	Eircom; crossing excavations	10	nr			
L	ESB; parallel to excavations	10	nr			
M	Watermains; parallel to excavations	10	nr			
N	Street Lighting; parallel to excavations	10	nr			
P	Gas Main; parallel to excavations	10	nr			
Breaking up existing						
Q	Rock; include for all necessary trimming	32.39	m3			
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<u>(19) SUBSTRUCTURE (Cont)</u>					
<u>Working Space</u>					
Foundations Pits					
A	Depth not exceeding 2.00m; backfilling trenches with Annex E of SR 21 hardcore	725	m2		
Foundations Trenches					
B	Depth not exceeding 2.00m; backfilling trenches with Annex E of SR 21 hardcore	687	m2		
<u>Disposal</u>					
Water					
C	Surface	1	item		
D	Ground	1	item		
Excavated material; All surplus materials to be disposed of off-site to a licensed waste disposal facility granted by the EPA under Section 40 of the Waste Management Act or by the Local Authority under the Waste Facility Permit Regulations					
E	Disposal off site; Disposal to a suitable licensed waste disposal facility; to pits	320	m3		
F	Disposal off site; Disposal to a suitable licensed waste disposal facility; to trenches	297	m3		
G	Disposal off site; Disposal to a suitable licensed waste disposal facility; to soft spots	30.85	m3		
<u>Filling with blinded and hardcore compacted fill to be obtained off-site; in compliance with SR21 2014 & A1 2016 installed and compacted in layers in accordance with IS888:2016; depositing in 150mm layers maximum thickness; compacting</u>					
To make up levels					
H	Average thickness exceeding 250mm	616	m3		
<u>Surface Treatments</u>					
Blinding filling; 'T3 Blind' in compliance with SR21 2014 & A1 2016; compacting					
J	Generally; 50mm thick	906	m2		

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<u>(19) SUBSTRUCTURE (Cont)</u>					
<u>EXCAVATION AND EARTHWORK</u>					
<u>Underpinning</u>					
<u>Temporary support to existing foundation and wall structure; all as per drawing no 20-120-S-01</u>					
Temporary Support					
A	To existing structures	1	item		
<u>Preparation</u>					
Removing existing projecting foundation					
B	Access from both side; concrete	1	Item		
Surface of existing work to receive new support					
C	Generally	1	Item		
<u>Excavation</u>					
Under Existing Structure					
D	Depth not exceeding 2.00m	26	m3		
E	Depth between 2.00-4.00m	44	m3		
<u>Working Space</u>					
Under Existing Structure					
F	Depth not exceeding 2.00m; backfilling trenches with clause 804 hardcore compliant with SR21 IS.EN 13242:2002	31	m2		
G	Depth between 2.00-4.00m; backfilling trenches with clause 804 hardcore compliant with SR21 IS.EN 13242:2002	46	m2		
<u>Underpinning</u>					
Lean mix backfill around existing foundation and wall structure; as per underpinning section and detail shown on Drawing No 20-120-S-01, 20-120-S-02, 20-120-S-10, 20-120-S-11 and 20-120-S-14					
H	736mm Wide x 359mm Deep; as per section 1-1 on 20-120-S-10	9	m		
J	1290mm Wide x 1043mm Deep; as per section 11-11 on 20-120-S-14	4	m		
K	Irregular shaped; as per section 2-2 on 20-120-S-11	7	m		

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<u>(19) SUBSTRUCTURE (Cont)</u>					
<u>Filling</u>					
Imported Material					
A	Filling with sand:cement dry mix to be obtained off-site; shall be well rammed into position and extending through the entire width of the existing wall/ foundation; complete all as per underpinning detail on drawing no 20-120-S-01	33	m3		
<u>CONCRETE WORK</u>					
In-situ Concrete					
<u>Concrete cubes for testing</u>					
Provide for making sampling and testing procedures shall comply with IS EN 12350 Testing Fresh concrete; transporting and testing cubes; all as per details in Engineer's Concrete Specification Section-3					
B	Size 150 x 150 x 150mm	447	nr		
<u>Mass concrete to underside of existing foundation; Concrete Grade: C20; Location: Mass Concrete underneath existing foundation and wall structures; All as per structural specification 20-120 CHH C & S Specifications and Engineer's Drawing 20-120-S-01 and 20-120-S-11</u>					
Bulk Filling; mass concrete underpinning					
C	Generally; poured on or against earth or unblinded hardcore	33	m3		
<u>Blinding/Lean mix concrete; Mix reference: C12/15; nominal maximum aggregate size: 20mm (I.S. EN 206); refer Engineer's Specification for additional requirements</u>					
Bulk filling under foundations					
D	Generally; poured on or against earth or unblinded hardcore	434	m3		
Bulk filling to soft spots					
E	Generally; poured on or against earth or unblinded hardcore	30.85	m3		

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(19) SUBSTRUCTURE (Cont)						
In-situ Concrete; Reinforced						
<u>Structural Concrete; Mix reference: Concrete grade: C28/35 XC2 (IS. EN. 206) ; nominal maximum aggregate size: 20mm; additions complying with: The quality of materials and the standard of workmanship for the reinforced concrete shall comply with the relevant clauses of I.S. EN1992-1-1:2004 AND I.S. EN206-1 in regard to all requirements not otherwise described in this specification. The most recent published versions of the relevant standards apply; refer Engineer's Specification Section-3 for additional requirements</u>						
Foundations						
A	Generally; Reinforced	183	m3			
Beds						
B	Exceeding 150mm; reinforced	40	m3			
C	<u>Extra over</u> for forming recess in concrete for matwells; recessed 20mm	38	m			
D	<u>Extra over</u> for forming recess in concrete for shower drainage; recessed 50mm to accommodate shower drainage	21	m			
Columns						
E	Cross-sectional area not exceeding 0.10m2; Reinforced	11	m3			
<u>Floor screed; Grade: C28/35, XC1 to IS EN 206; approved concrete mix with a minimum characteristic strength of 35N/mm2 unless otherwise noted. The maximum aggregate size shall be reduced to 10mm; refer Engineer's Specification Section-3.26</u>						
Other Items; Floor Screed						
F	100mm thick; to falls; reinforced	64	m3			
Sundries on In-situ Concrete						
<u>Designed Joints; refer Engineer's Drawings and Specification</u>						
Isolated Joint (IJ); approved joint sealant; 20mm thk, Compressible Filler board with 20mm Polysulphide Sealant; all in strict accordance with Detail on Engineer's Drawing 20-120-S-04						
G	Width not exceeding 150mm; Depth 150 - 300mm	523	m			
Existing to Proposed Slab Connection Joint; 60x6mm Joint along with 20mm dowel bars 600mm long at 300 c/c's with debonding sleeve; all in strict accordance with Detail on Engineer's Drawing 20-120-S-04						
H	Width not exceeding 150mm; Depth 150 - 300mm	18	m			

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(19) SUBSTRUCTURE (Cont)					
Expansion Joint (EJ); approved joint sealant; 20mm thk, Compressible Filler board with 20mm Polysulphide Sealant along with dowel bars 20mm dia, 550mm long at 300 crs one half of bar to be coated with debonding compound; include for dowel cap, end filled with compressible material; all in strict accordance with Detail on Engineer's Drawing 20-120-S-04					
A	Width not exceeding 150mm; Depth 150 - 300mm	22	m		
<u>Surface Finishes</u>					
Powerfloating					
B	Generally	906	m2		
Towelling					
C	Tops of foundations	415	m2		
D	Tops of columns	7	m2		
Reinforcement					
<u>Bar reinforcement; Hot rolled high yield steel bars shall comply with IS EN 10080:2005 and BS 4449:2005 except that no bar shall contain a flash weld. All bars shall be cut and bent in accordance with BS 8666:2005; must be free of loose millscale and thoroughly cleaned to remove all loose rust, oil, grease or other harmful matter prior to being placed in position with and including all necessary laps, spacers, chairs and tying wire; all in strict accordance with the Engineers Drawings; refer to Engineer's Specification Section 3.20</u>					
Bar; straight or bent					
E	Nominal size not exceeding 12mm diameter	3.87	†		
F	12mm - 25mm diameter	7.45	†		
<u>Steel fabric reinforcement shall conform to IS EN 10080:2005 and BS 4483:2005 (Grade B500A, B500B or B500C) and shall be cut and bent in accordance with BS 8666. Steel fabric reinforcement shall have a minimum nominal bar size of 6 mm (8 mm for Grade B500A) and shall be obtained from a firm holding a valid CARES (or fully equivalent scheme) certificate of approval for the production and supply of steel fabric reinforcement; all in strict accordance with the Engineers drawings and Engineering Specification Section 3.20</u>					
Reference A142 - 2.22 kg/m2; 400mm side laps; 400mm end laps					
G	Horizontal; at top and bottom	906	m2		
Reference A393 - 6.16 kg/m2; 400mm side laps; 400mm end laps					
H	Horizontal; 1No. layers bottom	228	m2		

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<u>(19) SUBSTRUCTURE (Cont)</u>						
Formwork						
<u>Formwork; Design and construction of falsework and formwork shall be in accordance with BS 5975:2008; All as per accordance with Engineer's Drawings and Specification Section 3.9</u>						
Sides of foundations						
A	Height or width 250-500mm	180	m			
Sides of pad foundations						
B	Height or width exceeding 500mm	250	m2			
Sides of foundations for trench fill						
C	Height or width exceeding 500mm	995	m2			
Edges of Beds						
D	Height or width not exceeding 250mm	181	m			
Sides of upstands and steps in top surfaces						
E	Height or width not exceeding 250mm; for step in foundations	10	m			
F	Height or width between 250-500mm; for step in foundations	13	m			
G	Height or width not exceeding 250mm; for 20mm recess for matwells	38	m			
H	Height or width not exceeding 250mm; for 50mm recess for shower drainage	21	m			
J	Height or width exceeding 500mm; for step in foundations	3	m2			
Columns						
K	Isolated; rectangular; height not exceeding 4.00m; cross sectional area not exceeding 0.10m2; Columns	148	m2			
L	Isolated; circular; height not exceeding 4.00m; cross sectional area not exceeding 0.10m2; Columns	2	m2			
Kickers						
M	Column; rectangular	72	nr			
N	Column; circular	1	nr			

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<u>(19) SUBSTRUCTURE (Cont)</u>					
Precast Concrete					
<u>Design, supply and install precast slab units; in accordance with the specification and all relevant Standards to support dead loads & superimposed loads as Engineers details; including all fixings, angles, bolts and the like as necessary to attach to surrounding structure; all joints between precast concrete units to be grouted with and including concrete as a separate operation prior to placing of RC topping (RC topping measured elsewhere); all in strict accordance with the Engineers Drawing & Engineering Specification Section-4</u>					
Floor slabs; 200mm thick					
A	Span not exceeding 5.00m	117	m2		
B	Span between 7.00 - 9.00m	523	m2		
<u>Concealed Precast Lintels: Standard: To BS EN 845-2:2013; complete all as per Architects and Engineer's Drawings and Specification</u>					
Lintels					
C	215mm wide x 65mm deep x 800mm long	53	nr		
<u>BRICKWORK AND BLOCKWORK</u>					
Blockwork					
<u>Aggregate concrete blocks; Manufacturer: To Structural Engineers Specification; Standard: I.S. EN 771-3:2011 Specification for Masonry Units # Part 3; Mortar : M12 ;Block description: To Structural Engineers Specification; Compressive strength 13N; Characteristic value: To Structural Engineers Specification; Thermal conductivity: To I.S. EN 1745 Masonry and masonry products-Methods for determining design thermal values . table A3; Reaction to fire: Class A1, Euro code 6 # I.S. EN 1996 Design of Masonry Structures # Part 1-2: General Rules # Structural Fire Design, defines the methods and calculations to determine the fire resistance of concrete block walls; refer to section Pr 20 93 52 01 of Architect's Specification 20-36-20-36 for additional requirements</u>					
Walls					
D	100mm thick	99	m2		
E	215mm thick	355	m2		
F	465mm thick	181	m2		
Labours					
G	On blockwork; generally	1	item		

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(19) SUBSTRUCTURE (Cont)						
Autoclaved aerated concrete (AAC) blocks Thermal Blocks; Manufacturer: Roadstone Ltd; Product reference: Roadstone Thermal Liteblock System. Category 1 unit in accordance with EN 771-3. CE marked. Or equivalent; Thickness: as required; Standard: To BS EN 771-3; Junctions: Provide expanded metal at junction of different types of blockwork to ensure no cracking at junctions; Mean compressive strength 13N (minimum): Category: To Structural Engineers Specification; Freeze/ thaw resistance: Deemed to satisfy national requirements when used and rendered in accordance with SR 325; Thermal conductivity (maximum): 1.01 - 1.19 W/mK (210,dry) to I.S. EN 1745 Annex A; Accessories or special shapes: Type: Coursing blocks; Mortar : M12; Tolerance category: D1 (+3mm, -5mm); Density: >1900kg/m3; Reaction to fire: to BS EN 13501-1: A1; Execution: CE Marking, NSAI certificate required; refer to section Pr 20 93 52 05 of Architect's Specification 20-36-20-36 for additional requirements						
Walls						
A	215mm thick	88	m2			
Labours						
B	On blockwork; generally	1	item			
Ancillaries to Brickwork/Blockwork						
Phenolic foam boards Cavity Wall Insulation; Description: The cavity wall insulation shall be Kingspan Kooltherm# K8 Cavity Board 100mm thick: comprising a premium performance fibre#free rigid thermoset phenolic insulation core faced on both sides with a low emissivity composite foil facing. The product shall be manufactured: with a blowing agent that has zero Ozone Depletion Potential (ODP) and low Global Warming Potential (GWP); under a management system certified to ISO 9001: 2008, ISO 14001: 2004, BS OHSAS 18001: 2007 and ISO 50001: 2011; by Kingspan Insulation Limited; and installed in accordance with the instructions issued by them; Manufacturer: Kingspan Insulation or equivalent; Product reference: Kooltherm# K8 Cavity Board partial fill cavity wall insulation or equivalent; Min. U-Value: 0.20 W/m2K; Standard: To BS EN 13166; Fire performance: Class F to BS EN 13501 : 2007; Thermal conductivity (maximum): 0.020 W/mK; Thickness: 100mm; Face size (length x width): 1200mm x 450mm; Jointing: All board joint junctions to be taped with Kingspan aluminium foil insulation tape; Edges: Plain; Facing: Kingspan Kooltherm# K8 Cavity Board is faced on both sides with a low emissivity composite foil, autohesively bonded to the insulation core during manufacture. This reflective, low emissivity surface improves the thermal resistance of any unventilated cavity adjacent to the board; including wall ties Product reference: To Structural Engineers Specification, Standard: To BS EN 845-1, Execution: Pr 20 85 84/610 Fixing ties in masonry cavity walls refer to section Pr 25 71 63 59 & Pr 20 85 84 19 of Architect's Specification 20-36-20-36 for additional requirements						
Forming cavities; between new walls						
C	150mm wide cavity; 100mm insulation as specified	99	m2			

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(19) SUBSTRUCTURE (Cont)					
Phenolic foam boards Cavity Wall Insulation; Description: The cavity wall insulation shall be Kingspan Kooltherm# K8 Cavity Board 100mm thick: comprising a premium performance fibre#free rigid thermoset phenolic insulation core faced on both sides with a low emissivity composite foil facing. The product shall be manufactured: with a blowing agent that has zero Ozone Depletion Potential (ODP) and low Global Warming Potential (GWP); under a management system certified to ISO 9001: 2008, ISO 14001: 2004, BS OHSAS 18001: 2007 and ISO 50001: 2011; by Kingspan Insulation Limited; and installed in accordance with the instructions issued by them; Manufacturer: Kingspan Insulation or equivalent; Product reference: Kooltherm# K8 Cavity Board partial fill cavity wall insulation or equivalent; Min. U-Value: 0.20 W/m²K; Standard: To BS EN 13166; Fire performance: Class F to BS EN 13501 : 2007; Thermal conductivity (maximum): 0.020 W/múK; Thickness: 50mm; Face size (length x width): 1200mm x 450mm; Jointing: All board joint junctons to be taped with Kingspan aluminium foil insulation tape; Edges: Plain; Facing: Kingspan Kooltherm# K8 Cavity Board is faced on both sides with a low emissivity composite foil, autohesively bonded to the insulation core during manufacture. This reflective, low emissivity surface improves the thermal resistance of any unventilated cavity adjacent to the board; including wall ties Product reference: To Structural Engineers Specification, Standard: To BS EN 845-1, Execution: Pr 20 85 84/610 Fixing ties in masonry cavity walls refer to section Pr 25 71 63 59 & Pr 20 85 84 19 of Architect's Specification 20-36-20-36 for additional requirements					
Forming cavities; between new walls					
A	150mm wide cavity; 50mm insulation as specified	26	m ²		
Gas-resistant damp-proof courses Type A; Manufacturer: Necoflex; Product reference: Easi-Load# Radon DPC or equal approved; Easi-Load# Radon Corner Assembly; Required; refer to section Pr 25 57 21 35 of Architect's Specification 20-36-20-36 for additional requirements					
Damp proof courses					
B	Width not exceeding 225mm; laps 150mm; horizontal	231	m		
C	Width exceeding 225mm; laps 150mm; stepped	96	m ²		

				€	c
(19) SUBSTRUCTURE (Cont)					
ROOFING, CLADDING AND WATERPROOFING					
Mastic Asphalt, Waterproof and Gas proof Non-Metal Flexible Sheet Coverings					
<u>Plastics sheets Radon Membrane; Description: Loose laid polyethylene gas retardant damp proofing radon membrane; Manufacturer: Necoflex Ltd; Product reference: Monarflex RMB350 gas membrane or equal approved; Material: Three layers of virgin low-density polyethylene (LDPE) with a 9 x 12mm multi-filament polyester (1670 dtex) reinforcing grid between; Physical properties: Dimensions: Thickness (minimum): 355 microns, Width (minimum): 2.0 m ; 4.0 m, Roll length (minimum): 25 m; Performance: Tensile strength (minimum): >480N/50mm, Tear resistance: >425N, Elongation to break: <19%, Resistant to underground gases: Radon, Water vapour resistance (minimum): 680 MNúsúg-1, Antistatic properties: Required, Colour: Red; Accessories: Juntions with penetrations, steelwork: Product: Monarseal MRX or equal approved, Preformed Collars for individual pipes: Monarflex "Top Hat" 110mm service penetration collars or equal approved, Sealing to irregular profiles, multiple penetrations: Product Ref: Easi-Pour Liquid Radon Sealant, or equal approved; refer to section Pr 25 57 65 60 of Architect's Specification 20-36-20-36 for additional requirements</u>					
Damp Proofing					
A	Horizontal; Width not exceeding 300mm; dressing to internal wall	231	m		
B	Horizontal; Width exceeding 300mm	924	m2		
C	Horizontal; Width not exceeding 300mm; dressing to external wall	77	m2		
<u>Extra Over For</u>					
D	Radon detailing to External Walls, complete, including easi-load radon DPC detail, folding radon membrane, Monobond double sided tape etc, all as per Architects Detail on Drawing 20-36-7001 and Specification	173	m		
E	Radon detailing to Internal Walls, complete, including easi-load radon DPC detail, folding radon membrane, Monobond double sided tape etc, all as per Architects Detail on Drawing 20-36-7001 and Specification	231	m		
Collars around pipes, standards and the like; allow for dressing radon barrier around; including all additional radon membrane, additional tanking items, radon tape, collars etc.					
F	Size of pipes; 110mm diameter; Height of Collar; 300mm	24	nr		
<u>Selected liquid applied DPM/Radon to External Wall; Substrate: Reinforced blockwork rising wall; Applied to suitable prepared surface per manufacturers recommendations; complete all as per Architect's Detail on Drawing 20-36-7001</u>					
Damp Proofing					
G	Stepped; Width exceeding 300mm; dressing to external rising wall	116	m2		

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<u>(19) SUBSTRUCTURE (Cont)</u>						
<u>Depressurization sumps; Description: Radon Sump; Manufacturer: Necoflex Easi-Sump or equivalent; Material: Rigid PVC; Shape: Square; Size: 380x380; Sump height (nominal): 124; Inlets/ outlets: Number of inlets/ outlets: 4, Diameter: 124; refer to section Pr 65 52 25 23 of Architect's Specification 20-36-20-36 for additional requirements</u> Gas proofing; Sumps						
A	Generally	5	nr			
Gas proofing; Radon vent pipework; interconnecting						
B	110mm dia.	45	m			
C	100mm Dia Radon Vent stack - Wavin Osmasoil or equivalent to be solvent welded	2	nr			
D	Cap Link; including pvc cover, frame, coupling with gas seals top and bottom	2	nr			
<u>WOODWORK</u>						
Ironmongery, Accessories and Sundries						
<u>Phenolic foam boards Ground Floor Insulation; Description: The under-floor insulation shall be Kingspan Kooltherm# K3 Floorboard (or equivalent) 100mm thick: comprising a premium performance rigid thermoset fibre#free phenolic insulation core faced on both sides with a flexible facing. The product shall be manufactured: with a blowing agent that has zero Ozone Depletion Potential (ODP) and low Global Warming Potential (GWP); under a management system certified to ISO 9001: 2008, ISO 14001: 2004; BS OHSAS 18001: 2007 and ISO 50001: 2011; by Kingspan Insulation Limited; and installed in accordance with the instructions issued by them; Manufacturer: Kingspan Insulation or equivalent; Product reference: Kooltherm# K3 Floorboard insulation for floors or equivalent; Min. U-Value: 0.14 W/m2K; Standard: To BS EN 13166; Fire performance: Class F to BS EN 13501 : 2007; Thermal conductivity (maximum): 0.020 W/múK; Thickness: 90mm; Face size (length x width): 2.4m x 1.2m; Edges: Plain; Facing: Kingspan Kooltherm# K3 Floorboard produced at Kingspan Insulation#s Pembroke manufacturing facility is faced on both sides with a glass tissue based facing, autohesively bonded to the insulation core during manufacture; refer to section Pr 25 71 63 59 of Architect's Specification 20-36-20-36 for additional requirements</u> Insulation; Thermal						
E	100mm thick; width exceeding 225mm; horizontal	924	m2			
F	25mm thick; width not exceeding 225mm; vertical	556	m			

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<u>(19) SUBSTRUCTURE (Cont)</u>						
<u>Loose Laid DPM Separation Layer between sand blinding and insulation, turned up at perimeter to top of insulation, laped 150mm min at joints, taped and sealed as per manufacturer's recommendations; complete all as per Architect's Detail on Drawing 20-36-7001- Floor Details</u>						
Insulation; Vapour Barrier						
A	Width exceeding 225mm; horizontal	924	m2			
B	Width not exceeding 225mm; vertical	556	m			
<u>DRAINAGE</u>						
Drainage Below Ground - Foul & Storm						
<u>Excavation</u>						
Excavating trenches to receive pipes / ducts not exceeding 250mm diameter, earthwork support to sides of trenches; grading bottoms of excavations; backfilling with hardcore (e.m.); disposal of surplus spoil off site						
C	Average Depth 500 - 1000mm	92	m			
<u>Graded Gravel</u>						
Beds and Surrounds						
D	550 x 550mm to 110mm diameter pipe	92	m			
<u>Hardcore filling; backfill trenches with fill complying with Clause 804; Granular material Type B or equal and approved; compacted in layers not exceeding 225mm; as per Engineer's Specification and Drawing</u>						
Backfilling; to top of trench; above concrete or graded gravel						
E	Average thickness 250 - 500mm; compacting in 150mm layers; average depth 500 - 1000mm	92	m			
<u>PVC marker tape "Heptape" or equivalent</u>						
F	Continuous strip laid during trench backfill, 100mm above pipework	92	m			
<u>Pipe; hard uPVC pipework and fittings; BS 4660</u>						
Pipes; loose couplers and ceiling ring joints in the running length						
G	110mm diameter	92	m			
H	<u>Extra over</u> for 110mm dia foul drainage; "Pop Ups"	40	nr			
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Extension/14						

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<u>(19) SUBSTRUCTURE (Cont)</u>						
Services Below Ground - M & E Services						
<u>Excavation</u>						
Excavating trenches to receive pipes / ducts not exceeding 250mm diameter, earthwork support to sides of trenches; grading bottoms of excavations; backfilling with hardcore (e.m.); disposal of surplus spoil off site						
A	Average Depth 500 - 1000mm	50	m			
<u>Graded Gravel</u>						
Beds and Surrounds						
B	550 x 550mm to 150mm diameter pipe	50	m			
<u>Hardcore filling; backfill trenches with fill complying with Clause 804; Granular material Type B or equal and approved; compacted in layers not exceeding 225mm; as per Engineer's Specification and Drawing</u>						
Backfilling; to top of trench; above concrete or graded gravel						
C	Average thickness 250 - 500mm; compacting in 150mm layers; average depth 500 - 1000mm	50	m			
<u>PVC marker tape "Heptape" or equivalent</u>						
D	Continuous strip laid during trench backfill, 100mm above pipework	50	m			
<u>Ductwork; "Wavinduct" or equivalent</u>						
100mm dia.; include for draw-wire						
E	Laid in trenches	50	m			
<u>MISCELLANEOUS WORKS</u>						
<u>Contractor to allow for an independent tester to undertake pyrite tests of the stone material to be used in the hardcore build up under the ground floor to verify that the hardcore material used on site complies with the chemical requirements in BS EN 13242 & S.R. 21 Annex E (The percentage of Total Sulphur content in hardcore shall be limited in accordance with S.R. 21). Hardcore material to be stockpiled on site and a composite sample taken. Hardcore is not to be placed prior to the testing of the site material to be used. (See Engineers Specification)</u>						
F	Generally	1	item			

[illegible]

				€	c
<u>(21) EXTERNAL WALLS</u>					
<u>SECTIONAL COMPLETION</u>					
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item		
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item		
<u>CONCRETE WORK</u>					
<u>In-Situ Concrete</u>					
<u>Mortar cubes for testing</u>					
Provide for making mortar cubes from freshly mixed mortar; transporting and testing cubes; all as per details in Engineer's Specification and Drawings					
C	Size 100 x 100 x 100mm (4nr per level)	8	nr		
<u>Precast Concrete</u>					
<u>PRE-STRESSED PRECAST CONCRETE LINTELS. Standard: To BS EN 845-2. Lintels to have a minimum bearing of 225mm, additional requirements: AS PER MANUFACTURERS RECOMMENDATIONS. Placement: Bed on mortar used for adjacent work; all in strict accordance with Architect's Drawings and Specification 5.3.68</u>					
Lintels; 100 x 150mm Deep; outer leaf of external wall					
D	to suit 1300mm wide ope	1	nr		
E	to suit 2900mm wide ope	1	nr		
Lintels; 100 x 215mm Deep; outer leaf of external wall					
F	to suit 1800mm wide ope	1	nr		
G	to suit 2000mm wide ope	1	nr		
H	to suit 2500mm wide ope	1	nr		

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<u>(21) EXTERNAL WALLS (Cont)</u>						
<u>BRICKWORK AND BLOCKWORK</u>						
Blockwork						
Fair Faced Blocks. Fine texture paint grade concrete blocks to internal walls. Manufacturer: Roadstone or equivalent. Standard: To BS EN 771-3. Compressive strength 7.5N/mm2. Freeze/ thaw resistance: Frost resistant. Thermal conductivity: I.S. EN 1745 Masonry and masonry products-Methods for determining design thermal values . table A3. Thermal resistance: Tolerance category: D2. Reaction to fire: Class A1 to BS EN 13501-1; all as per Architects and Engineers Drawings and Specification Pr 20 93 52 01						
Walls						
A	215mm thick (inner leaf); comprising of 1nr 100mm thick fair faced block to one side & 1nr solid common block to one side; Provide 10mm max full horizpntal M4 mortar bed and 25mm wide fully filled vertical M4 mortar between the two seperate leaves; Vertical collar joints between the two leaves are to be solidly filled with M4 mortar as the works proceed; (Bed Joint Reinforcement measured elsewhere)	1,209	m2			
Labours						
B	On blockwork	1	item			
<u>Extra over</u> for special blocks						
C	Concrete U-blocks for Cills; Blocks: to IS EN 771-3:2011+A1:2015; Category: Category 1; Manufacturer: to be approved before placing order; Type: U-block; Average compressive strength (min): 10.5N/mm2; Work sizes: 440 x 215 x 215mm; Mortar: Strength Class M6; Mix: 1:1:5-6 group 1; Bond: half lap stretcher; as per Engineers Structural Specification, include for reinforcement (measured elsewhere) and concrete filling in accordance with Engineers Drawings; complete; all as per Engineers Drawings	125	m			
D	Concrete U-blocks to new build: to IS EN 771-3:2011+A1:2015; Category: Category 1; Manufacturer: to be approved before placing order; Type: U-block; Average compressive strength (min): 10.5N/mm2; Work sizes: 440 x 215 x 215mm; Mortar: Strength Class M6; Mix: 1:1:5-6 group 1; Bond: half lap stretcher; as per Engineers Structural Specification, include for reinforcement (measured elsewhere) and concrete filling in accordance with Engineers Drawings; complete; all as per Engineers Drawings	255	m			

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(21) EXTERNAL WALLS (Cont)						
<u>CONCRETE SOLID COMMON BLOCKWORK; Concrete Blocks Shall Be Category 1 Manufacture Solid (440 X 215 X 100Mm 20Kg) And Conform To Is En 771-3:2011 Unless Noted Otherwise On The Drawings. (Compressive Strength Of Masonry Units - 7.5N/Mm# U.N.O.) I.S. En 772-1 To I.S. En 771-6 & I.S. En 771-3. Aggregates Used To Manufacture Of Concrete Blocks Shall Be Manufactured In Accordance With S.R. 16 And I.S. En 12620. Blocks Shall Be Ce Marked With System 2+ Attestation Of Conformity; all as per Architects and Engineers Drawings and Specification 5.3.3</u>						
Walls						
A	100mm thick	1,209	m2			
Labours						
B	On blockwork	1	item			
<u>THERMAL BLOCKWORK; Autoclaved aerated concrete (AAC) blocks Thermal Blocks; Manufacturer: Roadstone Ltd, Product reference: Roadstone Thermal Liteblock System Or equivalent Category 1 unit in accordance with EN 771-3. CE marked. Thickness: as required, to BS Standard: BS EN 771-3. Junctions: Provide expanded metal at junction of different types of blockwork to ensure no cracking at junctions. Freeze/ thaw resistance: Deemed to satisfy national requirements when used and rendered in accordance with SR 325. Thermal conductivity (maximum): 1.01 - 1.19 W/mK (?10,dry) to I.S. EN 1745 Annex A Type: Coursing blocks. Tolerance category: D1 (+3mm, -5mm) Density: >1900kg/ml Reaction to fire: to BS EN 13501-1: A1. Execution: CE Marking, NSAI certificate required. all as per Architects and Engineers Drawings and Specification</u>						
Walls						
C	100mm thick	16	m2			
D	215mm thick	17	m2			
<u>Bonding to other work</u>						
Vertical; masonry to concrete surfaces; comprising proprietary 200mm long stainless steel wall ties at 225mm vertical centres with debonding sleeve at movement joint locations; 10mm flexcell to form masonry movement joints, polysulphide seal to both sides of joint; all as per Engineers Drawing 20-120-S-03 and Specification						
E	Vertically; to 215mm thick walls	31	m			
Vertical; masonry to concrete surfaces; comprising of cast-in channels 'ANCON' or equivalent, fitted and fixed at 225mm vertical centres as per manufacturers details and specification; all as per Engineers Drawing 20-120-S-03 and Specification						
F	Vertically; to 215mm thick walls	479	m			

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(21) EXTERNAL WALLS (Cont)						
<u>Bonding to other work; new block wall to existing block wall; Pocket requirements- Width: Full thickness of new wall. Depth (minimum): 100 mm. Pocket vertical spacing - Brick to brick: 4 courses high at 8 course centres, Block to block: Every other course. Pocket joints: Fully filled with mortar: as per manufacturers information and to be fitted to manufacturers instructions; all in strict accordance with manufacturer's recommendations and Engineer's Drawings and Specification</u>						
Bonding to other work; new blockwork to existing blockwork						
A	Vertically; 100mm thick walls	31	m			
B	Vertically; 215mm thick walls	31	m			
Ancillaries to Brickwork/Blockwork						
<u>Forming cavities; 150mm wide cavity; including partial fill cavity; Phenolic foam boards Cavity Wall Insulation Description: 100mm Unilin XT/CW T&G Cavity wall insulation. Manufacturer: Unilin Insulation UK Limited or equivalent. Product reference: Thin-R XT/CW (T&G) (1200 x 450 x 100 mm). Standard: To BS EN 13165. Third-party certification: BBA Certificate no. 23/6997. Fire performance: Euroclass F. Thermal conductivity (maximum): 0.022 W/múK. Compressive strength at 10% deformation: >120 KPa. Cross section: Rectangular with engineered joints. Thickness (nominal): 100 mm. Face size (length x width): 1200 x 450 mm. Density: 32kg/ml. Recycled content: 0%. Facing: Composite foil facing. Edges: Tongue and groove. Min. U-Value: 0.16 W/m#K; complete as per Architects Drawings and Specification Pr 25 71 63 59</u>						
Cavities between new walls						
C	150mm wide cavity	1,209	m2			
D	CAVITY CLOSERS; to heads and jambs of openings; Rigid Pvc-U Profile Containing Mineral Wool Insulation Forming A Continuous Fire Related Cavity Closer Around Door And Window Openings. Suitable For First And Second Fix Applications. Used With Dtu Ties Every 225 Mm (100 Ties Per Pack). All Dacatie Products Are Manufactured To Bs Iso 9001 Quality Management And Iso 14001 Environmental Standards. All Dacatie Products Are Chlorofluorocarbon (Cfc) Hydrochlorofluorocarbon (Hcfc) Free And Have Zero Ozone Depletion Potential (Odp) And Low Global Warming Potential (Gwp). Manufacturer: Dacatie Building Solutions, Product Brand Of Quantum Profile Systems Ltd or equivalent , Product Reference: Dacatie Tfr2000 Cavity Closer 160, 30 Minute Fire Rated, For Window And Door Reveals or equivalent. Non Fire Rated Elsewhere, thermal Conductivity (K-Value):: 0.036 W/MúK, Thermal Resistance (R-Value):: 1.694 M#K/W. all in accordance with the Architect's Drawings and Specification Pr_35_90_50_64					
E	Cavity Closers					
F	To suit 150mm wide cavity	347	m			

	€	c
<u>(21) EXTERNAL WALLS (Cont)</u> CAVITY CLOSERS to heads of cavity walls; Cavity Closer, Rigid PVC-U profile containing mineral wool insulation forming a continuous fire related cavity closer around door and window openings. Suitable for first and second fix applications. Used with DTU ties every 225 mm (100 ties per pack). All Dacatie products are manufactured to BS ISO 9001 Quality Management and ISO 14001 Environmental standards. All Dacatie products are chlorofluorocarbon (CFC) hydrochlorofluorocarbon (HCFC) free and have zero ozone depletion potential (ODP) and low global warming potential (GWP). Manufacturer: Dacatie Building Solutions or equivalent, product brand of Quantum Profile Systems Ltd or equivalent. Product reference: Dacatie TFR2000 Cavity Closer 160, 30 Minute Fire Rated, for window and door reveals or equivalent.. Thermal conductivity (K-value): 0.036 W/mK.. Thermal resistance (R-value): 1.694 m2K/W.. Fire performance:: Fire rating to BS 476. 30 mins fire integrity/ 30 mins fire insulation. Euroclass Reaction to Fire classification: A1. Environmental:: Zero ozone depletion potential (ODP) and zero global warming potential (GWP). ISO 14001 environmental. Stock length: 2.4 m. Accessories: Integral insulation. To fit cavity width: 160 mm; all in accordance with the Architect's Drawing 5.07 and Specification Pr_35_90_50_64 Cavity Closers To suit 150mm wide cavity	169	m
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<u>(21) EXTERNAL WALLS (Cont)</u> Sleeved mineral wool cavity barriers External Cavity Walls & Metal Composite Cladding. Description: TENMAT VFB PLUS Ventilated Fire Barrier or equivalent. Manufacturer: TENMAT Limited or equivalent. Product reference:: TENMAT VFB PLUS Ventilated Fire Barrier or equivalent. Product dimensions: Thickness (Total Cavity less 44mm Air Gap) x 75 mm x 1000 mm. To suit cavity width: External Cavity Wall: 160 mm. General fitting instructions: TENMATss VFB PLUS is a particularly versatile and extensively fire tested Ventilated Fire Barrier which can be installed in a wide range of construction types. The product is simply mechanically fixed in position to leave up to a maximum 44mm air gap. In cavities <120mm, directly screw fix VFB Plus. In cavities >120mm, fix VFB Plus with steel fixing brackets using 2no. suitable non-combustible fixings. Product must be fixed at max. 500mm centres. The brackets should impale the VFB Plus at mid barrier depth. Cut the bracket down to size if required. Cut the barrier down to length if required. Each section of VFB Plus greater than 250mm, must be mechanically fixed with 2no. Brackets; if VFB Plus section is 250mm or less than, only 1no. Bracket is required. The bracket should not protrude through the rigid intumescent element, but should penetrate the barrier to approx. three quarters of the width of the product. Ensure label side is facing out so that the intumescent element faces into cavity in case of fire. Adjacent lengths must be tightly butted together. Ensure the product is pushed back to be fully in contact with supporting wall. Maximum remaining air gap to the back of the external face is 44mm*. Ensure Fire Barrier is free to expand in a fire situation. Max 44mm air gap (54mm air gap possible in limited applications only, please check with TENMAT). Fix with non-combustible stainless steel screws. Maximum screw head diameter is 11.5mm (trumpet/ countersunk type head only). Product must be fixed at maximum 250mm centres. Fire performance: Min. provisions for Cavity Barriers to be as per Table A1, Technical Guidance Document B Fire Safety 2006: 30 minutes Integrity, 15 minutes Insulation; to be fitted in accordance with manufacturer's recommendations and Architect's Drawings and Specification Pr 25 80 80 79						
A	Fire Barriers; 60min FR					
B	To suit 150mm cavity; horizontal	354	m			
C	To suit 150mm cavity; vertical	152	m			
<u>Mastic seal; Sealing gap between screen frames and blockwork walls; gap to be sealed on both sides with mastic seal; all in strict accordance with Architect's Details and Specification</u> Sundries; Seals						
D	10 x 5mm wide	347	m			

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(21) EXTERNAL WALLS (Cont)						
<u>Damp proof courses</u>						
Damp proof courses; Product reference: Easi-Load Radon Hyload Gastite DPC or equivalent. Easi-Load Radon Corner Assembly: Required. Use/location: All block course mortar beds 150mm above ground levels internally and externally. fixed to RC beam using hyload DPC fixing strip, 25 x 3 x 2mm pre drilled at 150mm centres fixed using hyload DPC fixing pins. Preparation/Installation: Ensure DPC is installed following good practice set out in BS 5628: Part 3: 2005. All DPCs must extend through the full thickness of the wall leaf, including pointing, applied rendering or other facing materials, and project beyond the external face by 5mm. DPC must be laid on an even bed of wet mortar and perforations in adjacent courses of brickwork must be completely filled with mortar. All lap joints in the DPC must have 100mm overlap and be completely sealed using DPC Jointing Tape; all in strict accordance with Architect's Drawings and Specification						
A	Width not exceeding 225mm	347	m			
Gas-resistant damp-proof courses. Product reference: Easi-Load Radon Hyload Gastite DPC or equivalent. Easi-Load Radon Corner Assembly: Required; all as per Architects Drawings and Specification Pr_25_57_21_35						
B	Width not exceeding 225mm; stepped	139	m			
C	Width not exceeding 225mm; vertical	209	m			
Site Formed flexible sheet cavity trays; Product reference: Easi-Load Radon Hyload Gastite DPC or equivalent. Easi-Load Radon Corner Assembly fixed to RC beam using hyload DPC fixing strip, 25 x 3 x 2mm pre drilled at 150mm centres fixed using hyload DPC fixing pins carried through internal leaf and lapped into wall construction above dpc level or equivalent; bedding in cement lime mortar (1:1:6); all to Architect's Drawings and Specification						
D	Cavity trays; 900mm wide overall; stepped; above openings	139	m			
Preformed cavity tray junction cloaks/ stop ends; High-bond strength, Easi-Load Radon Hyload Gastite DPC or equivalent; size to suit 150mm cavity; fixing in strict accordance with Manufacturer's written recommendations; to Architect's Drawings and Specification Pr_25_57_21/645						
E	Cavity trays; 750mm wide overall; stepped	102	nr			
<u>Selected DPC Tray Across Cavity Taken 225mm Past Each Jamb and Fixed to Concrete Inner Leaf. Proprietary Weepholes at 450c/c to External Leaf Everywhere DPC Tray occurs over an opening</u>						
sundries						
F	DPC Trays; generally	162	m			

					€	c
<u>(21) EXTERNAL WALLS (Cont)</u>						
<u>Joint Reinforcement</u>						
Joint reinforcement for blockwork walls; blockwork bed joint reinforcement; stainless steel wire weld type. Product reference: Ancon/AMR/S/D5.0/ W60-175 or equivalent; no allowance in measurement for laps; Stainless steel to external leaf brick/block work, Galvanised steel to internal leaf blockwork as per Engineer's Drawings and Specification 5.3.25						
A	To suit 215mm thick internal leaf blockwork	347	m			
<u>Design Joints</u>						
Control Joint; complete, including caulking/sealant with backing rod in open/ open block joint and expamet stop bead to external render; all in strict accordance with manufacturer's recommendations and Architects & Engineers Drawings and Specification						
B	100mm thick walls; generally	219	m			
<u>Sundries</u>						
Perpend Joint Plastics Weep holes at 1000mm centres; immediately above the base of the cavity, external openings and stepped dpcs; all to Architect's Drawings and Specification						
C	Generally	319	nr			
<u>ROOFING, CLADDING & WATERPROOFING</u>						
Flexible Sheet Metal Coverings						
<u>Polyester Powder Coated Pressed Metal Parapet Capping; complete; 3mm thick; including all clips/ fixings necessary with no fixings visible and 50mm Rigid Thermoset Phenolic Insulation all to Detail on Architect's Drawings and Specification Ss 30 60 50 03</u>						
<u>Coping</u>						
D	Girth not exceeding 750 - 900mm, four times bent; all to Architect's Drawings	64	m			

				€	c
(21) EXTERNAL WALLS (Cont)					
<u>WOODWORK</u>					
Ironmongery, Accessories and Sundries					
<u>Plastics sheets Air-tightness tape around external windows & doors.</u> <u>Manufacturer: Siga or equivalent. Product reference: Siga-Fentrim 20 or</u> <u>equivalent. Material: Special film/fleece combination (that can be plastered</u> <u>over) made of PO with SIGA high performance adhesive. Purpose: To achieve a</u> <u>building air tightness of 3m3 @50pa. Third party certification: British Board of</u> <u>Agreement (BBA) Certificate. Tensile strength (minimum): 220 N/ 50 mm lengthwise,</u> <u>140 N/ 50 mm crosswise. Execution: Pr 25 57 65/610 Installing vapour control</u> <u>layers; all as per Architects Drawings and Specification Pr 25 57 65 60</u>					
Sundries; Seals					
A	Width not exceeding 225mm, horizontal	139	m		
B	Width not exceeding 225mm, vertical	209	m		
Ironmongery, Accessories and Sundries					
<u>Farret 15mm thick Thermal Break insulation to Architects Specification and</u> <u>Drawing 7003</u>					
Insulation					
C	200 x 200mm; fixed behind relieving angle bracket; complete	126	nr		
<u>METALWORK</u>					
Non Structural					
<u>Proprietary stainless steel Support System (304 Austenitic, EN 1.4301) Outer</u> <u>leaf support system for 150mm cavity with necessary thermal break (measured</u> <u>elsewhere); to include all fixings etc; all in strict accordance with the</u> <u>Engineer's details and Drawings 20-120-S-03 & 20-120-S-05</u>					
Bars, Rods and the like					
D	Support Angles	63	m		
<u>Insect Guard Mesh; fixed to openings; complete, maximum 2mm holes, including all</u> <u>fixings and accessories necessary as per Architects Drawing 7001 and</u> <u>Specification</u>					
Bars, rods and the like; Insect Mesh					
E	50mm wide, horizontal	133	m		
F	50mm wide, vertical	209	m		
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<u>(21) EXTERNAL WALLS (Cont)</u>					
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(21) EXTERNAL WALLS Carried to Summary					
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<u>(22) INTERNAL WALLS</u>						
<u>SECTIONAL COMPLETION</u>						
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item			
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item			
<u>CONCRETE WORK</u>						
Precast Concrete						
<u>FAIRFACED PRE-STRESSED PRECAST CONCRETE LINTELS. Standard: To BS EN 845-2. Additional requirements: AS PER MANUFACTURERS RECOMMENDATIONS. Placement: Bed on mortar used for adjacent work; all in strict accordance with Architect's and Engineer's Drawings and Specification</u>						
Lintels; 100 x 65mm Deep fairfaced pre-stressed precast concrete lintel bearing minimum 150mm at each end						
C	to suit 910mm wide ope	1	nr			
<u>BRICKWORK AND BLOCKWORK</u>						
Blockwork						
<u>Fair Faced Blocks. Fine texture paint grade concrete blocks to internal walls. Manufacturer: Roadstone or equivalent. Standard: To BS EN 771-3. Compressive strength 7.5N/mm2. Freeze/ thaw resistance: Frost resistant. Thermal conductivity: I.S. EN 1745 Masonry and masonry products-Methods for determining design thermal values . table A3. Thermal resistance: Tolerance category: D2. Reaction to fire: Class A1 to BS EN 13501-1; all as per Architects and Engineers Drawings and Specification Pr 20 93 52 01</u>						
Walls						
D	100mm thick; first floor (store in Science Prep Room)	23	m2			
E	215mm thick; collar bonding; comprising of 1nr 100mm thick fair faced block to each side; Provide 10mm max full horizontal M4 mortar bed and 25mm wide fully filled vertical M4 mortar between the two separate leaves; Vertical collar joints between the two leaves are to be solidly filled with M4 mortar as the works proceed; (Bed Joint Reinforcement measured elsewhere)	1,332	m2			
Labours						
F	On blockwork	1	item			

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<u>(22) INTERNAL WALLS (Cont)</u>					
<u>Extra over</u> for special blocks					
A	Fairfaced Concrete U-blocks at top of internal Ground Floor Walls; Blocks: to IS EN 771-3:2011+A1:2015; Category: Category 1; Manufacturer: to be approved before placing order; Type: U-block; Average compressive strength (min): 7.5N/mm2; Work sizes: 440 x 215 x 215mm; Mortar: Strength Class M6 as section Z21; Mix: 1:1:5-6 group 1; Bond: half lap stretcher; as per Engineers Structural Specification F10: 357 include for reinforcement (measured elsewhere) and concrete filling in accordance with Engineers Drawings; complete; all as per Engineers Drawing S010	181	m		
B	Fairfaced Concrete U-blocks for Lintels; Blocks: to IS EN 771-3:2011+A1:2015; Category: Category 1; Manufacturer: to be approved before placing order; Type: U-block; Average compressive strength (min): 10.5N/mm2; Work sizes: 440 x 215 x 215mm; Mortar: Strength Class M6 as section Z21; Mix: 1:1:5-6 group 1; Bond: half lap stretcher; as per Engineers Structural Specification F10: 357 include for reinforcement (measured elsewhere) and concrete filling in accordance with Engineers Drawings; complete	86	m		
<u>CONCRETE FACING BLOCKWORK: Hollow Core block Internal partitions generally. Blocks: Manufacturer: Colinwell Architectural Masonry or equivalent. Product reference: Colinwell Hollow Core Paint Grade Blocks or equivalent. Configuration: Group .; Compressive strength: Mean value: 17.5 N/mm2; Category: I; Work sizes (length x width x height): 440 x 215 x 215 mm; Tolerance category: D2; Finish/ Colour: Paint grade / fair-faced; Special shapes: Half sizes, Corner blocks. Mortar: As section Z21. Standard: Mix: 1:1:6 cement:lime:sand; Bond: Half lap stretcher; Joints: Bucket handle; Features: [Solid blocks to opening reveals; as per Architects Specification F10</u>					
Walls					
C	215mm thick	6	m2		
Labours					
D	On blockwork	1	item		
<u>Bonding to other work</u>					
Vertical; masonry to concrete surfaces; comprising proprietary stainless steel wall ties at 225mm vertical centres with debonding sleeve at movement joint locations; 10mm flexcell to form masonry movement joints, polysulphide seal to both sides of joint; all as per Engineers Drawing S010 and Specification					
E	Vertically; to 215mm thick walls	428	m		

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<u>(22) INTERNAL WALLS (Cont)</u>						
Bonding to other work; new block wall to existing block wall; Pocket requirements- Width: Full thickness of new wall. Depth (minimum): 100 mm. Pocket vertical spacing - Brick to brick: 4 courses high at 8 course centres, Block to block: Every other course. Pocket joints: Fully filled with mortar: as per manufacturers information and to be fitted to manufacturers instructions; all in strict accordance with manufacturer's recommendations and Engineer's Drawings and Specification						
Bonding to other work; new blockwork to existing blockwork						
A	Vertically; 100mm thick walls	18	m			
B	Vertically; 215mm thick walls	18	m			
Ancillaries to Brickwork/Blockwork						
<u>Joint Reinforcement</u>						
Joint reinforcement for blockwork walls; blockwork bed joint reinforcement; stainless steel wire weld type. Product reference: Ancon/AMR/S/D5.0/ W60-175 or equivalent; no allowance in measurement for laps; Stainless steel to external leaf brick/block work, Galvanised steel to internal leaf blockwork as per Engineer's Drawings and Specification F30 270						
C	To suit 215mm thick collar jointed internal blockwork	2,960	m			
<u>Designed Joints</u>						
MOVEMENT JOINTS WITH SEALANT - FIRE RATED; Joint preparation and sealant application; Filler: Closed cell polyethylene foam; Thickness: To match design width of joint; Manufacturer: contractor to propose; Placement: Build in as work proceeds with no projections into cavities and to correct depth to receive sealant system; Sealant: Designation: ISO 11600-F-20HM; Product reference: n/a; Colour: To match adjoining blockwork; all in strict accordance with manufacturer's recommendations Architects and Engineer's Drawings and Specification						
D	100mm thick walls; generally	4	m			
E	215mm thick walls; generally	222	m			
<u>Sundries</u>						
Fireproofing						
F	Firestopping; filling any gaps around pipework wider than 25mm with Firepro Intumescent sealant; to be fitted in accordance with manufacturer's recommendations; all as per Architects Drawings and Specification	1	item			
G	Firestopping; cable trays to be fitted with Firepro Multicable Firestop; to be fitted in accordance with manufacturer's recommendations; all as per Architects Drawings and Specification	1	item			
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<u>(22) INTERNAL WALLS (Cont)</u>						
A	Firestopping; filling any gaps between fire door frames and fire rated walls and gaps between walls and doors of any room with acoustic sensitivity with Fire Pro Fire and Acoustic Foam; to be fitted in accordance with manufacturer's recommendations; all as per Architects Drawings and Specification	1	item			
B	Firestopping; filling any gaps in floors at vertical service penetration, sealed with 60 minute fire rated flooring compound (integrity and insulation) with smooth trowel finish. Load bearing, non-shrinking with airtight seal; all as per Architects Drawings and Specification	1	item			
C	Firestopping; filling any gaps in walls at high level for service penetrations, sealed with 2 no layers of high density fibreboard coated with fire rated acrylic. All fibres exceed 3 microns thickness and 200 microns in length. Non hazardous. All joints sealed with intumescent sealant and panel finished with fibre retardant aqueous polymer emulsion; all as per Architects Drawings and Specification	1	item			
<u>FLOOR, WALL AND CEILING FINISHINGS</u>						
Metal Stud Partitions						
Gypsum board partition systems - Description: Stud wall partitions - refer to Architectural drawings for wall types & locations. System performance: Ss 25 10 30/207 Framed partition system design requirements; Ss 25 10 30/230 Fire performance to BS EN 13501; Ss 25 10 30/240 Acoustic performance; Ss 25 10 30/290 Compliance with performance requirements. Framing: Pr 20 85 32 14 Carbon steel dry lining frames. Fire separation. Fire stopping: Seal gaps at junctions of partitions with perimeter abutments, cavity barriers, service penetrations, etc. in accordance with the instruction of the manufacturer of the system. Linings. Face layer: Pr 25 71 52 33 Fire-resistant gypsum plasterboards General; Pr 25 71 52 84 Standard gypsum plasterboards. Fasteners: Pr 20 29 76 65 Plasterboard screws. Joint treatment: Pr 35 90 87 60 Paper jointing tapes. Finish: Pr 35 31 64 35 Gypsum plasters. System accessories: Pr 25 80 80 79 Sleeved mineral wool small cavity barriers Type A. Execution: Ss 25 10 30/610 Installing framed partitions generally; Ss 25 10 30/620 Installing partitions onto new concrete and screeds; Ss 25 10 30/630 Installing framing for partitions; Ss 25 10 30/650 Installing deflection heads; Ss 25 10 30/690 Sealing gaps and air paths around partitions; Ss 25 10 30/660 Installing plasterboard to metal framing; Ss 25 10 30/695 Installing insulation and cavity barriers in framed partitions. System completion: Ss 25 10 30/895 Verification of performance Partitions; IWT-00 Service Box Out (70mm MF 1no. 15mm Duraline Plasterboard with skim non-fire rated)						
D	Approx 3150mm high <u>Extra Over</u> for	2	m			
E	Abutments to other finishes	4	nr			
F	Angle to partitions	2	nr			

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<u>(22) INTERNAL WALLS (Cont)</u>						
A	Head detail; including all sealants etc.	2	m			
B	Base detail; including all sealants etc.	2	m			
C	Approx 3450mm high	2	m			
	<u>Extra Over</u> for					
D	Abutments to other finishes	4	nr			
E	Angle to partitions	2	nr			
F	Head detail; including all sealants etc.	1	m			
G	Base detail; including all sealants etc.	1	m			
	Partitions; IWT-11 (70mm Metal Frame 1no. 15mm Duraline to one side non-fire rated)					
H	Approx 3150mm high	3	m			
	<u>Extra Over</u> for					
J	Abutments to other finishes	2	nr			
K	Angle to partitions	1	nr			
L	Head detail; including all sealants etc.	3	m			
M	Base detail; including all sealants etc.	3	m			
N	Approx 3495mm high	2	m			
	<u>Extra Over</u> for					
P	Abutments to other finishes	2	nr			
Q	Angle to partitions	1	nr			
R	Head detail; including all sealants etc.	2	m			
S	Base detail; including all sealants etc.	2	m			
	Partitions; IWT-11A (120mm Metal Frame 1no. 15mm Duraline to one side 60min fire rated)					
T	Approx 3495mm high	3	m			
	<u>Extra Over</u> for					
U	Abutments to other finishes	2	nr			
V	Angle to partitions	1	nr			

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<u>(22) INTERNAL WALLS (Cont)</u>					
Head detail; including all sealants etc.	3	m			
Base detail; including all sealants etc.	3	m			
Partitions; IWT-12 (70mm Studwork 1no. 15mm Duraline each side non-fire rated)					
Approx 3150mm high	4	m			
<u>Extra Over</u> for					
Abutments to other finishes	8	nr			
Fair Ends	8	nr			
Head detail; including all sealants etc.	4	m			
Base detail; including all sealants etc.	4	m			
Approx 3495mm high	5	m			
<u>Extra Over</u> for					
Abutments to other finishes	9	nr			
Fair Ends	9	nr			
Head detail; including all sealants etc.	5	m			
Base detail; including all sealants etc.	5	m			
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<u>(22) INTERNAL WALLS (Cont)</u>					
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<u>(23) FLOORS, GALLERIES</u>						
<u>SECTIONAL COMPLETION</u>						
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item			
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item			
<u>NOTES</u>						
C	1. When pricing the following items the Contractor's attention is drawn to the location of the site. The Contractor should also visit and check the site. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.		note			
D	2. Please refer to Consulting Engineers and Architect's Specification and Drawings		note			
E	3. In exceptional cases where it has not been possible to specify a generic element and a specific product has been named, an equivalent product to that specified is acceptable where it meets the technical, functional and aesthetic standards of that specified: the onus is on the contractor to ensure that an equivalent product to that specified meets the standard by means of an agreement cert, insurance backed guarantee or warranty, detailed specifications, fire test certificates where applicable, brochure and other means of proof of compliance. Notwithstanding this, the appropriate foregoing documentation and samples are to be provided to the architect prior to being incorporated into the construction		note			
<u>CONCRETE WORK</u>						
<u>In-Situ Concrete; Reinforced</u>						
<u>Concrete cubes for testing</u>						
Provide for making sampling and testing procedures shall comply with IS EN 12350 Testing Fresh concrete; transporting and testing cubes; all as per details in Engineer's Concrete Specification Section-3						
F	Size 150 x 150 x 150mm	48	nr			

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<u>(23) FLOORS, GALLERIES (Cont)</u>						
<u>Structural Concrete; Mix reference: Concrete grade: C28/35 XC1 (IS.EN.206) ; nominal maximum aggregate size: 20mm; additions complying with: The quality of materials and the standard of workmanship for the reinforced concrete shall comply with the relevant clauses of I.S. EN1992-1-1:2004 AND I.S. EN206-1 in regard to all requirements not otherwise described in this specification. The most recent published versions of the relevant standards apply; refer Engineer's Specification Section-3 for additional requirements</u>						
Slabs						
A	Exceeding 150mm thick; reinforced	9	m3			
<u>Floor screed; Grade: C28/35, XC1 to IS EN 206; approved concrete mix with a minimum characteristic strength of 35N/mm2 unless otherwise noted. The maximum aggregate size shall be reduced to 10mm; refer Engineer's Specification Section-3.26</u>						
Other Items; Floor Screed						
B	80mm thick; to falls; reinforced	68	m3			
<u>Concrete infill ; to end of hollowcore slab min 35N concrete; all as per detail & drawing no 20-120-S-06</u>						
Other Items; Infill concrete						
C	Generally	4	m3			
Sundries on In-situ Concrete						
<u>Designed Joints; refer Engineer's Drawings and Specification</u>						
Isolated Joint (IJ); approved joint sealant; 20x30Dp, Compressible Filler board with 20mm Polysulphide Sealant; all in strict accordance with Detail on Engineer's Drawing 20-120-S-06						
D	Width not exceeding 150mm; Depth 150 - 300mm	396	m			
<u>Surface Finishes</u>						
Powerfloating						
E	Generally	849	m2			
Troweling						
F	Generally; to tops of beams	85	m2			

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(23) FLOORS, GALLERIES (Cont)					
Reinforcement					
<u>Bar reinforcement; Hot rolled high yield steel bars shall comply with IS EN 10080:2005 and BS 4449:2005 except that no bar shall contain a flash weld. All bars shall be cut and bent in accordance with BS 8666:2005; must be free of loose millscale and thoroughly cleaned to remove all loose rust, oil, grease or other harmful matter prior to being placed in position with and including all necessary laps, spacers, chairs and tying wire; all in strict accordance with the Engineers Drawings; refer to Engineer's Specification Section 3.20</u>					
Bar; straight or bent					
A	Nominal size not exceeding 12mm diameter	0.65	t		
B	12mm - 25mm	0.25	t		
<u>Steel fabric reinforcement shall conform to IS EN 10080:2005 and BS 4483:2005 (Grade B500A, B500B or B500C) and shall be cut and bent in accordance with BS 8666. Steel fabric reinforcement shall have a minimum nominal bar size of 6 mm (8 mm for Grade B500A) and shall be obtained from a firm holding a valid CARES (or fully equivalent scheme) certificate of approval for the production and supply of steel fabric reinforcement; all in strict accordance with the Engineers drawings and Engineering Specification Section 3.20</u>					
Reference A142 mesh; 400mm side laps; 400mm end laps					
C	Horizontal; to floors screed	849	m2		
Reference A393 mesh; 400mm side laps; 400mm end laps					
D	Horizontal; to floors slab	42	m2		
Formwork					
<u>Formwork; Design and construction of falsework and formwork shall be in accordance with BS 5975:2008; All as per accordance with Engineer's Drawings and Specification Section 3.9</u>					
Edges of suspended slabs and landings					
E	Height / width not exceeding 250mm	59	m		
Soffits of slabs					
F	Soffit height not exceeding 4.00m	42	m2		
Edges of openings					
G	Suspended slabs; area of opening exceeding 5.00m2	14	nr		

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<u>(23) FLOORS, GALLERIES (Cont)</u>						
Precast Concrete						
<u>Design, supply and install precast slab units; in accordance with the specification and all relevant Standards to support dead loads & superimposed loads as Engineers details; including all fixings, angles, bolts and the like as necessary to attach to surrounding structure; all joints between precast concrete units to be grouted with and including concrete as a separate operation prior to placing of RC topping (RC topping measured elsewhere); all in strict accordance with the Engineers Drawing & Engineering Specification Section-4</u>						
Floor slabs; 150mm thick						
A	Span not exceeding 5.00m	15	m2			
Floor slabs; 200mm thick						
B	Span not exceeding 5.00m	215	m2			
C	Span between 5.00 - 7.00m	20	m2			
D	Span between 7.00 - 9.00m	560	m2			
<u>METALWORK</u>						
Non Structural						
<u>30x5mm galvanised MS steel straps; Bolted to precast concrete unit with M6 Stainless steel bolts at 300mm c/cs; as per engineer's drawings 20-120-S-06</u>						
Bar rod and the like						
E	Generally	62	nr			
<u>30x5mm MS strap to cast into U-Block and Fixed securely to pecast unit. strapping installed at max 1000mm crs; as per engineer's drawings 20-120-S-04</u>						
Bar rod and the like						
F	Generally	18	nr			
<u>Bolt; M6 stainless steel bolts as per engineer's drawings 20-120-S-06</u>						
Fixing						
G	Generally	320	nr			

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<u>(23) FLOORS, GALLERIES (Cont)</u>					
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<u>(24) STAIRS</u>						
<u>SECTIONAL COMPLETION</u>						
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item			
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item			
<u>CONCRETE WORK</u>						
Precast Concrete						
<u>PRE-CAST STAIRS: Type of construction: Pre-cast Concrete; Overall depth (excluding finishes): To be confirmed by manufacturer; Span: Varies, refer to drawings for profile and locations; Finish to soffit: Smooth; Finish to top surface: Smooth; as per Architect's Drawings 4501 and 4502 and Specification</u>						
Staircase; complete						
C	Staircase 1 flights; 1500mm wide; 200mm waist; 300mm treads; 10nr risers, 160mm high; span of flight 3300mm; 1nr edge abutting/set into walls	2	nr			
D	Staircase 2 flights; 1550mm wide; 200mm waist; 300mm treads; 12nr risers, 160mm high; span of flight 3710mm; 1nr edge abutting/set into walls	1	nr			
E	Staircase 2 flights; 1550mm wide; 200mm waist; 300mm treads; 11nr risers, 160mm high; span of flight 3300mm; 1nr edge abutting/set into walls	1	nr			
Landings						
F	Staircase 1 Half Landings; finished size approx 3380mm x 1650mm x 200mm thick; rectangular shape; edges abutting/set into walls - 2nr; all in accordance with Architect's Drawing 4501 and 4502	1	nr			
G	Staircase 2 Half Landings; finished size approx 3385mm x 1600mm x 200mm thick; rectangular shape; edges abutting/set into walls - 2nr; all in accordance with Architect's Drawing 4501 and 4502	1	nr			

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(24) STAIRS (Cont)		
<u>METALWORK</u>		
Non Structural		
<u>Access panels Water tank access hatch & ladder - Description: Ceiling mounted access hatch with retractable ladder; Manufacturer: Surespan Ltd; Producty Reference: ZIP8. - 4.6 m maximum. Retractable ladder with trapdoor; Fire resistance: 30 minutes; Position: Ceiling mounted; Size: 900 x 900 mm; Frame: Shadowline beads; Panel; Material: 62mm insulated sandwich trap door, underside fininshed white; Operation: Manual - With operating pole, standard; Topside - Cable or pull ring for access from above; Two heavy duty counter balanced springs; Load bearing: 200 kg per tread # overall unit 500 kg/m#: Integral accessories: Telescopic Handrail, single or both sides; Trap door coated white on the underside; Spring latch trap door locking; Operating pole; installed in strict accordance with manufacturer's recommendations and Architect's Specification Pr 30 59 36 01</u> Composite Item; Ladders Approx 3150mm high; to provide access to tank room <u>Extra over</u> for Floor Mounted Aluminium Bracket; include all necessary fixings; installed in strict accordance with the manufacurer's instructions	1	nr
	1	nr
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(24) STAIRS (Cont) COLLECTION Page No. Extension/40 Page No. Extension/41 (24) STAIRS Carried to Summary					
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<u>(25) AIR TIGHTNESS</u>						
<u>SECTIONAL COMPLETION</u>						
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item			
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item			
<u>AIR TIGHTNESS</u>						
C	1. Notwithstanding that this Bill of Quantities is measured in accordance with the Agreed Rules of Measurement, the tenderer should note the following works measured are not in accordance with ARM. The Air Tightness specialised design packages are priced in accordance with the Works Requirements and the relevant co-ordination is to include for all works there in contained.		note			
D	2. Ensuring the airtight quality of the buildings is a key element of the low energy strategy applied in the design of this building. Care has been taken by the designers in specifying the materials and systems and in providing construction details that are capable of achieving the specified level of air permeability.		note			
E	3. The contractor shall be responsible for ensuring that the building complies with the specified level of air permeability.		note			
F	4. When tested the building shall achieve an air permeability of 3m3/hr/m2 @50 Pa building pressure or less.		note			
G	5. Refer to Section A33 of Architects Specification for this Section		note			
The contractor shall include the cost of carrying out the following works if not included elsewhere in this Pricing Document.						
The main elements of the building construction providing protection against air infiltration (the seal boundary) are typically:						
H	1. U/s of WPB ply to flat roof	1	item			
J	2. U/s of composite deck roof	1	item			
K	3. Taped Insulation to external face of blockwork/concrete walls	1	item			
L	4. Fibre cement cladding system	1	item			
M	5. Tapes/seals at the glazing system	1	item			
N	6. Radon membrane	1	item			

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<u>(25) AIR TIGHTNESS (Cont)</u>						
A	7. Ventilation dampers	1	item			
B	8. Seals/grommits to all penetrations through the external wall/floor roof/envelope.	1	item			
C	9. Membranes within cavities and seals to steel structures.	1	item			
D	The sealing of the construction junctions between these elements is a critical aspect of the airtight design. It is essential that the air seal boundary is continuous and is not breached in any location. All service penetrations which cross the line of the air seal boundary also must be comprehensively sealed to maintain continuity of the airtight barrier, with proprietary products as per the general specification.	1	item			
Quality Management						
E	Effective and thorough quality management is essential if the specified level of air permeability is to be achieved.	1	item			
F	If the integrity of the air seal boundary is broken then it must be repaired. Particular care must be taken when constructing joints and junctions in the building envelope to ensure continuity of the air seal boundary. Repairs using unsuitable tape, Rockwool and expanding foam are not acceptable.	1	item			
G	In addition to the continuity of the air seal boundary, care must be exercised at all envelope penetrations for windows, doors, rooflights, services, cables etc applying appropriate sealing and draught barriers and sealing junctions between the air seal boundary and these elements.	1	item			
H	For the low air permeability strategy to be successful it is vital that all site workers are aware of the importance of maintaining the integrity of the air seal boundary. All subcontractors are to be briefed on the strategy and encouraged to report damage of the air seal boundary on a "no fault" basis.	1	item			
<u>The main contractor shall take overall responsibility for co-ordination of and maintaining continuity of the air seal boundary. One member of the contractor's site team is to be nominated as the 'air leakage officer', whose role shall include the following:</u>						
J	Develop the project air leakage prevention plan	1	item			
K	Identify all significant potential sources of air leakage and the methods to be used to minimise leakage	1	item			
L	Ensure that all tapes and sealants used to minimise air leakage are fit for purpose and offer a long term protection to air leakage over the buildings lifetime	1	item			
M	Ensure that all equipment and components procured offer the required standard of air leakage	1	item			
N	Ensure that all sub contractors understand the importance of minimising air leakage in this building and take appropriate measures to minimise it	1	item			
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<u>(25) AIR TIGHTNESS (Cont)</u>						
A	Undertake regular inspections of the building as it is constructed to ensure that air leakage paths are minimised	1	item			
B	Ensure that no elements of the construction are concealed without their air leakage integrity being considered and inspected	1	item			
C	Program the air test and prepare the building for its test	1	item			
D	Supervise the test procedure, including ensuring that all required temporary seals are applied to allow the test to take place	1	item			
E	Identify sources of leakage during the test procedure and their potential resolution in the event that the target air tightness is not achieved	1	item			
F	The main contractor shall ensure coordination of work between different work packages/ specialist sub-contractors in defining responsibility for sealing at junctions between different construction elements.	1	item			
<u>Areas critical in maintaining the air seal boundary include (but are not limited to):</u>						
G	Monitoring and maintaining levels of construction quality	1	item			
H	Roof/ wall junctions	1	item			
J	Ground floor/ wall junction	1	item			
K	Changes in roof section	1	item			
L	Windows, doors and rooflights	1	item			
M	Service penetrations	1	item			
N	All materials systems junctions	1	item			
<u>Airtightness Specialist</u>						
P	The contractor shall employ a recognised specialist approved by the Employer's Representative to carry out an airtightness test at a point in the construction programme when all elements of the external envelope/ air seal boundary are complete including all services penetrations.	1	item			
Q	The specialist must have had previous experience in the testing of buildings to IS EN 13829 2001 that have achieved the target set out below or improved on it, in at least one building of a similar size and complexity.	1	item			
R	The specialist shall provide a rig capable of testing the entire building as a single element. If the air test results show that the rig was unable to maintain a pressure of 50Pa at the required test result, the test will be deemed non-compliant	1	item			

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<u>(25) AIR TIGHTNESS (Cont)</u>						
The air test shall be carried out as detailed within the following standards:						
A	IS EN 13829:2001 "Determination of air permeability in buildings - fan pressurisation method"	1	item			
B	CIBSE TM23:2000 "Testing buildings for air leakage"	1	item			
C	ATTMA TS1 July 2007 "Measuring air permeability of building envelopes"	1	item			
D	All instruments and equipment used must comply with the accuracy and tolerance requirements set down by these standards.	1	item			
E	The air test specialist must be accredited through INAB or UKAS to carry out air tightness testing of buildings in accordance with ISO 17025 - proof of this accreditation must be issued by the contractor to the ER and approved in writing, prior to appointment.	1	item			
F	The contractor shall also include for a minimum of 2 no site inspection from the accredited testing specialists during the course of construction.	1	item			
Briefing Meeting						
G	Upon approval and appointment of the air testing specialist by the contractor, and at an appropriate time in the building programme, the specialist shall hold a briefing meeting with the contractors staff and the design team. Prior to this meeting, the contractor shall identify any points in the building that have a high risk of air leakage and shall detail the proposed sealing method with the air test specialist.	1	item			
H	The air test specialist shall also use this opportunity to detail the testing procedure and work required in preparation for the test.	1	item			
Preliminary Smoke Test						
J	Once the glazing is installed, the contractor shall employ the air test specialist to carry out a smoke test on 3 no. typical rooms in the building, of differing sizes, scales and complexities, in order to identify any potential weaknesses in the installation that can be rectified before the full test is carried out.	1	item			
K	Note that an amount of temporary sealing will be required to prevent smoke escaping internally during the testing of this room.	1	item			
L	The contractor shall contact the local fire department in advance of the test and inform them that the smoke test may take place in order to prevent false alarms.	1	item			

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<u>(25) AIR TIGHTNESS (Cont)</u>						
Test Preparation						
<u>The contractor shall include all attendances associated with the airtightness testing including building preparation which shall typically include:</u>						
A	(a) all external windows, trickle vents, smoke vents and doors must be closed (but not sealed)	1	item			
B	(b) all internal doors must be wedged open	1	item			
C	(c) all drainage traps must be filled with water. If traps have not been fitted then drainage pipes must be sealed with tape	1	item			
D	(d) all mechanical ventilation systems must be shut down and intake/ exhaust louvers sealed with tape/ polythene sheeting / compriband. This is most effectively achieved by sealing the intake and exhaust louvers for each fan or system	1	item			
E	(e) any combustion appliances within the airtight building envelope should be turned off and their flues sealed	1	item			
F	(f) the ground floor internal and external area within 5m of the fan equipment/ doorway must be clean and clear of all loose material	1	item			
G	(g) the contractor must ensure that no external doors/ windows/ trickle vents are opened for the duration of the test	1	item			
H	(h) some temporary minor carpentry works may be required to the doorway in which the fan equipment is mounted	1	item			
J	(j) notices must be posted at all entry and exit points to the building; "AIRTIGHTNESS TEST IN PROGRESS DO NOT OPEN".	1	item			
K	(k) remove suspended floor and ceiling tiles (where applicable) around the perimeter of the building	1	item			
L	(l) contractor to advise the employers representative of the proposed test date one month prior to the test date, weekend days may not be acceptable	1	item			
M	(m) Air test may only be carried out during appropriate weather conditions	1	item			
N	(n) contractor to obtain a list of test condition requirements from the air leakage test specialist four weeks prior to carrying out the air test	1	item			
P	(o) The building shall be brought up to normal working temperature 6 hours before the test is due to take place and maintained at the working temperature during the air and thermograph tests	1	item			
Q	Note that no additional taping or sealing of any building component must be undertaken without prior agreement from the client's representative.	1	item			

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<u>(25) AIR TIGHTNESS (Cont)</u>						
A	No less than three weeks before the test is due to commence, the contractor shall measure the surface area that is proposed for use in the test and send the calculation to the clients representative for agreement.	1	item			
The Test						
B	The building shall achieve an air leakage level of 3m3/h/m2 at a test pressure of 50Pa, or less. (Where the area used is the true internal exposed area of the walls, roof, window, and ground floor surfaces).	1	item			
<u>The air test shall be carried out as detailed within the following standards:</u>						
C	IS EN 13829:2001 "Determination of air permeability in buildings - fan pressurisation method"	1	item			
D	CIBSE TM23:2000 "Testing buildings for air leakage"	1	item			
E	ATTMA TS1 July 2007 "Measuring air permeability of building envelopes"	1	item			
F	All instruments and equipment used must comply with the accuracy and tolerance requirements set down by these standards.	1	item			
G	The test must be witnessed by the Employers Representative. The contractor shall give sufficient notice to enable this to happen.	1	item			
H	The air testing specialist must produce a full detailed report of the air test on completion, identifying the area used for the test, the result achieved, and confirmation of any deviations from the standard test procedure	1	item			
J	In the event the test is failed the contractor shall carry out a full building smoke test to identify sources of leakage. The smoke test shall be carried out by filling the building with a smoke type that is harmless to the building and its systems and leave no residues within the building. During this test the contractor shall make a detailed list of all leakage points.	1	item			
K	The contractor shall promptly carry out all necessary remedial works and, cover all costs of further air and smoke tests required to prove compliance with the test standard.	1	item			
L	The contractor shall remove all building elements required to correctly seal the building and re-instate them to allow the further testing of the building until compliance is achieved.	1	item			
Thermographic Survey						
M	The contractor shall employ a recognised specialist to carry out a thermographic survey of the completed building to prove continuity of insulation within all parts of the building fabric.	1	item			
N	The survey shall be conducted in accordance with the requirements and recommendations of TN 9/2002 'Thermal Imaging of Buildings'.	1	item			
P	The survey shall be carried out by a Level III certified thermographer.	1	item			

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<u>(25) AIR TIGHTNESS (Cont)</u>					
In the event that the specified continuity of thermal insulation is not achieved the contractor shall open up the works and make good the deficiency. A further thermographic survey of the relevant areas is to be carried out to complete the demonstration of compliance with the specification. Any opening up or remedial works required are to be carried out at the contractors' expense until the specified performance is achieved.	1	item			
	1	item			
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<u>(27) ROOF</u>						
<u>SECTIONAL COMPLETION</u>						
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item			
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item			
<u>NOTES</u>						
C	1. When pricing the following items the Contractor's attention is drawn to the location of the site. The Contractor should also visit and check the site. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.		note			
D	2. Please refer to Consulting Engineers and Architect's Specification and Drawings		note			
E	3. In exceptional cases where it has not been possible to specify a generic element and a specific product has been named, an equivalent product to that specified is acceptable where it meets the technical, functional and aesthetic standards of that specified: the onus is on the contractor to ensure that an equivalent product to that specified meets the standard by means of an agreement cert, insurance backed guarantee or warranty, detailed specifications, fire test certificates where applicable, brochure and other means of proof of compliance. Notwithstanding this, the appropriate foregoing documentation and samples are to be provided to the architect prior to being incorporated into the construction		note			
<u>CONCRETE WORK</u>						
<u>In-Situ Concrete; Reinforced</u>						
<u>Concrete cubes for testing</u>						
Provide for making sampling and testing procedures shall comply with IS EN 12350 Testing Fresh concrete; transporting and testing cubes; all as per details in Engineer's Concrete Specification Section-3						
F	Size 150 x 150 x 150mm	23	nr			

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(27) ROOF (Cont)					
<u>Structural Concrete; Mix reference: Concrete grade: C28/35 XC1 (IS.EN.206) ; nominal maximum aggregate size: 20mm; additions complying with: The quality of materials and the standard of workmanship for the reinforced concrete shall comply with the relevant clauses of I.S. EN1992-1-1:2004 AND I.S. EN206-1 in regard to all requirements not otherwise described in this specification. The most recent published versions of the relevant standards apply; refer Engineer's Specification Section-3 for additional requirements</u>					
Beams					
A	Cross-sectional area not exceeding 0.10m ² ; Reinforced; RC Beams to Roof	24	m ³		
Padstones					
B	Size; 675 x 215 x 225mm deep; to include all necessary formwork and reinforcement	20	nr		
<u>Floor screed; Grade: C28/35, XC1 to IS EN 206; approved concrete mix with a minimum characteristic strength of 35N/mm² unless otherwise noted. The maximum aggregate size shall be reduced to 10mm; refer Engineer's Specification Section-3.26</u>					
Other Items; Floor Screed					
C	150mm thick (max); to falls; reinforced	14	m ³		
Sundries on In-situ Concrete					
<u>Designed Joints</u>					
All construction joints at the discretion of the Main Contractor; all to Engineer's approval					
D	Width / depth not exceeding 150mm	1	item		
<u>Surface Finishes</u>					
Powerfloating					
E	Generally	92	m ²		
Troweling					
F	Generally; to tops of beams	58	m ²		

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(27) ROOF (Cont)						
Reinforcement						
<u>Bar reinforcement; Hot rolled high yield steel bars shall comply with IS EN 10080:2005 and BS 4449:2005 except that no bar shall contain a flash weld. All bars shall be cut and bent in accordance with BS 8666:2005; must be free of loose millscale and thoroughly cleaned to remove all loose rust, oil, grease or other harmful matter prior to being placed in position with and including all necessary laps, spacers, chairs and tying wire; all in strict accordance with the Engineers Drawings; refer to Engineer's Specification Section 3.20</u>						
Bar; straight or bent						
A	Nominal size not exceeding 12mm diameter	3.34	t			
B	12mm - 25mm	2.24	t			
<u>Steel fabric reinforcement shall conform to IS EN 10080:2005 and BS 4483:2005 (Grade B500A, B500B or B500C) and shall be cut and bent in accordance with BS 8666. Steel fabric reinforcement shall have a minimum nominal bar size of 6 mm (8 mm for Grade B500A) and shall be obtained from a firm holding a valid CARES (or fully equivalent scheme) certificate of approval for the production and supply of steel fabric reinforcement; all in strict accordance with the Engineers drawings and Engineering Specification Section 3.20</u>						
A142 mesh fabric reinforcement						
C	Horizontal; to floors	92	m2			
Formwork						
<u>Formwork; Design and construction of falsework and formwork shall be in accordance with BS 5975:2008; All as per accordance with Engineer's Drawings and Specification Section 3.9</u>						
Beams						
D	Isolated; rectangular; soffit height not exceeding 4.00m; cross sectional area not exceeding 0.10m2; RC Beams	166	m2			
E	Isolated; rectangular; soffit height between 4.00m - 6.00m; cross sectional area exceeding 0.10m2; RC Beams	135	m2			

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<u>(27) ROOF (Cont)</u>						
Precast Concrete						
<u>Design, supply and install precast slab units; in accordance with the specification and all relevant Standards to support dead loads & superimposed loads as Engineers details; including all fixings, angles, bolts and the like as necessary to attach to surrounding structure; all joints between precast concrete units to be grouted with and including concrete as a separate operation prior to placing of RC topping (RC topping measured elsewhere); all in strict accordance with the Engineers Drawing & Engineering Specification Section-4</u>						
Floor slabs; 150mm thick						
A	Span not exceeding 5.00m	26	m2			
Floor slabs; 200mm thick						
B	Span not exceeding 5.00m	67	m2			
<u>WOODWORK</u>						
Ironmongery, Accessories and Sundries						
<u>Farret 15mm thick Thermal Break insulation to Architects Specification and Drawing 7003</u>						
Insulation						
C	200 x 200mm; fixed out riggers end plates (measured elsewhere); complete	61	nr			
<u>STEELWORK</u>						
Structural Steelwork						
<u>Fabricated, weldable steel; Steel Grades: S355 in accordance with relevant section of TO B.S. EN 10025/B.S.4360 AND B.S.4848, U.N.O; all as per Engineers Drawings: 20-120-S-07 & Strctural Engineering Specification.</u>						
Beams						
D	CHS; Weight not exceeding 25kg/m	2.30	†			
E	UB; Weight not exceeding 25kg/m	0.60	†			
F	UB; Weight between 25-50kg/m	6.00	†			
G	UB; Weight between 50-100kg/m	5.60	†			
H	UC; Weight between 25-50kg/m	2.30	†			
J	PFC; Weight not exceeding 25kg/m	2.40	†			
K	PFC; Weight between 25-50kg/m	0.30	†			

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<u>(27) ROOF (Cont)</u>						
	Column					
A	UC; Weight between 25-50kg/m	0.10	t			
	Rooflight Upstands					
B	SHS; 25 - 50Kg/m; to rooflight upstands	4.00	t			
C	PFC; 25 - 50Kg/m; to rooflight upstands	4.00	t			
	Fittings					
D	General; including caps, bases, haunches, gussets, end plates, splice plates, cleats, brackets, stiffeners, distance pieces and the like	5.46	t			
	<u>Kingspan or equivalent Purlins; fixed in accordance with Manufacturer's instructions; As per Structural Engineers Drawings & Specification.</u>					
	Cold Rolled Members; Purlins / cladding rails; to canopy roofs					
E	M205065180 Purlin at the requisite centres: fixed to steel beam	4.90	t			
	<u>Bolts</u>					
	Bolts; 2No. M20 Bolt Grade 8.8 Chemical Anchors; all to Engineer's Drawings ref 20-120-S-07.					
F	Generally	100	nr			
	Bolts; 4No. M20 Bolt Grade 8.8 Chemical Anchors; all to Engineer's Drawings ref 20-120-S-07.					
G	Generally	428	nr			
	<u>Holding down assemblies</u>					
H	10mm thick. End plate with 4 no M20 Bolts; all as per structure drwaing no 20-120-S-07.	12	nr			
J	10mm thick. Fin plate connections with 2no. M20 Bolts; all as per structure drwaing no 20-120-S-07.	8	nr			
K	12mm thick. End plate connections with 2no. M20 Bolts; all as per structure drwaing no 20-120-S-07.	20	nr			
L	15mm thick plate to stub column top & bottom with 4no M20 anchor both side (top & bottom); all as per structure drwaing no 20-120-S-07.	8	nr			
M	215 x 300 long x 15mm thick plate with 4no M20 anchors staggered; all as per structure drwaing no 20-120-S-07.	9	nr			
N	150 x 150 long x 10mm thick plate with 2no M20 resin anchors; all as per structure drwaing no 20-120-S-15	10	nr			

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(27) ROOF (Cont)						
A	200 x 200 long x 15mm thick plate with 4no M20 resin anchors; all as per structure drwaing no 20-120-S-12	61	nr			
B	Apex Connection Endplate to extend out as fin plate for 203x133 UB30 Connection with 2no. M20 Bolts 20-120-S-07	10	nr			
Protective coatings						
<u>Surface treatments off site; Steelwork to be shot blasted all steelwork to surface quality SA2.5 according to Swedish Standard STS 05 59 00. Remove all traces of loose rust, grit, etc by compressed air hose or careful clean dry brushing. Inspect for laminations and remove by careful grinding leaving a smooth surfaces; all as per engineer drawings no 20-120-S-07 & Engineering Specification 6.16</u>						
Steelwork						
C	General surfaces	27.30	†			
<u>Surface treatments off site; Blast primer preparation apply by airless spray approved 2-pack Epoxy Zinc Rich Primer to Dft of 80 microns; all as per engineer drawings no 20-120-S-07 & Engineering Specification 6.16</u>						
Steelwork						
D	General surfaces	27.30	†			
<u>Surface treatments off site; Shop primer preparation apply by airless spray 2 no coats of an approved 2-pack micaceous iron oxide(MIO) to Dft of 100 microns; all as per engineer drawings no 20-120-S-07 & Engineering Specification 6.16</u>						
Steelwork						
E	General surfaces	27.30	†			
<u>Spot primer after fabrication; After fabrication carefully remove all weld flux and spatter, rough edges etc., by scraping, chipping and grinding to a smooth surface. Remove any unsound #scorched# primer around weld areas. Also remove all dust dirt grease etc. Wash with White Spirit where necessary. Then spot - prime all bare metal with Blast Primer.Allow to dry over night; all as per engineer drawings no 20-120-S-07 & Engineering Specification 6.14</u>						
Steelwork						
F	General surfaces	27.30	†			
<u>Steel to be hot dipped galvanised to EN ISO 1461; to a depth of 85 microns; all as per engineer drawings no 20-120-S-07 & Engineering Specification</u>						
Steelwork						
G	General surfaces	5.60	†			

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(27) ROOF (Cont)						
METALWORK						
Non Structural						
<u>Proprietary Masonry Support System - Anchon optima S/S outer leaf support system for 150mm cavity with 10Kn/m load capacity; to include all fixings etc; all in strict accordance with the Engineer's details and Drawings 20-120-S-07</u>						
Bars, Rods and the like						
A	Support Angles	73	m			
FLOOR, WALL & CEILING FINISHES						
Board Finishes						
<u>Gypsum board casing systems; Description: Fire encasement of proposed steel beams. System performance: Ss 25 25 45/235 Fire performance of encasement system to BS EN 13501; Ss 25 25 45/290 Compliance with performance requirements. System manufacturer: Kemwell Fire A1 Corex board or equivalent. Structural members: Steel beams. Support: A1 Corex board or equivalent. Linings. Face layer: Pr 25 71 52 29 Fibre-reinforced gypsum boards. Fasteners: As recommended by the manufacturer. Finish: Pr 35 31 64 32 Finish plasters. Execution: Ss 25 25 45/625 Installing encasement systems. System completion: Ss 25 25 45/895 Verification of performance; complete as per Architect's Drawings and Specification Ss 25 25 45 33</u>						
Casings						
B	203 x 203 x 203mm casings with 3 nr sides; all joints on box outs to be sealed with caulk and painted in; 10mm radius to all exposed corners; complete, screws, bolts, steel fixing; in various locations throughout building; complete	174	m			
C	356 x 171 x 356mm casings with 3 nr sides; all joints on box outs to be sealed with caulk and painted in; 10mm radius to all exposed corners; complete, screws, bolts, steel fixing; in various locations throughout building; complete	84	m			

					€	c
<u>(27) ROOF (Cont)</u>						
<u>PAINTING AND DECORATING</u>						
Painting						
<u>After galvanizing pre-treat steelwork with a T-wash modified zinc phosphate solution (or its proprietary equivalent) in accordance with manufacturers# instructions. Allow minimum recommended drying time prior to application of primer and decoration paint. Ensure maximum recommended drying time is not exceeded between T-wash application and paint application. After the application of each coat of paint and before the application of any subsequent coats, the Contractor shall ensure that the paint coat has been applied to the required dry film thickness (DFT) by the use of the methods in BS 3900: Part C5 for measuring dry film thickness. The paint system used shall be approved by the Engineer prior to application; Subsequent to erection touch up damaged areas with 2-pack epoxy micaceous iron oxide; all as per engineer drawings no 20-120-S-07 & Engineering Specification.</u> Structural Metalwork; members of roof trusses, purlins, rails, lattice girders and the like						
A	Girth exceeding 300mm	520	m2			

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<u>(28) FRAME</u>						
<u>SECTIONAL COMPLETION</u>						
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item			
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item			
<u>NOTES</u>						
C	1. When pricing the following items the Contractor's attention is drawn to the location of the site. The Contractor should also visit and check the site. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.		note			
D	2. Please refer to Consulting Engineers and Architect's Specification and Drawings		note			
E	3. In exceptional cases where it has not been possible to specify a generic element and a specific product has been named, an equivalent product to that specified is acceptable where it meets the technical, functional and aesthetic standards of that specified: the onus is on the contractor to ensure that an equivalent product to that specified meets the standard by means of an agreement cert, insurance backed guarantee or warranty, detailed specifications, fire test certificates where applicable, brochure and other means of proof of compliance. Notwithstanding this, the appropriate foregoing documentation and samples are to be provided to the architect prior to being incorporated into the construction		note			
<u>CONCRETE WORK</u>						
<u>In-Situ Concrete; Reinforced</u>						
<u>Concrete cubes for testing</u>						
Provide for making sampling and testing procedures shall comply with IS EN 12350 Testing Fresh concrete; transporting and testing cubes; all as per details in Engineer's Concrete Specification Section-3						
F	Size 150 x 150 x 150mm	60	nr			

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(28) FRAME (Cont)					
In-situ Concrete; Reinforced					
<u>Structural Concrete; Mix reference: Concrete grade: C28/35 XC1 (IS.EN.206) ; nominal maximum aggregate size: 20mm; additions complying with: The quality of materials and the standard of workmanship for the reinforced concrete shall comply with the relevant clauses of I.S. EN1992-1-1:2004 AND I.S. EN206-1 in regard to all requirements not otherwise described in this specification. The most recent published versions of the relevant standards apply; refer Engineer's Specification Section-3 for additional requirements</u>					
Beams					
A	Cross-sectional area not exceeding 0.10m2; Reinforced; RC Beams	28	m3		
B	Cross-sectional area exceeding 0.10m2; Reinforced; RC Beams	7	m3		
C	Cross-sectional area exceeding 0.10m2; Reinforced; RC Double Boot Beams	9	m3		
Columns					
D	Cross-sectional area not exceeding 0.10m2; Reinforced	56	m3		
Padstones					
E	Size; 675 x 215 x 225mm deep; to include all necessary formwork and reinforcement(2no H12); all as per drawing no 20-120-S-05 typical padstone details	11	nr		
Reinforcement					
<u>Bar reinforcement; Hot rolled high yield steel bars shall comply with IS EN 10080:2005 and BS 4449:2005 except that no bar shall contain a flash weld. All bars shall be cut and bent in accordance with BS 8666:2005; must be free of loose millscale and thoroughly cleaned to remove all loose rust, oil, grease or other harmful matter prior to being placed in position with and including all necessary laps, spacers, chairs and tying wire; all in strict accordance with the Engineers Drawings; refer to Engineer's Specification Section 3.20</u>					
Bar; straight or bent					
F	Nominal size not exceeding 12mm diameter	3.98	†		
G	12mm - 25mm	15.99	†		
H	exceeding 25mm	3.77	†		

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(28) FRAME (Cont)					
Formwork					
<u>Formwork; Design and construction of falsework and formwork shall be in accordance with BS 5975:2008; All as per accordance with Engineer's Drawings and Specification Section 3.9</u>					
Beams					
A	Isolated; rectangular; soffit height not exceeding 4.00m; cross sectional area not exceeding 0.10m2; RC Beams	319	m2		
B	Isolated; rectangular; soffit height not exceeding 4.00m; cross sectional area not exceeding 0.10m2; U Block Bend Beams	158	m2		
C	Isolated; rectangular; soffit height not exceeding 4.00m; cross sectional area exceeding 0.10m2; RC Beams	93	m2		
Columns					
D	Isolated; rectangular; height not exceeding 4.00m; cross sectional area not exceeding 0.10m2; Columns; complete with chamfered edges where exposed	386	m2		
E	Isolated; rectangular; height between 4.00 - 6.00m; cross sectional area not exceeding 0.10m2; Columns; complete with chamfered edges where exposed	374	m2		
Kickers					
F	Column; rectangular	68	nr		
<u>WOODWORK</u>					
Ironmongery, Accessories and Sundries					
<u>Farret 15mm thick Thermal Break insulation to Architects Specification and Drawing 7003</u>					
Insulation					
G	200 x 200mm; fixed behind relieving angle bracket; complete	203	nr		
<u>STEELWORK</u>					
Structural Steelwork					
<u>Fabricated, weldable steel; Steel Grades: S355 in accordance with relevant section of TO B.S. EN 10025/B.S.4360 AND B.S.4848, U.N.O; all as per Engineers Drawings: 20-120-S-07 & Strctural Engineering Specification.</u>					
Beams					
H	UB; Weight not exceeding 25kg/m	0.20	†		
J	UB; Weight between 25-50kg/m	0.40	†		

					€	c
(28) FRAME (Cont)						
Column						
A	SHS; Weight not exceeding 25kg/m	0.10	†			
Fittings						
B	General; including caps, bases, haunches, gussets, end plates, splice plates, cleats, brackets, stiffeners, distance pieces and the like	0.14	†			
<u>Kingspan or equivalent Purlins; fixed in accordance with Manufacturer's instructions; As per Structural Engineers Drawings & Specification.</u>						
Cold Rolled Members; Purlins / cladding rails; to canopy roofs						
C	M205065180 Purlin at the requisite centres: fixed to steel beam	0.20	†			
Protective coatings						
<u>Surface treatments off site; Steelwork to be shot blasted all steelwork to surface quality SA2.5 according to Swedish Standard STS 05 59 00. Remove all traces of loose rust, grit, etc by compressed air hose or careful clean dry brushing. Inspect for laminations and remove by careful grinding leaving a smooth surfaces; all as per engineer drawings no 20-120-S-07 & Engineering Specification 6.16</u>						
Steelwork						
D	General surfaces	0.70	†			
<u>Surface treatments off site; Blast primer preparation apply by airless spray approved 2-pack Epoxy Zinc Rich Primer to Dft of 80 microns; all as per engineer drawings no 20-120-S-07 & Engineering Specification 6.16</u>						
Steelwork						
E	General surfaces	0.70	†			
<u>Surface treatments off site; Shop primer preparation apply by airless spray 2 no coats of an approved 2-pack micaceous iron oxide(MIO) to Dft of 100 microns; all as per engineer drawings no 20-120-S-07 & Engineering Specification 6.16</u>						
Steelwork						
F	General surfaces	0.70	†			

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(28) FRAME (Cont)						
<u>Spot primer after fabrication; After fabrication carefully remove all weld flux and spatter, rough edges etc., by scraping, chipping and grinding to a smooth surface. Remove any unsound #scorched# primer around weld areas. Also remove all dust dirt grease etc. Wash with White Spirit where necessary. Then spot - prime all bare metal with Blast Primer.Allow to dry over night; all as per engineer drawings no 20-120-S-07 & Engineering Specification 6.14</u>						
Steelwork						
A	General surfaces	0.70	t			
<u>Bolts</u>						
2no M16 resin anchore Bolt with min 150mm embenment; all as per engineer's drawing 20-120-S-05						
B	Generally	18	nr			
<u>Holding down assemblies</u>						
C	Baseplate; 150x350x12mm steel baseplate with 2no M16 resin anchore Bolt with min 150mm embenment; all as per engineer's drawing 20-120-S-05	9	nr			
<u>METALWORK</u>						
Non Structural						
<u>Proprietary stainless steel Support System (304 Austenitic, EN 1.4301) Outer leaf support system for 150mm cavity with necessary thermal break; to include all fixings etc; all in strict accordance with the Engineer's details and Drawings 20-120-S-03 & 20-120-S-05</u>						
Bars, Rods and the like						
D	Support Angles	102	m			

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(28) FRAME (Cont)						
<u>FLOOR, WALL & CEILING FINISHES</u>						
Board Finishes						
Gypsum board casing systems; Description: Fire encasement of proposed steel beams. System performance: Ss 25 25 45/235 Fire performance of encasement system to BS EN 13501; Ss 25 25 45/290 Compliance with performance requirements. System manufacturer: Kemwell Fire A1 Corex board or equivalent. Structural members: Steel beams. Support: A1 Corex board or equivalent. Linings. Face layer: Pr 25 71 52 29 Fibre-reinforced gypsum boards. Fasteners: As recommended by the manufacturer. Finish: Pr 35 31 64 32 Finish plasters. Execution: Ss 25 25 45/625 Installing encasement systems. System completion: Ss 25 25 45/895 Verification of performance; complete as per Architect's Drawings and Specification Ss 25 25 45 33						
Casings						
A	203 x 102 x 203mm casings with 3 nr sides; all joints on box outs to be sealed with caulk and painted in; 10mm radius to all exposed corners; complete, screws, bolts, steel fixing; in various locations throughout building; complete	6	m			
B	203 x 133 x 203mm casings with 3 nr sides; all joints on box outs to be sealed with caulk and painted in; 10mm radius to all exposed corners; complete, screws, bolts, steel fixing; in various locations throughout building; complete	12	m			
<u>PAINTING AND DECORATING</u>						
Painting						
After galvanizing pre-treat steelwork with a T-wash modified zinc phosphate solution (or its proprietary equivalent) in accordance with manufacturers# instructions. Allow minimum recommended drying time prior to application of primer and decoration paint. Ensure maximum recommended drying time is not exceeded between T-wash application and paint application. After the application of each coat of paint and before the application of any subsequent coats, the Contractor shall ensure that the paint coat has been applied to the required dry film thickness (DFT) by the use of the methods in BS 3900: Part C5 for measuring dry film thickness. The paint system used shall be approved by the Engineer prior to application; Subsequent to erection touch up damaged areas with 2-pack epoxy micaceous iron oxide; all as per engineer drawings no 20-120-S-07 & Engineering Specification.						
Structural Metalwork; members of roof trusses, purlins, rails, lattice girders and the like						
C	Girth exceeding 300mm	16	m2			

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(28) FRAME (Cont)					
COLLECTION					
Page No. Extension/60					
Page No. Extension/61					
Page No. Extension/62					
Page No. Extension/63					
Page No. Extension/64					
Page No. Extension/65					
(28) FRAME Carried to Summary					
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<u>(31) EXTERNAL WALL COMPLETIONS</u>						
<u>SECTIONAL COMPLETION</u>						
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item			
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item			
<u>ROOFING, CLADDING AND WATERPROOFING</u>						
Flexible Sheet Metal Coverings						
<u>Preformed metal cills to Architects Specification; Aluminium: Powder Coated sheet/ strip. Alloy designation: EN AW-1050A. Temper: H12. Finish: Polyester Powder Coatings to section Z31. Thickness: 3mm; Fixing: 150mm wide Butt strapped joints; 3mm expansion joint between 3m lengths; Butt strap stitched and sealed against flashing on lower slope, and low-modulous silicone sealed on high side. Silicone sealant to carry 25 year lifespan. Insulation Backing: Rigid PIR board insulated backing to thicknesses indicated on detail drawings; Installation to be carried out at manufacturers recommended temperatures and conditions. Joints between lengths to make adequate provision for thermal expansion and contraction and maintain watertight seal; all to Architects Drawing 7003.</u>						
Cills						
C	300 - 450mm girth; three times bent	133	m			
<u>WOODWORK</u>						
Boarding and Second Fixings						
<u>Window Boards - General requirements: Ac 05 50 91/340 Timber sourcing; Manufacturer: Medite FR Clear or equivalent; Fire rating: To class 0 as defined in Building Regulations; Class: Class E1 formaldehyde content; Moisture content at time of fixing: 9-13%; Profile: As per Architects Details; Finished size: As per Architects Details; Finish as delivered: Sanded; Execution: Pr 35 90 43/606 Installing wood mouldings and trims; as per Architects Specification Pr 35 90 43 87 & Drawing 7003</u>						
Second Fixings; Window Boards						
D	320mm x 20mm thick; square edges; fixing to and including 44 x 18mm softwood shims/timber battens mechanically fixed to blockwork	133	m			

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(31) EXTERNAL WALL COMPLETIONS (Cont)					
METALWORK					
Non-Structural					
Description: The proposed window system is the APA ST70HI high performance casement window system, or equal approved; Supply and fit of aluminium alloy windows are to be in accordance with BS4873: 2009; Specification for Aluminium Alloy Windows. The window supplier shall submit evidence that the windows offered conform to the standard; External window & door systems must comply with the Department of Education technical guidance document TGD 21-1 https://www.education.ie/en/School-Design/Technical-Guidance-Documents/. For windows that are intended to be openable, the opening sashes however designed shall move freely and smoothly without hindrance throughout their intended range of movement. The range shall be restricted to an opening for child safety and to ensure adequate free openable area; Manufacturer: Submit proposals; Dimensions and configurations: Refer to Architects drawings; Product performance; Weather performance; Air permeability: EN 12207:2000; Class 3 at 600Pa. or better; Watertightness: BS EN 12208:2000, Test Class 9A at 600Pa. or better; Resistance to wind load: IS EN 12211: 2000, P1= 1600Pa., P2 = 800Pa., P3 = 2400Pa; Environmental; Background ventilation: 650 mm²/m² of floor area. Where indicated on window schedule, each window shall incorporate a ventilator and shall be polyester powder coated offering a single colour facility to match the window profiles. They should be fitted with an external, aluminium hood. The glazed in vents should be fitted with rod control. Each vent must be capable of providing a minimum free airflow in accordance with Part F of the current Building Regulations. Vents shall be tested to BS6375 Part 1. Background ventilation calculations must be provided with the shop drawings, in line with Department of Education guidance; Acoustic performance rating: BS EN ISO 140. The Rw sound reduction index for the Glazing should not be less than 27db; Thermal; Whole window U-value: 1.4 W/m²K; Frame; Profile: All profiles to be extruded from aluminium alloy 6063 T6, to BS EN 12020-2; 201601 / BS EN 755-9; 201601 and with polyamide thermal break sections manufactured from glass reinforced nylon sections, rigid foam core capable of withstanding temperatures in excess of 200 degrees. When ancillary components such as sills, couplings etc. are formed from sheet materials they shall be fabricated from designated alloys 1200, 3103, 5005 or 5251 conforming to BS EN 485-2:1995 in temper suitable for the particular type of application and degree of forming to be adopted. The aluminium profiles used in the construction of the frames excluding glazing beads, nibs, interlocks and similar features shall be, at minimum tolerance, not less than 1.2 mm thick; Opening Sections: For windows that are intended to be openable, the opening sashes however designed shall move freely and smoothly without hindrance throughout their intended range of movement. The range shall be restricted to an opening for child safety and to ensure adequate free openable area. All opening sections to be top hung and open out; Frame joints: Joints in frames shall be made either by welding or by mechanical means (e.g. cleating and screwing) and shall have flush, stepped or lapped surfaces. For flush joints formed by mechanical means, any deviation from the same plane shall be within the limits set by the use of extrusion tolerances given in BS EN 755-9.					
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<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u> <u>Welded joints shall be cleaned off smooth on surfaces that are exposed when the window is in the closed position and where the joints would otherwise project into the glazing space. Sealing of joints (i) Any frame joints, including those of the thermal barrier or cladding, which would otherwise cause loss of watertightness and/or increase of air permeability, should be sealed with sealant or by other means to achieve the performance required. (ii) Deviations in the plane of flush joints (iii) No allowance is given for assembly and machining tolerances. Therefore, to achieve the requirements specified it can be necessary to use extrusions with closer tolerances than those given in BS EN 755-9. In practice, to avoid sharp exposed edges etc., manufacturers might need to agree tolerances with the extrusion supplier. It can be necessary to fit "L" shaping backing plates (chevrons) to flanges of mitred cornered frames to correct misalignment due to angular tolerances.; Finish as delivered; Coating: Powder coating to BS EN 12206-1. A Polyester Powder coating Interpon D or Syntapulvin (Not a mixture of both) applied by Qualicoat approved applicator using a standard RAL colour in matt finish to EN12206-1 (2004). Prior to the application of the polyester power coating the aluminium profiles are to be pretreated using an 8-stage process of acid etching, Chrome or Chrome Free process to Qualicoat approval and water rinsing. A guarantee of 25 years must be applied for in advance of starting the project on site. It is noted that this period of time is subject to the location or proximity of the school to marine environment. Therefore 'Architectural powder coating to Qualicoat 'Seaside' standard from approved supplier' is required; Colour: Polyester Powder Coating in selected RAL colour. To be agreed with Architect; Glazing or infill; Standard: Glazing to BS 6262-1:2005.</u> <u>All safety Glazing to conform to 6262-4. Glazing to conform to the guidelines set out in this standard. Thermal transmittance for standard glazing shall be no greater than - 1.2 W/m2K = Centre pane U value. All units to be 24/28mm in thickness. Typical centre pane make up: 4mm glazing - 16mm argon filled cavity (90%) - 4mm soft coat thermal glazing. Where safety glazing is required the supplier shall submit calculations to show an overall Uvalue of 1.2 W/m2K. The spacer used to separate the glazing should be a warm edge spacer bar and the space between the panes filled with Argon gas. A minimum requirement for the U-value of the glazing for a window Design size: 1.2wide x 1.5m high top hung opening sash full size shall be 1.4W/m2K The glazing light transmittance factor shall not be less than 70%. All Glass to be hermetically sealed and Kite mark certified; Spandrel Panels: Pilkington Spandrel Glass Enamelled or similar approved. Double glazed units to achieve required U-Value. Colour to be agreed with Architect. Insulating glass units shall conform to BS 5713; Requirements: DOP's required. Ancillary Certificates required; Product Data: The contractor is required to submit to the Employers Representative (Lead Architect) manufacturer's product data for all materials in this specification; Shop Drawings: The contractor is required to submit to the Employers Representative (Lead Architect) profiles, accessories, location, and dimensions. Rapid and background ventilations calculations must be provided with the shop drawings, in line with Department of Education guidance;</u>		
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<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u>						
Site Dimensions: The dimensions provided on the tender documents are indicative and should only be used for pricing. It is the Contractor's responsibility to produce the dimensions with which the windows will be manufactured to; Samples: Manufacturer to provide upon request; sized to represent material adequately; Contract Closeout: The contractor is required to submit to the project supervisor the window manufacturer's warranty prior to the contract closeout; Hardware: BS EN 1670: 1998 Building Hardware. Corrosion resistance. Requirement and test method. All Ironmongery to comply with the requirements of DoES TGD 021-1:Guidance on the Specification of Windows. Multipoint single lever locking system is to be incorporated in all opening sashes. Where non-metallic components are incorporated, the material and specification for these should be selected according to the required function; Bearing devices: Metallic materials used for bearing devices and hardware shall have at least the equivalent corrosion resistance to BS EN 1670:1998, class 3 when subjected to a neutral salt spray test as specified in BS EN 1670. NOTE 1: For environments in very polluted localities such as those subject to combinations of industrial and coastal pollution, BS EN 1670:1998, class 4 should be used. NOTE 2 Requirements for hardware materials are specified in pr EN 131261). These requirements apply to both metallic and non-metallic materials; Fixing features: When the completed window is tested in accordance with BS 6375-1 and BS 6375-2, there shall be no degradation of the sealing or the operational function of the window due to failure of the sealing materials. NOTE: Materials should be able to withstand stresses during assembly, transportation, installation and operation of the window; Execution: Pr 30 59 98/635 Fixing of aluminium frames; as per Architects Specification Ss 25 30 95 26 Composite items; Windows						
A	Window Type 1.1 - overall size (including frame) 6385mm x 2260mm high; comprising 5nr hinged glazed unit; 4nr fixed glazed unit; 2nr coloured spandrel panels; complete; to Architect's Window Schedule	4	nr			
B	<u>Extra over</u> for Permavent background ventilator	24	nr			
C	<u>Extra over</u> for Window remote manual openers; Description: Telescopic remote opening device to be Teleflex gear or BJP window controls or equivalent; Stroke: All manual openers to achieve a stroke opening of 450mm minimum; Operation; Operating mechanism: Detachable turn handle; To suit windows: Top hinged. Centre pivoted; Execution: Pr_30_36_59/610 Fasteners for hardware Type A; as per Architects Specification Pr_30_36_59_97	12	nr			
D	<u>Extra over</u> for aluminium louvres; Description: Manufacturer: Window System Supplier; Product reference: Aluminium PPC Louvre Blades; Material: Aluminium; Size 450mm wide x 2160mm high Finish as delivered: Powder-coated; Fire performance: Not applicable; Number of louvre banks: One; Louvre blade pitch and angle: Pitch: 75 mm; Blanking panels: Manufacturer's standard; Accessories/ other requirements: Removable section for plant access Stainless steel bird mesh; Fixing: Fixed in Window System; as per Architects Specification and Drawing	4	nr			

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<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u>						
A	Window Type 2.1 - overall size (including frame) 685mm x 2035mm high; comprising 1nr hinged glazed unit; 1nr fixed glazed units; complete; to Architect's Window Schedule	2	nr			
B	<u>Extra over</u> for Permavent background ventilator	4	nr			
C	Window Type 3.1 - overall size (including frame) 2035mm x 2260mm high; comprising 2nr hinged glazed unit; 2nr fixed glazed units; 1nr coloured spandrel panels; complete; to Architect's Window Schedule	1	nr			
D	<u>Extra over</u> for Permavent background ventilator	2	nr			
E	<u>Extra over</u> for Window remote manual openers; Description: Telescopic remote opening device to be Teleflex gear or BJP window controls or equivalent; Stroke: All manual openers to achieve a stroke opening of 450mm minimum; Operation; Operating mechanism: Detachable turn handle; To suit windows: Top hinged. Centre pivoted; Execution: Pr_30_36_59/610 Fasteners for hardware Type A; as per Architects Specification Pr_30_36_59_97	1	nr			
F	Window Type 3.2 - overall size (including frame) 2260mm x 2035mm high; comprising 2nr hinged glazed units; 2nr fixed glazed unit; 1nr coloured spandrel panels; complete; to Architect's Window Schedule	8	nr			
G	<u>Extra over</u> for Permavent background ventilator	8	nr			
H	<u>Extra over</u> for Window remote manual openers; Description: Telescopic remote opening device to be Teleflex gear or BJP window controls or equivalent; Stroke: All manual openers to achieve a stroke opening of 450mm minimum; Operation; Operating mechanism: Detachable turn handle; To suit windows: Top hinged. Centre pivoted; Execution: Pr_30_36_59/610 Fasteners for hardware Type A; as per Architects Specification Pr_30_36_59_97	8	nr			
J	Window Type 3.3 - overall size (including frame) 2260mm x 2035mm high; comprising 2nr hinged glazed units; 2nr fixed glazed unit; 1nr coloured spandrel panels; complete; to Architect's Window Schedule	8	nr			
K	<u>Extra over</u> for Permavent background ventilator	32	nr			
L	<u>Extra over</u> for Window remote manual openers; Description: Telescopic remote opening device to be Teleflex gear or BJP window controls or equivalent; Stroke: All manual openers to achieve a stroke opening of 450mm minimum; Operation; Operating mechanism: Detachable turn handle; To suit windows: Top hinged. Centre pivoted; Execution: Pr_30_36_59/610 Fasteners for hardware Type A; as per Architects Specification Pr_30_36_59_97	16	nr			
M	Window Type 3.4 - overall size (including frame) 2260mm x 2260mm high; comprising 2nr hinged glazed units; 2nr fixed glazed unit; 1nr coloured spandrel panels; complete; to Architect's Window Schedule	4	nr			
N	<u>Extra over</u> for Permavent background ventilator	16	nr			

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<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u>		
<u>Extra over</u> for Window remote manual openers; Description: Telescopic remote opening device to be Teleflex gear or BJP window controls or equivalent; Stroke: All manual openers to achieve a stroke opening of 450mm minimum; Operation; Operating mechanism: Detachable turn handle; To suit windows: Top hinged. Centre pivoted; Execution: Pr_30_36_59/610 Fasteners for hardware Type A; as per Architects Specification Pr_30_36_59_97	4	nr
Window Type 3.5 - overall size (including frame) 2260mm x 2260mm high; comprising 2nr hinged glazed units; 2nr fixed glazed unit; 1nr coloured spandrel panels; complete; to Architect's Window Schedule	3	nr
<u>Extra over</u> for Permavent background ventilator	9	nr
<u>Extra over</u> for Window remote manual openers; Description: Telescopic remote opening device to be Teleflex gear or BJP window controls or equivalent; Stroke: All manual openers to achieve a stroke opening of 450mm minimum; Operation; Operating mechanism: Detachable turn handle; To suit windows: Top hinged. Centre pivoted; Execution: Pr_30_36_59/610 Fasteners for hardware Type A; as per Architects Specification Pr_30_36_59_97	3	nr
Window Type 3.6 - overall size (including frame) 2935mm x 2260mm high; comprising 2nr hinged glazed unit; 2nr fixed glazed units; 1nr coloured spandrel panels; complete; to Architect's Window Schedule	1	nr
<u>Extra over</u> for Permavent background ventilator	3	nr
<u>Extra over</u> for Window remote manual openers; Description: Telescopic remote opening device to be Teleflex gear or BJP window controls or equivalent; Stroke: All manual openers to achieve a stroke opening of 450mm minimum; Operation; Operating mechanism: Detachable turn handle; To suit windows: Top hinged. Centre pivoted; Execution: Pr_30_36_59/610 Fasteners for hardware Type A; as per Architects Specification Pr_30_36_59_97	1	nr
Window Type 3.7 - overall size (including frame) 2560mm x 2035mm high; comprising 2nr hinged glazed unit; 2nr fixed glazed units; 1nr coloured spandrel panels; complete; to Architect's Window Schedule	1	nr
<u>Extra over</u> for Permavent background ventilator	4	nr
<u>Extra over</u> for Window remote manual openers; Description: Telescopic remote opening device to be Teleflex gear or BJP window controls or equivalent; Stroke: All manual openers to achieve a stroke opening of 450mm minimum; Operation; Operating mechanism: Detachable turn handle; To suit windows: Top hinged. Centre pivoted; Execution: Pr_30_36_59/610 Fasteners for hardware Type A; as per Architects Specification Pr_30_36_59_97	1	nr

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<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u>						
A	<u>Extra over</u> for aluminium louvres; Description: Manufacturer: Window System Supplier; Product reference: Aluminium PPC Louvre Blades; Material: Aluminium; Size 450mm wide x 1935mm high Finish as delivered: Powder-coated; Fire performance: Not applicable; Number of louvre banks: One; Louvre blade pitch and angle: Pitch: 75 mm; Blanking panels: Manufacturer's standard; Accessories/ other requirements: Removable section for plant access Stainless steel bird mesh; Fixing: Fixed in Window System; as per Architects Specification and Drawing	4	nr			
B	Window Type 3.8 - overall size (including frame) 2935mm x 2560mm high; comprising 2nr hinged glazed unit; 2nr fixed glazed units; 1nr coloured spandrel panels; complete; to Architect's Window Schedule	1	nr			
C	<u>Extra over</u> for Permavent background ventilator	3	nr			
D	<u>Extra over</u> for Window remote manual openers; Description: Telescopic remote opening device to be Teleflex gear or BJP window controls or equivalent; Stroke: All manual openers to achieve a stroke opening of 450mm minimum; Operation: Operating mechanism: Detachable turn handle; To suit windows: Top hinged. Centre pivoted; Execution: Pr_30_36_59/610 Fasteners for hardware Type A; as per Architects Specification Pr_30_36_59_97	1	nr			
E	<u>Extra over</u> for aluminium louvres; Description: Manufacturer: Window System Supplier; Product reference: Aluminium PPC Louvre Blades; Material: Aluminium; Size 450mm wide x 1835mm high Finish as delivered: Powder-coated; Fire performance: Not applicable; Number of louvre banks: One; Louvre blade pitch and angle: Pitch: 75 mm; Blanking panels: Manufacturer's standard; Accessories/ other requirements: Removable section for plant access Stainless steel bird mesh; Fixing: Fixed in Window System; as per Architects Specification and Drawing	1	nr			
F	Window Type 4.1 - overall size (including frame) 2475mm x 685mm high; comprising 2nr hinged glazed units; 1nr coloured spandrel panels; complete; to Architect's Window Schedule	2	nr			
G	<u>Extra over</u> for Permavent background ventilator	4	nr			
H	<u>Extra over</u> for Window remote manual openers; Description: Telescopic remote opening device to be Teleflex gear or BJP window controls or equivalent; Stroke: All manual openers to achieve a stroke opening of 450mm minimum; Operation: Operating mechanism: Detachable turn handle; To suit windows: Top hinged. Centre pivoted; Execution: Pr_30_36_59/610 Fasteners for hardware Type A; as per Architects Specification Pr_30_36_59_97	4	nr			
J	Window Type 5.1 - overall size (including frame) 1200mm diameter; comprising 1nr fixed glazed unit; complete; to Architect's Window Schedule	2	nr			
K	Window Type 5.3 - overall size (including frame) 630mm diameter; comprising 1nr fixed glazed unit; complete; to Architect's Window Schedule	2	nr			
L	Window Type 5.4 - overall size (including frame) 1900mm diameter; comprising 1nr fixed glazed units; complete; to Architect's Window Schedule	1	nr			
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<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u>						
A	Window Type 7.1 - overall size (including frame) 1360mm x 1575mm high; comprising 1nr hinged glazed unit; 1nr fixed glazed unit; complete; to Architect's Window Schedule	1	nr			
B	<u>Extra over</u> for Permavent background ventilator	1	nr			
C	Window Type 8.1 - overall size (including frame) 6385mm x 2260mm high; comprising 8nr hinged glazed unit; 1nr fixed glazed units; 2 nr coloured spandrel panels; complete; to Architect's Window Schedule	7	nr			
D	<u>Extra over</u> for Permavent background ventilator	56	nr			
E	<u>Extra over</u> for Window remote manual openers; Description: Telescopic remote opening device to be Teleflex gear or BJP window controls or equivalent; Stroke: All manual openers to achieve a stroke opening of 450mm minimum; Operation: Operating mechanism: Detachable turn handle; To suit windows: Top hinged. Centre pivoted; Execution: Pr_30_36_59/610 Fasteners for hardware Type A; as per Architects Specification Pr_30_36_59_97	28	nr			
F	<u>Extra over</u> for aluminium louvres; Description: Manufacturer: Window System Supplier; Product reference: Aluminium PPC Louvre Blades; Material: Aluminium; Size 450mm wide x 2160mm high Finish as delivered: Powder-coated; Fire performance: Not applicable; Number of louvre banks: One; Louvre blade pitch and angle: Pitch: 75 mm; Blanking panels: Manufacturer's standard; Accessories/ other requirements: Removable section for plant access Stainless steel bird mesh; Fixing: Fixed in Window System; as per Architects Specification and Drawing	7	nr			
G	Window Type 11 (AOV) - overall size (including frame) 1360mm x 2130mm high; comprising 1nr hinged glazed unit; 1nr fixed glazed units; complete; to Architect's Window Schedule	1	nr			
H	<u>Extra over</u> for Permavent background ventilator	1	nr			
J	<u>Extra over</u> for Electronic opening device - Chain actuators; Description: Kato 300N chain actuator or equivalent; Manufacturer: Nekos or equivalent; Standard: Comply with the requirements of BS EN 12101-2; Stroke: 110mm / 200mm / 300mm / 400mm; Electrical supply: 230 V / 24 V d.c.; Operation: Sensor control; Finish: Powder-coated; Accessories: Mounting kit. Fixing brackets; Protection Class: IP 30; Execution: Pr_75_50_02/612 Installing chain actuators; as per Architects Specification Pr_75_50_02_13	1	nr			
K	Window Type 12 - overall size (including frame) 2980mm x 980mm high; comprising 4nr hinged glazed unit; complete; to Architect's Window Schedule	1	nr			
L	<u>Extra over</u> for Permavent background ventilator	8	nr			
M	<u>Extra over</u> for Window remote manual openers; Description: Telescopic remote opening device to be Teleflex gear or BJP window controls or equivalent; Stroke: All manual openers to achieve a stroke opening of 450mm minimum; Operation: Operating mechanism: Detachable turn handle; To suit windows: Top hinged. Centre pivoted; Execution: Pr_30_36_59/610 Fasteners for hardware Type A; as per Architects Specification Pr_30_36_59_97	4	nr			
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<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u>						
Pr 30 31 76 84 Structural sealant glazing bonding sealants; Standard: To BS EN ISO 11600; Sealant type: Designed and manufactured for bonding of structural sealant/ bonded glazing; Compatibility: Compatible with contact and close proximity products and finishes; Execution: Pr 30 31 76/610 Suitability of joints for sealant application Type A; Pr 30 31 76/620; joint preparation for sealant application Type A; Pr 30 31 76 85 Structural sealant glazing weather sealants; Standard: To BS EN ISO 11600; Sealant type: Designed and manufactured for weathersealing of structural sealant/ bonded glazing; Execution: Suitability of joints for sealant application Type A; Pr 30 31 76/620; Joint preparation for sealant application Type A; Powder coatings; Standard: To BS EN 12206-1; Powder formulation: Suitable for urban environment. Suitable for marine environment; Execution: Pr 35 31 68/620 Application of powder coating; Cover caps; Material: Pr 25 71 51 02 Aluminium long strips Type A; Profile: Rectangular; Purpose: Mullions; Transoms; Finish: Powder coating to BS EN 12206-1.; Colour: To be agreed with ER; Sheen: Matt.; Fixing: Pressure clip; Pr 35 90 33 20 Curtain wall glazing and panel gaskets; Material: To BS 4255-1, black EPDM rubber; Gasket type: Glazing; Corners: Factory moulded corner joints.; Ethylene propylene diene monomer (EPDM) rubber section glazing trims; Standard: To BS 4255-1; Colour: Black; Product samples; Submittals: Each type of curtain wall, door, window fastener, with details of methods of adjustment and tolerances; Purpose: For use as a reference sample; Labelling: Clearly label all submitted samples; Timing: Before ordering and in line with ER material submission requirements. Keep on site until project completion; Custom made opening lights; Standard: To CWCT Standard for systemised building envelopes, clause 4.2 and Department of Education Technical Guidance document TGD-21-1; Framing members; Material: Aluminium; Coating: Pr 35 31 68 66 Powder coatings; Colour: To be agreed with ER; Glazing; Product: Pr 25 71 33 46 Laminated glass sheets; Glazing accessories: Pr 35 90 33 20 Curtain wall glazing and panel gaskets; Opening lights restrictive catches: Refer to Architects window & external door schedules; Fasteners: Concealed multipoint, operated by an internal handle; Custom made doorsets; Standard: To CWCT Standard for systemised building envelopes, clause 4.3 and Department of Education Technical Guidance document TGD-21-1; Framing members; Material: Aluminium; Coating: Pr 35 31 68 66 Powder coatings; Colour: To be agreed with ER; Glazing; Product: Pr 25 71 33 46 Laminated glass sheets; Glazing accessories: Curtain wall glazing and panel gaskets; Doors designated for use by disabled persons: As Door schedule; Durability: To BS EN 12400, class 6; Custom made integrated access equipment; Standard: To CWCT Standard for systemised building envelopes, clause 4.8; Component; Material: Aluminium; Coating: Pr 35 31 68 66 Powder coatings; Colour: To be agreed with ER; as per Architect's Specification Pr 20 76 51 02 and Ss 25 10 20 85.						
A	Composite items; Aluminium Curtain wall					
B	Aluminium Curtain wall Type CW01; overall size (including frame and 1nr double door measured elsewhere) 3600mm long x 6595mm high; comprising 14nr fixed glazed units; complete; to Architect's Curtain Wall Schedule Drawing 6103	1	nr			
C	<u>Extra over</u> for safety glass - class 2B2	4	nr			

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<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u>						
A	<u>Extra over</u> for manifestation to glazing	4	nr			
B	External Door System - External doors [Min. u-value 1.4 W/m2K]; Double glazed aluminium framed thermally broken external doors with polyester powder coat finish in selected RAL colour, with low E argon filled double glazed units, installed as per manufacturers specifications and details; all in accordance with Architect's specification and drawings					
C	Composite items; Doors, Screens & Windows (combined sets)					
D	Door Type DX01 - Double Doors with Side Screens & Fanlight; Overall nominal size (including frame) 3075mm wide x 2445mm high; comprising 1nr double door size 1430mm x 2145mm high; 2nr fixed glazed units per door leaf; 2nr side screens size 550mm x 2445mm high comprising 1nr fixed glazed units per screen; 1nr glazed unit Fanlight size 1826mm x 300mm high; complete; to Architect's External Door Schedule	1	nr			
E	<u>Extra over</u> for Safety Glass - Class 2B2	4	nr			
F	<u>Extra over</u> for manifestation to glazing	4	nr			
G	Door Type DX02 - Double Doors & Fanlight; Overall nominal size (including frame) 1810mm wide x 2475mm high; comprising 1nr double door size 1810mm x 2145mm high; 4nr fixed glazed units per door leaf; 1nr fanlight size 1810mm x 335mm high; complete; to Architect's External Door Schedule	1	nr			
H	<u>Extra over</u> for Safety Glass - Class 2B2	4	nr			
J	<u>Extra over</u> for manifestation to glazing	2	nr			
K	Door Type DX03 - Double Doors & Fanlight; Overall nominal size (including frame) 1800mm wide x 3045mm high; comprising 1nr double door size 1800mm x 2145mm high; 4nr fixed glazed units per door leaf; 1nr fanlight size 1800mm x 900mm high; complete; to Architect's External Door Schedule	1	nr			
L	<u>Extra over</u> for					
M	<u>Extra over</u> for Safety Glass - Class 2B2	4	nr			
N	<u>Extra over</u> for manifestation to glazing	2	nr			
P	<u>Extra over</u> for aluminium louvres; Description: Manufacturer: Window System Supplier; Product reference: Aluminium PPC Louvre Blades; Material: Aluminium; Size 450mm wide x 2095mm high Finish as delivered: Powder-coated; Fire performance: Not applicable; Number of louvre banks: One; Louvre blade pitch and angle: Pitch: 75 mm; Blanking panels: Manufacturer's standard; Accessories/ other requirements: Removable section for plant access Stainless steel bird mesh; Fixing: Fixed in Window System; as per Architects Specification and Drawing	1	nr			

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<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u>					
A	Door Type DX04 - Double Doors & Fanlight; Overall nominal size (including frame) 2015mm wide x 3045mm high; comprising 1nr double door size 2015mm x 2145mm high; 4nr fixed glazed units per door leaf; 1nr fanlight size 2015mm x 900mm high; complete; to Architect's External Door Schedule	1	nr		
B	<u>Extra over</u> for Safety Glass - Class 2B2	4	nr		
C	<u>Extra over</u> for manifestation to glazing	2	nr		
D	Door Type DX05 - Double Doors & Fanlight; Overall nominal size (including frame) 2475mm wide x 2735mm high; comprising 1nr double door size 2475mm x 2145mm high; 4nr fixed glazed units per door leaf; 1nr fanlight size 2475mm x 590mm high; complete; to Architect's External Door Schedule	1	nr		
E	Door Type DX06 - Double Doors; Overall nominal size (including frame) 2470mm wide x 2445mm high; comprising 1nr double door; 4nr fixed glazed units per door leaf; complete; to Architect's External Door Schedule	1	nr		
F	<u>Extra over</u> for Safety Glass - Class 2B2	4	nr		
G	<u>Extra over</u> for manifestation to glazing	2	nr		
H	Door Type DX07 - Double Doors; Overall nominal size (including frame) 2470mm wide x 2445mm high; comprising 1nr double door; 4nr fixed glazed units per door leaf; complete; to Architect's External Door Schedule	1	nr		
J	<u>Extra over</u> for Safety Glass - Class 2B2	4	nr		
K	<u>Extra over</u> for manifestation to glazing	2	nr		
<u>PAINTING & DECORATING</u>					
Painting					
<u>Waterborne finishes to internal joinery; Description: Dulux Easycare Satinwood paint to all Internal MDF and non-resinous softwood / hardwood; Manufacturer: Dulux Paints Ireland or equivalent; Product reference: Dulux Easycare Satinwood (satin finish); Coverage: 12m2/litre; Preparation: To get the best results with Dulux Easycare Satinwood, make sure surfaces to be painted are sound, clean, dry (new surfaces particularly must be fully dry); Remove all loose and defective paint; Colour: to be agreed; Execution: Pr 35_31_22/703 Applying coating Internal woodwork; as per Architects Specification Pr 35_31_22_95</u>					
General Surfaces					
L	Girth exceeding 300mm; Window Boards, reveals, head liners etc.	154	m2		

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(32) INTERNAL WALL COMPLETIONS					
<u>SECTIONAL COMPLETION</u>					
Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever					
	1	item			
Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections					
	1	item			
<u>WOODWORK</u>					
Boarding and Second Fixings					
MDF Architraves - General requirements: Ac 05 50 91/340 Timber sourcing; Manufacturer: Medite FR Clear or equal approved; Class: To BS EN 622-5, Class E1 formaldehyde content; Profile: As per architects drawings; Finish: Primed and painted with selected Dulux Trade Satinwood; Colour: To be agreed with architect; Execution: Pr 35 90 43/606 Installing wood mouldings and trims; as per Architects Specification Pr 35 90 43 58					
Second Fixing; Architraves					
75mm wide x 18mm thick; fixed to blockwork; to jambs and heads of Internal Doors; all in strict accordance with Drawings 7004 - 7005					
	331	m			
Wood Quadrant Beading - Manufacturer: Medite FR Clear or equal approved; Standard: To BS EN 942; Fire rating: To class 0 as defined in Building Regulations; Class: To BS EN 622-5, Class E1 formaldehyde content; Moisture content at time of fixing: 9#13%; Profile: As per Architects details; Finished size: As per Architects details; Finish as delivered: Sanded; Execution: Pr 35 90 43/606 Installing wood mouldings and trims; as per Architects Specification Pr 35 90 43 87					
Second Fixing; Architraves					
18mm wide x 18mm thick; fixed to blockwork; to jambs and heads of Internal Doors / Screens; all in strict accordance with Drawings 7004 - 7005					
	331	m			
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(32) INTERNAL WALL COMPLETIONS (Cont)						
Composite Items						
<u>Wood Doorsets; Description: Factory manufactured solid core doorsets. All doorsets to be laminate faced with factory primed and painted hardwood slips, framing, architraves and trims finished prior to arrival on site; Third party accreditation: European recognised certification, Trada, Certifire or Equivalent; Standard: Internal non-fire rated doorset third party accredited. Internal fire rated doorset to BS 8214 and third party accredited; Wood in joinery standard: To BS EN 942.; Configuration: Varies - Refer to Architects internal door schedule; Doorset size: Varies - Refer to Architects internal door schedule; Format: Varies - Refer to Architects internal door schedule; Performance; Fire performance; Fire integrity: To BS 476-22, 30 minutes. To BS 476-22, 60 minutes. Varies - Refer to Architects internal door schedule; Fire insulation: To BS 476-22, 30 minutes. To BS 476-22, 60 minutes. Varies - Refer to Architects internal door schedule; Smoke control: To BS EN 13501-2, class Sa. All fire doors require smoke control; Reaction to fire: To BS EN 13501-1, class B-s3, d2 or better;</u> <u>Acoustic performance: To BS EN ISO 10140-2, sound reduction index Rw 30 dB minimum; Strength and durability: To BS EN 1192, Class 3; Frame; Material: Hardwood; Species: Iroko; Appearance class: J40; Perimeter seals or inserts: Acoustic seals. Fire and smoke seal; Finish: Full paint finish; Colour: To be agreed with ER; Frame accessories: Refer to Architects door and ironmongery schedules; Door leaf; Thickness: 44mm for non-fire rated doors. 56mm for fire rated doors; Core: Solid core. Appearance class: J40. Panel details: Refer to Architects door schedule. Facings: VGS grade laminate. Lippings: Hardwood, painted. Perimeter seals: Acoustic, Fire and smoke; In accordance with Architects door schedule; Finish: sanded sealed and varnished. Free from splinters; Glazing: Type: Refer to Architects door schedule. All glazing to be clear. Fire-resisting safety glazing in accordance with BS 6262-4. Clear single safety glazing in accordance with BS 6262-4.</u> <u>All glazing to display stamp for Kite mark certification; Manifestation: Refer to Architects door schedule; Beading; Material: Softwood for non-fire rated doors. Hardwood for fire rated doors. In accordance with manufacturers third party certification; Fixing: In accordance with manufacturers third party certification; Door accessories: Refer to Architects door & ironmongery schedules; Planted stops; Wood species: Iroko; Appearance class: J40; Finish: Full paint finish; Colour: To be agreed with ER; Hardware: Refer to Architects door & ironmongery schedules; Architraves; Material: Medite Clear MDF; Wood appearance class: To BS EN 942, Class J40; Finish: Primed ready for site finish; Accessories: Refer to Architects door & ironmongery schedules; Execution: Pr 30 59 23/630 Installing hardware; Pr 30 59 23/640 Workmanship in joinery; as per Architect's Specification Pr 30 59 24 97 and Ss 25 30 20 25.</u> Door Type 1.1; Single door and Associated Frame Sets; non-fire rated						
A	Overall opening size 850mm wide x 2145mm high; comprising of 1nr single door; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	14	nr			

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<u>(32) INTERNAL WALL COMPLETIONS (Cont)</u>						
Door Type 1.2; Single door and Associated Frame Sets; non-fire rated						
A	Overall opening size 1125mm wide x 2145mm high; comprising of 1nr single door; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	1	nr			
Door Type 1.2; Single door (double swing) and Associated Frame Sets; non-fire rated						
B	Overall opening size 1125mm wide x 2145mm high; comprising of 1nr single double swing door; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	1	nr			
Door Type 1.4; Single door and Associated Frame Sets; non-fire rated						
C	Overall opening size 900mm wide x 2145mm high; comprising of 1nr single door; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	3	nr			
Door Type 2.3; Single door & Screen and Associated Frame Sets; non-fire rated						
D	Overall opening size 1810mm wide x 2145mm high; comprising of 1nr single door, incorporating 1nr vision panel size 210mm wide x 1660mm high; 1nr side screen incorporating 1nr glazed panel; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	13	nr			
Door Type 2.5; Single door and Associated Frame Sets; non-fire rated						
E	Overall opening size 1010mm wide x 2145mm high; comprising of 1nr single door, incorporating 1nr vision panel size 210mm wide x 1660mm high; 1nr door vent size 200mm x 200mm; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	2	nr			
Curtain Walling Door Type CW1; Double door and Associated Frame Sets; non-fire rated						
F	Overall opening size 2520mm wide x 2145mm high; comprising of 2nr single door; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	1	nr			
Door Type 2.1; Single door & Screen and Associated Frame Sets; 30min fire rated						
G	Overall opening size 1575mm wide x 2145mm high; comprising of 1nr single door, incorporating 1nr vision panel size 205mm wide x 1660mm high and side screen size 490mm wide x 2145mm high; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	1	nr			
Door Type 2.4; Single door and Associated Frame Sets; 30min fire rated						
H	Overall opening size 1125mm wide x 2145mm high; comprising of 1nr single door, incorporating 1nr vision panel size 205mm wide x 1660mm high; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	3	nr			

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<u>(32) INTERNAL WALL COMPLETIONS (Cont)</u>						
Door Type 2.2; Single door & Screen and Associated Frame Sets; 30min fire rated						
A	Overall opening size 1810mm wide x 2145mm high; comprising of 1nr single door, incorporating 1nr vision panel size 210mm wide x 1660mm high; 1nr side screen incorporating 1nr glazed panel; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	8	nr			
Door Type 3.2; Door and a Half and Associated Frame Sets; 30min fire rated						
B	Overall opening size 1810mm wide x 2145mm high; comprising of 1nr single door and 1nr half door, incorporating 2nr vision panel size 205mm wide x 1660mm high; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	1	nr			
Door Type 7.2; Double door and Associated Frame Sets; 30min fire rated						
C	Overall opening size 1810mm wide x 2145mm high; comprising of 1nr single door and 1nr half door, incorporating 2nr vision panel size 205mm wide x 1660mm high; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	2	nr			
Door Type 7.5; Double door and Associated Frame Sets; 30min fire rated						
D	Overall opening size 1810mm wide x 2385mm high; comprising of 2nr single doors, incorporating 2nr vision panel size 200mm wide x 1660mm high; 1nr panel 1960mm wide x 240mm high; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	1	nr			
Door Type 1.3; Single door and Associated Frame Sets; 60min fire rated						
E	Overall opening size 1125mm wide x 2145mm high; comprising of 1nr single door; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	2	nr			
Door Type 3.1; Door and a Half and Associated Frame Sets; 60min fire rated						
F	Overall opening size 1585mm wide x 2145mm high; comprising of 1nr single door and 1nr half door; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	1	nr			
Door Type 4.2; Double door and Associated Frame Sets; 60min fire rated						
G	Overall opening size 1810mm wide x 2385mm high; comprising of 2nr single doors, incorporating 2nr vision panel size 200mm wide x 1660mm high; 1nr panel 1960mm wide x 240mm high; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	1	nr			
Door Type 10; Single door and Associated Frame Sets; 60min fire rated						
H	Overall opening size 1010mm wide x 2145mm high; comprising of 1nr single door; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	1	nr			

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<u>(32) INTERNAL WALL COMPLETIONS (Cont)</u>						
Door Type 5.1; Double door and Associated Frame Sets; 60min fire rated						
A	Overall opening size 2260mm wide x 2800mm high; comprising of 2nr single door, incorporating 2nr vision panel size 200mm wide x 1660mm high; 1nr panel size 2260mm wide x 655mm high; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	3	nr			
<u>Vision panels - Description: Glass shall be selected by the contractor to achieve the required performance as specified in the fire certificate drawings, technical report and tender drawings. Georgian wire is not acceptable. Size of glazing units shall be as per the door schedule elevations with glazing in accordance with BS 6262-4: 2005 & BS 8214: 2008 and shall not exceed the permitted sizes specified in the glass technical literature. Glazing elements to be factory fitted. Glazing will not be allowed on site. Only complete tested glazing systems shall be used. These should identify the glass product type and thickness, glazing seals, beads and fixings. Components within a glazing system should not be interchanged without relevant test evidence. Written test certification shall be provided for verification purposes. Glazing to be set in Lorient intumescent glazing system channel to match door fire rating fitted to vision panel with ancillary beading; Manufacturer: Pyroguard UK Ltd; Product reference: Pyroguard Rapide Plus EI (EI60 INT, 23 mm); Third-party certification: CE certified, UKCA certified; Laminate glass type: Fire and safety; Thickness: 23 mm; Outer leaf: Laminated glass; Inner leaf: Laminated glass; Interlayer to glass leaves: Silicate; Body colour: Clear; Performance requirement; Fire resistance; Integrity: To BS EN 13501-2, E 60 minutes; Insulation: To BS EN 13501-2, EI60 minutes; Impact resistance: To BS EN 12600, 181; Product reference: Pyroguard Firesafe E, EW (T-EW60/6); Third-party certification: CE certified, UKCA certified; Laminate glass type: Fire and Safety; Thickness: 12mm; Performance requirements: Integrity: To BS EN 13501-2, E 60 minutes. To BS EN 13501-2, E 30 minutes; Insulation: To BS EN 13501-2, EI30 minutes. To BS EN 13501-2, EI60 minutes; as per Architects Specification Pr 30 59 97 94</u>						
Composite items; Screens non-fire rated						
B	Internal Screen 01; overall size (including frame) 5400mm long x 2800mm high; comprising 1nr double doors (size 2520mm wide x 2145mm high); 8nr fixed glazed units; complete; to Architect's Internal Screen Schedule Drawing 6109	1	nr			
C	<u>Extra over</u> for safety glass - Class 2B2	1	Item			
D	<u>Extra over</u> for Glazing manifestation located between 850mm-1000mm high & 1400mm-1600mm high as indicated on architects drawing 6109	1	Item			
E	Internal Screen 02; overall size (including frame) 5400mm long x 2800mm high; comprising 12nr fixed glazed units; complete; to Architect's Internal Screen Schedule Drawing 6109	1	nr			
F	<u>Extra over</u> for safety glass - Class 2B2	1	Item			
G	<u>Extra over</u> for Glazing manifestation located between 850mm-1000mm high & 1400mm-1600mm high as indicated on architects drawing 6109	1	Item			
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Extension/85						

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<u>(32) INTERNAL WALL COMPLETIONS (Cont)</u>		
Composite items; Screens 60min rated		
Internal Screen 03; overall size (including frame) 7815mm long x 2800mm high; comprising 18nr fixed glazed units; complete; to Architect's Internal Screen Schedule Drawing 6109	1	nr
<u>Extra over</u> for safety glass - Class 2B2	1	Item
Internal Screen 04; overall size (including frame) 1135mm long x 1245mm high; complete; to Architect's Internal Screen Schedule Drawing 6109	1	nr
<u>Extra over</u> for safety glass - Class 1B1	1	Item
Ironmongery, Accessories And Sundries		
<u>Supply and fix the following ironmongery items; Manufacturer: Contractor to submit proposals for approval; including all necessary fixings; fixing in strict accordanes with the Architects specification and manufacturer's printed instructions; refer to Ironmongery Schedule</u>		
Ironmongery; to doors		
Electrical provisons and wiring to be provided by the Electrical Contractor	1	note
Ironmongery Set KC1001.1	2	nr
Ironmongery Set KC1003.1	2	nr
Ironmongery Set KC1056.1	16	nr
Ironmongery Set KC1084.1	2	nr
Ironmongery Set KC1109.1	16	nr
Ironmongery Set KC1110.1	5	nr
Ironmongery Set KC1111.1	1	nr
Ironmongery Set KC2002.1	1	nr
Ironmongery Set KC2443.1	2	nr
Ironmongery Set KC2703.1	4	nr
Ironmongery Set KC3702.1	2	nr
Ironmongery Set KC4614.1	1	nr
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<u>(32) INTERNAL WALL COMPLETIONS (Cont)</u>						
<u>Sealing gap between door frames and blockwork walls; gap to be filled to full width of frame with ram packed mineral wool; all in strict accordance with Architect's Drawing 7004</u> Sundries; Seals A 10mm wide					331	m
<u>Sealing gap between door frames and blockwork walls; gap to be sealed on both sides with non-hardening sealant; all in strict accordance with Architect's Drawing 7004</u> Sundries; Seals B 10mm wide					662	m
<u>Acoustic seal between door & door frames; Batwing perimeter seal to frame with threshold seal to door base (measured elsewhere); all in strict accordance with Architect's Drawing 7005</u> Sundries; Seals C Batwing acoustic seal					331	m
<u>Acoustic seals to internal doors; Threshold seal to bottom of doors; fire rated acoustic drop seal (max drop 15mm); fitted in accordance with manufacturer's instructions; all in strict accordance with Architect's Drawing 7005</u> Sundries; Seals D Generally					83	m
<u>PAINTING & DECORATING</u>						
<u>Painting</u>						
<u>Waterborne finishes to internal joinery - Description: Dulux Easycare Satinwood paint to all Internal MDF and non-resinous softwood/hardwood; Manufacturer: Dulux Paints Ireland, Commons Road, Cork, Ireland Tel. Number:+353 (0) 21 4220222; Product reference: Dulux Easycare Satinwood (satin finish); Coverage: 12m#/litre; Preparation: To get the best results with Dulux Easycare Satinwood, make sure surfaces to be painted are sound, clean, dry (new surfaces particularly must be fully dry). Remove all loose and defective paint; Colour: to be agreed; Execution: Pr 35 31 22/703 Applying coating Internal woodwork; as per Architects Specification Pr 35 31 22 95</u> General Surfaces						
E Girth not exceeding 300mm; Architraves, Quadrant beading					531	m
F Girth exceeding 300mm; Doors					362	m2

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(34) STAIRS COMPLETIONS					
<u>SECTIONAL COMPLETION</u>					
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item		
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item		
<u>METALWORK</u>					
Non-Structural					
<u>Stainless steel handrails - refer to Architects detailed drawings; 50mm diameter satin finish stainless steel handrail; fixed to concrete block wall with 8mm flat plate steel support brackets at max. 950mm CTS; Manufacturer: Submit proposals; Standard: To BS EN 10088-2, Grade 1.4301 (304); Diameter: 50mm/32mm; Finish: To BS EN 10088-2, 1K/2K Satin polished; Accessories; Materials generally: To match handrail; Adapters and panel clips; Handrail tube saddle with adjustable flat top, size to suit handrail diameter. Handrail tube connector, size to suit handrail diameter; Diameter handrail tube panel clip to suit to 1.5#4 mm panels, size to suit handrail diameter; Brackets: Handrail tube bracket with straight flat top, size to suit handrail diameter. Handrail tube wall bracket with adjustable top, size to suit handrail diameter. Handrail tube circular pattern, side fix, size to suit handrail diameter; Posts: Refer to Architects Stair details; Base plates and covers: Base plate, size to suit handrail diameter; Cover for base plate, size to suit handrail diameter; End caps: Handrail tube scroll, size to suit handrail diameter; Angles and tees: Handrail tube fixed 90° elbow, size to suit handrail diameter; as per Architects Specification Pr 25 30 36 84 and Drawings 4501 & 4502</u>					
Composite Items; Handrails, Complete					
C	Raking; to blockwork or concrete base; fixed 600mm high above FFL	14	m		
D	Horizontal; to blockwork or concrete base; fixed 600mm high above FFL	12	m		
E	<u>Extra over</u> handrails for Ramps	8	nr		
F	<u>Extra over</u> handrails for Ends; handrail to extend 300mm beyond last step and turn down 150mm	4	nr		
G	<u>Extra over</u> handrails for Bends	4	nr		
Composite Items; Handrails, Complete					
H	Raking; to blockwork or concrete base; fixed 950mm high above FFL	14	m		
J	Horizontal; to blockwork or concrete base; fixed 950mm high above FFL	12	m		
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Extension/90					

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<u>(34) STAIRS COMPLETIONS (Cont)</u>					
A	<u>Extra over</u> handrails for Ramps	8	nr		
B	<u>Extra over</u> handrails for Ends; handrail to extend 300mm beyond last step and turn down 150mm	4	nr		
C	<u>Extra over</u> handrails for Bends	4	nr		
Purpose-made balustrades - Description: Steel perforated Infill panels to Stairs as shown on drawings; Component material, grade and finish as delivered; Guarding: Low-carbon steel - galvanized; Handrails: Low-carbon steel - galvanized; Lower handrail: Not required; Workmanship: Joinery: Not applicable; Metalwork: To section Z11; Reaction to fire: Manufacturer's standard; Other requirements: LRV contrast to be confirmed prior to manufacture; Fixing: Side-fixed to steel as detailed on drawings; Centres: see drawings with fixings as per sub contractors recommendations; as per Architects Specification L30 550 and Drawings 750; to Architects Drawings 4501 & 4502 Composite Items; Handrails & Balustrades, Complete					
D	Raking to concrete base; 1400mm high above FFL	14	m		
E	Horizontal; to concrete base; 1400mm high above FFL	6	m		
F	<u>Extra over</u> balustrade for Ramps	4	nr		
G	<u>Extra over</u> balustrade for Ends; handrail to extend 300mm beyond last step and turn down 150mm	2	nr		
H	<u>Extra over</u> balustrade for Bends	4	nr		
<u>PAINTING AND DECORATING</u>					
Painting					
<u>Paint to internal mild steel guard rails and handrails; preparation in accordance with Ss 40 90 60/620; Dulux Trade or equivalent. Initial coats. Number of coats: One. Thinning: None. Application: Brush. Finishing coats. Number of coats: Two. Application: Brush; as per Architect's Specification Ss 40 90 60 80 and Drawings 4501 & 4502</u>					
J	Handrails				
K	Not exceeding 300mm wide	92	m		
	Balustrades				
L	Exceeding 300mm wide	54	m2		

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(34) STAIRS COMPLETIONS (Cont) COLLECTION Page No. Extension/90 Page No. Extension/91 (34) STAIRS COMPLETIONS Carried to Summary					
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<u>(37) ROOF COMPLETIONS</u>					
<u>SECTIONAL COMPLETION</u>					
Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever				1	item
Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections				1	item
<u>METALWORK</u>					
Non-Structural					
<u>Rooflight Type A - Description: Modular Rooflight; System performance; System manufacturer: VELUX Commercial; Product reference: VMS Longlight 5-25 degrees; Form: Longlight modular skylight; Size: Available in modules from 675 x 1200 mm to 1000 x 2400 mm; Product performance; Fire performance; Fire resistance: To EN 1365-2 / EN 13501-2 + A1; Reaction to fire: To EN ISO 11925-2 / EN 13823, Class B; Whole window U-value; 1.6 W/m2k Frame; Material: Aluminium; Finish; Coating: Scratch-resistant powder lacquer; Colour: White; Film thickness (minimum): 40 aem; Glazing or infill; Type: Mono-pitched toughened outer glass and laminated inner safety glass solution; Construction; Colour; Coating; Integral kerb; Operation; Type; Control; Accessories; Execution: Installation of framed rooflights; Execution; System completion; as per Architect's Specification and Drawing 6106</u>					
Composite Item; Rooflight Type A					
Overall size 6520 x 1970mm				4	nr
<u>Rooflight Type B - Framed rooflights; Description: Smoke Ventilation Roof light; Manufacturer: VELUX Company Ltd; Product reference: CSP Flat Roof Smoke Ventilation Window; Form: Electrically operated flat roof window for smoke ventilation with polycarbonate dome cover; Size; Product performance; Fire performance; Reaction to fire: AA fire rated; Whole window U-value: 1.6 W/m#K; Frame; Material: PVC; Finish; Colour: White base unit, black brown profiles on top cover; Glazing or infill; Type: Double glazed window with laminated inner pane for additional safety; Integral kerb: Kerb height of 300 mm; Operation; Type: Electrically operated via KFC Smoke Vent Control (purchased separately); Accessories; Execution: Installation of framed rooflights; Window code; Control systems; Execution; Completion; as per Architect Specification Pr 30 59 72 31 and Drawing 6106</u>					
Composite Item; Rooflight Type B					
Overall size 1000 x 1200mm				1	nr
Overall size 1200 x 1200mm				1	nr
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<u>(37) ROOF COMPLETIONS (Cont)</u> Guided type fall arrest systems; Description: Roof mounted Fall Arrest System with cables, anchors & ladders; System performance: Ss 80 30 25/205 Design submittals; System manufacturer: Skyway Safe Access Equipment or equivalent; Pre-installation survey: Ss 80 30 25/610 Suitability of structure and fabric; Type(s) of System/Equipment: GUIDED TYPE FALL PREVENTION SYSTEM FOR: PITCHED AND FLAT ROOF AREAS; Refer to Architects Roof Plans; Manufacturer Skyway Safe Access Equipment or equivalent; Anchorage device: 8mm Stainless steel cable; Overall system length: as sub-contractors design; Anti-Pendulum Anchors as required by the design to prevent swing-fall; Intermediate support spacing: as sub-contractors design; Accessories/other requirements: as subcontractors design; System to be installed in accordance with EN 795 by the system manufacturer or a contractor approved by the system manufacturer; System must be continuous at all intermediate and corner brackets - users must not have to detach from the system to bypass brackets; Cable system to be supported on posts as below; Sub-contractor to prove the roof can take the loads from the posts; Posts may deform in the event of a fall but must not come apart - i.e. must be fully welded with no internal spring or other active mechanisms; Composite Panel Roofs; Stainless steel posts to attach to the top skin of composite roof panels; Membrane on Insulation on Timber or Metal Deck; Stainless steel posts to sit on top of finished roof membrane and attached to deck with stainless steel toggle bolts after the membrane is complete; Weathering by others; Testing of Cabling Systems: Tenderer to provide a copy of their in-house policies and procedures document on proof testing of the swage joints on site using Hydrajaws Cable Test Equipment; No less than 8 swages or a minimum of 50% of all swages, which ever is greater, including splices must be proof tested on site to 10kN; At least one test must be witnessed by the contractor / client; Personal Fall Protection Equipment (PFPE): Unless specified otherwise in the Bill of Quantities supply the following for storage on site and used by trained personnel only: 2 Skyway Full Body Harness; 2 Skyway Standard 2m shock absorbing lanyards; 2 Skyway 10m Rope & Grabs; 2 Skyway Cable Shuttles; Accessories/Other requirements: as per Bill of Quantities Description; Note all PFPE must be CE marked - however CE marking does not apply to the elements fixed to the building (posts, cables etc); Information to be provided with the Tender: Submit the following: General arrangements drawing(s) at suitable scales showing the proposed layout of access/safety equipment; Proposed details of all necessary fixings and abutments with the building fabric; Location, direction and magnitude of all significant loads imposed on the building structure/fabric by the equipment; Schedule of builders work, with drawings as necessary, showing extent and details of all work associated with the installation for which the equipment manufacturer/supplier is not contractually responsible; Schedule of special provisions and special attendances by others; Confirmation that 100% of the roof areas are covered - if this is not the case the reasons why must be highlighted; Refer to Clause 215 above; No extra work/variations will be entertained by the client/design team at a later stage; Information to be provided after acceptance of Tender: Detailed AutoCAD drawings to fully describe fabrication and installation as follows: Drawing content: Contractor's name and contact number; If third party manufacturers are used provide their name along with model numbers of equipment proposed; General arrangement of the complete installation; Detailed description on how initial access to the roof is achieved; Restricted areas/ other areas not covered by the design and reasons why;				
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<u>(37) ROOF COMPLETIONS (Cont)</u> Proposed details on how each element (posts etc) are attached to the building; Full Design Notes with design loads (as applied to the building), notes on use, installation and certification of the systems; Design/Performance Requirements: WIND LOADING - General: Design the access/ safety system to withstand specified wind loads with equipment in position of maximum exposure and in parked position; Wind loads: Severe; FINISHING - General: The equipment as installed must have no irregularities/ projections capable of inflicting personal injury; Finished surfaces and edges of all accessible parts: Regular and smooth; DESIGN LIFE/ MAINTENANCE PROGRAMME; Design life of access/ safety system: Not less than 30 years; Schedule for maintenance and for replacement of components: Submit; ASSESSMENT/ TESTING OF FIXING POINTS FOR ANCHOR DEVICES; Design and installation of fixings in steelwork or timber: Verified by calculation to be capable of sustaining the relevant static and dynamic test forces specified in BS EN 795, clause 4.3; Fixings in other materials: Verify suitability by carrying out a test in a sample of the material; The sample must be capable of sustaining the relevant static and dynamic test forces specified in BS EN 795, clause 4.3. Thereafter, each structural anchor installed in that material must be subjected to an axial pull out force of 6 kN to confirm the soundness of the fixing. The structural anchor must sustain the force for a minimum of 15 seconds; Fabrication, Assembly & Installation: FABRICATION AND ASSEMBLY GENERALLY; Machine cutting, drilling and assembly: Carry out as much as possible in the workshop; Obtain approval for any reassembly on site; Dissimilar metal surfaces of assembly components/ supports/ fixings: Isolate to prevent electrolytic or bi-metallic corrosion; PROTECTION - General: Do not deliver to site any components or assemblies that cannot be installed immediately or unloaded into a suitable well protected storage area; SUITABILITY OF STRUCTURE/ FABRIC - Visual, geometric and structural survey of supporting structure and fabric: Carry out before commencing installation of access/ safety system; Report immediately if structure/ fabric will not allow required accuracy or structural adequacy or security of fixing;					
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(37) ROOF COMPLETIONS (Cont)					
<u>MECHANICAL FIXINGS - Materials: Unless otherwise recommended by equipment manufacturer: Connecting bolts and other fixings fully accessible for inspection: Mild steel hot dip galvanized; Nuts: Tapped after galvanizing; Cast-in anchors and other fixings not accessible for routine inspection: Zinc plated or austenitic stainless steel, grade 1.4401 (316); FIXINGS FOR SECURING EQUIPMENT; Adjustment capability: Adequate three dimensional adjustments to accommodate building structure/ fabric irregularities; FIXING ANCHOR INSTALLATION; Site drilling or cutting into structure/ fabric: Permitted only in approved locations; Distance between all fixing devices and edges of supporting material: Not less than recommended by fixing manufacturer; IDENTIFICATION AND REGISTRATION LABELS FOR FALL PREVENTION SYSTEMS; Provision: Provide and fix to each piece of equipment a permanent label giving: TRAINING - Allow for one free training session for the client / facility manager / building owner as follows: Company to have at least one FETAC Level 6 Trainer on staff to oversee training; Training plan to be submitted to the client for approval prior to training session; Training to include initial class room session on the correct storage, inspection and use of PFPE (harnesses etc); All trainees to demonstrate competency in the use of PFPE before going out on the roof; All trainees to be shown how to use the fixed equipment on the roof and demonstrate competency in use of same; Training to be assessed by the trainer using standard bank of questions and feedback forms; Training certificates to be issued within 24 hours of completion of training; Ancillary equipment: Ss 80 30 25 90 Travelling ladder access systems; as per Architects Specification Ss 80 30 25 35</u>					
Fall Prevention System					
A	Generally; fixed to Pitched Roof	121	m		
B	Support Posts; Generally	1	item		
C	Anti-Pendulum Anchors; Generally	1	item		
Personal Fall Protection Equipment (PFPE)					
D	Set to comprise: 2 no. Full Body Harness; 2 no. Energy absorbing lanyards - 2m long; 2 no. 10m rope & grabs; 2no. cable shuttles; All to be supplied in a suitable PPE storage holdall	2	set		
<u>Testing & certifying</u>					
System to be fully inspected and tested after installation and a 12 month test certificate be issued to Employer; as Architects requirements					
E	Generally	1	item		
System to be fully inspected and re-certified at interval not exceeding 12 months or after the system has been used to arrest a fall; as Architects requirements					
F	Generally	1	item		

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<u>(37) ROOF COMPLETIONS (Cont)</u>					
COLLECTION					
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(37) ROOF COMPLETIONS Carried to Summary					
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<u>(41) EXTERNAL WALL FINISHES</u>						
<u>SECTIONAL COMPLETION</u>						
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item			
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item			
<u>STONEWORK</u>						
Stone Cladding						
<u>Natural stone slab cladding systems; Natural Stone Cladding, System manufacturer: Lagan Building Solutions or equivalent, Product Reference: Z-Stone or equivalent, Colour: Blue Diamond, Preparation; as per manufacturers details and instructions, Samples: To be approved by Architect, Fixings as per manufacturers details and instructions, Support: Adhesive as per manufacturers instructions, Substrate: Concrete block wall- refer to manufacturers recommendations, Material: Natural stone slabs, Backing: Concrete Backed, Finishes: Natural, Dimensions: Varies, Thickness: 45-50mm, Colour: Mixed, all as per Architects drawings and specification Ss 25 20 85 55</u>						
Walls						
C	Area exceeding 300mm wide	113	m2			
<u>ROOFING, CLADDING & WATERPROOFING</u>						
Flexible Sheet Metal Coverings						
<u>Powder Coated two piece aluminium cill; fixed to underside of structural angle and top and top of stonework; 3mm thick; including all clips/ fixings necessary, complete; all in accordance with Architect's Drawing 7002 and Specification</u>						
Cill; to stone cladding						
D	Girth not exceeding 190mm, four times bent; all to Architect's Drawings	63	m			

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(41) EXTERNAL WALL FINISHES (Cont)						
<u>FLOOR, WALL AND CEILING FINISHES</u>						
In-situ Finishes						
<u>Render Finish. 20mm 3-coat sand cement render with napp finish. Min. U-Value: 0.18 W/m2K. System performance: To IS 325. First undercoat: Ss 25 45 70/630 Site mixed rendering mortar. Second undercoat: Ss 25 45 70/630 Site mixed rendering mortar. Final coat: Ss 25 45 70/630 Site mixed rendering mortar; to Architects Drawing 5.01 and Specifications Ss 25 45 70 55 & Ss 25 45 70/630</u>						
Walls						
A	Exceeding 300mm wide; to blockwork	599	m2			
B	Not exceeding 300mm wide; to reveals	152	m			
<u>Render Finish. 20mm 3-coat sand cement render with dashed finish. Min. U-Value: 0.18 W/m2K. System performance: To IS 325. First undercoat: Ss 25 45 70/630 Site mixed rendering mortar. Second undercoat: Ss 25 45 70/630 Site mixed rendering mortar. Final coat: Ss 25 45 70/630 Site mixed rendering mortar; to Architects Drawing 5.01 and Specifications Ss 25 45 70 55 & Ss 25 45 70/630</u>						
Walls						
C	Exceeding 300mm wide; to blockwork	586	m2			
D	Not exceeding 300mm wide; to reveals	116	m			
<u>Beads/ stops for External Use, Material: PVC-U. Form: Angle bead. Movement bead. Stop bead (standard wing). Stop bead (bell cast). To suit render depth: 19 mm. Colour: White; fixed in strict accordance with the Architect's Drawings and Specification Pr 35 90 07 72 & Pr 35 90 07/650</u>						
Sundries						
E	External Corner Beads at openings; Horizontal	125	m			
F	External Corner Beads at openings; Vertical	177	m			
G	External Corner Beads at corners	183	m			
H	Stop Beads at openings; Horizontal	139	m			
J	Stop Beads at openings; Vertical	209	m			
K	Stop Bead fixed to top of render at eaves and verges, Horizontal	226	m			
L	Stop Bead fixed to base of render at ground; Horizontal	172	m			
M	Non Hardening Sealant; taken around reveals of openings	347	m			
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(41) EXTERNAL WALL FINISHES (Cont)						
<u>PAINTING AND DECORATING</u>						
Painting						
Water-based masonry paints. Painting to external walls with Napp Render Finish. Manufacturer: Crown Trade or equivalent. Texture: Smooth. Colour: To be agreed with ER. Properties: Drying Time Under normal drying conditions touch dry in 1-2 hours and recoatable after 4- 6 hours. Finish Smooth. Composition Pigment: Titanium Dioxide, light fast coloured pigments and extenders. Binder: Vinyl acetate copolymer. Solvent: Water. Spreading Rate Up to 16m² per litre. On textured surface the spreading rate will vary down to approx. 4m² per litre. Wet Film Thickness 62.4 micrometres at 16m² per litre. Dry Film Thickness 19.73 micrometres at 16m² per litre. Volume Solids 31% Brilliant White. Other colours will vary. Flash Point Not applicable. VOC Content EU limit value for this product (cat.A/c): 40 g/l (2010). This product contains max. 1 g/l VOC. Limitations EN1062-6 Classification C1 (R = 192m) - Taylor Woodrow Certificate of Test No: 8825. Do not apply when there is a risk of rain, air or substrate temperatures are likely to fall below 8°C or when the relative humidity is above 80% during application or the drying period. Do not use on bitumen coatings. The decoration of Fletton brickwork either facings or commons is not recommended. Preparation: New Surfaces. All surfaces must be sound, clean, suitably dry and free from anything that will interfere with the adhesion of the materials to be applied. Surfaces with suction (porous surfaces) should be treated with an application or Crown Trade Stronghold Stabilising Solution (Clear). Coating System: Apply two coats as required. Application: Stir well before use. Apply by brush, medium or long pile roller depending on surface texture, or by airless spray. For airless spray use a minimum fluid pressure of 2000psi (136 bar) and a minimum tip size of 0.018 thou. Mask as necessary with a wet strength grade masking paper; all as per Architects Drawing and Specification Pr 35 31 22 96						
Walls; to rendered blockwork						
A	Exceeding 300mm wide	599	m ²			
B	Not exceeding 300mm wide	152	m			

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<u>(42) INTERNAL WALL FINISHES</u>					
<u>SECTIONAL COMPLETION</u>					
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item		
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item		
<u>FLOOR, WALL & CEILING FINISHES</u>					
Tile, Slab & Mosaic Finishes					
C	Tiles: Quarry Tile; Bonded with adhesive to concrete and grouted Manufacturer/ Supplier: Grestejo; Product reference: Brown Quarry Tile 30 x 15 or equal approved; Colour: Brown. Finish: Unglazed textured; Size: 300mm x 150mm; Thickness: 12mm nominal. all in accordance with the architects drawings and specification				
D	Walls; Home Economics				
E	Exceeding 300mm wide	10	m2		
F	Not exceeding 300mm wide	28	m		
<u>SHEETROCK TO SPLASHBACKS- Cladding; manufacturer; submit proposals for architects proposals; product reference; submit proposals; fixed in accordance with manufacturers details; all in strict accordance with the Architect's Drawing 20-36-TD-4304 and Specification</u>					
Walls; WC's					
G	Exceeding 300mm wide	10	m2		
H	Not exceeding 300mm wide	5	m		

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(42) INTERNAL WALL FINISHES (Cont)		
<u>PAINTING AND DECORATING</u>		
Painting		
Waterborne mid-sheen finishes Internal Plastered Walls. Manufacturer: Dulux Trade or equivalent. Product reference: Diamond Eggshell (mid sheen finish) or equivalent. Film Thickness will be dependent on the coverage achieved. Wet: 63 microns. Dry: 23 microns. Composition (nominal). Pigment: Lightfast Pigments. Binder: Acrylic Copolymer Emulsion. Solvent: Water. Volume Solids: White - 37% (nominal). Other colours will vary Coverage: 16 m2/litre. Colour: to to be confirmed. Application:: STIR THOROUGHLY BEFORE USE. Seal new or bare surfaces with a thinned first coat of Dulux Trade Diamond Eggshell (up to 1 part clean water to 10 parts paint). Finish: 2 full coats of Dulux Trade Diamond Eggshell. Preparation: Make sure surfaces to be painted are sound, clean, dry (new surfaces particularly must be fully dry) and free from all defective or poorly adhering material such as dirt, grease and wax. New or bare surfaces should be primed with an appropriate Dulux Trade primer. Thoroughly rub down previously painted surfaces using 'wet flattening' methods where possible, then wipe off with a damp, lint free cloth. Special precautions should be taken during surface preparation of pre-1960s paint surfaces over wood and metal as they may contain harmful lead. Treat knots with a suitable knotting solution. Any surface defects should be filled with the appropriate Polycell Trade Polyfilla; all in strict accordance with the Architect's Drawings and Specification Pr 35 31 22 98		
Walls		
Exceeding 300mm wide	4,276	m2
Not exceeding 300mm wide	347	m
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(42) INTERNAL WALL FINISHES (Cont)					
COLLECTION					
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(42) INTERNAL WALL FINISHES					
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<u>(43) FLOOR FINISHES</u>						
<u>SECTIONAL COMPLETION</u>						
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item			
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item			
<u>ROOFING, CLADDING AND WATERPROOFING</u>						
Mastic Asphalt, Waterproof and Gas proof Non-Metal Flexible Sheet Coverings						
<u>Tanking to upper floor above Elec Room R011; Concrete screed to be covered with a specialised polyethylene membrane; Waterproofing system should serve as a vapour pressure equalisation layer to accommodate construction moisture occurring within the substrate and an uncoupling layer for problematic substrates; The membrane must be bonded to the substrate using a proprietary bonding adhesive that is appropriate for the substrate as certified by the supplier / manufacturer; Apply the adhesive using a 3 x 3mm or 4 x 4mm notched trowel; The anchoring fleece on the underside of of the membrane must be fully engaged in the adhesive to provide a mechanical bond to the substrate; Waterproofing membrane is to be turned up at walls by 150mm or as agreed with the architect; A declaration of performance (DOP) should be provided to the Assigned Certifier with regard to the materials / system being used; As part of preparation for tanking: At the following locations apply proprietary sealant reinforced with tape - Internal and external corners of walls/partitions and their junctions with bases, upstands, columns, etc. / Pipe penetrations, drainage channels and outlets / Junctions of different base/background materials / Cracks and joints in background/base / Allow tanking system to dry for at least 24 hours before tiling; all as per Architects Specification</u>						
Tanking						
C	Exceeding 300mm; laid horizontally	9	m2			
<u>NOTES</u>						
D	1.The Tenderer is advised that the following measurements and descriptions are to be read in conjunction with the Architects and Structural Engineers Drawings and Specifications		note			
E	2. The tenderer is referred to the Architect's Drawings and Specification which accompany this document. All descriptions shall be read in conjunction with this information and included in the rates.		note			

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<u>(43) FLOOR FINISHES (Cont)</u>						
A	3. Power floated and screeded concrete floor slabs are to be finished to a sufficient level to obviate the necessity for the spreading of levelling compounds for all floor coverings measured within this element. Should it arise that it becomes necessary to spread levelling compounds as a preliminary to laying the floor finishes, the cost of this work will be deemed to be included in the prices against the various items of work of floor finishes		note			
B	4. The Contractor is to include in his tender for properly curing and drying out concrete ground floor slabs within the limits of the building programme to attain minimum moisture content as recommended by the manufacturers of the relevant sheet and brush applied floor coverings measured within this element; if these moisture levels are not achieved at the time of laying, then the contractor will be required to apply an approved patent trowel applied damp proof membrane over the slab and patent self levelling screed over same at his own expense		note			
C	5. The Contractor is solely responsible for ensuring that the concrete floor slabs are sufficiently dried out before any floor finishes are laid		note			
D	6. Works involved with achieving required moisture content in concrete floors prior to laying floor finish; all moisture content level readings to be 75% RH or less		note			
<u>WOODWORK</u>						
Boarding and Second Fixings						
<u>Medium density fiberboard (MDF) skirting; General requirements: Ac 05 50 91/340; Timber sourcing; Manufacturer: Medite FR Clear or equal approved; Class: To BS EN 622-5, Class E1 formaldehyde content; Profile: As per architects drawings; Finish: Primed and painted with selected Dulux Trade Satinwood; Colour: To be agreed with architect; Execution: Installing wood moldings and trims; as per Architects Specification</u>						
Skirtings						
E	Generally; 100mm high x 18mm thick	728	m			
Ironmongery, Accessories and Sundries						
<u>Sundries; Non-hardening sealant to skirting/wall junction; all in strict accordance with Architect's Details on Drawings</u>						
Seals						
F	Generally	728	m			

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(43) FLOOR FINISHES (Cont)						
FLOOR, WALL & CEILING FINISHES						
Tile, Slab and Mosaic Finishes						
<u>FLOOR TYPE 10 - Interface Heuga 580 Carpet Tile; Manufacturer: Interface Inc or equivalent; Style: Tufted patterned structured loop pile; Material: 100% solution dyed nylon; to BS EN 1307 standards; Size: 500x500mm; Colour & pattern: To be agreed with architect; as per Architects Specification Pr 35 57 11 62 and Drawing 20-36-5001</u>						
Floors						
A	Exceeding 300mm wide	23	m2			
Flexible Sheet Finishes						
<u>FLOOR TYPE 2 - Forbo Marmoleum Solid Piano; Linoleum sheets - Description: Linoleum floor coverings, refer to Architects finishes plan; Manufacturer: Forbo Flooring Systems UK Ltd or equivalent; Product reference: Forbo Marmoleum Linear or equivalent; Thickness: 2.5mm; Colour and pattern: To be agreed with Architect; To be installed as per manufacturers recommendations; as per Architects Specification Pr 35 57 71 46 & Ss 30 42 72 72</u>						
Floors						
B	Exceeding 300mm wide	386	m2			
<u>FLOOR TYPE 5 - Forbo Marmoleum Real; Linoleum sheets - Description: Linoleum floor coverings, refer to Architects finishes plan; Manufacturer: Forbo Flooring Systems UK Ltd or equivalent; Product reference: Forbo Marmoleum Marble or equivalent; Thickness: 2.5mm; Colour and pattern: To be agreed with Architect; To be installed as per manufacturers recommendations; as per Architects Specification Pr 35 57 71 46 & Ss 30 42 72 72</u>						
Floors						
C	Exceeding 300mm wide	88	m2			
<u>FLOOR TYPE 6 - Forbo Marmoleum Real; Linoleum sheets - Description: Linoleum floor coverings, refer to Architects finishes plan; Manufacturer: Forbo Flooring Systems UK Ltd or equivalent; Product reference: Forbo Marmoleum Marble or equivalent; Thickness: 2.5mm; Colour and pattern: To be agreed with Architect; To be installed as per manufacturers recommendations; as per Architects Specification Pr 35 57 71 46 & Ss 30 42 72 72</u>						
Floors						
D	Exceeding 300mm wide	483	m2			

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(43) FLOOR FINISHES (Cont)						
FLOOR TYPE 11 - Forbo Marmoleum Solid Concrete; Linoleum sheets - Description: Linoleum floor coverings, refer to Architects finishes plan; Manufacturer: Forbo Flooring Systems UK Ltd or equivalent; Product reference: Forbo Marmoleum Marble or equivalent; Thickness: 2.5mm; Colour and pattern: To be agreed with Architect; To be installed as per manufacturers recommendations; as per Architects Specification Pr 35 57 71 46 & Ss 30 42 72 72 Floors						
A	Exceeding 300mm wide	74	m2			
FLOOR TYPE 12- Forbo Safestep R11; Polyvinyl chloride (PVC) sheets WC Spaces/Wet Areas - Description: PVC floor coverings, refer to Architects finishes plan; Manufacturer: Forbo Flooring Systems UK Ltd or equivalent; Product reference: Safestep or equivalent; Colour: To be agreed with Architect; Slip potential - Slip resistance value (SRV) (minimum)/ Pendulum test value (PTV) (minimum): EN 13845 - Esf / DIN 51130 - R11; Surface roughness (Rz) (minimum): 20 im; Recycled content: 25% (minimum); Width: 2000mm; Thickness: 2.0 mm; Colour and pattern: To be Agreed with Architect; as per Architects Specification Pr 35 57 71 67 & Ss 30 42 72 72 Floors						
B	Exceeding 300mm wide	96	m2			
FLOOR TYPE 8 - Forbo Surestep Original R10; Polyvinyl chloride (PVC) sheets WC Spaces/Wet Areas - Description: PVC floor coverings, refer to Architects finishes plan; Manufacturer: Forbo Flooring Systems UK Ltd or equivalent; Product reference: Surestep Safety Vinyl or equivalent; Colour: To be agreed with Architect; Slip potential - Slip resistance value (SRV) (minimum)/ Pendulum test value (PTV) (minimum): EN 13845 - Esf / DIN 51130 - R10; Surface roughness (Rz) (minimum): 20 im; Recycled content: 25% (minimum); Width: 2000mm; Thickness: 2.0 mm; Colour and pattern: To be Agreed with Architect; as per Architects Specification Pr 35 57 71 67 & Ss 30 42 72 72 Floors						
C	Exceeding 300mm wide	218	m2			
FLOOR TYPE 3 - Forbo Surestep Original Smoke; Polyvinyl chloride (PVC) sheets WC Spaces/Wet Areas - Description: PVC floor coverings, refer to Architects finishes plan; Manufacturer: Forbo Flooring Systems UK Ltd or equivalent; Product reference: Surestep Safety Vinyl or equivalent; Colour: To be agreed with Architect; Slip potential - Slip resistance value (SRV) (minimum)/ Pendulum test value (PTV) (minimum): EN 13845 - Esf / DIN 51130 - R10; Surface roughness (Rz) (minimum): 20 im; Recycled content: 25% (minimum); Width: 2000mm; Thickness: 2.0 mm; Colour and pattern: To be Agreed with Architect; as per Architects Specification Pr 35 57 71 67 & Ss 30 42 72 72 Floors						
D	Exceeding 300mm wide	25	m2			

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(43) FLOOR FINISHES (Cont)						
Skirtings						
Girth: 150mm; Skirting - Types: Full Cove Former; include for proprietary capping strip installed as per manufacturers specifications and details; Fixing: Secure with top edge straight and parallel with floor; Corners: Mitre joints; all in strict accordance with Architect's Details on Drawing 5.30					72	m
<u>FLOOR TYPE 4 - Forbo Surestep Star Concrete; Polyvinyl chloride (PVC) sheets WC Spaces/Wet Areas - Description: PVC floor coverings, refer to Architects finishes plan; Manufacturer: Forbo Flooring Systems UK Ltd or equivalent; Product reference: Surestep Original or equivalent; Colour: To be agreed with Architect; Slip potential - Slip resistance value (SRV) (minimum)/ Pendulum test value (PTV) (minimum): EN 13845 - ESf / DIN 51130 - R10; Surface roughness (Rz) (minimum): 20 im; Recycled content: 25% (minimum); Width: 2000mm; Thickness: 2.0 mm; Colour and pattern: To be Agreed with Architect; as per Architects Specification Pr 35 57 71 67 & Ss 30 42 72 72</u>						
Floors						
Exceeding 300mm wide					25	m2
Skirtings						
Girth: 150mm; Skirting - Types: Full Cove Former; include for proprietary capping strip installed as per manufacturers specifications and details; Fixing: Secure with top edge straight and parallel with floor; Corners: Mitre joints; all in strict accordance with Architect's Details on Drawing 5.30					26	m
<u>FLOOR TYPE 7 - Forbo Surestep Original Terra; Polyvinyl chloride (PVC) sheets WC Spaces/Wet Areas - Description: PVC floor coverings, refer to Architects finishes plan; Manufacturer: Forbo Flooring Systems UK Ltd or equivalent; Product reference: Surestep Original or equivalent; Colour: To be agreed with Architect; Slip potential - Slip resistance value (SRV) (minimum)/ Pendulum test value (PTV) (minimum): EN 13845 - ESf / DIN 51130 - R10; Surface roughness (Rz) (minimum): 20 im; Recycled content: 25% (minimum); Width: 2000mm; Thickness: 2.0 mm; Colour and pattern: To be Agreed with Architect; as per Architects Specification Pr 35 57 71 67 & Ss 30 42 72 72</u>						
Floors						
Exceeding 300mm wide					119	m2
Skirtings						
Girth: 150mm; Skirting - Types: Full Cove Former; include for proprietary capping strip installed as per manufacturers specifications and details; Fixing: Secure with top edge straight and parallel with floor; Corners: Mitre joints; all in strict accordance with Architect's Details on Drawing 5.30					43	m

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(43) FLOOR FINISHES (Cont)					
Fitted Carpeting					
<u>FLOOR TYPE 10 - Interface Heuga Carpet Tile; Pile carpet tiles; Description: Interface Heuga 580 Carpet Tiles or equivalent; Manufacturer: Interface Inc. or equivalent; Style: Tufted patterned structured loop pile; Material: 100% solution dyed Nylon; Classification - Standard: To Architects Specification / Level of use class: To Architects Specification; Recycled content: 50% (minimum) To Architects Specification; Size: 500 x 500mm; Colour and pattern: To be agreed with Architect; as per Architects Specification Pr 35 57 11 62</u>					
Floors					
A	Exceeding 300mm wide	31	m2		
<u>Forbo Nuway Tuftiguard; Entrance matting systems; Description: Recessed Entrance Matwell System; System manufacturer: Forbo Flooring UK Ltd or equivalent; System reference: Nuway Tuftiguard Design or equivalent; Standards: to Architects Specification; Products: Double wiper strip 17mm thickness; Anodised Aluminium scraper bars; Execution: Installed as per manufacturer requirements; as per Architects Specification Ss 30 60 30 26</u>					
Floors					
B	approx size: 2500 x 3000mm; rectangular shape	1	nr		
C	approx size: 2500 x 3400mm; rectangular shape	1	nr		
D	approx size: 2500 x 4100mm; rectangular shape	1	nr		
E	approx size: 3200 x 5400mm; rectangular shape	1	nr		
<u>Floor threshold strips Between Linoleum sheet flooring and carpet tiles; Description: Gradus ETR299UF0 or equivalent multi-purpose aluminium threshold strip; Manufacturer: Gradus Limited or equivalent; Material: Aluminium; Finish: Natural; Width: 21mm; Thickness: 1.5mm; Predrilled: Centred; Matching fasteners: Required; as per Architects Specification Pr 35 90 31 33</u>					
Sundries; Dividing Strips					
F	Junction of Carpet/ Sheet Flooring	4	m		

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<u>(44) STAIR FINISHES</u>						
<u>SECTIONAL COMPLETION</u>						
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item			
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item			
<u>NOTES</u>						
C	1.This element has been measured from the relevant Architect's Drawings together with Engineers Drawings		note			
D	2. The tenderer is referred to the Architect's Drawings and Specification which accompany this document. All descriptions shall be read in conjunction with this information and included in the rates.		note			
E	3. Power floated and screeded concrete floor slabs are to be finished to a sufficient level to obviate the necessity for the spreading of levelling compounds for all floor coverings measured within this element. Should it arise that it becomes necessary to spread levelling compounds as a preliminary to laying the floor finishes, the cost of this work will be deemed to be included in the prices against the various items of work of floor finishes		note			
F	4. The Contractor is to include in his tender for properly curing and drying out concrete ground floor slabs within the limits of the building programme to attain minimum moisture content as recommended by the manufacturers of the relevant sheet and brush applied floor coverings measured within this element; if these moisture levels are not achieved at the time of laying, then the contractor will be required to apply an approved patent trowel applied damp proof membrane over the slab and patent self levelling screed over same at his own expense		note			

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<u>(44) STAIR FINISHES (Cont)</u>					
<u>WOODWORK</u>					
Boarding and Second Fixings					
<u>Medium density fibreboard (MDF) skirtings - General requirements:</u> <u>Ac 05 50 91/340; Timber sourcing; Manufacturer: Medite FR Clear or equal</u> <u>approved; Class: To BS EN 622-5, Class E1 formaldehyde content; Profile: As per</u> <u>architects drawings; Finish: Primed and painted with selected Dulux Trade</u> <u>Satinwood; Colour: To be agreed with architect; Execution: Pr 35 90 43/606</u> <u>Installing wood mouldings and trims; as per Architects Specification</u> <u>Pr 35 90 43 58</u>					
Skirtings					
A	120mm high x 18mm thick; to landings	14	m		
B	120mm high x 18mm thick; to profile of stairs	20	m		
Ironmongery, Accessories and Sundries					
<u>Sundries; Non-hardening sealant to skirting/wall junction; all in strict</u> <u>accordance with Architect's Details on Drawings</u>					
Seals					
C	Generally	34	m		
<u>FLOOR, WALL & CEILING FINISHES</u>					
Finishings; Flexible Sheet Finishes					
<u>FLOOR TYPE 11 - Forbo Marmoleum Solid Concrete; Linoleum sheets - Description:</u> <u>Linoleum floor coverings, refer to Architects finishes plan; Manufacturer: Forbo</u> <u>Flooring Systems UK Ltd or equivalent; Product reference: Forbo Marmoleum Marble</u> <u>or equivalent; Thickness: 2.5mm; Colour and pattern: To be agreed with</u> <u>Architect; To be installed as per manufacturers recommendations; as per</u> <u>Architects Specification Pr 35 57 71 46 & Ss 30 42 72 72</u>					
Landings					
D	Exceeding 300mm	11	m2		
Treads					
E	Width 300mm	60	m		
Risers					
F	Height 151.78mm	67	m		

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<u>(44) STAIR FINISHES (Cont)</u> <u>PAINTING AND DECORATING</u> Painting Waterborne mid-sheen finishes Internal Walls; Description: Painting to internal walls generally; Manufacturer: Dulux Trade or equivalent; Product reference: Diamond Eggshell (mid sheen finish); Product Information:: Typical Use Suitable for interior use on plaster, masonry and wood. Also suitable for use in kitchens and bathrooms. Do not use externally. Pack Size 1L, 2.5L and 5L; Colour Range: See appropriate Dulux Trade colour literature or visit duluxtrade.co.uk; Film Properties; Chemical Resistance: Not recommended; Heat Resistance: Not recommended for use on heated surfaces, such as radiators; Water Resistance: Resistant to the levels of atmospheric humidity present in normal interior environments and will withstand repeated washing. Suitable for use in kitchens and bathrooms; Not suitable for use on immersed surfaces or where there is heavy and prolonged condensation; Film Thickness; Film thickness will be dependent on the coverage achieved; Wet: 63 microns; Dry: 23 microns; Composition (nominal); Pigment: Lightfast Pigments; Binder: Acrylic Copolymer Emulsion; Solvent: Water; Volume Solids; White 37% (nominal). Other colours will vary; Coverage:: 16 m2/ litre; Colour: to to be confirmed; Application:: STIR THOROUGHLY BEFORE USE. Seal new or bare surfaces with a thinned first coat of Dulux Trade Diamond Eggshell (up to 1 part clean water to 10 parts paint). The normal finishing process is 2 full coats of Dulux Trade Diamond Eggshell, but on previously painted surfaces in good condition where similar colours are used, 1 coat may be sufficient. When applying water-based paints to surfaces previously decorated with a conventional solvent-based paint, very thorough surface preparation will be necessary. Brush, roller, conventional spray or airless spray. Do not use when the temperature is below 10 degrees. Thinning: Sealing new or bare surfaces: Add up to 1 part clean water to 10 parts paint. Normal use (not to be exceeded): Thinning is not usually required. Conventional spray application: Add up to 1 part clean water to 5 parts paint. Airless spray application: Thinning is not usually required; Spray Recommendations: Conventional Spray: Satisfactory through most equipment. Airless Spray: A typical set up for airless spray would be a minimum working pressure on paint of 133 bars (2000lb/sq in) with a spray tip size 0.38mm (15 thou) and a spray tip angle of 65 degrees Drying Times: Single coat at standard thickness: Touch Dry: Dependent on temperature and humidity; Recoat: 4-6 hours, although will vary according to temperature and humidity (e.g. will take significantly longer in cold, damp conditions); Cleaning Up: After use, remove as much product as possible from equipment before cleaning with water. When this paint container is empty please ask your stockist about recycling. If you have leftover paint, please dispose of it responsibly and consider donating it to Community RePaint. Find out more at duluxtrade.co.uk/pp; Preparation: Make sure surfaces to be painted are sound, clean, dry (new surfaces particularly must be fully dry) and free from all defective or poorly adhering material such as dirt, grease and wax. New or bare surfaces should be primed with an appropriate Dulux Trade primer.			
20420 - Carrick on Shannon CS		To Collection €	

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<u>(44) STAIR FINISHES (Cont)</u>						
Thoroughly rub down previously painted surfaces using wet flatting methods where possible, then wipe off with a damp, lint free cloth. Special precautions should be taken during surface preparation of pre-1960s paint surfaces over wood and metal as they may contain harmful lead. Treat knots with a suitable knotting solution. Any surface defects should be filled with the appropriate Polycell Trade Polyfilla; VOC Content:: Max 17g/L; Scrub Rating: Type C - BS 7719; Colour: To be agreed with Architect; Execution: Pr 35 31 22/703 Applying coating system Internal walls; all as per Architects Specification Pr 35 31 22 98 Ceilings A Exceeding 300mm; Landings B Exceeding 300mm; Raking C Exceeding 300mm; String Waterborne finishes to internal joinery - Description: Dulux Easycare Satinwood paint to all Internal MDF and non-resinous softwood/hardwood; Manufacturer: Dulux Paints Ireland, Commons Road, Cork, Ireland Tel. Number: +353 (0) 21 4220222; Product reference: Dulux Easycare Satinwood (satin finish); Coverage: 12m#/litre; Preparation: To get the best results with Dulux Easycare Satinwood, make sure surfaces to be painted are sound, clean, dry (new surfaces particularly must be fully dry). Remove all loose and defective paint; Colour: to be agreed; Execution: Pr 35 31 22/703 Applying coating Internal woodwork; all as per Architects Specification Pr 35 31 22 95 Second fixings; skirtings D Not exceeding 300mm; in staircase areas						
	11	m2				
	28	m2				
	22	m				
	34	m				

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<u>(44) STAIR FINISHES (Cont)</u>						
COLLECTION						
Page No. Extension/115						
Page No. Extension/116						
Page No. Extension/117						
Page No. Extension/118						
Page No. Extension/119						
(44) STAIR FINISHES Carried to Summary						

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<u>(35) & (45) CEILING FINISHES</u>						
<u>SECTIONAL COMPLETION</u>						
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item			
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item			
<u>NOTES</u>						
C	1.This element has been measured from the relevant Architect's Drawings together with Engineers Drawings		note			
D	2. The tenderer is referred to the Architect's Drawings and Specification which accompany this document. All descriptions shall be read in conjunction with this information and included in the rates.		note			
<u>FLOOR, WALL & CEILING FINISHES</u>						
<u>Suspended Ceilings</u>						
<u>CT 2 - 600x600x20 : Classrooms/Multi Purpose Rooms/Special Tuition - Rockfon Tropic 600x600x20mm, or equivalent, installed as per manufacturers details and specification; Ceiling Tiles: Fine textured mineral fibre ceiling tiles in bright white finish; Sound absorption details: aw 1.00, NRC 1.00, Class A; Humidity Resistance (RH %) 100%; Thermal conductivity 0.06 W/mK; Class A1 Fire resistance; Grid: Rockfon System T24, pre-coated fully polymerized bright white polyester finish, or equivalent; Ceiling Edge: Perimeter angle trim bright white polyester finish, fixed at 450mm cts to 50x50mm timber batten, painted white; as per Architects Specification & Drawings 20-36-5101-GF & FF</u>						
Ceilings; fixed below floor structure						
E	Depth of Suspension 150mm - 500mm	535	m2			
Sundries						
F	White perimeter trim securely fastened at 450 mm maximum centres and within 75mm from the ends	259	m			
G	Edge battens; Manufacturer: Contractors choice; Product reference: Timber battens; Material: Planed softwood; Finished size: 50 x 50mm; Finish (apply before ceiling grid is installed): as per Architects Details Drawings	259	m			

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(35) & (45) CEILING FINISHES (Cont)					
<u>CT 1A - 1200x600x15 : Circulation (Extension) - Rockfon Artic 1200x600x15mm, or equivalent, installed as per manufacturers details and specification; Ceiling Tiles: Fine textured mineral fibre ceiling tiles in bright white finish; Sound absorption details: aw 0.90, NRC 0.85, Class A; Humidity Resistance (RH %) 100%; Thermal conductivity 0.06 W/mK; Class A1 Fire resistance; Grid: Rockfon System T24, pre-coated fully polymerized bright white polyester finish, or equivalent; Ceiling Edge: Perimeter angle trim bright white polyester finish, fixed at 450mm cts to 50x50mm timber batten, painted white; as per Architects Specification Ss 30 25 22 90 & RCP Drawings 20-36-5102</u> Ceilings; fixed below floor structure					
A	Depth of Suspension 500mm - 1000mm	195	m2		
Ceilings; fixed below roof structure					
B	Depth of Suspension 1500mm - 2000mm	30	m2		
C	Depth of Suspension 2000mm - 2500mm	176	m2		
Sundries					
D	White perimeter trim securely fastened at 450 mm maximum centres and within 75mm from the ends	383	m		
E	Edge battens; Manufacturer: Contractors choice; Product reference: Timber battens; Material: Planed softwood; Finished size: 50 x 50mm; Finish (apply before ceiling grid is installed): as per Architects Details Drawings	383	m		
<u>CT 1B - 600x600x15 : Circulation (Extension) - Rockfon Artic 600x600x15mm, or equivalent, installed as per manufacturers details and specification; Ceiling Tiles: Fine textured mineral fibre ceiling tiles in bright white finish; Sound absorption details: aw 0.90, NRC 0.85, Class A; Humidity Resistance (RH %) 100%; Thermal conductivity 0.06 W/mK; Class A1 Fire resistance; Grid: Rockfon System T24, pre-coated fully polymerized bright white polyester finish, or equivalent; Ceiling Edge: Perimeter angle trim bright white polyester finish, fixed at 450mm cts to 50x50mm timber batten, painted white; as per Architects Specification Ss 30 25 22 90 & Drawings 20-36-5101</u> Ceilings; fixed below roof structure					
F	Depth of Suspension 150mm - 500mm	8	m2		
Sundries					
G	White perimeter trim securely fastened at 450 mm maximum centres and within 75mm from the ends	21	m		
H	Edge battens; Manufacturer: Contractors choice; Product reference: Timber battens; Material: Planed softwood; Finished size: 50 x 50mm; Finish (apply before ceiling grid is installed): as per Architects Details Drawings	21	m		

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(35) & (45) CEILING FINISHES (Cont)					
<u>CT 3 - 600x600x40 : Classrooms (Extension) - Rockfon Blanka dB43 600x600x40mm, or equivalent, installed as per manufacturers details and specification; Ceiling Tiles: Fine textured mineral fibre ceiling tiles in bright white finish; Sound absorption details: aw 0.90, NRC 0.90, Class A; Humidity Resistance (RH %) 100%; Thermal conductivity: = 40 mW/mK; Class A1 Fire resistance; Grid: Rockfon System T24, pre-coated fully polymerized bright white polyester finish, or equivalent; Ceiling Edge: Perimeter angle trim bright white polyester finish, fixed at 450mm cts to 50x50mm timber batten, painted white; as per Architects Specification Ss 30 25 22 90 & Drawings 20-36-5101</u> Ceilings; fixed below roof structure					
A	Depth of Suspension 1000mm - 1500mm	517	m2		
Sundries					
B	White perimeter trim securely fastened at 450 mm maximum centres and within 75mm from the ends	269	m		
C	Edge battens; Manufacturer: Contractors choice; Product reference: Timber battens; Material: Planed softwood; Finished size: 50 x 50mm; Finish (apply before ceiling grid is installed): as per Architects Details Drawings	269	m		
<u>CT 4 - 600x600x15 : Toilets / Severy - Rockfon MediCare Standard 600x600x15mm, or equivalent, installed as per manufacturers details and specification; Ceiling Tiles: Fine textured mineral fibre ceiling tiles in bright white finish; Sound absorption details: aw 0.95, NRC 0.90, Class A; Humidity Resistance (RH %) 100%; Thermal conductivity 0.06 W/mK; Class A1 Fire resistance; Grid: Rockfon System T24 ECR, pre-coated fully polymerized bright white polyester finish, or equivalent; Ceiling Edge: Perimeter angle trim bright white polyester finish, fixed at 450mm cts to 50x50mm timber batten, painted white; Note: Hold Down Clips HDC1 to toilet areas; as per Architects Specification Ss 30 25 22 90 & Drawings 20-36-5101</u> Ceilings; fixed below floor structure					
D	Depth of Suspension 150mm - 500mm	46	m2		
Ceilings; fixed below roof structure					
E	Depth of Suspension 150mm - 500mm	5	m2		
F	Depth of Suspension 1000mm - 1500mm	46	m2		
Sundries					
G	White perimeter trim securely fastened at 450 mm maximum centres and within 75mm from the ends	155	m		
H	Edge battens; Manufacturer: Contractors choice; Product reference: Timber battens; Material: Planed softwood; Finished size: 50 x 50mm; Finish (apply before ceiling grid is installed): as per Architects Details Drawings	155	m		

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(35) & (45) CEILING FINISHES (Cont)					
<u>CT 8 - Moisture Resistant Plasterboard Ceiling - One layer of 12.5mm plasterboard consisting of aerated non combustible core and water repellant additives encased in, and firmly bonded to, strong paper liners; Thermal conductivity 0.25w/mk thermal resistance 0.05m2k/w, fixed to underside of concealed metal frame grid and lining suspended ceiling system, taped, sealed, skimmed & joints staggered in accordance with manufacturers recommendations; as per Architects Drawings 20-36-5101</u>					
Ceilings; fixed below floor structure					
A	Depth of Suspension 150mm - 500mm	9	m2		
B	Depth of Suspension 500mm - 1000mm	11	m2		
Ceilings; fixed below roof structure					
C	Depth of Suspension 150mm - 500mm	12	m2		
<u>METAL STUD PARTITION SYSTEM BULKHEAD - Gyproc metal stud bulkhead; Partition system Gyproc Robust; Partition resistance: 60 mins; Sound resistance: 42 Rw dB; Duty Rating: Severe; Studs: Type: Gypframe 70 S 60 'C' Studs; Centres: 600mm; Head condition: Concrete slab; Deflection allowance: To manufacturers recommendations; Linings: 15 mm Gyproc Duraline to each side; Finishing: Skim coat plaster finish; Primer/ Sealer: 1 coat of Gyproc Drywall Primer; Accessories: Rigid beads/ stops; Other requirements: Fire stopping around services; all as per Architects Drawing 20-36-5101</u>					
Upstands / downstands; Bulkhead Type 1 (150mm wide)					
D	Depth of Suspension 150mm - 500mm	14	m		
E	Depth of Suspension 500mm - 1000mm	160	m		
F	Depth of Suspension 2500mm - 3000mm	47	m		
<u>Composite Item: Rooflight/Access Hatch Shaft - Metal stud partition system to provide 1 hour fire resistance; Studs: Type: 70 mm Gypframe 70 S 60 'C' Studs; Centres: 600mm; Head condition: Concrete slab; Deflection allowance: To manufacturers recommendations; Insulation: Not required; Recycled content: Not applicable; Thickness: 50mm; Linings: 15 mm Gyproc WallBoard to one side; Finishing: Skim coat plaster finish; Primer/ Sealer: 1 coat of Gyproc Drywall Primer; Accessories: Rigid beads/ stops; all as per Architects Specification</u>					
Sundries; Rooflight Shafts					
G	Overall opening size 1400mm long x 1400mm wide x 2400mm deep	1	nr		
H	Overall opening size 1410mm long x 1410mm wide x 3150mm deep	1	nr		
J	Overall opening size 5860mm long x 1570mm wide x 2880mm deep	4	nr		
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<u>(35) & (45) CEILING FINISHES (Cont)</u>						
Sundries; Access Hatches						
A	Overall opening size 1000mm long x 1410mm wide x 1020mm deep	1	nr			
B	Overall opening size 1795mm long x 1185mm wide x 2550mm deep	1	nr			
<u>PAINTING AND DECORATING</u>						
Painting						
<u>Waterborne matt and flat finishes Ceilings; Description: Painting to plasterboard ceilings and walls generally; Manufacturer: Dulux Paints Ireland or equivalent; Product reference: Dulux Trade Diamond Matt; Coverage: 13-15 m2/ litre; Colour: to be agreed; Application: Apply 2 coats with a brush or roller, leave 2-4 hours between coats; Do not apply in very damp or humid conditions or in extreme temperatures; Preparation: Ensure surfaces to be painted are sound, clean, dry (new surfaces particularly must be fully dry); Execution: Pr 35 31 22/703 Applying coating system Internal walls; as per Architects Specification Pr 35 31 22 97</u>						
Ceilings						
C	Exceeding 300mm	188	m2			
<u>Waterborne finishes to internal joinery; Description: Dulux Easycare Satinwood paint to all Internal MDF and non-resinous softwood / hardwood; Manufacturer: Dulux Paints Ireland or equivalent; Product reference: Dulux Easycare Satinwood (satin finish); Coverage: 12m2/litre; Preparation: To get the best results with Dulux Easycare Satinwood, make sure surfaces to be painted are sound, clean, dry (new surfaces particularly must be fully dry); Remove all loose and defective paint; Colour: to be agreed; Execution: Pr 35 31 22/703 Applying coating Internal woodwork; as per Architects Specification Pr 35 31 22 95</u>						
Second Fixings						
D	Girth not exceeding 300mm; Edge battens	1,098	m			
<u>CT9 - Exposed Concrete: Switch Room/Boiler Room; exposed concrete to be cleaned and sealed; joints and holes to be filled and painted with in selected colour (2 coats of Sealocrete Duraseal surface hardener and dust proofer to manufactures recommendations; as per Architects Specification & Drawings 20-36-5101</u>						
Ceilings; fixed below floor structure						
E	Depth of Suspension 500mm - 1000mm	16	m2			

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(47) ROOF FINISHES (Cont)					
PITCHED ROOFS					
ROOFING, CLADDING & WATERPROOFING					
Rigid Sheet Coverings and Decking					
Ss 30 40 55 50 Roof Type 1-Metal composite panel roofing systems as per Architects Ss 30 40 55; System manufacturer: Kingspan Insulated Panels or equivalent; Product reference: QuadCore# RW Trapezoidal KS1000 Roof Panel; Design: The contractor may put forward alternatives for consideration by the ER but they will need to have equivalent physical characteristics including appearance, colour variance and texture. The opinion of the ER shall be final in this regard. Sufficient notice is required for selection of alternative system by ER; see works requirements for time frame; Recommended Contractor Drawings: The Contractor is to check the correct submission documents to see that they conform to the specification and contract documents; The purpose of the shop drawings is to demonstrate that the proposed construction, meets the performance and visual requirements of the specification; Shop drawings must show: All plans, elevations, sections and details of the roof assembly, Side and end lap details, Ridge details, Eaves details, Verge details, Parapet details, All roof junction details, Lightning protection, All penetration details, including services, boiler flues, fume cupboard flues, svp's etc., Assembly installation and fixing anchorage for all wall types and conditions, Fire/smoke stops, All rooflight details, all smoke vent details, All roof ladders where shown, Flashings, laps and stop ends, Locations of welds, clearly identified, Construction details, Sealant and gasket locations as required to meet air tightness requirements, Thermal insulation materials, Thermal modelling analysis of critical junctions (with software compliant to BS EN 10211:1 & 2) in particular all wall / roof interface junctions and clip interfaces, Fixings and halters, Fabrication and erection tolerances, Provision for thermal movements. / Expansion joints, Modular and set out dimensions, Requirements for builder's work in connection with the Contractor's installation, Show air tightness line as a red line on all relevant details; The ER, reserves the right to request full size details and 3D drawings which they deem are necessary, as and if required, at no additional cost to the contract. The cost of shop drawings shall be taken for by the Contractor; Verify on site and co-ordinate all dimensions, levels and modules related to the work; Two A1 paper copies, one AutoCad 2009 format file and one PDF format file of each drawing are to be submitted for comment; The consideration of drawings submitted by the contractor shall not in any way relieve the contractor from his responsibility in respect of the accuracy of all such drawings, nor from his responsibility to provide elements suitable in dimensions for the location in which they are to be installed; Comments will relate only to general performance, design intent and overall functional matters, not to the detailed design and construction components which are to remain the complete and sole responsibility of the Contractor; The consideration of detailed specification, method of construction, samples, tests, etc., shall in no way limit or relieve the contractor from meeting the standards and requirement of this document and the performance specification contained herein unless specific written instructions are give to the contrary;					

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<u>(47) ROOF FINISHES (Cont)</u> The consideration of the drawings will not relieve the Contractor from their responsibility for errors or for supplying components and materials to the full satisfaction of the ER. Any modification required is to be re-submitted within one week of receipt of the ER's comments or as otherwise agreed on the drawing schedule; Co-ordination between the various trades shall be mandatory on this contract, due to the numerous cross over points between the respective trades. Overall co-ordination shall be the responsibility of the Contractor. It should be noted that certain elements of the design may not be able to move forward, subject to inputs from other trades. This is to be factored into the Contractors detailed programme; The drawings are also required to show adjacent construction, to allow for the efficient coordination and construction of the project and to avoid delays including abortive work Roof pitch: 8 degrees; Panel - Type: KS1000 RW Insulated Roof Panel - QuadCore; Profile: Trapezoidal; Thermal conductivity: 0.15 W/m2K; Colour/ Finish - External: Kingspan XL Forte, colour or equivalent - Internal: Kingspan CLEANsafe 15 or equivalent; Length: Architects GA Plans & Sections; Cover width: 1000mm; Primary fasteners: Type: As per manufacturers requirements; Number/ location: As per manufacturers requirements; Secondary fasteners: Type: As per manufacturers requirements; Number/ location: As per manufacturers requirements; Panel joints - Horizontal: Apply 3 strips of 6x5mm butyl tape sealant to surface of lower panel and fit upper panel in accordance with manufacturers installation guidelines; Vertical: Panels to interlock vertically with a 6x5mm butyl tape sealant (site applied) at joint to top of panels & non-setting gun grade butyl vapour seal at base of the side joint, add stitching screws along side lap at 450mm centres, commencing 50mm from panel end (do not stitch side laps from eaves up without first considering gutter support arm positions) all in accordance with manufacturers installation guidelines; Continuity thermal insulation: PIR board insulation; Cavity closers: Kingspan Kooltherm; Soffit - Material: 2mm Pressed aluminium polyester powder coat finish; Support: Mechanically fixed to underside of overhanging roof panel; Fasteners: Stitching self drilling screws with minimum 14mm diameter non ferrous EPDM backed washer fitted at 450mm centres; Gutters - Type: Kingspan External Highline or equivalent; Support: Gutter support arms fixed to base of roof panel at 666mm centres in accordance with manufacturers installation guidelines; Fasteners: Stitching self drilling screws with minimum 14mm diameter non ferrous EPDM backed washer fitted at 450mm centres; Jointing: Butyl rubber sealant tapes In accordance with manufacturers installation guidelines; Accessories: Gutter components and rainwater goods; Fabrications: Ridge pieces, cappings, flashings, trims, aprons, corner pieces, drips, sealants, tapes, fasteners, brackets and as required to complete the installation; Profile filler: Premseal M25						
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<u>(47) ROOF FINISHES (Cont)</u> <u>Execution: Air Tightness: Air leakage rate of 3m3/hr/m2 at 50Pa. Additional Butyl seals to be provided in strict accordance with Manufacturer's specifications and details. Internal face of panel to be air sealed along the full length by an unbroken run of 6mm diameter butyl rubber sealant tape, Class A. Side joint to be hand seamed at ridge, eaves and end laps prior to power seaming in both directions immediately after panel is fastened to purlins; Service Penetrations: Where service penetrations are not fully detailed, the Contractor should, as a minimum, allow for all necessary flashings and sealants to provide a fully weathertight and air tight joint seal; All vertical penetrations should include for a Chinese hat detail that provides a minimum 100mm overlap and protection to the vertical upstand which shall be a minimum of 200mm above the roof level finish. Horizontal joints (ie: to rear of monopitch roofs) should have as a minimum a 150mm tightly fixed overlap and seal to any penetrations; The Contractor shall ensure that all penetrations slope away from the opening in the building fabric; The Contractor shall schedule all service penetrations by number on the roof and provide written signed schedule of inspection and compliance sign off of same to the ER, a minimum of eight weeks before substantial completion; Acoustic Requirements: The acceptable level of intrusion noise must not exceed 35dB for the entire roofing element of each building. The location and detail of rooflights shall be taken into account when calculating this requirement. Obtain written confirmation from the manufacturer that their rooflights can meet this acoustic requirement; Deflection of metal roof cladding/covering:Roof covering: Maximum permitted deflection under distributed loads as a multiple of span and due to: Dead load: L/500, Dead and imposed loads: L/200</u> <u>works, starting within 1 week after roof work commences a minimum of 6 on site interim inspections and 1 before substantial completion. Fully detailed technical inspection reports (including reference photographs) and sign off sheets by the manufacturer, showing compliance with their specifications, recommendations and installation in accordance with their Technical Design Manuals shall be furnished to the ER within 3 days of each site visit, together with any remedial works identified by the manufacturer that may need to be carried out by the Contractor; Final inspection shall be carried out at the direction of the ER and before substantial completion of the main contract; The manufacturer shall issue documentation in writing that the installation has been correctly installed in accordance with the Technical Design Manuals and is waterproof; System completion: Certification: Upon completion of the works and four weeks prior to substantial completion, the Contractor shall submit the following items in writing as evidence of compliance with specification:</u>		
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(47) ROOF FINISHES (Cont)						
Fully detailed technical inspection reports and sign off sheets by the roofing manufacturer, showing compliance with their specifications, recommendations and installation in accordance with their Technical Design Manuals as per clause 'Manufacturers Site Inspections'; Calculation sheets for number requirement and location of all fixing systems; Copy of all warranties, certificates and guarantees relating to the installed components for thermal, coating and structural aspects of the system. 40 Years for the panel and installation of the roofing system; Verification in writing from the roofing manufacturer that the contractor is licenced to install the system and has received the appropriate training to erect and install the roofing system in accordance with the manufacturer's detailed drawings and specifications; BCAR Ancillary Cert Cs (CIF - 01) to be completed and signed by the roofing subcontractor; Compliance with LPCB Certificate No. 260A/24 & 186A/24; Infrared thermography test results and report in accordance with DoES TGD; Airtightness test results and report; Please note that some of these items are also required prior to site start; Compliance with HSA 'Code of Practice for Safety in Roofwork' Roof Maintenance Manual: Provide the following to the ER: List of contractor manufacturers, suppliers for all materials and accessories, including emergency contact numbers for leaks; Fully detailed maintenance schedules incorporating checklists and timetables of items to be checked monthly, quarterly, annually, etc; Simple Maintenance record forms to help keep maintenance records in good order; ER compliance requirements for maintaining warranties; Labelling: When the roofing cladding to this building is completed, a label identifying the insulated panels is to be fitted. This label illustrates the type of Insulated panels fitted, to aid Insurers, Fire Officers, Owners and Occupiers identify the envelope composition; It is a recommendation of the manufacturers Product Guarantee that the insulated panel identification label, which will have a specific project registration number, is installed in an agreed location. The project architect, roofing subcontractor or owner should locate these labels in an appropriate and accessible location on the building; all as per Architects Drawing 1003 Roof coverings A Horizontal; Area exceeding 300mm wide Gutters - Type: Kingspan External Highline or equivalent; 2.0 gauge aluminium polyester powder coated highline gutter to selected RAL; Support: Gutter support arms fixed to base of roof panel at 500mm centres in accordance with manufacturers installation guidelines; Fasteners: Stitching self drilling screws with minimum 14mm diameter non ferrous EPDM backed washer fitted at 450mm centres; Jointing: Butyl rubber sealant tapes In accordance with manufacturers installation guidelines; as per Architects Specification Ss 30 40 55 50 & Drawing 7010 Gutters B Girth 450mm - 600mm; Preformed						
	961	m2				
	106	m				

					€	c
(47) ROOF FINISHES (Cont)						
<u>Polyster powder coated aluminium Eaves detailing; including eaves support to Engineer's details; gutters (measured elsewhere); 3mm pressed aluminium soffit fixed to channels to Engineer's details; non hardening sealant between soffit and gutter; complete with and including all drip angles, closure flashings, additional insulation and any additional details shown all as Architects drawings 7010</u>						
Eaves						
A	Girth 450 - 600mm	106	m			
<u>Polyster powder coated aluminium Verge detailing; including verge support to Engineer's details; 2mm pressed aluminium soffit fixed to channels to Engineer's details; non hardening sealant between soffit and gutter; complete with and including all drip angles, closure flashings, additional insulation and any additional details shown all as Architects drawings 7013</u>						
Verges						
B	Girth 900 - 1200mm	48	m			
C	Girth 1200 - 1500mm	10	m			
<u>Polyster powder coated aluminium Hip detailing; top sheet turned up on site; 2mm pressed aluminium ridge flashing in mill finish lacquered and Stucco embossed to profile of roof with 150mm sealed butt straps; Shroud over profiled ridge filler stitched to each panel with stitching screws with 19mm diameter non-ferrous EPDM backed washer; Ridge filler for 1000mm wide panel bedded on gun grade sealant; allow for expansion in aluminium flashing; 230mm girth x 2mm aluminium angle flashing with 8mm gun grade sealant to achieve air seal; include air seal - 20 x 9mm PVC foam tape; Gap between roof panels to be filled with gun applied soudafoam fireblock expanding foam or equivalent; complete with and including all drip angles, closure flashings, additional insulation and any additional details shown on Architects drawings; all as Architects drawing 7011</u>						
Ridges						
D	Girth 600 - 750mm	49	m			

				€	c
(47) ROOF FINISHES (Cont)					
<u>Roof to wall detailing; lean to flashing with 150mm side laps; include for profiled filler sealed top and bottom with gun grade sealant; lead flashing to Architects specification; DPC turned up inside of cavity wall; canister applied insulation to fill any gaps if required to maintain continuity of insulation; 50mm rigid thermoset phenolic insulation; air seal to be 8mm diameter non-setting gun-grade butyl air seal at panel joint; internal ridge flashing with 150mm overlap sealed with air seal - gun grade sealant; include for I.A.B. approved air tightness membrane / vapour control layer lapped and sealed to underside of purlins taped to concrete beam; colours to Architect's approval; Tapcon fixing with 14mm dia ferrous EPDM backed washer fitted at 450mm centres; complete with and including all drip angles, closure flashings; including all seals, fixings, weathering items, additional lead as necessary etc, as Architects drawing 7011</u>					
Flashings					
A	Girth 450mm - 600mm; Horizontal	9	m		
B	Girth 450mm - 600mm; Raking	4	m		
<u>Rooflight Window Detail; include for proprietary velux or equivalent bottom flashing on bracket system, foam gasket at junction with flat roof covering; Void below flashing to be filled with quilt insulation or similar; include for 80mm PIR rigid foam insulation to upstand; Roofing liquid applied membrane to be dressed over upstand; 50 x 50mm angle fillet to be laid to manufacturers spec and detail; include for Enke non hardening liquid applied coating (Applied in 3no. layers - embedment coat, glass fibre matting membrane, protection coat); including 3mm polyester powder coated aluminium insulated apron flashing with DPC backing & air tightness; all fixed to structural steel (measured elsewhere); all strictly in accordance with Architect's Drawing 7011</u>					
Kerbs					
C	Girth 450 - 600mm	66	m		
<u>Solar Panel mounts fixed to roof finish; selected proprietary mount fitted to Manufacturer's Specifications; liquid applied waterproof coating consisting of reinforced base coat and protection top coat; include for solar mounting unit; baseplate; solar weld patch; fixed down to roof and structure (measured elsewhere); including all flashings, weatherings, coverings etc; as specified with the roofing system; all to Manufacturer's and Architect's instructions and Drawings</u>					
Mounts					
D	Generally	32	nr		

					€	c
<u>(47) ROOF FINISHES (Cont)</u>						
SVP penetrating the roof; selected proprietary weather collar to SVP fitted to Manufacturer's Specifications over top of skirt and soaker; non hardening liquid applied roof coating - applied in 3nr layers - embedment coat, glas fibre matting membrane, protection coat; pipe penetrations to avoid panel seams where possible; gun-canister applied silicone sealant to manufacturer's specification; include for coated steel closure; 150mm min Pro Clima Tescon Vana vapour control tape to specification continuously taped and sealed from pipe / soffit; pipe not exceeding 250mm; including all flashings, weatherings, coverings etc; as specified with the roofing system; all to Manufacturer's and Architect's instructions and Drawing 7013 Collars around pipes, standards and the like						
A	Generally	8	nr			
Forming holes for Pipes						
Holes						
B	Girth not exceeding 0.5m	8	nr			
<u>SOFFITS TO ENTRANCE</u>						
<u>WOODWORK</u>						
Structural & First Fixings						
Softwood; sawn; Battens; unplanned; vac-vac pressure treated with approved colour preservative						
Carcassing; flat roofs						
C	50 X 50mm battens	2	m			
Boarding & Second Fixings						
STRUCTURAL PLYWOOD - Nominal thickness: 25mm; Finish: Sanded; Treatment: FINISHED INTERNALLY AS M60/163; Preservative treatment: Organic solvent impregnation to NBS section Z12 and Wood Protection Association Commodity Specification C11; Design service life: 40 years; Fire retardant treatment: Fire retardant impregnation to NBS section Z12 and Wood Protection Association Commodity Specification FR3, Type LR; as per Architects Specification						
Roofs; Laid to falls						
D	Exceeding 300mm	4	m2			

				€	c
<u>(47) ROOF FINISHES (Cont)</u>					
Ironmongery, Accessories and Sundries					
<u>Insulation - Rigid Thermoset phenolic insulation core with composite foil facings on both sides with an aged thermal conductivity / value of 0.15W/mk, achieving Class 0 fire rating; as per Architects Detail on Drawing 7016</u>					
Insulation; Thermal					
A	Exceeding 300mm; 80mm thick	2	m2		
B	Exceeding 300mm; 100mm thick	2	m2		
<u>METALWORK</u>					
Non-Structural					
<u>Stainless Steel expanded metal mesh; fixed to plywood soffit (measured elsewhere) using mushroom cap mechanical fixings to softwood framing; as per Architects Drawing 7016</u>					
Sheeting; expanded metal					
C	Exceeding 300mm	2	m2		
<u>FLOOR, WALL AND CEILING FINISHES</u>					
In-situ Finishes					
<u>Render Finish. 20mm 3-coat sand cement render with napp finish. Min. U-Value: 0.18 W/m2K. System performance: To IS 325. First undercoat: Ss 25 45 70/630 Site mixed rendering mortar. Second undercoat: Ss 25 45 70/630 Site mixed rendering mortar. Final coat: Ss 25 45 70/630 Site mixed rendering mortar; to Architects Drawing 5.01 and Specifications Ss 25 45 70 55 & Ss 25 45 70/630</u>					
Walls					
D	Exceeding 300mm wide; to ply / mesh (measured elsewhere)	2	m2		
<u>Beads/ stops for External Use, Material: PVC-U. Form: Angle bead. Movement bead. Stop bead (standard wing). Stop bead (bell cast). To suit render depth: 19 mm. Colour: White; fixed in strict accordance with the Architect's Drawings and Specification Pr 35 90 07 72 & Pr 35 90 07/650</u>					
Sundries					
E	Stop Beads with external grade non hardening sealant to junction with drip bead; Horizontal	2	m		
F	RAL coloured pressed metal plaster stop / drip; corners to be welded; include for external grade non hardening sealant to junction with drip bead; Horizontal	2	m		

					€	c
<u>(47) ROOF FINISHES (Cont)</u>						
<u>PAINTING AND DECORATING</u>						
Painting						
Water-based masonry paints. Painting to external walls with Napp Render Finish. Manufacturer: Crown Trade or equivalent. Texture: Smooth. Colour: To be agreed with ER. Properties: Drying Time Under normal drying conditions touch dry in 1-2 hours and recoatable after 4- 6 hours. Finish Smooth. Composition Pigment: Titanium Dioxide, light fast coloured pigments and extenders. Binder: Vinyl acetate copolymer. Solvent: Water. Spreading Rate Up to 16m² per litre. On textured surface the spreading rate will vary down to approx. 4m² per litre. Wet Film Thickness 62.4 micrometres at 16m² per litre. Dry Film Thickness 19.73 micrometres at 16m² per litre. Volume Solids 31% Brilliant White. Other colours will vary. Flash Point Not applicable. VOC Content EU limit value for this product (cat.A/c): 40 g/l (2010). This product contains max. 1 g/l VOC. Limitations EN1062-6 Classification C1 (R = 192m) - Taylor Woodrow Certificate of Test No: 8825. Do not apply when there is a risk of rain, air or substrate temperatures are likely to fall below 8°C or when the relative humidity is above 80% during application or the drying period. Do not use on bitumen coatings. The decoration of Fletton brickwork either facings or commons is not recommended. Preparation: New Surfaces. All surfaces must be sound, clean, suitably dry and free from anything that will interfere with the adhesion of the materials to be applied. Surfaces with suction (porous surfaces) should be treated with an application of Crown Trade Stronghold Stabilising Solution (Clear). Coating System: Apply two coats as required. Application: Stir well before use. Apply by brush, medium or long pile roller depending on surface texture, or by airless spray. For airless spray use a minimum fluid pressure of 2000psi (136 bar) and a minimum tip size of 0.018 thou. Mask as necessary with a wet strength grade masking paper; all as per Architects Drawing and Specification Pr 35 31 22 96						
Walls; to rendered blockwork						
A	Exceeding 300mm wide	2	m ²			

					€	c
(47) ROOF FINISHES (Cont)						
FLAT ROOF AREAS						
ROOFING, CLADDING & WATERPROOFING						
Mastic Asphalt, Waterproof and Gas proof & Non-Metal Flexible Sheet Coverings						
Paralon ARD/HS Plus roofing system - System performance: Ss 30 40 30/270 Durability; Ss 30 40 30/240 Thermal design; Ss 30 40 30/210 Roof covering design. System manufacturer: MOY or equivalent. Product reference: MOY Paralon Reinforced Bitumen System or equivalent. Waterproof covering. First layer. Type: MOY Paralon TOP S. Attachment: Torch on. Top layer. Type: MOY Paralon ARD/HS. Attachment: Torch on. Surface protection: MOY VLU 300 Polyester Fleece. Preparation. Horizontal work : Apply bitumen and tensioactive additive based primer compound, to cleaned dry cement based surfaces. Apply at a rate of 0.2 to 0.3 litres per M2. Allow to dry. Air and vapour control layer. Type: Reinforced Modified Bitumen. Manufacturer: Imper Italia or equivalent. Product reference: Parabase 3kg. Thickness: 2.5mm Vapour resistance: ae20,000. Attachment: Securely bond to substrate. Side and end laps: Side Laps 80mm, End Laps 150mm. Joints in second layer (where applicable): Stagger by half a membrane. Penetrations: Fully seal using bonding or taping methods recommended by manufacturer. Edges of insulation at roof edges, abutments, upstands, kerbs, penetrations and the like: Enclosed with vapour control layer: Dressed up sufficiently, providing 50 mm (minimum) seal when overlapped by the roof covering; or Turned back 150 mm (minimum) over the insulation and sealed down. Type: Pr 25 71 63 66 Polyisocyanurate (PIR) foam boards Flat Roof Insulation - RT4 (measured elsewhere). Fixing: Setting out: a. Long edges: Fully support and run at right angles. End edges: Adequately support. Joints: Butt together. End joints: Stagger. Bedding: Bonded in Moy Materials PU Insulation adhesive, installed in accordance with manufacturer's installation guidelines. Mechanical fixing: N/A. Protection to exposed edges of insulation: Install galvanised steel flashing strip prior to application of waterproofing layers at changes in level. Completion: Boards must be in good condition, well-fitting and stable. System accessories: Harmer AV400M Moy Materials Ltd. Cast Aluminium Anti Vortex Outlets, sized in accordance with project specific rainwater design calculations to BS EN 12056, cast in LM6 Aluminium Silicone Alloy to BS 1490:1988. Complete with clamping ring & leaf grille, sized and supplied by waterproofing system manufacturer and incorporated in total roof system warranty. Supply with continuously welded 600mm vertical spigot pipe. Flange must be recessed into the insulation board or sumped by a minimum of 30mm. Moy Flex Joint EP20 / EP40 Expansion joint strip to any expansion joints. Moy Lite Anchor lightning tape clips. Moy PP3 and Roof Nek Cable penetration devices. Moy Walkway Roll to walkways and high traffic zones and ladder stepdown points. Execution: Ss 30 40 30/732 Laying reinforced bitumen membranes (generally). System completion: Issue Moy Materials Ltd warranty upon satisfactory final inspection by Moy Materials Ltd Ss 30 40 30/890 Verification of performance; Ss 30 40 30/810 Inspection of completed work; Ss 30 40 30/830 Electronic roof integrity test Roofing; laid to falls						
A	Area exceeding 300mm	81	m2			

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(47) ROOF FINISHES (Cont)						
Flat Roof abutment to wall / Parapet wall; Minimum 45mm Paratorch or equivalent insulation carried up face of upstand of wall; Minimum two layer bitumen warm deck roof covering class 1 I-90 standard taken up wall; Polyester reinforced on insulation on suitable vapour control membrane; include for Base sheet: Top S 3mm polyester reinforced A.P.P. modified bitumen base sheet membrane fully torch bonded to suitable insulation with 100mm side and 150mm end laps; Roofing manufacturer approved 3kg vapour control layer loose laid with minimum 150mm side and end laps; sealed and detailed to envelope insulation board fixed in accordance with manufacturers recommendations and the specification; include lead counter flashing, compatible VCL turned up wall behind PIR insulation; 75mm insulated angle fillets at upstands in accordance with manufactures recommendations; all as per Architects Drawing 7010 Upstands; Flat Roof abutment to wall						
A	Girth: 300 - 450mm	84	m			
Detail to Flat roof to form gutter to wall detail; Minimum 80mm cold bridge insulation carried up face of upstand to to of wall; Minimum two layer bitumen warm deck roof covering class 1 I-90 standard taken up wall; BBA Agreement Certified SBS modified bitumen membrane; Polyester reinforced on insulation on suitable vapour control membrane; Include for Base sheet: Top S 3mm polyester reinforced A.P.P. modified bitumen base sheet membrane fully torch bonded to suitable insulation with 100mm side and 150mm end laps; Roofing manufacturer approved 3kg vapour control layer loose laid with minimum 150mm side and end laps; sealed and detailed to envelope insulation board fixed in accordance with manufacturers recommendations and the specification; 75mm insulated angle fillets at upstands in accordance with manufactures recommendations; Accessories: Stop ends / Corners / Outlets / Downpipes; all as per Architects Specification & Drawing 7013 Upstands; Flat Roof gutter to wall detail						
B	Girth 450 - 600mm overall	27	m			
Details to rooflights; Structural kerb fixing and Horseshoe packers to space framework from kerb; include 100 x 50mm treated stud packers between upstand; include for upstand to be packed with PIR insulation; profiled filler sealed top and bottom with gun grade sealant; including 3mm polyester powder coated aluminium insulated apron flashing with DPC backing & air tightness; all fixed to flat roof finish (measured elsewhere) and structural steel (measured elsewhere); all strictly in accordance with Architect's Drawing 7010 Kerbs						
C	Girth 300 - 450mm	16	m			

					€	c
(47) ROOF FINISHES (Cont)						
PROPRIETARY RAINWATER OUTLETS; Connection type: Spigot / Screw-threaded; Nominal size: 50mm / 75mm / 100mm / 150mm; Roof construction: Flat roofs; Type of grate/ Fittings: Domed; Outlet: Type and direction to suit pipework with suitable adaptors and connections; Accessories: Screw thread to spigot adaptor; Metal deck support plates; all in strict accordance with Architect's specification and Drawing 5.09 Like Items; Outlets						
A	Generally	5	nr			
WOODWORK						
Ironmongery, Accessories and Sundries						
Insulation - Type: Pr. 25 71 63 66 Polyisocyanurate (PIR) foam boards Flat Roof Insulation - RT4; Description: Flat roof insulation to all bitumen flat roofs installed as per system requirements; Manufacturer: Kingspan Insulation or equivalent; Product reference: Kingspan Thermaroom TR27 - Flat roof insulation (Kingspan Thermaroom TR27 - 120 mm); Standard: To BS EN 13165; Third-party certification: British Board of Agreement (BBA) Certification. Fire performance: Euroclass R1F F to BS EN 13501-1:2018; Thermal conductivity (maximum): 0.14W/m2K; Water permeability: Manufacturer's standard; Water vapour permeability: Manufacturer's standard; Acoustic performance: Manufacturer's standard; Compressive strength at 10% deformation: 150 kPa; Cross section: Uniform thickness; Thickness (nominal): Total= 170mm (120mm board + 50mm board); Density: Manufacturer's standard; Recycled content: 0% (minimum) to BS EN ISO 14021; Facing: Glass tissue-based facing; Edges: Square; SpecificHeatCapacity: 1.4 kJ/kgK; Standard: To BS EN 13165; Fire performance: Reaction to fire: Roof Assembly Value B Roof T4;. Thermal conductivity (maximum): 0.024 W/mK; Compressive strength at 10% deformation: 150 KPA; Facing: Lower Board # Glass Tissue / Upper Board # Bitumen Facer; Edges: Square Insulation; Thermal						
B	Exceeding 300mm	81	m2			

					€	c
<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
<u>ALTERNATIVE RULES FOR THE MEASUREMENT OF MECHANICAL INSTALLATIONS</u>						
<u>(51) HEATING CENTRE</u>						
<u>System</u>						
Heating centre installation, testing and commissioning; The heating system consists of gas fired cascade modular boilers; LTHW header arrangement, circulating pumps; pressurisation unit; distribution pipework; pipework insulation; brackets and supports; radiator heating system, and associated controls and manifold arrangement; The gas fired boilers shall be located within the boiler room. Distribution pipework shall extend from the boiler room and pumped via a variable temperature circuit to serve the two LTHW radiator heating zones. The heating pipework shall be distributed within the ground floor corridor ceiling voids with pipework entering each room to extend up and down to serve the radiator positions; all in strict accordance with the Mechanical Engineers Specification Section 51 and Drawings 2860-M-13, 2860-M-16						
<u>Primary Equipment</u>						
Boiler and controls; supply and installation; complete; Fram mounted, pri-mix, fully modulating, modular condensing boilers; Boilers to be Class 5; Duty: 60kw; Flow rate per boiler: 1.9; Heating Volume flow rate: 12.9 m3/hr; Max Gas consumption: 35.1 m3/hr; Weight: 70kg; Dimensions: 1280mm height x 465mm depth x 520mm width; NOx rating: at 0% oxygen, dry g/kwh; Water content: 5 ltrs; Heat exchanger with plasma polymerization surface ensuring minimal cleaning; Modulation: 18 to 100%; Net efficiency: 110 %; Working pressure: 4 bar; Noise level: 52 dB; 1x MCM module c/w an outside sensor for link to BMS; 1 No 100 mm inline Strainer; Manufacturer Boiler Test Pressure: 10 Bar; The LTHW generation system shall come as a complete package including boilers; pump connection sets, pipework, isolation valves, gauges & accessories, fully automated controls, cascade boiler frame and controller; all in strict accordance with the Mechanical Equipment Schedule Ref: B						
A	Boiler; Ref: B01/B02; Location: Boiler House	2	nr			
<u>Accessories associated with Primary Equipment</u>						
Isolation valves; lever operated, include for all fittings and accessories; all in accordance with the Mechanical Engineers Specification Section 51						
B	22mm Isolation Valves	6	nr			
C	32mm Isolation Valves	4	nr			
D	65mm Isolation Valves	7	nr			
Strainer valve; include for all fittings and accessories; all in accordance with the Mechanical Engineers Specification Section 51						
E	32mm Strainer Valves	2	nr			
F	65mm Strainer Valves	1	nr			

					€	c
<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
Non-return Valves; include for all fittings and accessories; all in accordance with the Mechanical Engineers Specification Section 51						
A	22mm Non-return Valves	2	nr			
B	32mm Non-return Valves	2	nr			
Pressure Reducing Valves; include for all fittings and accessories; all in accordance with the Mechanical Engineers Specification Section 51						
C	22mm Pressure Reducing Valves	1	nr			
Lock Shield Valves; include for all fittings and accessories; all in accordance with the Mechanical Engineers Specification Section 51						
D	22mm Lock Shield Valves	3	nr			
Safety Valves; include for all fittings and accessories; all in accordance with the Mechanical Engineers Specification Section 51						
E	32mm Lock Shield Valves	3	nr			
Drain Cock Valves; lockshield type, connection to accept key, hose pipe connector; include for all fittings and accessories; all in accordance with the Mechanical Engineers Specification Section 51						
F	22mm Drain Cock Valves	2	nr			
G	32mm Drain Cock Valves	2	nr			
H	65mm Drain Cock Valves	2	nr			
J	100mm Drain Cock Valves	2	nr			
Test points; include for all accessories and fittings; complete; all in accordance with the Mechanical Engineers Specification Section 51						
K	65mm Test points	1	nr			
Commissioning Sets; include for all accessories and fittings; complete; all in accordance with the Mechanical Engineers Specification Section 51						
L	32mm Commissioning Sets	2	nr			
M	65mm Commissioning Sets	1	nr			
Capped Ends; include for all accessories and fittings; complete; all in accordance with the Mechanical Engineers Specification Section 51						
N	65mm Capped Ends	4	nr			
P	100mm Capped Ends	2	nr			

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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
Auto Air Vent; include for all accessories and fittings; complete; all in accordance with the Mechanical Engineers Specification Section 51						
A	22mm Auto Air Vent	1	nr			
Quick fill connections; include for all accessories and fittings; complete; all in strict accordance with the Mechanical Specification Section 51						
B	22mm Quick fill connections	1	nr			
Test Point; include for all accessories and fittings; complete; all in strict accordance with the Mechanical Specification Section 51						
C	65mm Test Point	1	nr			
Temperature Gauge; include for all accessories and fittings; complete; all in accordance with the Mechanical Engineers Specification Section 51						
D	32mm Temperature Gauge	2	nr			
E	50mm Temperature Gauge	1	nr			
Pressure Gauge; include for all accessories and fittings; complete; all in accordance with the Mechanical Engineers Specification Section 51						
F	22mm Pressure Gauge	1	nr			
G	32mm Pressure Gauge	2	nr			
Temperature/Pressure Gauge; include for all accessories and fittings; complete; all in accordance with the Mechanical Engineers Specification Section 51						
H	65mm Temperature/Pressure Gauge	3	nr			
Pressure Switch; include for all accessories and fittings; complete; all in accordance with the Mechanical Engineers Specification Section 51						
J	Pressure Switch, High/Low	2	nr			
Flexible connections; include for all accessories and fittings; complete; all in accordance with the Mechanical Engineers Specification Section 51						
K	22mm Flexible connections	2	nr			
L	65mm Flexible connections	2	nr			
Tundish; supply and installation; complete; all in strict accordance with the Mechanical Engineers Specification Section 51						
M	Tundish	2	nr			

					€	c
<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
Soak box; supply and installation; complete; all in strict accordance with the Mechanical Engineers Specification Section 51						
A	Soak Box	2	nr			
Expansion Vessel; supply and installation; complete; include for all fixings, anti vibration mounts and brackets; all in strict accordance with the Mechanical Engineers Specification Section 51						
B	Expansion Vessel	1	nr			
Air & Dirt Separator; supply and installation; complete; cabinet housed design; all in accordance with the Mechanical Engineers Specification						
C	Air & Dirt Separator	1	nr			
Chemical Dosing; supply and installation; complete; Chemical dosing c/w flexible connections; include for all fixings, anti vibration mounts and brackets; all in strict accordance with the Mechanical Engineers Specification						
D	Chemical Dosing	1	nr			
Pressurisation Unit; supply and installation; complete; all in accordance with the Mechanical Engineers Specification						
E	Pressurisation Unit; Ref: PU 01	1	nr			
Circulating Pumps supply and installaiton; comcplete; Manufacturer: Grunfos, Glandless CVVT, variable speed drive or equivalent; c/w flexible connections; include for all fixings, anti-vibration mounts and brackets; all in strict accordance with the Mechanical Engineers Equipment Schedule Ref: C						
F	Circulation Pump - LTHW; Ref: P 01	1	nr			
Stainless steel flue; supply and installation; complete; Stainless steel flue twin walled insulated; Contractor shall connect a twin wall stainless flue from the gas fired water heater arrangement to extend to main flue header. The flue shall be complete with individul modulating air intake control damper and terminated with a propriety cowl; include for all necessary branch fittings, weather roof flashing, rain caps and supports; The flue shall be fitted with adequate supports, offsets, tee's, condensate to drain and termination unit; include for all accessories, fittings and firestopping; complete; Mechanical Equipment Schedule Ref: B						
G	Twin walled header flue; Size 100mm diameter (Ref: BF/01, Location: Boiler room)	2	nr			
H	Twin walled combined flue; Size 250mm diameter (Ref: BF/01, Location: Boiler room)	1	nr			

					€	c
<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
<u>Distribution</u>						
Stainless steel pipework and fittings; include for all fixings and supports; include for all elbows, expansion bellows; unions and tees necessary to complete the work; all in strict accordance with the Mechanical Specification Section 51						
A	25mm diameter pipework	1	item			
Medium Grade Black Mild steel pipework and fittings; include for all fixings and supports; include for all elbows, expansion bellows; unions and tees necessary to complete the work; Painting: two coat of zinc chromate primer prior to fitting of insulation; all in strict accordance with the Mechanical Specification Section 51						
B	15mm diameter pipework	1	item			
C	22mm diameter pipework	1	item			
D	28mm diameter pipework	1	item			
E	32mm diameter pipework	1	item			
F	35mm diameter pipework	1	item			
G	50mm diameter pipework	1	item			
H	65mm diameter pipework	1	item			
J	100mm diameter header pipework	1	item			
<u>Insulation</u>						
Rigid mineral wool insulation; to LTHW services pipes; thermal conductivity not exceeding 0.04 W/mK; Integral reinforced aluminium covering; vapour barrier to be maintained at all times; Class '1' fire rated; applied strictly in accordance with the manufacturers instructions; butt joints, glued and sealed; include for all accessories; all in accordance with the Mechanical Engineers Specification Section 51						
Insulation, 25mm thick						
K	to 15mm diameter pipework	1	item			
L	to 22mm diameter pipework	1	item			
M	to 28mm diameter pipework	1	item			
Insulation, 35mm thick						
N	to 32mm diameter pipework	1	item			
P	to 35mm diameter pipework	1	item			

					€	c
<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
A	to 50mm diameter pipework	1	item			
B	to 65mm diameter pipework	1	item			
C	to 100mm diameter pipework	1	item			
Insulated cover boxes; aluminium split casing c/w spring clip fasteners, 35mm thick insulation lining; sized to suit valve; vapour sealed; all in accordance with Engineers Specification						
D	General valves & Plant	1	item			
Metalclad Aluminium cladding; to plantroom and external pipework; include for all accessories; all in accordance with the Mechanical Engineers Specification Section 51						
E	to 15mm diameter pipework	1	item			
F	to 22mm diameter pipework	1	item			
G	to 28mm diameter pipework	1	item			
H	to 32mm diameter pipework	1	item			
J	to 35mm diameter pipework	1	item			
K	to 50mm diameter pipework	1	item			
L	to 65mm diameter pipework	1	item			
M	to 100mm diameter pipework	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with Engineers Specification						
N	Testing and commissioning	1	item			
P	Testing,chemical dosing, sterilization and certification of all systems	1	item			
Operating and maintenance manuals; all in accordance with Engineers Specification						
Q	Operating and maintenance manuals	1	item			
Working drawings; all in accordance with Engineers Specification						
R	Working drawings	1	item			
Co-ordination drawings; all in accordance with Engineers Specification						
S	Co-ordination drawings	1	item			

					€	c
<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
As built drawings; all in accordance with Engineers Specification						
A	As built drawings	1	item			
Identification plates, labels and the like; all in accordance with Engineers Specification						
B	Identification plates, labels and the like	1	item			
(52) DRAINAGE AND REFUSE DISPOSAL						
<u>System</u>						
Soils and Waste Drainage Installation, testing and commissioning; complete; The complete installation of all above ground foul water drainage and refuse disposals; all in strict accordance with the Mechanical Engineers Specification Section 52 and Drawing 2860-M-07, 2860-M-08, 2860-M-09, 2860-M-19						
<u>Terminal Equipment and Fittings</u>						
Floor Gully; supply and installation; complete; Type: Stainless steel; c/w removable core; include for all fittings and seals; all in accordance with the Mechanical Specification						
C	Floor Gully	2	nr			
Sanitary ware; INSTALLATION AND FINAL CONNECTIONS ONLY (Sanitary ware measured elsewhere, refer to Bill of Quantities element (74) Sanitary Fittings for full details); fixing in accordance with the manufacturer's recommendations; all in accordance with the Architects and Mechanical Engineers Specification						
D	WC; c/w connections and fittings	18	nr			
E	WHB; c/w taps, waste traps, fittings and brackets	14	nr			
F	Drinking Fountain; c/w connections and fittings	2	nr			
G	Shower; complete	2	nr			
H	Sink unit; single bowl c/w taps, waste traps and fittings	14	nr			
J	Sink unit; double bowl c/w taps, waste traps and fittings	3	nr			
K	Belfast sink unit; single bowl c/w taps, waste traps and fittings	4	nr			
L	Lab sink; single bowl c/w taps, waste traps and fittings	14	nr			
M	Fume Cupboard c/w taps, waste traps and fittings	1	nr			
N	Dishwasher/ Washing machine; c/w waste traps and flexible fittings	3	nr			

					€	c
<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
<u>Accessories associated with terminal equipment and fittings</u>						
Chemical resistant pipework and fittings; supply and installation; complete; Jointing type: Solvent weld joints generally; ring seal joints at expansion joints; include for all joints; fittings; brackets and pipework supports; all in accordance with the Mechanical General Specification						
A	32mm diameter waste drop from Science Lab sink to first floor builder floor socket	14	nr			
B	32mm diameter waste drop from Fume cupboard to first floor builder floor socket	1	nr			
C	40mm diameter waste drop from Science prep sink to first floor builder floor socket	3	nr			
D	50mm diameter SP drop to ground floor builder floor socket	3	nr			
E	50mm diameter SP drop to first floor builder floor socket	2	nr			
F	110mm diameter SVP drop to ground floor builders floor socket	6	nr			
G	110mm diameter SVP drop to first floor builders floor socket	5	nr			
H	75mm Cleaning eye	2	nr			
uPVC pipework and fittings; supply and installation; complete; Jointing type: Solvent weld joints generally; ring seal joints at expansion joints; include for all joints, fittings, brackets, pipework supports intumescent fire collars and weathering aprons;; all in accordance with Mechanical Engineers General Specification Section 52						
J	32mm diameter waste drop from WHB to ground floor builders floor socket	6	nr			
K	32mm diameter waste drop from WHB to first floor builders floor socket	8	nr			
L	40mm diameter waste drop from Double bowl sink to ground floor builders floor socket	3	nr			
M	40mm diameter waste drop from Single Bowl Sink to ground floor builders floor socket	14	nr			
N	40mm diameter waste drop from Shower to ground floor builders floor socket	1	nr			
P	40mm diameter waste drop from Shower to first floor builders floor socket	1	nr			
Q	40mm diameter waste drop from Dishwasher/ Washing Machine to ground floor builders floor socket	2	nr			
R	40mm diameter waste drop/floor gully from Drinking Fountain to ground floor builders floor socket	1	nr			
S	40mm diameter waste drop/floor gully from Drinking Fountain to first floor builders floor socket	1	nr			
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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>					
A	40mm diameter waste from Indoor Unit to ground floor builders upstand/SVP	6	nr		
B	40mm diameter waste from Indoor Unit to first floor builders upstand/SVP	7	nr		
C	110mm diameter waste drop from WC to ground floor builders floor socket	8	nr		
D	110mm diameter waste drop from WC to first floor builders floor socket	10	nr		
E	110mm roof cowl	5	nr		
<u>Distribution System</u>					
Chemical resistant pipework and fittings; supply and installation; complete; Jointing type: Solvent weld joints generally; ring seal joints at expansion joints; include for all joints; fittings; brackets and pipework supports; all in accordance with the Mechanical General Specification					
F	32mm nominal diameter; surface fixed; supports at average 1200mm centres vertical, 500mm centres horizontal; ears fixed with screws to background requiring plugging	1	item		
G	40mm nominal diameter; surface fixed; supports at average 1200mm centres vertical, 500mm centres horizontal; ears fixed with screws to background requiring plugging	1	item		
H	75mm nominal diameter; surface fixed; supports at average 1800mm centres vertical, 900mm centres horizontal; ears fixed with screws to background requiring plugging	1	item		
J	100mm nominal diameter; surface fixed; supports at average 1800mm centres vertical, 900mm centres horizontal; ears fixed with screws to background requiring plugging	1	item		
K	110mm nominal diameter; surface fixed; supports at average 1800mm centres vertical, 900mm centres horizontal; ears fixed with screws to background requiring plugging	1	item		
uPVC pipework and fittings; supply and installation; complete; Jointing type: Solvent weld joints generally; ring seal joints at expansion joints; include for all joints, fittings, brackets, pipework supports intumescent fire collars and weathering aprons;; all in accordance with Mechanical Engineers General Specification Section 52					
L	32mm nominal diameter; surface fixed; supports at average 1200mm centres vertical, 500mm centres horizontal; ears fixed with screws to background requiring plugging	1	item		
M	38mm nominal diameter; surface fixed; supports at average 1200mm centres vertical, 500mm centres horizontal; ears fixed with screws to background requiring plugging	1	item		

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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
A	40mm nominal diameter; surface fixed; supports at average 1200mm centres vertical, 500mm centres horizontal; ears fixed with screws to background requiring plugging	1	item			
B	50mm nominal diameter; surface fixed; supports at average 1200mm centres vertical, 900mm centres horizontal; ears fixed with screws to background requiring plugging	1	item			
C	80mm nominal diameter; surface fixed; supports at average 1800mm centres vertical, 900mm centres horizontal; ears fixed with screws to background requiring plugging	1	item			
D	110mm nominal diameter; surface fixed; supports at average 1800mm centres vertical, 900mm centres horizontal; ears fixed with screws to background requiring plugging	1	item			
<u>Insulation</u>						
Acoustic foil-faced mineral wool insulation; to all pipework services and fittings; 65mm thick; all joints taped and sealed; all in strict accordance with the Mechanical Engineers Specification						
E	to 32mm diameter pipework	1	item			
F	to 38mm diameter pipework	1	item			
G	to 40mm diameter pipework	1	item			
H	to 50mm diameter pipework	1	item			
J	to 75mm diameter pipework	1	item			
K	to 80mm diameter pipework	1	item			
L	to 100mm diameter pipework	1	item			
M	to 110mm diameter pipework	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with Engineers Specification						
N	Testing and commissioning	1	item			
Operating and maintenance manuals; all in accordance with Engineers Specification						
P	Operating and maintenance manuals	1	item			
Working drawings; all in accordance with Engineers Specification						
Q	Working drawings	1	item			

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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
(53) WATER SERVICES - HOT AND COLD WATER						
<u>System</u>						
Cold Water Distribution installation, testing and commissioning; complete; The cold water services for the building shall be supplied from a high level storage tank located in the dedicated tank room providing cold water to the hot water water heater, wash hand basins, sinks and showers; the contractor shall install pipework to all appliances and outlets as indicated on the drawings. General pipework shall be copper with plain ends, installed with foil-back insulation. The Contractor shall coordinate water service pipework with ductwork, electrical and heating services; The Contractor shall commission and test all systems under this contract prior to handover; all in strict accordance with the Mechanical Specification Section 53, Equipment Schedules and Drawings 2860-M-03, 2860-M-04, 2860-M-17, 2860-M-18						
Hot Water Distribution installation, testing and commissioning; complete; The school will be provided with a dedicated hot water system. A separate cold feed from the CWS tank will supply the direct gas fired water heater located in the heating centre. The hot water system (HWS) is complete with open vent and will have a pumped return. The HWS will be distributed, generally at high level on the ground and first floors to supply all sinks and WHB's throughout the school. Local TMV3 blending valves will be fitted adjacent to point of use of each wash hand basin and sink (excluding cleaners sink). Each thermostatic blending valve will be provided failsafe lockable and will limit the temperature to 43#C to prevent scalding. General pipework shall be copper with plain ends, installed with foil -back insulation; The Contractor shall coordinate water service pipework with ductwork, electrical and heating services; The Contractor shall commission and test all systems under this contract prior to handover; all in strict accordance with the Mechanical Specification Section 53, Equipment Schedules and Drawings 2860-M-03, 2860-M-04, 2860-M-17, 2860-M-18						
<u>Primary Equipment</u>						
Cold water storage tank; supply and installation; complete; Pre-insulated, Format 30; Dimensions: 2150mm x 2150mm x 1000mm high; Capacity: 3760 litres; c/w lid, access doors, ball cock, ball valve, early warning pipes with mesh screen, overflows with mesh screen, drain c/w hose union connections, heavy duty access panels, splitter panel, flanged cold water outlets; internal and external stainless steel ladder c/w safety cage; drip tray; installation as per manufacturers recommendations; include for all fittings and accessories; all in strict accordance with the Mechanical Specification Equipment Schedule Ref: O						
A	Cold Water Storage Tank; Ref: T-01	1	nr			

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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
Fully Condensing Hot Water Unit; supply and installation; complete; Type: 35 Kw Water Heater with fully modulating premix; Manufacturer: ACV or equivalent; Fuel: Natural gas; Dimensions 1755mm height x 708mm depth x 600mm width; Natural Gas flow rate: 3.64 m3/hr; Efficiency: 30%; NOx emission: 55 mg/kWh; Storage capacity: 196L; Weight (empty): 177kg; Hot outlet connection: 1" BSP; Gas connection: 3/4" BSP; Electrical Requirements: 0V/1Ph/50Hz; Sound power level: 62 LWA(db); Nominal flue gas temperature: 60#C; Max outlet temperature: 87#C; Maximum working pressure: 8.6Bar; c/w BMS interface, unvented kit, and flue kit to suit plant room layout; include for all accessories; all in accordance with the Mechanical Engineers Equipment Schedule Ref: M						
A	Water Heater (Ref: WH01; Location: Boiler room)	1	nr			
<u>Accessories associated with Primary Equipment</u>						
Isolation valves; lever operated, include for all fittings and accessories; all in accordance with the Mechanical Engineers General Specification Section 53						
B	15mm Isolation Valves	5	nr			
C	22mm Isolation Valves	2	nr			
D	28mm Isolation Valves	6	nr			
E	35mm Isolation Valves	14	nr			
F	42mm Isolation Valves	2	nr			
G	54mm Isolation Valves	5	nr			
Lockshield Valve; include for all fittings and accessories; all in accordance with the Mechanical Engineers Specification Section 53						
H	15mm Lockshield Valves	7	nr			
J	22mm Lockshield Valves	1	nr			
K	35mm Lockshield Valves	1	nr			
Strainer Valve; include for all fittings and accessories; all in accordance with the Mechanical Engineers Specification Section 53						
L	54mm Strainer Valves	1	nr			
Non-return Valve; include for all fittings and accessories; all in accordance with the Mechanical Engineers Specification Section 53						
M	35mm Non-return Valves	1	nr			
N	54mm Non-return Valves	1	nr			

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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
Drain Cock Valve; include for all fittings and accessories; all in accordance with the Mechanical Engineers General Specification Section 53						
A	35mm Drain Cock Valve	2	nr			
B	54mm Drain Cock Valve	1	nr			
Safety Valve; include for all fittings and accessories; all in accordance with the Mechanical Engineers General Specification Section 53						
C	35mm Safety Valve	3	nr			
Temperature Gauge; include for all accessories and fittings; complete; all in accordance with the Mechanical Engineers Specification Section 53						
D	42mm Temperature Gauge	1	nr			
Pressure Gauge; include for all fittings and accessories; all in accordance with the Mechanical Engineers General Specification Section 53						
E	42mm Pressure Gauge	1	nr			
High Limit Stat; include for all fittings and accessories; all in accordance with the Mechanical Engineers General Specification Section 53						
F	High Limit Stat;	1	nr			
Temperature Stat; include for all accessories and fittings; complete; all in accordance with the Mechanical Engineers Specification Section 53						
G	Temperature Stat	1	nr			
Flexible Connections; include for all fittings and accessories; all in accordance with the Mechanical Engineers General Specification Section 53						
H	35mm Flexible Connections	2	nr			
Pumps supply and installation; complete; Manufacturer: Grunfos, Bronze single phase or equivalent; c/w flexible connections; include for all fixings, anti-vibration mounts and brackets; all in strict accordance with the Mechanical Engineers Equipment Schedule Ref: C						
J	Hot Water Secondary Pump; Flow: 0.5 kg/s, Pressure: 40 kPa; Ref: P 02	1	nr			

					€	c
<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
Stainless steel flue; supply and installation; complete; Stainless steel flue twin walled insulated; Contractor shall connect a twin wall stainless flue from the gas fired water heater arrangement to extend to main flue header. The flue shall be complete with individual modulating air intake control damper and terminated with a proprietary cowl; include for all necessary branch fittings, weather roof flashing, rain caps and supports; The flue shall be fitted with adequate supports, offsets, tee's, condensate to drain and termination unit; include for all accessories, fittings and firestopping; complete; Mechanical Equipment Schedule Ref: B						
A	Twin walled header flue; Size 150mm diameter (Ref: BF/02, Location: Boiler room)	1	nr			
<u>Terminal equipment and fittings</u>						
Sanitary ware; FINAL CONNECTIONS ONLY (Sanitary ware measured elsewhere, refer to Bill of Quantities element (74) Sanitary Fittings for full details); fixing in accordance with the manufacturer's recommendations; all in accordance with the Architects and Mechanical Engineers Specification						
B	WHB; 15mm; connecting in accordance with the manufacturer's instructions	14	nr			
C	WC; 15mm; connecting in accordance with the manufacturer's instructions	18	nr			
D	Sink unit; single bowl, single drainer; 15mm; connecting in accordance with the manufacturer's instructions	14	nr			
E	Sink unit; double bowl, single drainer; 15mm; connecting in accordance with the manufacturer's instructions	1	nr			
F	Belfast sink unit; single bowl; 15mm; connecting in accordance with the manufacturer's instructions	4	nr			
G	Lab sink; 15mm; connecting in accordance with the manufacturer's instructions	14	nr			
H	Shower; 15mm; connecting in accordance with the manufacturer's instructions	2	nr			
J	Dishwasher; 15mm; connecting in accordance with the manufacturer's instructions	2	nr			
K	Washing Machine; 15mm; connecting in accordance with the manufacturer's instructions	1	nr			
<u>Accessories associated with terminal equipment and fittings</u>						
Ballofix isolation valves; for isolation of water services pipework at final connections to fittings; include for all fittings and accessories; all in accordance with the Mechanical Specification						
L	15mm Ballofix Isolation Valves	168	nr			

					€	c
<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
Thermostatic Blending Valves; supply and installation; complete; TMV3 standard failsafe, lockable thermostatic mixing valve c/w integral strainers and non-return valves; all in accordance with the Mechanical Equipment Schedule Ref: I						
A	15mm Thermostatic Mixing Valves	33	nr			
Shower thermostatic blending valves; TMV3 standard fail-safe, lockable thermostatic mixing valve c/w integral strainers and non-return valves; Outlet temperature: 42/43 degree C; all in accordance with the Mechanical Specification						
B	22mm Shower thermostatic mixing valves	2	nr			
<u>Distribution</u>						
Copper pipes and fitting; include for all fixing brackets, hangers and supports; include for all elbows, expansion bellows, unions and tees necessary to complete works; all in strict accordance with the Mechanical Specification Section 53						
C	15mm diameter pipework	1	item			
D	22mm diameter pipework	1	item			
E	28mm diameter pipework	1	item			
F	35mm diameter pipework	1	item			
G	42mm diameter pipework	1	item			
H	54mm diameter pipework	1	item			
J	135mm diameter pipework	1	item			
<u>Insulation</u>						
Rigid mineral wool insulation; to all HWS pipework services and fittings; thermal conductivity not exceeding 0.04 W/mK; c/w Integral reinforced aluminium covering and vapour barrier; Class 'O' fire rated; applied strictly in accordance with the manufacturers instructions; butt joints, glued and sealed; include for all accessories; all in accordance with the Mechanical Engineers Specification Section 53						
Insulation, 25mm thick						
K	to 15mm diameter pipework	1	item			
L	to 22mm diameter pipework	1	item			
M	to 28mm diameter pipework	1	item			
N	to 35mm diameter pipework	1	item			
P	to 42mm diameter pipework	1	item			

					€	c
<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
A	to 54mm diameter pipework	1	item			
B	to 135mm diameter pipework	1	item			
Insulated cover boxes; aluminium split casing c/w spring clip fasteners, 35mm thick insulation lining; sized to suit valve; vapour sealed; all in accordance with Engineers Specification						
C	General valves	1	item			
Metalclad Aluminium cladding; to plantroom and external ductwork; include for all accessories; all in accordance with the Mechanical Engineers Specification Section 53						
D	to 15mm diameter pipework	1	item			
E	to 22mm diameter pipework	1	item			
F	to 28mm diameter pipework	1	item			
G	to 35mm diameter pipework	1	item			
H	to 42mm diameter pipework	1	item			
J	to 54mm diameter pipework	1	item			
K	to 135mm diameter pipework	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with Engineers Specification						
L	Testing and commissioning	1	item			
M	Testing,chemical dosing, sterilization and certification of all systems	1	item			
Operating and maintenance manuals; all in accordance with Engineers Specification						
N	Operating and maintenance manuals	1	item			
Working drawings; all in accordance with Engineers Specification						
P	Working drawings	1	item			
Co-ordination drawings; all in accordance with Engineers Specification						
Q	Co-ordination drawings	1	item			
As built drawings; all in accordance with Engineers Specification						
R	As built drawings	1	item			

				€	c
<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>					
Identification plates, labels and the like; all in accordance with Engineers Specification					
A	Identification plates, labels and the like	1	item		
(53) WATER DISTRIBUTION - MAINS WATER SERVICES					
<u>System</u>					
Mains Water Distribution installation, testing and commissioning; The MWS pipework shall be non-metallic; Mains water shall be distributed around the building as highlighted on the drawings. Dedicated drinking water taps (individually labelled 'drinking water') are to be located in the following locations: over classroom sinks, over staff room sink, multipurpose room, drinking fountains. The Contractor shall coordinate water service pipework with ductwork, electrical and heating services; Prior to handover, the Contractor shall arrange to have a sample from a mains water drinking tap tested for compliance with current regulations; During the Defects Liability Period, a second mains water sampling operation shall take place nine months after handover to ensure continuing compliance; all in strict accordance with the Mechanical Specification Section 53 and Drawings 2860-M-03, 2860-M-04, 2860-M-17, 2860-M-18					
<u>Accessories associated with Primary Equipment</u>					
Isolation valves; lever operated, for isolation of MWS pipework up to include for all fittings and accessories; all in accordance with the Mechanical Engineers Specification Section 53					
B	15mm Isolation Valves	4	nr		
C	32mm Isolation Valves	4	nr		
Pressure Reducing Valve; include for all fittings and accessories; all in accordance with the Mechanical Engineers General Specification Section 53					
D	32mm Pressure Reducing Valve	1	nr		
Check valve; include for all fittings and accessories; all in accordance with the Mechanical Engineers General Specification Section 53					
E	32mm Check valve	1	nr		
Stop Cock valve; include for all fittings and accessories; all in accordance with the Mechanical Engineers General Specification Section 53					
F	32mm Stop Cock Valve	1	nr		
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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
Water Meter; linked to BMS; include for all fittings and accessories; all in accordance with the Mechanical Equipment Schedule Ref: J						
A	Mains Water Meter; Ref: M01	1	nr			
<u>Terminal equipment and fittings</u>						
Frost free bib tap; Body: Gun Metal with Chrome Finish; Seat Seals: EPDM; Extension Kit: Copper; Extension Kit: Required; Automatic Draining: Required; Back Flow Prevention: Required; Fixing Set: Required; Lockable / Cap: Required; include for all seals and accessories; all in accordance with the Mechanical Specification Section 53						
B	Frost free bib tap	1	nr			
Sanitary ware; FINAL CONNECTIONS ONLY (Sanitary ware measured elsewhere, refer to Bill of Quantities element (74) Sanitary Fittings for full details); fixing in accordance with the manufacturer's recommendations; all in accordance with the Architects and Mechanical Engineers Specification						
C	Drinking fountain; 15mm; connecting in accordance with the manufacturer's instructions	2	nr			
D	Sink unit; single bowl, single drainer; 15mm; connecting in accordance with the manufacturer's instructions	14	nr			
E	Sink unit; double bowl, single drainer; 15mm; connecting in accordance with the manufacturer's instructions	1	nr			
F	Belfast sink unit; single bowl; 15mm; connecting in accordance with the manufacturer's instructions	4	nr			
<u>Accessories associated with terminal equipment and fittings</u>						
Ballofix isolation valves; for isolation of water services pipework at final connections to fittings; include for all fittings and accessories; all in accordance with the Mechanical Specification						
G	15mm Ballofix isolation valves	18	nr			
<u>Distribution</u>						
Multi-layer composite pipes and fittings; supply and installation; Application: mains water/drinking water pipelines; include for all fixing brackets, hangers and supports; include for all elbows, expansion bellows, unions and tees necessary to complete works; all in strict accordance with the Mechanical Engineers General Specification Section 53						
H	15mm diameter pipework	1	item			
J	22mm diameter pipework	1	item			
K	28mm diameter pipework	1	item			

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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
A	32mm diameter pipework	1	item			
	<u>Insulation</u> Rigid mineral wool insulation; to LTHW services pipes; thermal conductivity not exceeding 0.04 W/mK; Integral reinforced aluminium covering; vapour barrier to be maintained at all times; Class 'O' fire rated; applied strictly in accordance with the manufacturers instructions; butt joints, glued and sealed; include for all accessories; all in accordance with the Mechanical Engineers Specification Section 53 Insulation, 25mm thick					
B	to 15mm diameter pipework	1	item			
C	to 22mm diameter pipework	1	item			
	Insulation, 35mm thick					
D	to 28mm diameter pipework	1	item			
E	to 32mm diameter pipework	1	item			
	Insulated cover boxes; aluminium split casing c/w spring clip fasteners, 35mm thick insulation lining; sized to suit valve; vapour sealed; all in accordance with Engineers Specification					
F	General valves	1	item			
	Metalclad Aluminium cladding; to plantroom and external pipework; include for all accessories; all in accordance with the Mechanical Engineers Specification Section 53					
G	to 15mm diameter pipework	1	item			
H	to 22mm diameter pipework	1	item			
J	to 28mm diameter pipework	1	item			
K	to 42mm diameter pipework	1	item			
	<u>General</u> Testing and commissioning; all in accordance with Engineers Specification					
L	Testing and commissioning	1	item			
M	Testing, chemical dosing, sterilization and certification of all systems	1	item			

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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
Operating and maintenance manuals; all in accordance with Engineers Specification						
A	Operating and maintenance manuals	1	item			
Working drawings; all in accordance with Engineers Specification						
B	Working drawings	1	item			
Co-ordination drawings; all in accordance with Engineers Specification						
C	Co-ordination drawings	1	item			
As built drawings; all in accordance with Engineers Specification						
D	As built drawings	1	item			
Identification plates, labels and the like; all in accordance with Engineers Specification						
E	Identification plates, labels and the like	1	item			
(54) GAS SERVICES						
<u>System</u>						
Gas distribution; installation testing and commissioning; A new incoming LPG gas supply has been proposed to serve the new building; Gas installation shall be in accordance with EN 1775:2007; All work with gas pipework and gas equipment shall be completed by gas certified and registered contractor; all in strict accordance with the Mechanical Engineers Specification Section (54), Equipment Schedules and Drawings 2860-M-16						
<u>Accessories associated with Primary Equipment</u>						
Isolation Valves for isolation of gas services pipework; include for all accessories; all in strict accordance with the Mechanical Specification Section 54						
F	15mm Isolation Valves	46	nr			
G	28mm Isolation Valves	8	nr			
H	100mm Isolation Valves	3	nr			
Cock Valves for isolation of gas services pipework; include for all accessories; all in strict accordance with the Mechanical Specification Section 54						
J	25mm Cock Valves	1	nr			
K	50mm Cock Valves	2	nr			
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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
Pressure Reducing valve for gas services pipework; include for all accessories; all in strict accordance with the Mechanical Specification Section 54						
A	25mm dia Pressure Reducing Valve	1	nr			
B	50mm dia Pressure Reducing Valve	2	nr			
Pressure Gauge for gas services pipework; include for all accessories; all in strict accordance with the Mechanical Specification Section 54						
C	25mm Pressure Gauge	1	nr			
D	50mm Pressure Gauge	2	nr			
Flexible connection; include for all accessories; all in strict accordance with the Mechanical Specification Section 54						
E	25mm Flexible connection	1	nr			
F	50mm Flexible connection	2	nr			
Gas Meter c/w tamperproof, lockable metal caging; gas meters are to be of the pulsed type and shall be connected to the BMS; Gas meter to have volt free contacts for connection to the BMS; include for all accessories and fittings; complete; all in strict accordance with Equipment Schedule Ref: J						
G	Gas Meter; Ref: M02	1	nr			
<u>Distribution System</u>						
Medium grade black mild steel pipes and fittings; include for all fixing brackets, hangers and supports; include for all elbows, expansion bellows, unions and tees necessary to complete works; Painted with two coats of yellow ochre paint; pipework run in ceiling voids; all in strict accordance with the Mechanical Specification						
H	15mm diameter pipework	1	item			
J	25mm diameter pipework	1	item			
K	28mm diameter pipework	1	item			
L	32mm diameter pipework	1	item			
M	40mm diameter pipework	1	item			
N	50mm diameter pipework	1	item			
P	80mm diameter pipework	1	item			
Q	100mm diameter pipework	1	item			
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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
<u>(54) GAS DETECTION SYSTEM - BOILER ROOM</u>						
<u>System</u>						
Gas detection system installation testing and commissioning; The contractor shall supply and install a combination gas detection and gas pressure proving system within the boiler room; The system must measure gas pressure from both sides of the slam shut valve at the same time using pressure differential sensing by means of twinned micro transducers. Gas detectors for the detection of combustible gas and carbon monoxide shall be installed and connected to the gas panel, along with thermal links above the boilers. The system must be able to automatically restart after a power failure; all in strict accordance with the Mechanical Specification Section (54), Equipment Schedule and Drawings 2860-M-16						
<u>Primary Equipment</u>						
Gas detection control panel; supply and installation; complete; Two Channel Gas Leak Detection Control Unit; 230Vac 50Hz, Single Phase Supply; LED Indicators for:- Power On - Green, Gas On - Red, Emergency Stop Button - Yellow, Gas Leak Detector Panel fitted with Mute & Re-Set Buttons; IP65 surface mounted enclosure; include for all accessories and fittings; complete; all in accordance with the Mechanical Equipment Schedule Ref: N						
A	Gas detection control panel (Location: Boiler room)	1	nr			
<u>Accessories associated with Primary Equipment</u>						
Gas solenoid valves; Aluminium Construction with Connections BSP screwed; 240Vac (50Hz) Single Phase Supply; include for all accessories and fittings; all in accordance with the Mechanical Equipment Schedule Ref: N						
B	100mm dia Gas solenoid valve	1	nr			
Gas Detector; fully addressable; include for all accessories and fittings; complete; all in strict accordance with the Mechanical Equipment Schedule Ref: N						
C	Gas Detector	4	nr			
Heat Detector; fully addressable; include for all accessories and fittings; complete; all in strict accordance with the Mechanical Equipment Schedule Ref: N						
D	Heat Detector	4	nr			
Emergency Stop Button; include for all accessories and fittings; complete; all in strict accordance with the Mechanical Equipment Schedule Ref: N						
E	Emergency Stop Button	1	nr			

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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
<u>General</u>						
Testing and commissioning; all in accordance with Engineers Specification						
A	Testing and commissioning	1	item			
Operating and maintenance manuals; all in accordance with Engineers Specification						
B	Operating and maintenance manuals	1	item			
Working drawings; all in accordance with Engineers Specification						
C	Working drawings	1	item			
Co-ordination drawings; all in accordance with Engineers Specification						
D	Co-ordination drawings	1	item			
As built drawings; all in accordance with Engineers Specification						
E	As built drawings	1	item			
Identification plates, labels and the like; all in accordance with Engineers Specification						
F	Identification plates, labels and the like	1	item			
(54) GAS PROVING SYSTEM - SC & HE ROOMS						
<u>System</u>						
Gas detection system installation testing and commissioning; The Contractor shall supply a gas detection system for the Specialist and Home Economics Room. The system shall be linked to the existing master panel located in the existing school building; the system shall have an emergency stop facility, linked to the fire alarm and comply with BS1673; all in strict accordance with the Mechanical Specification Section (54), Equipment Schedule and Drawings 2860-M-11, 2860-M-12						
<u>Primary Equipment</u>						
Gas proving panel; supply and installation; complete; Unit c/w Gas Sensor, Gas Monitor, Alarm Sounder and battery back up; LED Indicators for:- Power On, Gas On; Water On; Emergency Stop Button; Gas Leak Detector Panel fitted with Mute & Re-Set Buttons; IP65 surface mounted enclosure; include for all accessories and fittings; complete; all in accordance with the Mechanical Equipment Schedule Ref: N						
G	Gas detection control panel (Location: Science/Home Economics)	4	nr			

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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
<u>Accessories associated with Primary Equipment</u>						
Gas solenoid valves; supply and installation; complete; Aluminium Construction with Connections BSP screwed; 240Vac (50Hz) Singe Phase Supply; include for all accessories and fittings; all in accordance with the Mechanical Equipment Schedule Ref: N						
A	28mm Gas solenoid valve	4	nr			
7-day time clock; supply and installation; complete; include for all accessories and fittings; all in accordance with the Mechanical Equipment Schedule Ref: N						
B	7-day time clock	4	nr			
<u>General</u>						
Testing and commissioning; all in accordance with Engineers Specification						
C	Testing and commissioning	1	item			
Operating and maintenance manuals; all in accordance with Engineers Specification						
D	Operating and maintenance manuals	1	item			
Working drawings; all in accordance with Engineers Specification						
E	Working drawings	1	item			
Co-ordination drawings; all in accordance with Engineers Specification						
F	Co-ordination drawings	1	item			
As built drawings; all in accordance with Engineers Specification						
G	As built drawings	1	item			
Identification plates, labels and the like; all in accordance with Engineers Specification						
H	Identification plates, labels and the like	1	item			

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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
(56) SPACE HEATING						
<u>System</u>						
Space Heating installation, testing and commissioning; The space heating system consists LTHW distribution pipework, pipework insulation, brackets and supports; radiator and radiant panel system heating; and associated controls and manifold arrangement; Distribution pipework shall extend from the boiler room and is pumped via a variable temperature circuit to serve the LTHW radiator heating zones. The heating pipework is distributed within the high level ground floor corridor ceiling void with pipework entering each room to extend up and down to serve the radiator positions; all in strict accordance with the Mechanical Engineers Specification Section 56 and Drawings 2860-M-01, 2860-M-02, 2860-M-16						
<u>Terminal Equipment and Fittings</u>						
Radiators; supply and installation; complete; Type: steel double panel, double fin radiator, wall mounted; Casing: metal wall thickness not less than 1.5mm thick with scratch resistant surface; Output: to be tested accordance with EN442; Connections: 1/2" connections; Pressure tested: 10 bar; All radiators shall be supplied with: Concealed wall mounting brackets, Touch up Paint 12ml container of touch up paint with integral brush applicator in RAL 9016, Air Vent Key; include for all fixings and accessories; all in strict accordance with Mechanical Equipment Schedule Ref: D						
A	Radiator Ref: RAD 01, Size 600mm length x 600mm height	4	nr			
B	Radiator Ref: RAD 02, Size 700mm length x 600mm height	2	nr			
C	Radiator Ref: RAD 03, Size 800mm length x 600mm height	1	nr			
D	Radiator Ref: RAD 04, Size 900mm length x 600mm height	4	nr			
E	Radiator Ref: RAD 06, Size 1400mm length x 600mm height	28	nr			
F	Radiator Ref: RAD 07, Size 1600mm length x 600mm height	7	nr			
G	Radiator Ref: RAD 08, Size 2000mm length x 600mm height	6	nr			
H	Radiator Ref: RAD 09, Size 2400mm length x 600mm height	6	nr			
Radiant Panels; supply and installation; complete; Construction: Flat panel finish, coated in anti-bacterial paint; Output: All panels shall be manufactured to ensure all outputs are in accordance with EN14037; Insulation: closed cell; Median for heat transfer of copper tube to metal plate must be graphite to ensure over 90% conductivity; Anti-deflection profile to be incorporated within the panel c/w ceiling/roof mounting brackets as required; Touch up Paint 12ml container of touch up paint with integral brush applicator in RAL 9016; Air Vent Key; flexible connections; include for all fixings and accessories; all in strict accordance with Mechanical Equipment Schedule Ref: G						
J	Radiant Panel Ref: RP 01; Size 3000mm length x 600mm wide	9	nr			

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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
Oil Filled Electric Heater; supply and installation; complete; Type: oil filled radiator; c/w mounting brackets; Features: room tempeture thermostatic control, electronic timer, neon live indicator, adjustable heat settings, Manual override to enable the heater to provide instant heat during an 'off' period without affecting the pre-set programme, Safety 'Tilt Switch', Auto reset safety cutout, Permanently sealed oil fill; Finish: standard white stove enamel; c/w factory fitted casters suitable for floor mounting; all in strict accordance with Mechanical Specification						
A	Oil filled Electric radiator	1	nr			
<u>Accessories associated with terminal equipment and fittings</u>						
Thermostatic Radiator Valves; Type: Self-actuating radiator valve; brushed chrome; EN125; Application: To be installed on the flow connection; Pattern: Straight /angle; tamperproof with integral sensor, Integral temperature selector and remote sensor, Remote sensor incorporating the selector, Remote sensor and remote selector; include for all accessories; all in accordance with the Mechanical Engineers Specification Section 56						
B	Self-actuating thermostatic radiator valves	2	nr			
Thermostatic Radiator Valves; Type: Remote-actuating radiator valve; brushed chrome; EN125; Application: To be installed on the flow connection; Pattern: Straight /angle; tamperproof with integral sensor, Integral temperature selector and remote sensor, Remote sensor incorporating the selector, Remote sensor and remote selector; include for all accessories; all in accordance with the Mechanical Engineers Specification Section 56						
C	Remote-actuating thermostatic radiator valves	8	nr			
Lockshield radiator valves; Type: Manually operated radiator valves; Application: LTHW heating radiator presetting and isolating; Pattern: Straight (Angle only where space restrictions apply); Finish: gunmetal bodies with brushed chrome finish; Valves shall incorporate a BSP union taper tail piece/ BSP female compression fitting as appropriate for direct connection; include for all accessories; all in accordance with the Mechanical Specification Section 56						
D	Lockshield radiator valves	116	nr			
2 - Port Motorised Valve; supply and installation; complete; Range 2-port motorised valves with auxiliary switch; c/w modbus and display module, Technical data: Voltage: 230Vac/ 110Vac/24 Vac; Power consumption: 6w; Cable length: 1m, 5 core; fluid temperature: +5 to +80#C; Max ambient tempeture: +50#C; port A normally closed when there is no power; installation as per manufacturers instruction; include for all accessories and fittings; complete; all in accordance with Mechanical Equipment Schedule Ref: K						
E	15mm 2-Port Motorised Valve and Actuator	28	nr			
F	20mm 2-Port Motorised Valve and Actuator	5	nr			

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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
Isolating Valves; supply and installation; complete; Application: isolation valves on LTHW heating system; up to 50/54 mm diameter valves; include for all seals; all in accordance with the Mechanical Engineers Specification Section 56						
A	15mm Isolation Valves	68	nr			
B	20mm Isolation Valves	13	nr			
C	25mm Isolation Valves	32	nr			
Double Regulating Valve; supply and installation; complete; Application: isolation, adjusting flow rate and measuring pressure drop on LTHW system; Up to 50/54 mm diameter valves to be oblique pattern double regulating type having a straight line characteristic of fluid flow to spindle lift with integral or direct coupled orifice plate. Valves shall incorporate a lockable indicator device to protect the regulation setting. Bodies shall be of bronze with taper screwed ends and working parts of gunmetal; Orifice plate shall comprise a machined orifice plate with test plugs located each side of the plate; include for all seals; all in accordance with the Mechanical Engineers Specification Section 56						
D	15mm Double Regulating Valve	28	nr			
E	20mm Double Regulating Valve	6	nr			
Commissioning Valves; supply and installation; complete; Application: Commissioning sets on LTHW system; Closed coupled commissioning stations using butterfly type valves include for all seals; all in accordance with the Mechanical Engineers Specification Section 56						
F	20mm dia Commissioning Set	1	nr			
Digital Room Lockable Temperature Stats; supply and installation; complete; include for all fittings and accessories; all in accordance with the Mechanical Engineers Specification						
G	Digital Room Thermostats	17	nr			
<u>Distribution</u>						
Medium Grade Black Mild steel pipework and fittings; include for all fixings and supports; include for all elbows, expansion bellows; unions and tees necessary to complete the work; Painting: two coat of zinc phosphate primer prior to fitting of insulation; all in strict accordance with the Mechanical Specification Section 56						
H	15mm diameter pipework	1	item			
J	20mm diameter pipework	1	item			
K	22mm diameter pipework	1	item			
L	25mm diameter pipework	1	item			

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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
A	32mm diameter pipework	1	item			
B	40mm diameter pipework	1	item			
C	50mm diameter pipework	1	item			
D	65mm diameter pipework	1	item			
<u>Insulation</u>						
Rigid mineral wool insulation; to LTHW services pipes; thermal conductivity not exceeding 0.04 W/mK; Integral reinforced aluminium covering; vapour barrier to be maintained at all times; Class 'O' fire rated; applied strictly in accordance with the manufacturers instructions; butt joints, glued and sealed; include for all accessories; all in accordance with the Mechanical Engineers Specification Section 56						
Insulation, 25mm thick						
E	to 15mm diameter pipework	1	item			
F	to 20mm diameter pipework	1	item			
G	to 22mm diameter pipework	1	item			
H	to 25mm diameter pipework	1	item			
Insulation, 35mm thick						
J	to 32mm diameter pipework	1	item			
K	to 40mm diameter pipework	1	item			
L	to 50mm diameter pipework	1	item			
M	to 65mm diameter pipework	1	item			
Insulated cover boxes; aluminium split casing c/w spring clip fasteners, 35mm thick insulation lining; sized to suit valve; vapour sealed; all in accordance with Engineers Specification						
N	General valves & Plant	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with Engineers Specification						
P	Testing and commissioning	1	item			
Q	Testing, chemical dosing, sterilization and certification of all systems	1	item			

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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
Operating and maintenance manuals; all in accordance with Engineers Specification						
A	Operating and maintenance manuals	1	item			
Working drawings; all in accordance with Engineers Specification						
B	Working drawings	1	item			
Co-ordination drawings; all in accordance with Engineers Specification						
C	Co-ordination drawings	1	item			
As built drawings; all in accordance with Engineers Specification						
D	As built drawings	1	item			
Identification plates, labels and the like; all in accordance with Engineers Specification						
E	Identification plates, labels and the like	1	item			
(57) VENTILATION SERVICES						
<u>System</u>						
Ventilation installation, testing and commissioning; complete; The contractor shall supply and install all ventilation ductwork, terminals and plant within the building; all in accordance with the Mechanical Engineers Specification Section 57, Equipment Schedule and Drawing 2860-M-05, 2860-M-06 & 2860-M-07						
<u>Primary Equipment</u>						
Heat Recovery Unit; supply and installation complete; heat recovery devices are fitted into the extract system access panels shall be located on both sides of the device; c/w side attenuator, backdraught shutters/dampers & Flexible connections, Power supply: 220V/1 Ph/50 Hz; installation as per manufacturers recommendations; include for all fittings and accessories; all in accordance with the Mechanical Equipment Schedule Ref: F						
F	Heat Recovery Unit; Duty 100 l/s @ 1.60 (W/(l/s)); Dimension (L x W x H): 1960mm x 957mm x 399mm; Ref: HRU 01	2	nr			
G	Heat Recovery Unit; Duty 168 l/s @ 1.25 (W/(l/s)); Dimension (L x W x H): 2230mm x 1113mm x 459mm; Ref: HRU 02	2	nr			
H	Heat Recovery Unit; Duty 200 l/s @ 1.10 (W/(l/s)); Dimension (L x W x H): 2253mm x 1280mm x 576mm; Ref: HRU 03	1	nr			
J	Heat Recovery Unit; Duty 248 l/s @ 1.30 (W/(l/s)); Dimension (L x W x H): 2253mm x 1280mm x 576mm; Ref: HRU 04	6	nr			
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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
A	Heat Recovery Unit; Duty 256 l/s @ 1.30 (W/(l/s)); Dimension (L x W x H): 2253mm x 1280mm x 576mm; Ref: HRU 05	1	nr			
B	Heat Recovery Unit; Duty 264 l/s @ 1.35 (W/(l/s)); Dimension (L x W x H): 2553mm x 1280mm x 576mm; Ref: HRU 06	1	nr			
	Extract Fan; supply and installation complete; Type: in-line mixed flow duct fan; c/w side attenuator, backdraught shutters/dampers & Flexible connections, Power supply: 220V/1 Ph/50 Hz; installation as per manufacturers recommendations; include for all fittings and accessories; all in accordance with the Mechanical Equipment Schedule Ref: F					
C	Inline Extract Fan; Ref: EF 01; 06-30L/S	7	nr			
D	Inline Extract Fan; Ref: EF 02; 40L/S	1	nr			
E	Inline Extract Fan; Ref: EF 04; 250L/S	2	nr			
	Extract Fan; supply and installation complete; Type: in-line fan, temperature control, BMS integration; c/w side attenuator, backdraught shutters/dampers & Flexible connections, Power supply: 220V/1 Ph/50 Hz; installation as per manufacturers recommendations; include for all fittings and accessories; all in accordance with the Mechanical Equipment Schedule Ref: F					
F	Inline Extract Fan; Ref: EF 03; 75L/S	1	nr			
G	Inline Extract Fan; Ref: EF 05; 600L/S	1	nr			
	Extract Canopies; supply and installation complete; Dimensions: 665-910mm h x 475mm d x 600mm w; Construction: stainless steel hood and chimney; No. of Lights: 2 x 40W; Filters (SS Washable): Grease (mesh and baffle type); Minimum height above hob: 650mm; Fan: Twin fan type; Controls: 3 speed controller integrals to unit; include for all fittings and accessories; all in accordance with the Mechanical Equipment Schedule Ref: G					
H	Canopy; Ref: EG 02	10	nr			
	<u>Accessories Associated With Primary Equipment; Controls</u>					
	HRU room controller; supply and installation; complete; include for all fixings; all in accordance with the Mechanical Engineers Specification					
J	HRU room controller	13	nr			
	PIR c/w Run on Timer ; supply and installation; complete; include for all fixings; all in accordance with the Mechanical Engineers Specification					
K	PIR	2	nr			

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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
Fan Isolation Switch c/w Run on Timer ; supply and installation; complete; include for all fixings; all in accordance with the Mechanical Engineers Specification						
A	Fan Isolation Switch	4	nr			
Temperature sensor c/w Run on Timer; supply and installation; complete; include for all fixings; all in accordance with the Mechanical Engineers Specification						
B	Temperature sensor	1	nr			
Three speed controller; supply and installation; complete; include for all fixings; all in accordance with the Mechanical Engineers Specification						
C	Three speed controller	1	nr			
Variable speed controller; supply and installation; complete; include for all fixings; all in accordance with the Mechanical Engineers Specification						
D	Variable speed controller	3	nr			
Co2 duct sensor; supply and installation; complete; include for all fixings; all in accordance with the Mechanical Engineers Specification						
E	Co2 duct sensor	13	nr			
<u>Terminal equipment and fittings</u>						
Fire Dampers; supply and installation; complete; Folding blade automatic spring load fire damper c/w replaceable fusible link sub frames, 60 minutes fire rating; Dampers shall be installed to the manufacturers recommendations and shall either be installed within, or keyed to the wall; include for all accessories and fittings; all in accordance with the Mechanical Specification Section 57						
F	Fire Damper; to 100mm ducts	1	nr			
Volume Control Damper; supply and installation; complete; all in accordance with the Mechanical Engineers Specification Section 57						
G	Volume Control Damper; to 100mm duct	19	nr			
H	Volume Control Damper; to 150mm duct	10	nr			
Motorised Damper; supply and installation; complete; all in accordance with the Mechanical Engineers Specification Section 57						
J	Motorised Damper; to 100mm duct	1	nr			

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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
Attenuator; supply and installation; complete; constructed to DW 144, Class 'O' surface rating; Noise rating: NR35; all in accordance with the Mechanical Specification						
A	Attenuator; to 100mm duct	9	nr			
B	Attenuator; to 250mm x 250mm duct	2	nr			
C	Attenuator; to 500mm x 250mm duct	1	nr			
Extract Grille; supply and installation; complete; Material: aluminium powder coated; Colour: white; c/w concealed fixings, OBD and plenum box, connecting collar and flexible connections; all in accordance with the Mechanical Equipment Schedule Ref. G						
D	Extract Grille; Circular diffuser; neck size 100mm diameter; Ref: EG 01	20	nr			
E	Extract Grille; Square 4 way, egg crate diffuser; size 400 x 400mm; Ref: EG 03	4	nr			
Supply Grille; supply and installation; complete; Material: aluminium powder coated; Colour: white; c/w concealed fixings, OBD and plenum box, connecting collar and flexible connections; all in accordance with the Mechanical Equipment Schedule Ref. G						
F	Supply Grille; Circular diffuser; neck size 100mm diameter; Ref: SG 01	1	nr			
External Wall Louvres; supply and installation; complete; Material: extruded aluminium with galvanised mesh insect screen; Colour: RAL colour finish; c/w concealed fixings, 300mm minimum deep plenum box, flanged connection; include for all weatherproofing and fittings; all in accordance with the Mechanical Equipment Schedule Ref: H						
G	External Louver; Ref: EWL 01; size 150mm x 150mm	11	nr			
H	External Louver; Ref: EWL 02; size 400mm x 400mm	2	nr			
J	External Louver; Ref: EWL 03; size 1400mm x 250mm	1	nr			
K	External Louver; Ref: EWL 04; size 350mm x 350mm	1	nr			
L	External Louver; Ref: EWL 05; size 400mm x 400mm	2	nr			
M	External Louver; Ref: EWL 06; size 250mm x 250mm	4	nr			
N	External Louver; Ref: EWL 07; size 350mm x 350mm	4	nr			
P	External Louver; Ref: EWL 08; size 350mm x 350mm	2	nr			
Q	External Louver; Ref: EWL 09; size 400mm x 400mm	12	nr			
R	External Louver; Ref: EWL 10; size 400mm x 400mm	2	nr			
S	External Louver; Ref: EWL 11; size 400mm x 400mm	2	nr			
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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
Roof Cowl; supply and installation; complete; include for all weatherproofing and fittings; all in accordance with the Mechanical Equipment Schedule Ref: H						
A	Roof Cowl; Ref: RC 01; size 490mm x 490mm x 310mm	1	nr			
<u>Distribution System</u>						
Galvanised Sheet Steel Ductwork; supply and installation; complete; Type: circular/rectangular ductwork; Standards: in accordance with HVCA DW144; include for all flexible connections; joints; ductwork supports; access hatches, test holes, non combustible sleeves, accessories and fixings; all in accordance with the Mechanical General Specification Section 57						
B	Ductwork; size 100mm diameter	1	item			
C	Ductwork; size 150mm diameter	1	item			
D	Ductwork; size 200mm diameter	1	item			
E	Ductwork; size 250mm diameter	1	item			
F	Ductwork; size 315mm diameter	1	item			
G	Ductwork; size 250mm x 250mm	1	item			
H	Ductwork; size 300mm x 250mm	1	item			
J	Ductwork; size 400mm x 250mm	1	item			
K	Ductwork; size 500mm x 250mm	1	item			
<u>Insulation</u>						
Foil faced mineral wool duct insulation; 50mm thick; thermal conductivity not exceeding 0.04 W/mK; c/w Integral reinforced aluminium covering and vapour barrier; Class 'O' fire rated; applied strictly in accordance with the manufacturers instructions; butt joints, taped and sealed; 150mm long 18mm gauge steel sleeves at location of duct supports; include for all insulation hangers and accessories; all in accordance with the Mechanical Specification Section 57						
L	Insulation; 100mm diameter ducts	1	item			
M	Insulation; 150mm diameter ducts	1	item			
N	Insulation; 200mm diameter ducts	1	item			
P	Insulation; 250mm diameter ducts	1	item			
Q	Insulation; 315mm diameter ducts	1	item			
R	Insulation; 250mm x 250mm ducts	1	item			
S	Insulation; 300mm x 250mm ducts	1	item			

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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
(58) FIRE FIGHTING INSTALLATIONS						
<u>System</u>						
Fire Fighting installation, testing and commissioning; complete; Hand held fire extinguishers and fire blankets shall be provided throughout the building as detailed on the drawings; The Contractor shall ensure that all fire safety equipment and installation meets the relevant Fire and Local Authority requirements and complies with any specific requirements of the company insuring the project on completion. In general and where relevant, the installation shall comply with current standards; The Contractor shall be responsible for carrying out the commissioning of the portable fire extinguishers before they are installed; all in accordance with the Mechanical Engineers Specification Section (58), Equipment Schedule and Drawings 2860-M-07 to 2860-M-08						
<u>Terminal equipment and Fittings</u>						
Fire Extinguishers supply and installation; complete with 5 years guarantee, CE approved and marked; all in accordance with the Mechanical Equipment Schedule Ref: L						
A	2KG CO2 Gas Extinguishers c/w wall mounting brackets and signage	11	nr			
B	5KG CO2 Gas Extinguishers c/w wall mounting brackets and signage	9	nr			
C	5KG CO2 Dry Powder Extinguishers c/w wall mounting brackets and signage	1	nr			
D	6 litre Affe Foam Fog Spray Fire Extinguishers c/w wall mounting brackets and signage	9	nr			
E	1.2m x 1.2m Fibreglass Fire Blankets c/w wall mounting brackets and signage	3	nr			
<u>General</u>						
Testing and commissioning; all in accordance with Engineers Specification						
F	Testing and commissioning	1	item			
Operating and maintenance manuals; all in accordance with Engineers Specification						
G	Operating and maintenance manuals	1	item			
Working drawings; all in accordance with Engineers Specification						
H	Working drawings	1	item			
Co-ordination drawings; all in accordance with Engineers Specification						
J	Co-ordination drawings	1	item			
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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
As built drawings; all in accordance with Engineers Specification						
A	As built drawings	1	item			
Identification plates, labels and the like; all in accordance with Engineers Specification						
B	Identification plates, labels and the like	1	item			
<u>MECHANICAL INSTALLATIONS</u>						
Sundries & Builders Work						
<u>General Attendances</u>						
C	Provide all general attendances in accordance with Arm 4 .	1	item			
D	Provide use of the Main Contractors temporary roads and hardstandings.	1	item			
E	Provide use of the Main Contractors scaffolding.	1	item			
F	Provide use of the Main Contractors standing power operated hoisting plant.	1	item			
G	Provide accommodation for the subcontractors staff for eating, site lavatories, site washing facilities and cloakroom facilities.	1	item			
H	Each sub-contractor shall be permitted the free use, in common with other trades engaged on the site, of any available water supply, temporary plumbing and electrical services.	1	item			
J	Provide temporary distribution systems for lighting, power, water and fuel for the execution of the Mechanical services works, including testing and commissioning , and pay all ongoing operation charges.	1	item			
K	Provide safe and dry storage accommodation for the sub-contractors materials, plant and tools.	1	item			
L	Provide space for the provision by the sub-contractors of their own site offices.	1	item			
M	Provide temporary telephone services to the Mechanical Contractors temporary office and pay all charges associated with installation and operation.	1	item			
N	Include for unloading, hoisting/cranage and placing into position all items of heavy plant and site offices supplied by the sub-contractors.	1	item			
P	Allow for maintaining all ducts, chases, trenches, trunking, etc., clean and free of all water, debris and rodents at all times.	1	item			
Q	Allow for making good and fire sealing of all builders work opes with proprietary sealant to Architects details, where services penetrate fire zones.	1	item			

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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
A	Fire proofing (material) around ducts and pipework shall be the responsibility of the Main Contractor	1	item			
B	Timber grounds shall be provided within stud partitions to facilitate fixing of wall mounted accessories	1	item			
<u>Special Attendances</u>						
C	Provide all special attendances in accordance with Arm 4 Clause 3.1	1	item			
D	Provide temporary roads and hardstandings in connection with heavy items of plant and the like.	1	item			
E	Provide accommodation for the sub-contractor's staff for eating, site lavatories, site washing facilities, and cloaks.	1	item			
F	Provide safe and dry storage accommodation for the sub-contractors materials, plant and tools.	1	item			
G	Provide space for the provision by the sub-contractors of their own site offices.	1	item			
H	Provide temporary distribution systems for lighting, power, water for the execution of the electrical services works, including testing and commissioning, and pay all ongoing operation charges	1	item			
J	Provide the free use, in common with other trades engaged on the site, of any available water supply, temporary plumbing and electrical services	1	item			
K	Protection of the works the Main Contractor is responsible for providing adequate protection at all times for the Mechanical services installation	1	item			
L	Protection/Maintenance, provide covers for placing on live equipment/fittings in areas under construction at the start of each work day and removing the covers at the end of each work day	1	item			
M	Provide external access to high level on building facade to permit the installation of any external equipment/fittings and for the removal of existing services as required	1	item			
N	Provide Mobile Elevated Working Platforms (MEWP) or scaffolding for Mechanical sub-contractors working at high level	1	item			
P	Provide for weathering & sleeving around all penetrations through the external structure of the building and to allow for sealing to fabric to maintain air tightness	1	item			
Q	Allow for maintaining all ducts, chases, trenches, trunking etc, clean and free of all water, debris and rodents at all times	1	item			
R	Allow for making good and fire sealing of all builders work opes with proprietary sealant to architects details, where services penetrate fire zones	1	item			
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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
A	Allow for coordination with local authorities and utility providers in respect of application for connections, providing excavation of roads and full coordination with various utility companies	1	item			
B	Coordinate with Mechanical Contractor to facilitate fitting of all sanitary ware	1	item			
C	Allow for patrices behind ceiling tiles and ceilings for the support of light fittings, grilles, smoke detectors, sensors etc	1	item			
D	Allow for weathering details on all services passing through external envelope	1	item			
E	Allow for all service / utility entries into building	1	item			
F	Allow for clearing away and disposal of any rubbish	1	item			
G	Provide safe access to roofspace to facilitate Mechanical installation work	1	item			
H	Making good of opes for fire smoke dampers	1	item			
J	Provide and maintain the specific temperatures and humidity levels	1	item			
K	Contractor to provide for the construction of a walkway within the Attic space for service and maintenance of water and ventilation services	1	item			
L	Contractor to ensure all existing services shut downs for connecting in new and changeovers shall be carried out between 10pm on a Sunday Night and 6pm on a Monday morning, to avoid any interruptions of the running of the existing school; times to be agreed with school management.	1	item			
M	Provide drinking water taps with engraved signage stating "Drinking Water only"	1	item			
N	Contractor to provide water chlorination certificate prior to handover	1	item			
	Unload, hoist distribute, and place in position the following items of plant and equipment:					
P	Gas boiler	1	item			
Q	Radiators	1	item			
R	Radiant Panels	1	item			
S	Extract Fans	1	item			
T	Pumps	1	item			
U	Cylinders	1	item			
V	CWS Tanks	1	item			

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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
Sundries & Builders Work						
<u>General</u>						
A	Marking positions of holes, mortices and chases	1	item			
B	Testing & Commissioning	1	item			
C	Preparing drawings of "as completed" installations	1	item			
D	Identification plates, labels and the like; Provide and fit colour identification markers to ceiling hatches to mark the location of isolating devices within ceiling voids	1	item			
E	Keys, tools and spares	1	item			
<u>Fire protection board to wall/roof/soffit intersections; Substrate: Block walls, Steel sections; Board: Class A1, non-combustible glass reinforced gypsum board; Manufacturer/ Supplier: Gyproc or equivalent; Product reference: Gyproc Glasroc F Firecase; Colour/ Pattern/ Finish: As supplied; Thickness: 15mm; Fire performance: Reaction to fire: Class A1 reaction to fire to BS EN 13501-1; Resistance to fire: To BS EN 13501-2, REI 60; Edges: Square; Other requirements: Install to manufacturers details and specifications; Fixing to supports: Fasteners: Install to manufacturers details and specifications. Use only gyproc products; Joint treatment: Install to manufacturers details and specifications; Accessories: Use only Gyproc Cleats, brackets, tophats, stud sections, etc; all to Architect's Drawings and Specification</u>						
<u>Pipe Casings</u>						
F	250mm x 250mm wide; 3nr sides only; casings fixed vertically; complete; include all necessary insulation (measured elsewhere), battens, screws, bolts, masonry fixings, decoration etc.; in various locations throughout building; complete	48	m			
G	300mm x 150mm wide; 3nr sides only; casings fixed vertically; complete; include all necessary insulation (measured elsewhere), battens, screws, bolts, masonry fixings, decoration etc.; in various locations throughout building; complete	239	m			
<u>Chasing to blockwork walls; include for firestopping, making good all structures and finishes; all in accordance with the Architects / Engineers / Service Engineers drawings, schedule and specification</u>						
<u>Chasing</u>						
H	Chasing for 15mm diameter pipe	50	m			

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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
<u>Equipment supports; provide supports for the installation of the following fittings; making good structure and finishes; in strict accordance with the Architects/ Services Engineers drawings, schedule and specifications</u>						
Equipment supports						
A	MVHR unit, complete	15	nr			
B	Radiators; complete	64	nr			
C	Radiant panels; complete	9	nr			
D	MCC Panel; complete	1	nr			
E	Portable fire extinguisher cabinets; complete	30	nr			
<u>Forming or cutting holes; including sleeves/plates, intumescent collars to give 1 hour fire resistance; making good structure and finishes; include for a fully completed installation where nothing must remain to be done to the installation by others; in strict accordance with the Architects/ Services Engineers drawings, schedule and specifications</u>						
F	cutting or forming holes is deemed to include all finishes and decorations both sides of the structure		note			
G	cutting or forming opes is deemed to include the making good and sealing of the ope around the pipe or duct		note			
For ducts/pipes through external cavity blockwork wall, include for building in sleeves; weather proofing, firestopping making good all finishes on completion						
H	Size 150mm dia. opes	5	nr			
J	Size 250 x 250mm opes	11	nr			
K	Size 300 x 300mm opes	4	nr			
L	Size 350 x 350mm opes	2	nr			
M	Size 400 x 400mm opes	7	nr			
N	Size 450 x 450mm opes	21	nr			
P	Size 1450 x 300mm opes	1	nr			
For ducts/pipes through internal walls; include for building in sleeves; firestopping making good all finishes on completion						
Q	Size 100mm opes	15	nr			
R	Size 150mm opes	2	nr			
S	Size 150 x 150mm opes	6	nr			
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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
For ducts/pipes through roof finishes; include for building in sleeves; weather proofing, firestopping making good all finishes on completion						
A	Size 110mm dia. opes	5	nr			
B	Size 250mm dia. opes	1	nr			
C	Size 350mm dia. opes	2	nr			
D	Size 550 x 550mm opes	1	nr			
<u>Fire stopping system to multiple and single service penetrations; including intumescent boards, fire stop laminate; intumescent foams and mastic; intumescent pillows; intumescent putty; mineral wool rigid batts; intumescent collars and sealants to achieve 1 hour fire resistance; all in accordance with the Architects specification and Drawings</u>						
Special works were services pass through structures; external walls, making good all finishes on completion						
E	Size 150mm dia. opes	5	nr			
F	Size 250 x 250mm opes	11	nr			
G	Size 300 x 300mm opes	4	nr			
H	Size 350 x 350mm opes	2	nr			
J	Size 400 x 400mm opes	7	nr			
K	Size 450 x 450mm opes	21	nr			
L	Size 1450 x 300mm opes	1	nr			
Special works were services pass through structures; internal walls, making good all finishes on completion						
M	Size 100mm opes	15	nr			
N	Size 150mm opes	2	nr			
P	Size 150 x 150mm opes	6	nr			
Q	Size 200 x 200mm opes	12	nr			
R	Size 300 x 100mm opes	17	nr			
S	Size 300 x 150mm opes	28	nr			
T	Size 300 x 300mm opes	1	nr			
U	Size 500 x 150mm opes	15	nr			

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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
<u>PAINTING AND DECORATING</u>						
Painting						
<u>Paint to internal mild steel guard rails and handrails; preparation in accordance with Ss 40 90 60/620; Dulux Trade or equivalent. Initial coats. Number of coats: One. Thinning: None. Application: Brush. Finishing coats. Number of coats: Two. Application: Brush; all in accordance with Architect's Drawings 11.01 & 11.02 and Specification Ss 40 90 60 80</u>						
Pipes, ducts and the like						
A	Girth not exceeding 300mm	750	m2			

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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
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(5-) MECHANICAL INSTALLATIONS (Cont) COLLECTION Page No. Extension/187 (5-) MECHANICAL INSTALLATIONS Carried to Summary					
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<u>(52) RAINWATER AND DISPOSALS</u>						
<u>SECTIONAL COMPLETION</u>						
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item			
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item			
<u>DRAINAGE</u>						
Disposal above Ground - Rainwater Installation						
<u>Aluminium rainwater pipe and fittings - Description: Vandal resistant non-climbable Aluminium rainwater down-pipes; Third party product certification: BBA Agreement certificate; Form: Pressed; Section: Square; Size (nominal): DN 150; Minimum thickness or gauge: 1.8mm; Finish and colour - Finish: Polyester powder coat finish; Colour: To selected RAL; Integral accessories: Access fittings. Rainwater heads, Rainwater shoes; as per Architects Specification Pr 65 52 63 04</u>						
100mm square downpipes; supported at average 1800mm centres; brackets fixed with screws to background requiring plugging						
C	Surface fixed; vertical	150	m			
<u>Extra over</u> pipes on which they occur for						
D	Bends to suit 100mm square downpipe	19	nr			
E	Shoes to suit 100mm square downpipe	19	nr			
F	Rainwater Head to suit 100mm square downpipe	11	nr			
G	100mm Vertical Spigot Rainwater Outlet to flat roofs	8	nr			
H	Hopper Rainwater Outlet; PPC Aluminium Hopper Head to suite rainwater two way out let and pipework; 100mm diameter sprocket to profiled hopper head; Standard hopper heads are fixed with round head twin thread screws and washers; as per Architects Specification	8	nr			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
(61) ELECTRICITY CENTRE & MAIN DISTRIBUTION						
<u>System</u>						
LV installation, testing and commissioning; complete; The Contractor shall allow for the supply and installation of all switchgear, distribution boards and submains cables in accordance with the drawings and attached specification; The Contractor shall be responsible for safe off-loading, receiving, storage, positioning and fixing of the boards and shall be liable for any damage to boards during installation; The Contractor shall submit working drawings to the Engineer for approval prior to manufacture of switchgear; The Contractors are to note that a Vampire load design strategy is being implemented on this project by instruction of the Department of Education (refer to Electrical Specification Section (61) of project particulars for full details); The electrical contractor shall liaise with ESB to agree the incoming positions and metering for the building; all in accordance with the Electrical General Specifications, Project Particular Specification Section 61 and Drawing 2860-E-15						
A	LV installations	1	item			
<u>Equipment</u>						
Sub-distribution boards; supply and installation (including wiring); complete; Form 4; Material: Electro galvanised steel plate; Frame: 2.5mm thick steelwork, Doors/covers: 1.6mm steelwork, Finish: epoxy self etching filler primer undercoat, 2nr stove enameled synthetic paint finishing coats; Colour: Light grey, RAL 7035; Construction: Modular System based on a size of 192mm; Rated voltage & frequency: 1000v 40-60HZ; Rated Current: 250A; Cable Entry: Side; Cable Exit: Top; IP Rating: IP44; complete with and include for all PVC cables; 250A Bushbars braced for 25kA@ 1s; 1nr 160A TPN Isolator, 3nr 16amp SPN MCCB, 1nr 40amp SPN MCCB, 1nr 20amp TPN MCCB, 1nr 32amp TPN MCCB, 1nr 50amp TPN MCCB, 9nr 63amp TPN MCCB, 1nr 80amp TPN MCCB, 4nr 100amp TPN MCCB, 1nr 100amp BS88 MCCB; Surge protection compartment: (Class 1&2); Integral distribution boards: Building Lighting: 9nr 10amp RCBO's, Emergency/Corridor Lighting: 1nr 6amp MCB's, 18nr 10amp MCB's, 9nr 10amp RCBO's, Relays controlled by CTU's, contactors & H-O-A switch & remote terminals, General Services: N/C contactor controlled by BMS c/w H-O-A Manual bypass switch, 30nr 20amp RCBO's, 9nr 20amp MCB's, 3nr 20amp TP-MCB's, 3nr 32amp TP-MCB's; Mechanical Services: 6nr 20amp RCBO's, 9nr 20amp MCB's, 3nr 20amp TP-MCB's, 3nr 32amp TP-MCB's; Contactors, Time clocks, HOA switches, central test unit, earth terminal and 20% spare equipped and 25% spare unequipped capacity for future expansion; Labels: Traffolyte, black on white, screw on type, to all chambers inside and outside the panel; Testing and commissioning; include for all accessories; all in accordance with the Electrical Project Particular Specifications Section 61 & Drawing 2860-E-15						
B	Sub-distribution board Ref: SDB 01; complete (Location: GF Electrical riser)	1	nr			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
Sub-distribution boards; supply and installation (including wiring); complete; Form 2B; Material: Electro galvanised steel plate; Frame: 2.5mm thick steelwork, Doors/covers: 1.6mm steelwork, Finish: epoxy self etching filler primer undercoat, 2nr stove enameled synthetic paint finishing coats; Colour: Light grey, RAL 7035; Construction: Modular System based on a size of 192mm; IP Rating: IP44; complete with and include for all PVC cables; Bushbars; TPN Isolator, SPN MCB's/RCBO's, TPN MCB's/RCBO's; Surge protection Class 1&2; Contactors, Time clocks, HOA switches, central test unit, earth terminal and 20% spare equipped and 25% spare unequipped capacity for future expansion; Labels: Traffolyte, black on white, screw on type, to all chambers inside and outside the panel; Testing and commissioning; include for all accessories; all in accordance with the Electrical Project Particular Specifications Section 61 & Drawing 2860-E-15						
A	Sub-distribution board Ref: SDB-HE-01; complete (Location: GF Home Economics room)	1	nr			
B	Sub-distribution board Ref: SDB-AR-01; complete (Location: GF Art room)	1	nr			
C	Sub-distribution board Ref: SDB-SP-01; complete (Location: FF Science Prep room)	1	nr			
D	Sub-distribution board Ref: SDB-SP-02; complete (Location: FF Science Prep room)	1	nr			
E	Sub-distribution board Ref: SDB-SP-03; complete (Location: FF Science Prep room)	1	nr			
F	Sub-distribution board Ref: SDB-DCC-01; complete (Location: GF DCC room)	1	nr			
<u>Fittings</u>						
Multi-function digital meter; supply and installation (including wiring), complete; Modbus communications complete with link back to BMS; installation as per Engineers recommendations; all in accordance with the Electrical Specifications Section 61						
G	Multi-function digital meter	9	nr			
<u>Accessories associated with terminal equipment</u>						
Rubber Mat; supply and installation; complete; Minimum width: 750mm; Length: complete Length of each switchboard; Installation: as per Electrical Engineers Recommendations; Standards EN61111:2009; all in accordance with the Electrical Project Particular Specifications Section 61						
H	Rubber Mat	7	nr			
Circuit charts; printed circuit charts shall be provided c/w a perspex cover and fitted to the inside of each distribution board access door; include for all accessories; in strict accordance with the Electrical Specification Section (61)						
J	Circuit charts to switch boards	7	nr			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>Mains and Sub-mains cables</u>						
Sub-mains cable supply and installation; complete; fed from main distribution board located in ground floor entrance to sub-distribution boards/control panels located throughout school building; all in accordance with the Electrical Project Particular Specifications Section (61) and Drawing 2860-E-15						
A	Submains; SDB-01 to Existing DB - 4c 90mm ² XLPE/SWA + 50mm ² LSF CPC	1	item			
B	Submains; SDB-01 to SDB HE-01 - 5c 35mm ² XLPE/SWA/LSF	1	item			
C	Submains; SDB-01 to SDB AR-01 - 5c 35mm ² XLPE/SWA/LSF	1	item			
D	Submains; SDB-01 to SDB SP-01 - 5c 35mm ² XLPE/SWA/LSF	1	item			
E	Submains; SDB-01 to SDB SP-02 - 5c 35mm ² XLPE/SWA/LSF	1	item			
F	Submains; SDB-01 to SDB SP-03 - 5c 35mm ² XLPE/SWA/LSF	1	item			
G	Submains; SDB-01 to SDB DCC-01 - 5c 16mm ² XLPE/SWA/LSF	1	item			
H	Submains; SDB-01 to PV Isolator - 5c 16mm ² XLPE/SWA/LSF	1	item			
J	Submains; SDB-01 to Fire Alarm Panel - 3c 2.5mm ² Enhanced Grade Fire Alarm Cable	1	item			
K	Submains; SDB-01 to Disable Refuse Panel - 3c 2.5mm ² Enhanced Grade Fire Alarm Cable	1	item			
L	Submains; SDB-01 to Intruder Alarm Panel - 3c 2.5mm ² Enhanced Grade Fire Alarm Cable	1	item			
M	Submains; SDB-01 to BMS Panel - 5c 16mm ² XLPE/SWA/LSF	1	item			
N	Submains; SDB-01 to Mini Pillar MP1 - 5c 35mm ² XLPE/SWA/LSF	1	item			
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
P	General earthing and bonding, complete	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
Q	Testing and commissioning; complete	1	item			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
A	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
B	Working drawings; complete	1	item			
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
C	Co- ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
D	As built drawings; complete	1	item			
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
E	Identification plates, labels and the like; complete	1	item			
<u>(62) POWER DISTRIBUTION SERVICES - CONTAINMENT</u>						
<u>System</u>						
Cable ladder/ tray/ trunking installation, testing and commissioning; complete; The Contractor must allow for the supply and installation of a complete cable support system using cable tray, trunking, conduit and support steelwork as shown on the drawings and as detailed in the specification. The Contractor shall include for all incidental cable containment which may not be shown on the drawings but which may be required to effect cable routes to individual items of equipment, luminaries etc; include for all joints, fixing brackets and supports; all exposed and extraneous conductive parts are to be boned and properly earthed in accordance with current wiring regulations; all in accordance with the Electrical Specification and Drawing 2860-E-09 to 2860-E-10						
F	Cable Tray; Extra Low Voltage & Data Services; medium duty galvanised steel; size 100mm x 25mm wide; complete	1	item			
G	Cable Tray; Extra Low Voltage & Data Services; heavy duty galvanised steel; size 150mm x 50mm wide; complete	1	item			
H	Cable Tray; Extra Low Voltage & Data Services; heavy duty galvanised steel; size 200mm x 50mm wide; complete	1	item			
J	Cable Tray; Extra Low Voltage & Data Services; heavy duty galvanised steel; size 300mm x 50mm wide; complete	1	item			
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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
A	Cable Tray; Submains & General Services; medium duty galvanised steel; size 100mm x 25mm wide; complete	1	item			
B	Cable Tray; Submains & General Services; heavy duty galvanised steel; size 150mm x 50mm wide; complete	1	item			
C	Cable Tray; Submains & General Services; heavy duty galvanised steel; size 200mm x 50mm wide; complete	1	item			
D	Cable Tray; Submains & General Services; heavy duty galvanised steel; size 300mm x 50mm wide; complete	1	item			
E	Cable Tray; PV cable; heavy duty galvanised steel; size 300mm x 50mm wide; c/w Bigfoot system on anti-vibration mounts; complete	1	item			
F	Cable Trunking; 1 compartment; galvanised steel; size 75mm wide x 75mm high; complete	1	item			
G	Cable Trunking; 1 compartment; galvanised steel; size 100mm wide x 100mm high; complete	1	item			
H	Cable Trunking; 1 compartment; galvanised steel; size 150mm wide x 150mm high; complete	1	item			
J	Cable Trunking; 2 compartment; galvanised steel; size 200mm wide x 100mm high; complete	1	item			
K	Cable Trunking; Fire Alarm; galvanised steel; size 50mm wide x 50mm high; complete	1	item			
L	Dado Trunking; 3 compartment, colour white; size 180mm x 57mm c/w DDA back plates, colour charcoal grey; include for all end caps, screening dividers, internal & external corners, cable retaining clips; complete	1	item			
M	Mini Trunking; Deaf loop installation; size 25mm x 16mm; complete	1	item			
N	Conduit; galvanised steel; size 25mm diameter; complete	1	item			
P	Conduit; galvanised steel; size 50mm diameter; complete	1	item			
Q	Conduit; flexible steel; size 25mm diameter; complete	1	item			
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
R	General Earthing & Bonding; complete	1	item			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
A	Testing and commissioning; complete	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
B	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
C	Working drawings; complete	1	item			
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
D	Co- ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
E	As built drawings; complete	1	item			
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
F	Identification plates, labels and the like; complete	1	item			
(62) POWER - GENERAL POWER SERVICES						
<u>System</u>						
General Services and small power installation, testing and commissioning; complete; The Electrical contractor shall supply and install the complete small power installation as detailed within this specification and shown on the Tender drawings; all in accordance with the Electrical General Specifications, Project Particular Specification Section 62 and Drawings 2860-E-03, 2860-E-04						
G	General Power Services Installation	1	item			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>Accessories associated with terminal equipment</u>						
Socket Outlet; supply and installation (including wiring); complete; Sockets: 13amp outlets; Finish: metallic powder paint finish plate; Features: 3-pin "child resistant shutter system"; double pole switching; outboard rockers c/w red on indication; dual earth terminals; all accessories shall be engraved to indicate the circuit reference number; c/w 35mm back boxes Body: heavy guage steel; finish: metallic powder paint; Mounting: surface fixed; include for all accessories and fixings; all in accordance with the Electrical Specifications Section (62)						
A	2-Gang Switched Socket Outlet; size 146mm x 86mm high	5	nr			
Socket Outlet; supply and installation (including wiring); complete; Sockets: 13amp outlets; Finish: Brushed chrome plate; Features: 3-pin "child resistant shutter system"; double pole switching; outboard rockers c/w red on indication; dual earth terminals; part M guidelines compliant; all accessories shall be engraved to indicate the circuit reference number; c/w back boxes Body: heavy guage steel; finish: metallic powder paint; include for all accessories and fixings; all in accordance with the Electrical Specifications Section (62)						
B	1-Gang Switched Socket Outlet; size 86mm x 86mm high	15	nr			
C	2-Gang Switched Socket Outlet; size 146mm x 86mm high	89	nr			
D	2-Gang Switched Socket Outlet; size 146mm x 86mm high; desk mounted	24	nr			
Socket Outlet; supply and installation (including wiring); complete; Sockets: 13amp outlets; Finish: White urea; Features: 3-pin "child resistant shutter system"; dual earth terminals; part M guidelines compliant; all accessories shall be engraved to indicate the circuit reference number; c/w back boxes Body: heavy guage steel; finish: metallic powder paint; include for all accessories and fixings; all in accordance with the Electrical Specifications Section (62)						
E	2-Gang Switched Socket Outlet; size 146mm x 86mm high (Dado trunking)	56	nr			
Industrial Socket; supply and installation (including wiring); complete; Industrial socket: 16amp 230v IP44 c/w with back boxes; Mounting: Surface fixed to blockwork; all in strict accordance with the Electrical Specification						
F	Industrial Socket	1	nr			
Fused Spur Outlet; supply and installation (including wiring); complete; Finish: metallic powder paint finish plate; c/w back boxes Body: heavy guage steel; finish: metallic powder paint; Mounting: surface mounting; include for all accessories and fixings; all in accordance with the Electrical Particular Specifications Section (62)						
G	Fused Spur Outlet; Switched 13Amp; size 86mm x 86mm high	5	nr			
H	Fused Spur Outlet; Unswitched 13Amp; size 86mm x 86mm high	5	nr			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>					
Fused Spur Outlet; supply and installation (including wiring); complete; Finish: Brushed Chrome; c/w back boxes Body: heavy guage steel; finish: metallic powder paint; Mounting: surface mounting; include for all accessories and fixings; all in accordance with the Electrical Particular Specifications Section (62)					
A	Fused Spur Outlet; Switched 13Amp; size 86mm x 86mm high	77	nr		
B	Fused Spur Outlet; Unswitched 13Amp; size 86mm x 86mm high	2	nr		
C	Fused Spur Outlet; Key switched 13Amp; size 86mm x 86mm high	4	nr		
Switch; supply and installation (including wiring); complete; Sockets: 13amp outlets; Finish: Brushed chrome plate; c/w back boxes Body: heavy guage steel; finish: metallic powder paint; include for all accessories and fixings; all in accordance with the Electrical Specifications Section (62)					
D	1-Gang Key switched; size 86mm x 86mm high	4	nr		
DP Isolation Switch; supply and installation (including wiring); complete; Finish: Brushed Chrome; c/w back boxes Body: heavy guage steel; finish: metallic powder paint; Mounting: surface mounting; include for all accessories and fixings; all in accordance with the Electrical Particular Specifications Section (62)					
E	DP Isolator; 20amp	6	nr		
Isolator Rotary Switch; supply and installation (including wiring); complete; Rotary switch, IP65 c/w back boxes; include for all accessories and fixings; all in accordance with the Electrical Particular Specifications Section (62)					
F	Isolator 230V; SPN 16amp	1	nr		
G	Isolator 230V; SPN 32amp	13	nr		
H	Isolator 230V; SPN for Heat Recovery Unit; Rating: TBC	13	nr		
Cooker Isolation Switch & Connection Unit; supply and installation (including wiring); complete; Finish: Brushed Chrome; c/w back boxes Body: heavy guage steel; finish: metallic powder paint; Mounting: surface mounting; include for all accessories and fixings; all in accordance with the Electrical Particular Specifications Section (62)					
J	Cooker Isolation Switch & Connection Unit; 45amp	12	nr		
Fire Fighter Isolation Switch; supply and installation (including wiring); complete; Finish: Brushed Chrome; c/w back boxes Body: heavy guage steel; finish: metallic powder paint; Mounting: surface mounting; include for all accessories and fixings; all in accordance with the Electrical Particular Specifications Section (62)					
K	Fire Fighter Isolation Switch	1	nr		

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
Emergency lock stop push button; supply and installation (including wiring); complete; Manufacturer: Craig & Derricott or equivalent; Mounting: surface mounting; include for all accessories and fixings; all in accordance with the Electrical Particular Specifications Section (62)						
A	Emergency lock stop push button	3	nr			
<u>Final Circuits (including all points terminations)</u>						
Final Circuits; installation, testing and commissioning; Complete; Final circuits shall be fed from the Sub-distribution boards; Cable: Single Core insulated non sheathed OHLS, plain copper conductor; Standards: as per Engineers Specification; Voltage Rating: 450/750V; BASEC: Certified; Installation: Sub-circuit wiring shall be drawn in concealed galvanised steel conduit and/or galvanised steel trunking; The size of circuit cables shall be as follows unless shown otherwise on the drawings: 16 amp radial circuits: 2.5mm ² /2.5mm ² CPC; 20 amp radial circuits: 4.0mm ² /4.0mm ² CPC; 32 amp radial circuits: not less than 10.0mm ² /10.0mm ² CPC; 40amp radial circuits: 10.0mm ² /10.0mm ² CPC; 63 amp radial circuits 16.0mm ² /16.0mm ² CPC; completely enclosed in galvanised conduit; all in accordance with the Electrical Particular Specification Section (62) and Drawing 2860-E-03, 2860-E-04						
B	Final Circuits - SDB 01		h4head4			
C	General Services Power Circuits; Single Phase; 20amp RCBO's	30	nr			
D	General Services Power Circuits; Single Phase; 20amp MCB's	9	nr			
E	General Services Power Circuits; Three Phase; 20amp MCB's	3	nr			
F	General Services Power Circuits; Three Phase; 32amp MCB's	3	nr			
G	Mechanical Power Circuits; Single Phase; 20amp RCBO's	6	nr			
H	Mechanical Power Circuits; Single Phase; 20amp MCB's	9	nr			
J	Mechanical Power Circuits; Three Phase; 20amp MCB's	3	nr			
K	Mechanical Power Circuits; Three Phase; 32amp MCB's	3	nr			
Final Circuits - SDB-HE-01						
L	General Services Power Circuits; Single Phase; 6amp MCB's	1	nr			
M	General Services Power Circuits; Single Phase; 20amp RCBO's	12	nr			
N	General Services Power Circuits; Single Phase; 20amp MCB's	6	nr			
P	General Services Power Circuits; Three Phase; 20amp MCB's	6	nr			
Q	General Services Power Circuits; Three Phase; 32amp MCB's	1	nr			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
A	General Earthing & Bonding; complete	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
B	Testing and commissioning; complete	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
C	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
D	Working drawings; complete	1	item			
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
E	Co- ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
F	As built drawings; complete	1	item			
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
G	Identification plates, labels and the like; complete	1	item			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
(62) POWER DISTRIBUTION SERVICES - PV SYSTEM						
<u>System</u>						
Photo-voltaic System installation, testing and commissioning; complete; The electrical contractor shall be responsible for the design, supply, installation, commissioning and demonstration of a solar power generating system suitable for installation on a roofs. The PV system shall be a building integrated and grid-connected system and operate in parallel with the grid network. The PV array is to be installed on the south facing school roof with minimal acceptable peak power rating of 6.5 kW using 300W panels. The Solar Photo-voltaic (PV) system shall include the following main components, PV Modules, Module Mounting System, provision for safe access, Cabling DC and AC, Connectors, String Combiners, Inverters (power optimisers), Switch-disconnectors (isolators) DC and AC, Electrical Protection and Monitoring System. The electrical contractor shall engage a Photo-voltaic (PV) Systems specialist but shall co-ordinate all elements of the installation in order to provide a complete system; all in strict accordance with the Electrical General Specifications, Project Particular Specification Section (68) and Drawings 2860-E-12						
A	Photo-voltaic System installation	1	item			
<u>Equipment</u>						
Solar PV Panels and mounting system; supply and installation (including wiring); complete; Module type: Monocrystalline panels; minimum efficiency 18%; minimum rating 300w; 25-year performance warranty, 10-year product warranty; south facing orientation; c/w cabling, connectors, junction boxes and string combiners; include for all accessories and fixings; all in strict accordance with the Electrical Engineers Specification Section (68) and Drawings 2860-E-12						
B	Solar PV Panels (Location: roof)	22	nr			
<u>Fittings</u>						
Photo-voltaic Inverter, supply and installation (including wiring); complete; include for all accessories and fixings; all in strict accordance with the Electrical Engineers Specification Section 68 and Drawings 2860-E-12						
C	Photo-voltaic Inverter	1	nr			
Shunt panel; supply and installation (including wiring); complete; include for all accessories and fixings; all in strict accordance with the Electrical Engineers Specification Section 68 and Drawings 2860-E-12						
D	Shunt panel	1	nr			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
LED Digital Monitor c/w mounting brackets, supply and installation (including wiring); complete; Size: 500mm x 400mm with large illuminated symbols capable of being viewed from at least 8 meters away; Mounting: wall mounted; include for all accessories and fixings; all in strict accordance with the Electrical Engineers Specification Section 68 and Drawings 2860-E-12						
A	LED Digital Monitor	1	nr			
<u>Accessories associated with terminal equipment</u>						
PV System Accessories; supply and installation (including wiring); complete; warranty of 10-years to be included in this contract; include for all accessories and fixings; all in strict accordance with the Electrical Engineers Specification Section 68 and Drawings 2860-E-12						
B	Photo-voltaic DC Isolator; shunt trip	1	nr			
C	Photo-voltaic Mains AC Isolator; with shunt trip	1	nr			
D	Generation Meter	1	nr			
E	PV Alarm Light	1	nr			
F	Control & communications gateway master	1	nr			
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
G	General Earthing and Bonding; complete	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
H	Testing and commissioning; complete	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
J	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
K	Working drawings; complete	1	item			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
Co-ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
A	Co-ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
B	As built drawings; complete	1	item			
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
C	Identification plates, labels and the like; complete	1	item			
(63) LIGHTING - GENERAL						
<u>System</u>						
Lighting installation, testing and commissioning; complete; The Contractor shall supply a complete general lighting installation as detailed on the drawings; The Contractor shall include within his tender for wiring, fitting and connection of all light fittings; The internal lighting circuits shall be wired with 2.5mm ² cables in galvanised trucking/conduit, circuited as shown on the drawings from relevant distribution boards; Circuits shall be controlled by switches, presence detectors, combined presence detectors and daylight sensors, photocells and/or time clocks as detailed on the drawings; switches shall be installed at suitable heights to comply with current building regulations; Luminaries: the contractor shall include in his price for supply, installation and removal of sample luminaries; the Contractor shall allow for a specialist EX-OR approved Commissioning firm/ Specialist Installer to program and commission all lighting controls; the Contractor shall allow for 3nr. visits to demonstrate and fine tune the lighting controls to the engineers/ clients requirements; the commissioning firm shall visit the school after it is occupied and in used for a minimum of 12 months to do re-checks; all in accordance with the Electrical General Specifications, Project Particular Specification Section 63 and Drawings 2315-E-01 to 2315-E-05						
D	General Lighting	1	item			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
External Lighting installation, testing and commissioning; complete; The Contractor shall include for the supply of the complete external lighting installation as described in the Electrical Specification and as indicated on the tender drawings and equipment schedule; The school external amenity lighting comprises lighting of the car park, school footpaths/walkways and building facade lighting. All external/amenity lighting shall be wired from a site lighting distribution board located in the new main switch room. The time clocks shall be a 24 hour, 7 day, day omit time clock located within the distribution board. The photoelectric cell shall be mounted 3000mm AFFL in a suitable location. HOA Manual / Override external lighting switchbacks shall be provided. The switchbacks shall incorporate a master override "lights on" switch to override the automatic control; all in accordance with the Electrical General Specifications, Project Particular Specification Section 63 and Drawings 2315-E-01 to 2315-E-05						
A	External Lighting	1	item			
Emergency lighting installation, testing and commissioning; complete; The Contractor shall include for the supply, installation, wiring, testing and commissioning of an emergency lighting installation as described in the Electrical Specification and as indicated on the tender drawings and equipment schedule; The emergency lighting installation shall comply with IS3217:2013; The system has been designed for 3 hour operation in the event of an emergency, i.e. all the emergency luminaries must be rated to operate for 3 hours when the normal supply has failed; The emergency lighting installation comprises of dedicated emergency fittings, maintained exit fittings and emergency inverter packs providing emergency lighting to normally mains operated fittings; Central test units shall be installed locally at each distribution board for means of testing local lighting circuits; The contractor shall include for the provision of an A3 sized chart at each central test location; all in accordance with the Electrical General Specifications, Project Particular Specification Section 63 and Drawings 2315-E-01 to 2315-E-05						
B	Emergency Lighting	1	item			
<u>Fittings</u> Luminaries & lamps; supply and installation (including wiring & final connections); complete; Luminaries shall be complete with lamps and support system, threaded rod supports or an approved catenary suspension system shall be used; Final connections T-bar suspended ceilings: Standard Luminaries: plug-in pattern Kilk type ceiling rose with 1.25m LOSH heat resistant cable; Dimmable Luminaries: plug-in pattern Kilk type system 7 pole surface connectors with 1.25m LOSH heat resistant cable; Unless otherwise indicated luminaire shall be hard wired; Wall mounted luminaries to stairwells to be hard wired utilising conduit and concealed base boxes, include for all accessories; all in strict accordance with the Electrical Particular Specification Section 63 and Lighting Schedule						
C	Luminaire Ref: A; IP66 dust and moisture resistant 4490LM LED luminaire; Electronic, fixed output control gear; Mounting: surface fixed to ceiling	2	nr			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
A	Luminaire Ref: B1; Circular 3480LM LED luminaire; IP40; Housing: spun aluminium finished full polyester non-yellowing white; Diffuser: high efficiency satin sparkle or opal fire-retardant TP(a) polycarbonate; Mounting: surface fixed to ceiling/wall	10	nr			
B	Luminaire Ref: B1/E; Circular 3480LM LED luminaire; IP40; Housing: spun aluminium finished full polyester non-yellowing white; Diffuser: high efficiency satin sparkle or opal fire-retardant TP(a) polycarbonate diffuser; c/w 3hr emergency back-up power supply; Mounting: surface fixed to ceiling/wall	15	nr			
C	Luminaire Ref: C1; Modular 3650LM LED luminaire, IP40; Housing: Aluminium; Colour: white; CRI 80+; 50,000hr lifetime; Dimensions: 600x600; Mounting: recessed into ceiling grid	133	nr			
D	Luminaire Ref: C2; Modular 4320LM LED luminaire, IP54; Housing: Aluminium; Colour: white; CRI 80+; 50,000hr lifetime; Dimensions: 600x600; Mounting: recessed into ceiling grid	51	nr			
E	Luminaire Ref: C3; Modular LED luminaire, IP40; Housing: Aluminium; Colour: white; 4000K; CRI 80+; 50,000hr lifetime; Dimensions: 1200x600; Mounting: recessed into ceiling grid	28	nr			
F	Luminaire Ref: D; Linerar 3376LM LED luminaire, IP44; Diffuser: matt micro-prismatic PMMA; UGR<=19; Push-in terminal; 3x2x2.5mm2; 3000K; 50,000hr lifetime; Dimensions: 1200x600mm; Mounting: surface fixed to ceiling	28	nr			
G	Luminaire Ref: E1; Self-contained LED emergency luminaire; 1 x 3W LED; IP20; non-maintained operation duration 3hr; integral inverter and battery pack Mounting: recessed into ceiling	25	nr			
H	Luminaire Ref: E2; Self-contained LED emergency luminaire; 1 x 3W LED; IP40; non-maintained operation duration 3hr; Mounting: recessed into ceiling	19	nr			
J	Luminaire Ref: E3; Self-contained LED emergency luminaire; 1 x 3W LED; IP40; non-maintained operation duration 3hr; High output; Mounting: recessed into ceiling	8	nr			
K	Luminaire Ref: E4; Bulkhead LED emergency luminaire; Housing: polycarbonate base and covers with inbuilt UV filter protection; IP65; Diffuser: High quality for maximum light output; 6000k; maintained c/w Ni-Mh battery pack operation duration 3hr; High output; Mounting: surface fixed	8	nr			
L	Luminaire Ref: E5; LED Emergency Exit Sign Luminaire; IP65; Viewing distance: 25 meters; LED: white, long life high power; maintained c/w Ni-Mh battery pack to battery pack operation duration of 3 hours; Dimensions: 276 x 143 x 44mm; Mounting: surface fixed to wall	18	nr			
M	Luminaire Ref: E6; LED Emergency Exit Sign Luminaire; IP65; Viewing distance: 25 meters; LED: white, long life high power; maintained c/w Ni-Mh battery pack to battery pack operation duration of 3 hours; Dimensions: 276 x 143 x 44mm; Mounting: surface fixed to ceiling	3	nr			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
A	Luminaire Ref: E7; LED Emergency Exit Sign Luminaire; IP65; Viewing distance: 25 meters; LED: white, long life high power; maintained c/w Ni-Mh battery pack to battery pack operation duration of 3 hours; Dimensions: 276 x 143 x 44mm; Mounting: surface fixed to wall	1	nr			
B	Luminaire Ref: EX1; Blukhead 4338LM LED high performance luminaire; IP66; Housing: die-cast LM2 aluminium full polyester powder coated graphite; Cover: High impact resistant UV stabilised polycarbonate; LED: 100,000hr life, 4000K or 5700k, CRI 70+ and LED protect LED PCB protection; Mounting: surface fixed to wall	16	nr			
C	Luminaire Ref: EX2; Compart lightweight floodlight 14298LM LED luminaire; IP66, IK08; Housing: die-cast aluminium light grey 150 sanded textured; Enclosure: 4mm thick toughened glass; LED: 72 LED's at 500mA, 4000K; Mounting: surface fixed to wall Lighting Control detectors; supply and installation (including wiring & final connections); complete; Manufacturer: Beg or equivalent; Detectors shall be hard wired utilising conduit and concealed BESA boxes; allow for securely fixing all fittings as per the manufacturers requirements, include for all accessories; all in strict accordance with the Electrical Particular Specification Section 63	11	nr			
D	Sensor Ref: S1; Motion detector with 2 channel control; ceiling mounted	8	nr			
E	Sensor Ref: S2; Motion detector with 1 channel control; ceiling mounted	6	nr			
F	Sensor Ref: S4; Motion detector/High sensitivity dali; ceiling mounted	17	nr			
G	Sensor Ref: S5; Occupancy detector/ daylight dependent lighting control Dali; ceiling mounted Lighting Control; supply and installation (including wiring & final connections); complete; include for all accessories; all in strict accordance with the Electrical Particular Specification Section 63	16	nr			
H	Time Clock	1	nr			
J	Photocell	1	nr			
<u>Accessories associated with terminal equipment</u> Light Switch & Grid Plate; supply and installation (including wiring); complete; Finish: metallic powder paint finish plate; c/w back boxes Body: heavy gauge steel; finish: metallic powder paint; Mounting: surface fixed; include for all accessories and fixings; all in accordance with the Electrical Specifications Section 63						
K	Light Switch; 1 way, 1 gang single pole switch	2	nr			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
Light Switch & Grid Plate; supply and installation (including wiring); complete; Finish: Brushed chrome plate; c/w back boxes Body: heavy gauge steel; finish: metallic powder paint; Mounting: surface fixed; include for all accessories and fixings; all in accordance with the Electrical Specifications Section 63						
A	Light Switch; 1 way, 1 gang single pole switch	3	nr			
B	Light Switch; 1 way, 1 gang; Momentary Push Switch (Ref:M)	12	nr			
C	Light Switch; 2 way, 1 gang single pole switch	5	nr			
D	Light Switch; 2 way, 1 gang; Momentary Push Switch (Ref:M)	8	nr			
E	HOA Key Switch; 1 way; 1 gang	4	nr			
<u>Final Circuits (including all points terminations)</u>						
Final Circuits; installation, testing and commissioning; Complete; Final circuits shall be fed from the main and sub-distribution boards; Circuits shall be wired with insulated LSZH singles cable; standards to Engineers Specification; in galvanised trunking /conduit. Cable sizes: 2.5mm2 controlled by a 10amp MCB/RCBO; all in strict accordance with the Electrical Particular Specification Section 63						
Final Circuits - SDB-01						
F	Building Lighting Circuits; Single Phase; 10amp RCBO's	9	nr			
G	General Lighting Circuits; Single Phase; 6amp MCB's	1	nr			
H	General Lighting Circuits; Single Phase; 10amp MCB's	18	nr			
J	General Lighting Circuits; Single Phase; 10amp RCBO's	9	nr			
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
K	General Earthing & Bonding; complete	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
L	Testing and commissioning; complete	1	item			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
A	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
B	Working drawings; complete	1	item			
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
C	Co- ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
D	As built drawings; complete	1	item			
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
E	Identification plates, labels and the like; complete	1	item			
(64) COMMUNICATIONS - DATA/IT INSTALLATIONS						
<u>System</u>						
Structured Cabling installation, testing and commissioning; complete; The electrical contractor shall allow in his tender for a specialist firm to design, supply, install and commission a CAT 6A Structured Cabling Solution or equivalent; all in strict accordance with the Electrical General Specifications, Project Particular Specification Section (64) and Drawings 2860-E-03 to 2860-E-04, 2860-E-16						
F	Data / IT Installations	1	item			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>					
Telephony System installation, testing and commissioning; complete; The electrical contractor shall provide and install a telephone system throughout the building as detailed on the drawings and as specified; The electrical contractor shall be responsible for installing telephone outlets and CAT 6A cable to the following control panels: MCC Control panel, Fire Alarm Control Panel, Intruder Alarm Control Panel; The electrical contractor shall employ an accredited contractor to terminate and test the complete installation to Eir's requirements; supply, terminate and test phone service cables, Krone Frame(s) / Boxes (c/w disconnection strips) and terminate outlets as necessary; accredited installer to size Krone Frame(s) / Boxes and punch down all multi-core pairs; The electrical contractor shall allow for providing/ installing Class1 protection on the incoming telephone lines; all in strict accordance with the General Specifications, Project Particular Specification Section (64) and Drawings 2860-E-03 to 2860-E-04, 2860-E-16					
A	Telephone System <u>Equipment</u> Communications Cabinet; supply and installation (including wiring) complete; 42U; size 800mm wide x 800mm depth x 2100mm height; c/w with vertical patch panel management system along both sides of cabinet; lockable glass framed front door; quick release door and side panels; 1u (1 to 42) height marking on the profiles; adjustable front and rear 19" profiles; 10 way surge protection PDU; 4 way rack mount fan unit, Ethernet switches; 24 port patch panels: CAT 6A patch panels, voice patch panels; Patch cords space for server equipment; include for all accessories and wiring; all in strict accordance with the Electrical Specification and Drawings 2860-E-16	1	item		
B	Communications Cabinet; complete (Ref: CAB01, Location: DCC Room) Krone Frame; supply and installation; complete (including wiring); c/w disconnection strips, multi-core links to phone patches; terminating and testing; all in strict accordance with the Electrical Specification Section (64)	1	nr		
C	Krone Frame <u>Accessories associated with terminal equipment</u> Socket Outlet; supply and installation (including wiring); complete; Outlets: 8pin modular (RJ45) jacks; Finish: White urea c/w back boxes; Part M compliant; Mounting: dado trunking mounted; all accessories shall be engraved to indicate the circuit reference number; all in accordance with the Electrical Engineers Specifications (64)	1	nr		
D	Single Data RJ45 Outlet	30	nr		
E	Twin Data RJ45 Outlet	11	nr		

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
Socket Outlet; supply and installation (including wiring); complete; Outlets: 8pin modular (RJ45) jacks; Finish: Brushed chrome plate c/w deep heavy gauge steel back boxes; Mounting: flush mounting; all accessories shall be engraved to indicate the circuit reference number; all in accordance with the Electrical Engineers Specifications (64)						
A	Single Data RJ45 Outlet	12	nr			
B	Twin Data RJ45 Outlet	5	nr			
<u>Mains Sub-mains Cables</u>						
Fibre Cable; installation, testing and commissioning; complete; 8 core OM3 Fibre cable; distributed within galvanised trunking /conduit; 8 core OM3 Fibre external grade cable; distributed within underground ducts; terminating at both ends; include for all fittings and accessories; all in strict accordance with the Electrical Engineers Specification and Drawing 2860-E-16						
C	Cabling from Comms cabinets (Ref: CAB01) to Existing Comms Cabinet	1	item			
CAT 5e UTP Cable; installation, testing and commissioning; complete; distributed within galvanised trunking /conduit; terminating at both ends; include for all fittings and accessories; all in strict accordance with the Electrical Engineers Specification and Drawing 2860-E-16						
D	Cabling from Voice connection box to Intruder Alarm Panel	1	item			
E	Cabling from Voice connection box to Fire Alarm Panel	1	item			
F	Cabling from Voice connection box to Lift Panel	1	item			
20 Pair CW1308 Multi- Pair Telecom Cable; installation, testing and commissioning; complete; distributed within galvanised trunking /conduit; terminating at both ends; include for all fittings and accessories; all in strict accordance with the Electrical Engineers Specification and Drawing 2860-E-16						
G	Cabling from Eircom Incommer to Voice connection box	1	nr			
50 Pair CW1308 Multi- Pair Telecom Cable; installation, testing and commissioning; complete; distributed within galvanised trunking /conduit; terminating at both ends; include for all fittings and accessories; all in strict accordance with the Electrical Engineers Specification and Drawing 2860-E-16						
H	Cabling from Comms cabinet (Ref: CAB01) to Voice connection box	1	nr			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>Final Circuits (including points and terminations)</u>						
CAT 6a UTP Cable; installation, testing and commissioning; complete; 1m of CAT 6A shall be left at outlet end, 5m of CAT 6a shall be left at comms cabinet;/ distributed within galvanised trunking /conduit; terminating at both ends; include for all fittings and accessories; all in strict accordance with the Electrical Engineers Specification						
A	Cable to all data points	58	nr			
B	Cable to all CCTV points	1	nr			
C	Cabling to Krone Patch Frame	1	nr			
D	Cabling to MCC Panel	1	nr			
CW1308 Multi- Pair Telecom Cable; installation, testing and commissioning; complete; distributed within galvanised trunking /conduit; terminating at both ends; include for all fittings and accessories; all in strict accordance with the Electrical Engineers Specification						
E	Cable to all data points	58	nr			
F	Cabling to Krone Patch Frame	1	nr			
G	Cabling to MCC panel	1	nr			
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
H	General Earthing & Bonding; complete	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
J	Testing and commissioning; complete	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
K	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
L	Working drawings; complete	1	item			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
A	Co- ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
B	As built drawings; complete	1	item			
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
C	Identification plates, labels and the like; complete	1	item			
(64) COMMUNICATIONS - PUBLIC ADDRESS						
<u>System</u>						
D	Public Address System	1	item			
<u>Equipment</u>						
Public Address Amplifier & Controller; supply and installation (including wiring); Amplifier: 3nr 4x240w amp Crown 4240 or equivalent; Controller: 8 zone controller Cloud Z8 or equivalent; Paging Mic: Cloud PM8 or equivalent; complete; include for all and accessories; all in strict accordance with the Electrical Specification Section (64)						
E	Public Address Amplifier (Ref: AV; Location: GF Electrical riser)	1	nr			
Automatic class change over; supply and installation (including wiring); complete; Class change over facility c/w a dual channel seven day time clock; all in strict accordance with the Electrical Engineers Specification Section 64						
F	Automatic Class Change Over Panel (Ref: Class; Location: GF Electrical riser)	1	nr			
<u>Fittings</u>						
Fittings; supply and installation (including wiring); complete; include for mounting brackets and accessories; all in strict accordance with the Electrical Engineers Specification						
G	PA Speakers; 6watt; vandal resistant; wall mounted	7	nr			
H	PA Speakers; 6watt; vandal resistant c/w Talk back facility wall mounted	16	nr			
J	PA Speaker IP65 (External)	2	nr			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
A	Krone push down junction box	1	nr			
	Accessories; supply and installation (including wiring); complete; include for mounting brackets and accessories; all in strict accordance with the Electrical Engineers Specification					
B	Mic Outlet Point	2	nr			
C	Speaker Outlet Point	2	nr			
D	Microphone	1	nr			
	<u>General Earthing and Bonding</u>					
	General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification					
E	General Earthing & Bonding; complete	1	item			
	<u>General</u>					
	Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents					
F	Testing and commissioning; complete	1	item			
	Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents					
G	Operating and maintenance manuals; complete	1	item			
	Working drawings; all in accordance with the Electrical Engineers Specification Documents					
H	Working drawings; complete	1	item			
	Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents					
J	Co- ordination drawings;complete	1	item			
	As built drawings; all in accordance with the Electrical Engineers Specification Documents					
K	As built drawings; complete	1	item			
	Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents					
L	Identification plates, labels and the like; complete	1	item			
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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
(64) COMMUNICATIONS - DISABLE TOILET ALARM						
<u>System</u>						
Disabled Toilet Emergency Call System installation, testing and commissioning, complete; The contractor shall employ an accredited installer to supply, install, test and commission a disabled toilet alarm system; The systems shall consist of a pull cord unit with reassurance lamp, illuminated reset unit, tone generator with lamp; Main panel c/w power supply and battery backup; Stainless steel accessories shall be used throughout; Wiring: to be confirmed by accredited installer generally 2.5mm ² 6 core LOSH alarm grade cable or Cat 6 type; all in accordance with the Electrical General Specifications, Project Particular Specification Section (64) and Drawings 2860-E-03, 2860-E-04						
A	Disable Toilet Alarm	1	item			
<u>Equipment</u>						
Alarm Controller; supply and installation (including wiring); complete; Manufacturer: C-Tec (800 series) or equivalent; Mounting: Surface fixed to blockwork; include for all and accessories; all in strict accordance with the Electrical Specification Section 64						
B	Alarm Controller (Location: Entrance Lobby, Ground Floor; Ref: DT)	1	nr			
<u>Fittings</u>						
Disable Toilet Alarm Fittings; supply and installation (including wiring); complete; Manufacturer: C-Tec (800 series) or equivalent; include for all and accessories; all in strict accordance with the Electrical Specification Section 64						
C	Alarm Indicator	2	nr			
D	Pull cord (Ref: PC)	2	nr			
E	Reset Unit (Ref: RU)	2	nr			
F	Water resistant reset unit c/w magnetic reset key (AP)	2	nr			
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
G	General Earthing & Bonding; complete	1	item			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
(65) SECURITY SERVICES - INTRUDER ALARM SYSTEM						
<u>System</u>						
Intruder Alarm System installation, testing and commissioning; complete; The electrical contractor shall employ a NSIA Approved Contractor to design, supply, install and commission a GRADE 3 Intruder Alarm Detection System incorporating alarm confirmation technology in accordance with IS EN 50131; The system shall operate at 12v dc, and shall be of the multiplex type. The system shall consist of a number of movement detectors, door contacts, a control panel, exterior audible warning device and an electronic transmitter linked via the public telephone network to a control centre; Wiring shall generally be carried out using 8 core 0.7mm2 cables from interfaces to detectors and door contacts and data cable between interfaces enclosed in galvanised conduit/trunking; The Sub-Contractor shall maintain the installation and pay all costs for the first 12 months of operation; regular servicing and maintaining of the installation shall be carried out at 6 month intervals during the maintenance period; The complete intruder alarm system shall be tested and commissioned in accordance with I.S. EN 50131. A NSIA typed certificate issued to this effect; all in strict accordance with the Electrical General Specifications, Project Particular Specification Section (65) and Drawings 2860-E-07, 2860-E-08						
A	Intruder Alarm System	1	item			
<u>Equipment</u>						
Intruder Alarm Control Panel; supply and installation (including wiring); complete; all in strict accordance with the Electrical Engineers Specification 65						
B	Intruder Alarm Control Panel (Ref: IAP; Location: GF Electrical riser)	1	nr			
<u>Fittings</u>						
Intruder Alarm Fittings; supply and installation (including wiring); complete; all in strict accordance with the Electrical Engineers Specification 65						
C	Intruder Alarm Key Pad	1	nr			
D	External Alarm Unit; c/w battery stand by, flashing strobe, weather proof wire cage	1	nr			
E	Internal Sounder	1	nr			
F	External Sounder	1	nr			
G	Dual Tech Detector	20	nr			
H	Double Push Panic Button	1	nr			
J	Digi dailler	1	nr			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
A	General Earthing & Bonding; complete	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
B	Testing and commissioning; complete	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
C	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
D	Working drawings; complete	1	item			
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
E	Co- ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
F	As built drawings; complete	1	item			
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
G	Identification plates, labels and the like; complete	1	item			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
(65) PROTECTIVE SERVICES - CO2 MONITORING SYSTEM						
<u>System</u>						
Co2 Monitoring System installation, testing and commissioning; complete; All teaching spaces shall be fitted with its own standalone wall mounted Carbon Dioxide sensor / alarm. Each unit shall have an LED display which displays the actual concentration of carbon dioxide in ppm and shall have an operating range of 0 to 2,000ppm CO2. The display colour will be capable of changing from Green to Amber and Red to indicate CO2 levels, thus providing easy visual indication as well as specific readings; It should be either self-powering from the ambient light in the classroom using an integrated PV panel or be connected to the mains distribution system; A laminated A4 size label (screwed at the four corners to the wall) incorporating clear and simple advice and instructions on how the teaching space can be operated efficiently with regard to heating, lighting and ventilation during school hours shall be located in a suitable location near the door of each teaching space. It is paramount that all school staff are provided with full user training and demonstration of these systems as part of the handover requirements; The hand over documents must include the following: Certificate of demonstration to Contractor, Certificate of demonstration to Employer's Representative, Certificate of demonstration to Client, Operation manuals, Commission Certificate; all in strict accordance with the Electrical General Specifications, Project Particular Specification Section (65) 2860-E-05, 2860-E-06						
A	CO2 Monitoring System	1	item			
<u>Equipment</u>						
CO2 Detection Panel; supply and installation (including wiring); complete; Self-contained unit c/w CO2 sensor enclosure and a large LED screen; Mounting: surface mounted to fairfaced blockwork; include for all and accessories; all in strict accordance with the Electrical Engineers Specification Section 65						
B	CO2 Detection Panel (Location: Classrooms; Ref: CO2)	14	nr			
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
C	General Earthing & Bonding; complete	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
D	Testing and commissioning; complete	1	item			
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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
A	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
B	Working drawings; complete	1	item			
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
C	Co- ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
D	As built drawings; complete	1	item			
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
E	Identification plates, labels and the like; complete	1	item			
<u>(65) SECURITY SERVICES - ACCESS CONTROL SYSTEM</u>						
<u>System</u>						
Door Entry & Access Control System installation; testing and commissioning; complete; The contractor shall provide and install a complete Access Control installation as indicated on the drawings and specified. The electrical contractor shall employ the NSIA Approved Contractor completing the Intruder Alarm & Fire Alarm to design, supply, install and commission the access control system; all in strict accordance with the Electrical General Specifications, Project Particular Specification Section 65 and Drawing 2860-E-07						
F	Access Control & Intercom System	1	item			
<u>Equipment</u>						
Access Control Unit; supplied and installation (including wiring); complete; control unit c/w power supply unit, local 13amp switch connection unit battery back up; include for all and accessories; all in strict accordance with the Electrical Engineers & Architects Specification						
G	Access Control Unit complete (Ref: ACU; Location: Entrance Lobby)	1	nr			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>Fittings</u>						
Access Control Fittings; installation including wiring and final connections; complete; include for all and accessories; all in strict accordance with the Electrical Engineers & Architects Specification						
A	Keypad/Card Reader Door Access Unit; External	1	nr			
B	Keypad/Card Reader Door Access Unit; Internal	1	nr			
C	Green break glass unit	1	nr			
D	Disable push button	1	nr			
E	Door release switch (EG)	1	nr			
F	Electronic door lock (Ref: DL)	1	nr			
G	Proximity Reader (Ref: FR)	3	nr			
H	Flush Stainless Steel Vandal Resistant Audio Door panel c/w Camera, Speaker and FOB Reader (Ref: IC)	1	nr			
J	Door Bell Push	1	nr			
K	Personal Fobs	50	nr			
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
L	General Earthing & Bonding; Complete	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
M	Testing and commissioning; complete	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
N	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
P	Working drawings; complete	1	item			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
A	Co- ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
B	As built drawings; complete	1	item			
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
C	Identification plates, labels and the like; complete	1	item			
(65) SECURITY SERVICES - CCTV SYSTEM						
<u>System</u>						
Closed Circuit Television System installation, testing and commissioning; complete; The electrical contractor shall employ a NSIA Approved Contractor to supply and install a complete new IP CCTV System within the new school extension linked back to the existing monitors located in the Principals Office; CAT 6A cabling shall be supplied to all CCTV camera locations; all in strict accordance with the Electrical General Specifications, Project Particular Specification Section (65) and Drawings 2860-E-07, 2860-E-08						
D	CCTV System	1	item			
<u>Fittings</u>						
CCTV Fittings; supply and installation supply and installation (including wiring); including all necessary accessories;all in strict accordance with the Electrical Specifications Section (65)						
E	Internal IP Fixed Dome Cameras	1	nr			
<u>Accessories Associated with Terminal Equipment</u>						
External Surveillance Signage; supply and installation; complete; Each sign shall carry a symbol of a CCTV camera and contain the following wording 'This system is controlled and operated by 'Carrick-on Shannon Community School'; Sign shall be in colour; include for all and accessories; all in strict accordance with the Electrical Specification						
F	External Surveillance Signage; Size: 297mm x 420mm	10	nr			
G	Internal Surveillance Signage; Size: 210mm x 297mm	10	nr			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
A	General Earthing & Bonding; complete	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
B	Testing and commissioning; complete	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
C	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
D	Working drawings; complete	1	item			
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
E	Co- ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
F	As built drawings; complete	1	item			
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
G	Identification plates, labels and the like; complete	1	item			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
(65) PROTECTIVE SERVICES - FIRE ALARM						
<u>System</u>						
Fire Alarm installation; testing and commissioning; complete; The Contractor shall supply, install, test and commission an analogue, fully addressable, automatic Fire Detection & Alarm System; with a minimum of L3 coverage to IS3218:2013 +A1:2019 and as detailed on the drawings; the system and all equipment shall be open protocol; The sensors, sounders and manual call points shall be in the same loop circuit; All devices, sounders and break glass units shall be wired in 1.5mm² fire rated cable to PH120 classification; The fire alarm panel shall be fed via a 2.5 mm² fire rated cable to PH120 classification in conduit from a SP/N lockable isolator in the mains switchboard; The extension buildings shall be provided with Fire Alarm Panel which will be networked back to main school system to provide full coverage and indication from the main panel. The fire alarm system shall interface with the following: MCC, Gas Detection panels, Public address, Lifts, Disable WC alarm, Hold-Open Devices, Automatic assisted doors, Accessed controlled doors, Security Control Panels, Automatic opening vents, Fire Curtains, Ventilation Damper Controls, roller shutters; The entire system shall be tested and commissioned in accordance with IS3218:2013 on completion of the installation, documentation and as-installed drawings, including sound levels shall be included in the O&P manuals; an audibility test shall be carried out throughout the building; The contractor shall include for Fire Alarm Zone/Loop Chart. The contractor shall include for monitoring the installation and pay all costs for the first 12 months of operation; all in strict accordance with the Electrical General Specifications, Project Particular Specification Section (65) and Drawings 2860-E-05, 2860-E-06, 2860-E-18						
A	Fire Alarm System	1	item			
<u>Equipment</u>						
Fire Alarm Repeater Panel; supply and installation (including wiring); complete; Panel Features: Loop control cards, Communal Sounder/Detector circuits, 10 No Auxiliary output relays, Liquid crystal display (location of device), LED display (device number and loop number), Integral hard copy printer, Support and drive facilities for the repeat panel, Panel logic programming on site, Alarm, pre-alarm and fault state for all devices, Bi-directional loop polling, Silence Alarm, Reset Alarm, Buzzer mute, Paper feed, Keyboard password protect, Internal or Associated power supply and stand-by batteries; Scan-com communicator c/w zone charts; all in strict accordance with the Electrical Particular Specification Section (65)						
B	Fire Alarm Panel; complete (Location: Entrance Lobby; Ref: FARP)	1	nr			
Fire Curtain Control Panel; supply and installation (including wiring); include for all mounting grounds and accessories; all in strict accordance with the Electrical Specification						
C	Fire Curtain Control Panel; complete (Location: FF Corridor)	1	nr			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>Fittings</u>						
Fire Alarm Fittings; supply and installation (including wiring); including all necessary accessories; all in strict accordance with the Electrical Specification Section (65)						
A	Smoke Detector (Ref: S)	22	nr			
B	Smoke Detector (Ref: S AOV)	1	nr			
C	Smoke Detector & Sounder Base (Ref: S)	33	nr			
D	Smoke Detector, Sounder & Beacon Base (Ref: S)	10	nr			
E	Heat Detector, Sounder Base (Ref: H)	1	nr			
F	Heat Detector, Sounder & Beacon Base (Ref: H)	1	nr			
G	Multi Sensor, Sounder Beacon (Ref: M)	1	nr			
<u>Accessories Associated with Terminal Equipment</u>						
Fire Alarm Accessories; supply and installation (including wiring); including all necessary accessories; all in strict accordance with the Electrical Specification Section (65)						
H	Flashing Beacon	1	nr			
J	Interface Unit (Ref: IO)	11	nr			
K	Break Glass Unit	9	nr			
L	Break Glass Unit (AOV)	1	nr			
M	Monitored Power Supply Unit for Double Door	5	nr			
N	Electro-magnetic Door Hold Open Device	10	nr			
P	Fireman switch; 20amp double pole	1	nr			
Architectural fittings; wiring installation and final connections ONLY; complete; include for all and accessories; all in strict accordance with the Electrical Engineers & Architects Specification						
Q	Fire Smoke Curtain	1	nr			
R	AOV	1	nr			
S	AOV Break glass	1	nr			
T	AOV Sensor	1	nr			
U	AOV Control panel	1	nr			
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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
A	General Earthing & Bonding; complete	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
B	Testing and commissioning; complete	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
C	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
D	Working drawings; complete	1	item			
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
E	Co- ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
F	As built drawings; complete	1	item			
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
G	Identification plates, labels and the like; complete	1	item			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
(65) SECURITY & PROTECTION - AIR SAMPLING SMOKE DETECTION SYSTEM						
<u>System</u>						
Air Sampling Smoke Detection System; The contractor shall supply and install an Air Sampling Aspirating Smoke Detection (ASSD) system in the proposed new lift shaft. The installation equipment inclusive of pipe and pipe fittings and accessories shall conform to EN-54-20, IS3218:2013+A1 2019 & BS5839-1:2017; all in strict accordance with the Electrical General Specifications, Project Particular Specification and Drawings 2860-E-06						
A	Air Sampling Smoke Detection System	1	item			
<u>Equipment</u>						
Air Sampling Smoke Detection Control Panel; supply and installation (including wiring); complete; include for all and accessories; all in strict accordance with the Electrical Specification Section (65)						
B	Air Sampling Smoke Detection Control Panel (Ref: ASD; Location: Lift shaft)	1	nr			
<u>Accessories associated with Terminal Equipment</u>						
C	The following item is not measured in accordance with ARM4 supplement 2.		note			
D	Air sampling tube 25mm diameter to lift; c/w sample points, unions, tees, valves, couplings, bends, end caps and support system; include for all accessories; all in accordance with the Electrical Engineers Specification	25	m			
E	End of items not measured in accordance with ARM4 supplement 2		note			
<u>General Earthing and Bonding</u>						
General Earthing and Bonding; Design parameters as defined within I.S 10101: 2020 regulations; all in strict accordance with the Electrical Engineers Specification						
F	General Earthing and Bonding; complete	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with Engineers Specification						
G	Testing and commissioning	1	item			
Operating and maintenance manuals; all in accordance with Engineers Specification						
H	Operating and maintenance manuals	1	item			
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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
Working drawings; all in accordance with Engineers Specification						
A	Working drawings	1	item			
Co-ordination drawings; all in accordance with Engineers Specification						
B	Co-ordination drawings	1	item			
As built drawings; all in accordance with Engineers Specification						
C	As built drawings	1	item			
Identification plates, labels and the like; all in accordance with Engineers Specification						
D	Identification plates, labels and the like	1	item			
(65) PROTECTIVE SERVICES - DISABLE REFUSE						
<u>System</u>						
Disable Refuse installation, testing and commissioning; complete; The electrical contractor will supply, install, test and commission a disabled refuge system. The Wheelchair Refuge Intercom shall be supplied and commissioned by the fire alarm specialist installer; The system shall provide secure two-way Duplex voice communication between each of the refuge points at each floor level and the master station located as indicated on the drawings. The system is to comply with the requirements of BS 5839 Part 9: 2003; Interconnecting wiring is to be carried out using enhanced grade fire rated cable (PH120) 4c 1.5mm² concealed within the fabric of the building and in concealed steel conduit to wall outlets and in conduit/ wire cable tray within service voids; Power supply units are to be capable of maintaining the system during power failures for a period not less than 30 minutes. The disable refuse panel located in the extension buildings will be networked back to main school system to provide full coverage; Wiring to the power unit shall be carried out 2.5mm² (PH120) enhanced grade white fire rated cables in conduit terminating in a 20A DP key switch located adjacent the power unit; Upon completion of the installation and immediately prior to Hand-Over of the Building, the complete installation shall be commissioned and tested in the presence of the Engineer; The Specialist Installer shall on two occasions in and around the 'Handover' date instruct the End-Users on the operation of the system; The Tenderer shall include in his tender for a one year maintenance contract from the Manufacturers; all in strict accordance with the Electrical General Specifications, Project Particular Specification Section 65, Phasing Works and Drawing 2860-E-05, 2860-E-06, 2860-E-18						
E	Disable Refuse System	1	item			

					€	c
<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>Equipment</u>						
Disabled Refuge Control Panel; supply and installation (including wiring); complete; include for all and accessories; all in strict accordance with the Electrical Specification Section (65)						
A	Disable Refuse Main Control Panel (Location: Entrance Lobby, Ref: DRCP)	1	nr			
<u>Fittings</u>						
Disabled Refuge Remote Outstation; supply and installation (including wiring); complete; secure two-way voice communication; units to be flush mounting; cover plates finished in stainless steel; Outstation mounting height 1200mm above FFL to the top of the unit; include for all mounting grounds and accessories; all in strict accordance with the Electrical Specification Section (65)						
B	Disable Refuse Call Point	2	nr			
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
C	General Earthing & Bonding; Complete	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
D	Testing and commissioning; complete	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
E	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
F	Working drawings; complete	1	item			
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
G	Co- ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
H	As built drawings; complete	1	item			

					€	c
<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
A	Identification plates, labels and the like; complete	1	item			
(65) PROTECTION - LIGHTNING PROTECTION						
<u>System</u>						
Lightning Protection Installation; installation; testing and commissioning; complete; The Contractor shall include for the supply, installation, testing, commissioning and certification of a complete Lightning Protection System as indicated on drawings and specified; The system shall comply with IS EN 62305 1-4; all in strict accordance with the Electrical General Specifications, Project Particular Specification Section 65 and Drawings 2860-E-11						
B	Lightning Protection System	1	item			
<u>Fittings</u>						
High conductivity PVC coated, annealed copper; conductor tape fitted at roof level; PVC cover shall be provided to all horizontal conductors; fitted with non matalic clips suitable for copper tape, screw fixed; include for square tape clamps as required; complete; as per the Electrical Specifications Section 65						
C	25 x 3mm Lightning Conductor tape	1	item			
Lightning Protection bond from the air termination network to items of plant, rooflights, guttering etc; complete; include for all accessories; all in accordance with the Electrical Engineers Specifications and Drawing						
D	Lightning Protection bond - Roof lights	1	item			
E	Lightning Protection bond - Flues	1	item			
F	Lightning Protection bond - Roof covering to structural Seel	1	item			
G	Lightning Protection bond - Steel Columns	1	item			
H	Lightning Protection bond - PV Panels	1	item			
J	Lightning Protection bond - Access Hatch	1	item			
Air Terminals for the lightning protection system installed on the pitched roof areas; c/w saddle supports; complete; as per Engineers Specifications						
K	Air Terminals	3	nr			

					€	c
<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
Down Conductors and Earthing points; Conductors to be concealed, fixing at 500mm centres; terminating at ground level in a set of earth rods (measured elsewhere); complete; as per Engineers Specifications						
A	Down Conductors and Earthing points	11	nr			
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
B	General Earthing & Bonding; complete	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
C	Testing and commissioning; complete	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
D	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
E	Working drawings; complete	1	item			
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
F	Co- ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
G	As built drawings; complete	1	item			
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
H	Identification plates, labels and the like; complete	1	item			

					€	c
(6-) ELECTRICAL INSTALLATIONS (Cont)						
(65) PROTECTIVE SERVICES - EARTHING AND BONDING						
<u>System</u>						
Earthing and Bonding installation; testing and commissioning; The contractor shall undertake to effectively earth the whole of the electrical installation in accordance with the NSAI I.S. 10101:2020. Main equipotential earth bonding should be provided from each of the following items, as a minimum, to the main earthing bar: Incoming Water Main, Incoming Gas Main, Metal drainage pipes, Structural Steelwork, Main Heating Pipework, Main Ventilation Ductwork, Lightning Protection System, Comms Rooms, Supplementary earth bonding shall be carried out on extraneous metal parts at the following locations: Metallic Wireways and Containment, Suspended Ceiling Grids, Wash Hand Basins, Showers, Sinks, WC's, Cleaners Sinks, Catering equipment, Metal worktops, Plantroom Pipework (e.g. across pumps, valves, vessels, etc.); all in strict accordance with the Electrical Engineers Specification Section 68; Project Particular Specification and Drawings 2860-E-15						
A	Earthing and Bonding	1	item			
<u>Fittings</u>						
Main Earth Terminal Bar; supply and installation; complete; HDHC tinned copper bar of minimum size 500mm x 63mm x 6.3mm; wall mounted by means of busbar support; ends of the bar shall be returned or protected in an approved manner to prevent injury to maintenance personnel. A separate bolted link shall be provided in the earth bar to facilitate easy disconnection of the earth conductor for testing purposes. The bars shall be provided with an engraved label screw fixed to the building fabric stating "Main Earth Bar" in black letters on a yellow background; include for all fittings; all in accordance with the Electrical Engineers Specification						
B	Main Earth Terminal Bar	1	nr			
Main equipotential earth bonding; Cable max. 95mm² LSZH earth; be provided from each of the following items, to the main earthing bar; all in accordance with the Electrical Engineers Specification						
C	Main Distribution board (Ref: MLVS; Location; Existing building)	1	nr			
D	Earthing matt	1	nr			
Main equipotential earth bonding; Cable max. 70mm² LSZH earth; be provided from each of the following items, to the main earthing bar; all in accordance with the Electrical Engineers Specification						
E	Tank and Mains cold water pipes	1	nr			
F	HWS pipes	1	nr			
G	Heating flow and return pipes	1	nr			
H	Gas pipes	1	nr			
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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
A	Distribution board	1	nr			
B	Eircom Equipment	1	nr			
C	Lightning protection system	1	nr			
D	Containment	1	nr			
E	Structural Steel	1	nr			
Main equipotential earth bonding; Cable: 25mm ² LSF green/yellow cable; be provided from each of the following items, as a minimum, to the main earthing bar; all in accordance with the Electrical Engineers Specification						
F	Comms cabinet (Ref: IDF)	1	item			
Supplementary earth bonding shall be carried out on extraneous metal parts at the following locations; all in accordance with the Electrical Engineers Specification						
G	Metallic Wireways and Containment	1	item			
H	Suspended Ceiling Grids	1	item			
J	Wash Hand Basins	1	item			
K	Showers	1	item			
L	Sinks	1	item			
M	WC's	1	item			
N	Cleaners Sinks	1	item			
P	Catering equipment	1	item			
Q	Metal worktops	1	item			
R	Plant room Pipework	1	item			
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
S	General earthing and bonding, complete	1	item			

					€	c
<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification						
A	Testing and commissioning	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification						
B	Operating and maintenance manuals	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification						
C	Working drawings	1	item			
Co-ordination drawings; all in accordance with the Electrical Engineers Specification						
D	Co-ordination drawings	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification						
E	As built drawings	1	item			
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification						
F	Identification plates, labels and the like	1	item			
(65) PROTECTIVE SERVICES - SURGE PROTECTION						
<u>System</u>						
Transient & Over voltage Protection installation, testing and commissioning; Surge Protection Devices (SPDs) shall be installed in switchboards and distribution boards as described below to suppress over voltages and transients due to network disturbances and or lightning strikes. Class 1 & 2 SPDs shall be fitted to each main switchboard at supply the intake point. Class 2 SPDs shall be fitted downstream at each local distribution board. These units shall be rail mounted within a dedicated compartment of the switchboard or distribution board. SPDs shall comply with IEC/EN 61643 11:2012 guidelines; all in accordance with the Electrical General Specifications, Project Particular Specification (61) and Drawing						
G	Transient & Over voltage Protection	1	item			

					€	c
<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>Fittings</u>						
Surge Suppression Devices; installation (including wiring); complete; Surge Protection devices to IEC/EN 61643 11:2012 guidelines; all in strict accordance with the Electrical Engineers Specification						
A	Surge Protection; to SBD-01	1	nr			
B	Surge Protection; to SDB-HE-01	1	nr			
C	Surge Protection; to SDB-AR-01	1	nr			
D	Surge Protection; to SDB-SP-01	1	nr			
E	Surge Protection; to SDB-SP-02	1	nr			
F	Surge Protection; to SDB-SP-03	1	nr			
G	Surge Protection; to SDB-DCC-01	1	nr			
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
H	General Earthing & Bonding; Complete	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification						
J	Testing and commissioning	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification						
K	Operating and maintenance manuals	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification						
L	Working drawings	1	item			
Co-ordination drawings; all in accordance with the Electrical Engineers Specification						
M	Co-ordination drawings	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification						
N	As built drawings	1	item			
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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification						
A	Identification plates, labels and the like	1	item			
<u>(65) MECHANICAL WIRING INSTALLATIONS</u>						
<u>Mechanical Wiring Installation; testing and commissioning; complete; Electrical Contractor must provide and issue as installed drawings for all electrical cabling associated with mechanical services. All wiring for mechanical services must be carried out under this contract to include wiring for heating, ventilation etc. The wiring to all mechanical devices must be taken from dedicated MCC (motor control centre) panels supplies; all in accordance with the Mechanical and Electrical Specification and Drawings</u>						
B	Mechanical Wiring Installation	1	item			
<u>Fittings</u>						
Gas detection system mechanical wiring provisions and final connections (ONLY); installation, testing and commissioning; complete; The Electrical Specialist shall include for the supply and installation of all LV/ELV control wiring cables to mechanically operated items installed under this contract; cables shall be drawn in trunking/ cable trays; all in accordance with the Electrical Engineers Specifications and Drawing 2860-E-17						
C	Gas detection control panel (Location: Boiler room)	1	nr			
D	100mm dia Gas solenoid valve	1	nr			
E	Gas Detector	4	nr			
F	Heat Detector	4	nr			
G	Emergency Stop Button	1	nr			
Gas proving system (Classrooms) mechanical wiring provisions and final connections (ONLY); installation, testing and commissioning; complete; The Electrical Specialist shall include for the supply and installation of all LV/ELV control wiring cables to mechanically operated items installed under this contract; cables shall be drawn in trunking/ cable trays; all in accordance with the Electrical Engineers Specifications and Drawing 2860-E-17						
H	Gas detection control panel (Location: Science/Home Economics)	4	nr			
J	28mm Gas solenoid valve	4	nr			
K	7-day time clock	4	nr			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>					
Heating system mechanical wiring provisions and final connections (ONLY); installation, testing and commissioning; complete; The Electrical Specialist shall include for the supply and installation of all LV/ELV control wiring cables to mechanically operated items installed under this contract; cables shall be drawn in trunking/ cable trays; all in accordance with the Electrical Engineers Specifications and Drawing 2860-E-17					
A	Digital Room Thermostats	18	nr		
B	2-port motorised valve	33	nr		
C	Oil filled Electric radiator	1	nr		
Ventilation system mechanical wiring provisions and final connections (ONLY); installation, testing and commissioning; complete; The Electrical Specialist shall include for the supply and installation of all LV/ELV control wiring cables to mechanically operated items installed under this contract; cables shall be drawn in trunking/ cable trays; all in accordance with the Electrical Engineers Specifications and Drawing 2860-M-05 - 2860-M-07					
D	MVHR units	13	nr		
E	Extract Fans	12	nr		
F	Fume cupboard extract fans	1	nr		
G	MVHR controllers	13	nr		
H	Co2 duct sensors	13	nr		
J	Presence Detection; ceiling/wall mounted; complete	2	nr		
K	Fan speed controller	4	nr		
L	Fan Isolation switch	4	nr		
M	Temperature sensor	1	nr		
N	Motorised Damper; to 100mm duct	1	nr		
<u>General Earthing and Bonding</u>					
General Earthing and Bonding; Design parameters as defined within I.S 10101: 2020 regulations; all in strict accordance with the Electrical Engineers					
P	Generally	1	item		

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
A	Testing and commissioning; complete	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
B	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
C	Working drawings; complete	1	item			
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
D	Co- ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
E	As built drawings; complete	1	item			
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
F	Identification plates, labels and the like; complete	1	item			
(68) BMS WIRING INSTALLATIONS						
<u>System</u>						
BMS wiring installation, testing and commissioning; complete; The electrical contractor shall include for the supply and installation of all LV and ELV / control cabling, containment, isolators and terminations supplied as part of the mechanical contract; Refer to the mechanical series drawings, controls points lists, schematic layouts and also the main mechanical plant room schematic for details of the wiring required. The electrical contractor shall also confirm all wiring requirements with the mechanical specialist prior to ordering any cabling or terminations; all in accordance with the Electrical General Specifications, Project Particular Specification Section 62, Phasing Works and Drawing 2860-E-17						
G	BMS Wiring Installation		item			

					€	c
<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>Equipment</u>						
MCC Panel; supply and installation; complete; The MCC shall contain hand/off/ auto switches with run and trip indicators and interfaces for all items as detailed on the drawings; each button shall be clearly labelled showing the area served; include for all fittings and accessories; all in accordance with the Mechanical Engineers Specification 62						
A	MCC	1	nr			
BMS wiring installation and final connections, testing and commissioning; complete; The Electrical Specialist shall include for the supply and installation of all LV/ ELV cables fed from the MCC panel to mechanically operated items installed under this contract; cables shall be drawn in trunking/ cable trays; all in accordance with the Electrical Engineers Specifications Section 62						
B	Boiler 1 Enable & Lockout	1	nr			
C	Boiler 2 Enable & Lockout	1	nr			
D	Boiler 3 Enable & Lockout	1	nr			
E	Boiler 4 Enable & Lockout	1	nr			
F	Cascade Controller Enable & Lockout	2	nr			
G	Boiler Compensation External sensor	1	nr			
H	Water Heater Enable & Lockout	1	nr			
J	P-01 LTHW pump fault & running	1	nr			
K	P-02 HWSEC pump fault & running	1	nr			
L	2-port control valve for classroom	33	nr			
M	Gas Detection Unit Alarm	1	nr			
N	PU 01 Pressurisation Unit Alarm & Supply	1	nr			
P	BV-01 Temperature Sensor	1	nr			
Q	Main Header Flow Temp Sensor	1	nr			
R	Main Header Return Temp Sensor	1	nr			
S	Control Valve	1	nr			
T	Flow Temp Sensor	1	nr			
U	DHW Flow Temp Sensor	1	nr			
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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>Final Circuits (including all points terminations)</u>						
Final Circuits; installation, testing and commissioning; Complete; Final circuits shall be fed from local sub-distribution board; Cable: 1 x 2 core 4mm2 XPLE/LSF/SWA; Installation: Sub-circuit wiring shall be drawn in concealed galvanised steel conduit and/or galvanised steel trunking; all in accordance with the Electrical Engineers Specification						
Final Circuits - MCC						
A	Power Services - Boiler 1	1	nr			
B	Power Services - Boiler 2	1	nr			
C	Power Services - Boiler 3	1	nr			
D	Power Services - Boiler 4	1	nr			
E	Power Services - Cascade controller	1	nr			
F	Power Services - Gas Water Heater	1	nr			
G	Power Services - P01 HWSEC Pump	1	nr			
H	Power Services - P02 LTHW Pump	1	nr			
J	Power Services - Admin Panel	1	nr			
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
K	Generally		item			
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
L	Testing and commissioning; complete		item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
M	Operating and maintenance manuals; complete		item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
N	Working drawings; complete		item			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
A	Co- ordination drawings;complete		item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
B	As built drawings; complete		item			
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
C	Identification plates, labels and the like; complete		item			
<u>ELECTRICAL INSTALLATIONS</u>						
Sundries and Builders Work						
<u>General Attendances</u>						
D	Provide all general attendances in accordance with Arm 4.	1	item			
E	Provide use of the Main Contractors temporary roads and hardstandings.	1	item			
F	Provide use of the Main Contractors scaffolding.	1	item			
G	Provide use of the Main Contractors standing power operated hoisting plant.	1	item			
H	Provide accommodation for the subcontractors staff for eating, site lavatories, site washing facilities and cloakroom facilities.	1	item			
J	Each sub-contractor shall be permitted the free use, in common with other trades engaged on the site, of any available water supply, temporary plumbing and electrical services.	1	item			
K	Provide temporary distribution systems for lighting, power, water and fuel for the execution of the Electrical services works, including testing and commissioning, and pay all ongoing operation charges.	1	item			
L	Provide safe and dry storage accommodation for the sub-contractors materials, plant and tools.	1	item			
M	Provide space for the provision by the sub-contractors of their own site offices.	1	item			
N	Provide temporary telephone services to the Electrical Contractors temporary office and pay all charges associated with installation and operation.	1	item			
P	Include for unloading, hoisting/cranage and placing into position all items of heavy plant supplied by the subcontractors.	1	item			
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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
A	Allow for maintaining all ducts, chases , trenches, trunking, etc., clean and free of all water, debris and rodents at all times.	1	item			
B	Allow for making good and fire sealing of all builders work opes with proprietary sealant to Architects details, where services penetrate fire zones.	1	item			
C	Fire proofing (material) around ducts and pipework shall be the responsibility of the Main Contractor	1	item			
D	Timber grounds shall be provided within stud partitions to facilitate fixing of wall mounted accessories	1	item			
<u>Special Attendances</u>						
E	Provide all special attendances in accordance with Arm 4 Work Section B Clause 3.1	1	item			
F	Provide use of the Main Contractors temporary roads and hardstandings.	1	item			
G	Provide use of the Main Contractors scaffolding.	1	item			
H	Provide use of the Main Contractors standing power operated hoisting plant.	1	item			
J	Provide accommodation for the subcontractors staff for eating, site lavatories, site washing facilities and cloakroom facilities.	1	item			
K	Each sub-contractor shall be permitted the free use, in common with other trades engaged on the site, of any available water supply, temporary plumbing and electrical services.	1	item			
L	Provide safe and dry storage accommodation for the sub-contractors materials, plant and tools.	1	item			
M	Provide space for the provision by the sub-contractors of their own site offices.	1	item			
N	Provide temporary telephone services to the Mechanical Contractors temporary office and pay all charges associated with installation and operation.	1	item			
P	Provide temporary power supplies (3 phase 400V and maximum loading 15kVA) for welding, handtools, and for commissioning, including infrastructure and all charges fot the contractors use of the facility.	1	item			
Q	Provide scaffolding additional to the main contractors standing scaffolding, or access towers if required.	1	item			
R	Protection of the works the Main Contractor is responsible for providing adequate protection at all times for the Electrical services installation	1	item			
S	Protection/Maintenance, provide covers for placing on live equipment/fittings in areas under construction at the start of each work day and removing the covers at the end of each work day	1	item			
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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>			
Access, provide external access to high level on building facade to permit the installation of any external equipment/fittings and for the removal of existing services as required	1	item	
Provide external access to high level on building facade to permit the installation of any external equipment/fittings and for the removal of existing services as required	1	item	
Seal all incoming services to prevent ingress of vermin	1	item	
Fire Stopping to all services penetrations throughout	1	item	
Provide safe access to roof space to facilitate electrical installation work	1	item	
Attendance to electrical sub-contractor	1	item	
Provide safe access for electrical sub-contractor to all sections of the site	1	item	
Retaining and protecting all incoming services; Contact the statutory authorities to co-ordinate incoming services and locate all existing underground and overhead services prior to site works.	1	item	
Locate all existing underground and overhead services within the site prior to commencing works.	1	item	
Co-ordinating all Mechanical and Electrical builders work requirements.	1	item	
Contractor to note that all existing service shutdowns (i.e Gas, Fire System, Comms, electrical etc for connecting in new and changeovers) shall be carried out between 10pm on a Sunday Night and 6am on a Monday morning, or during holiday periods to avoid any interruptions of the running of the existing campus. These times are to be agreed with school management prior to starting.	1	item	
Unload, hoist, distribute and place in position the following items of heavy plant and equipment			
Main switch board	1	item	
Sub-distribution boards	1	item	
MCC panel	1	item	
Containment	1	item	
Cabling	1	item	
Lighting	1	item	
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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
Sundries & Builders Work						
<u>General</u>						
A	Marking positions of holes, mortices and chases	1	item			
B	Testing & Commissioning	1	item			
C	Preparing drawings of "as completed" installations	1	item			
D	Identification plates, labels and the like; Provide and fit colour identification markers to ceiling hatches to mark the location of isolating devices within ceiling voids	1	item			
E	Keys, tools and spares	1	item			
<u>Equipment supports; provide mounting grounds/ equipment supports for the installation of the following fittings; making good structure and finishes; in strict accordance with the Architects/ Services Engineers drawings, schedule and specifications</u>						
Equipment supports						
F	Light fittings Ref: A	2	nr			
G	Light fittings Ref: B1	28	nr			
H	Light fittings Ref: C1	133	nr			
J	Light fittings Ref: C2	51	nr			
K	Light fittings Ref: C3	28	nr			
L	Light fittings Ref: D	28	nr			
M	Light fittings Ref: E1	25	nr			
N	Light fittings Ref: E2	21	nr			
P	Light fittings Ref: E3	8	nr			
Q	Light fittings Ref: E4	8	nr			
R	Light fittings Ref: E5	18	nr			
S	Light fittings Ref: E6	3	nr			
T	Light fittings Ref: E7	1	nr			
U	Light fittings Ref: EX1	16	nr			
V	Light fittings Ref: EX2	11	nr			
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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
A	Lighting control detectors	49	nr			
B	Smoke /Heat detectors	69	nr			
<u>Forming or cutting holes/mortices/chases and the like; including sleeves/plates, intumescent collars; making good structure and finishes; include for a fully completed installation where nothing must remain to be done to the installation by others; in strict accordance with the Architects/ Services Engineers drawings, schedule and specifications</u>						
C	cutting or forming holes is deemed to include all finishes and decorations both sides of the structure		note			
D	cutting or forming opes is deemed to include the making good and sealing of the ope		note			
Cutting or forming holes in external walls; include for building in sleeves; firestopping making good all finishes on completion						
E	25mm dia opes	27	nr			
F	100mm dia opes	50	nr			
Cutting or forming holes in internal walls; include for building in sleeves; firestopping making good all finishes on completion						
G	25mm dia opes	500	nr			
H	50mm dia opes	100	nr			
J	100mm dia opes	150	nr			
K	350mm x 200mm opes	24	nr			
Cutting or forming holes in suspended concrete floors; include for building in sleeves; firestopping making good all finishes on completion						
L	100mm dia opes	50	nr			
M	450mm x 150mm opes	11	nr			
N	600mm x 150mm opes	1	nr			
Cutting or forming holes in ceiling finishes; include for building in sleeves; firestopping making good all finishes on completion						
P	25mm dia opes	888	nr			
Q	50mm dia opes	20	nr			
R	100mm dia opes	103	nr			
S	600mm x 600mm opes	244	nr			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
A	1200mm x 600mm opes Chasing to blockwork walls for concealed installations; include for intumescent fire and acoustic internal socket box inserts; making good all structures and finishes; all in accordance with the Architects /Service Engineers drawings, schedule and specification	28	nr			
B	Conduit drops, 40mm dia	700	m			
C	Power points; masonry walls	200	nr			
D	Power points; stud walls	150	nr			
E	Lighting points	600	nr			
F	Control points <u>Fire stopping system to multiple and single service penetrations; including intumescent boards, fire stop laminate; intumescent foams and mastic; intumescent pillows; intumescent putty; mineral wool rigid batts; intumescent collars and sealants to achieve 1 hour fire resistance; all in accordance with the Architects specification P12</u> Special works were services pass through structures; external walls, making good all finishes on completion	150	nr			
G	25mm dia opes	27	nr			
H	100mm dia opes Special works were services pass through structures; internal walls, making good all finishes on completion	50	nr			
J	25mm dia opes	500	nr			
K	50mm dia opes	100	nr			
L	100mm dia opes	150	nr			
M	350mm x 200mm opes Special works were services pass through suspended concrete floors; internal walls/beams, making good all finishes on completion	24	nr			
N	100mm dia opes	50	nr			
P	450mm x 150mm opes	11	nr			
Q	600mm x 150mm opes	1	nr			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
Special works were services pass through structures; ceiling finishes, making good all finishes on completion						
A	25mm dia opes	888	nr			
B	50mm dia opes	20	nr			
C	100mm dia opes	103	nr			
D	600mm x 600mm opes	244	nr			
E	1200mm x 600mm opes	28	nr			
<u>PAINTING AND DECORATING</u>						
Painting						
<u>Paint to internal mild steel guard rails and handrails; preparation in accordance with Ss 40 90 60/620; Dulux Trade or equivalent. Initial coats. Number of coats: One. Thinning: None. Application: Brush. Finishing coats. Number of coats: Two. Application: Brush; all in accordance with Architect's Drawings 11.01 & 11.02 and Specification Ss 40 90 60 80</u>						
Pipes, ducts and the like						
F	Girth not exceeding 300mm	1,250	m			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>				
COLLECTION				
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Page No. Extension/194				
Page No. Extension/195				
Page No. Extension/196				
Page No. Extension/197				
Page No. Extension/198				
Page No. Extension/199				
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Page No. Extension/201				
Page No. Extension/202				
Page No. Extension/203				
Page No. Extension/204				
Page No. Extension/205				
Page No. Extension/206				
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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>				
COLLECTION				
Page No. Extension/216				
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Page No. Extension/218				
Page No. Extension/219				
Page No. Extension/220				
Page No. Extension/221				
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<u>(71) DISPLAY, CIRCULATING FITTINGS - SIGNAGE (Cont)</u>						
<u>FITTINGS</u>						
Fitting, Equipment and Furniture						
Internal Signage Systems as per Architects Specification Ss 40 10 35 10; System manufacturer: Vista Systems or equivalent; Product reference: Submit proposals; Layout and dimensions: As per signage drawings; Contractor to provide artwork, drawings and schedules for all signs for comment by the ER. Signs to be sized in accordance with BS 8300: 9.2.3.1 Design and size of lettering and symbols; Lettering: Language: English and Irish (where indicated); Font: in accordance with BS 8300: 9.2.3.1 Design and size of lettering and symbols. Sanserif Font to be used; Font shall be ADA compliant; Colour: in accordance with Architect's Signage Drawings; Size: in accordance with Architect's signage drawings; Visual contrast, contractor to provide proposals; Sign type: Curved Vista wall sign. consists of anodised aluminium frame holder extrusion, two grey plastic (ABS) end caps, and an ADA compliant lens (clear with one colour raised text- clear braille). Printed insert provided by customer or sign shop; Supports/ Fixings: as per Architect's Signage Drawings; all in accordance with Architects Drawing 20-36-6501 and Specification Ss 40 10 35 10 Fittings; Internal Signage, Wall Mounted						
A	Signage Type S1; size 212.5mm long x 150.5mm high; silver anodised aluminium frame/back panel with changable paper inlay and non reflective perspex cover; with and including fixings to background structure; in locations to be agreed; Sign Text and Symbol: Room Name: 20mm high embossed text in "Sanserif" front type; English text to be black colour and italic, Irish text to be standard text colour to RAL 7011; Room Number: 17mm high Embossed text in "Sanserif" font type to top right hand corner, standard text colour black; Braille tactile symbol (indicating room name) to bottom left corner applied to perspex cover	19	nr			
B	Signage Type S2; size 212.5mm long x 110.5mm high; silver anodised aluminium frame/back panel with changable paper inlay and non reflective perspex cover; with and including fixings to background structure; in locations to be agreed; Sign Text and Symbol: Stair Number: 20mm high embossed text in "Sanserif" front type; English text to be black colour and italic, Irish text to be standard text colour to RAL 7011; Room Number: 16mm; Braille tactile symbol (indicating room name) to bottom left corner applied to perspex cover	4	nr			
C	Signage Type F; UA Toilet ; size 212.5mm long x 150.5mm high; silver anodised aluminium frame/back panel with changable paper inlay and non reflective perspex cover; with and including fixings to background structure; 4 no. screws 1500mm from floor level; Sign Text and Symbol: Standard Universally recognised Public Information Signage; embossed symbols and text	2	nr			
D	Signage Type G; Unisex Toilet/Staff WC ; size 150.5mm long x 150.5mm high; silver anodised aluminium frame/back panel with changable paper inlay and non reflective perspex cover; with and including fixings to background structure; 4 no. screws 1500mm from floor level; Sign Text and Symbol: Standard Universally recognised Public Information Signage;	4	nr			

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<u>(71) DISPLAY, CIRCULATING FITTINGS - SIGNAGE (Cont)</u>						
<u>Directional Signage; Vista Systems or equivalent; Curved Vista wall sign (channels on both sides), consists of clear anodized aluminum sign holder extrusion, two gray plastic (ABS) end caps, and an ADA compliant lens (clear with one color raised text - clear Braille); Printed insert provided by the customer or sign shop; Fixings: Mechanically fixed, mounted from walls; all in accordance with Architects Drawing 20-36-6501 and Architects Specification Ss 40 10 40 30</u> Fittings; Internal Signage, Projecting Signage						
A	Projecting Signage; size: to be agreed; with and including fixings to background structure; in locations to be agreed; all in accordance with the Architects specification	7	nr			
<u>Ancillary Signage; size: to be agreed; with and including fixings to background structure; in locations to be agreed; all in accordance with the Architects specification</u> Fittings; Internal Signage, Ancillary Signage						
B	Ancillary Signage - Symbol - 1 - No Smoking Sign	4	nr			
C	Ancillary Signage - Symbol - 2 - Access Controlled Door	4	nr			
D	Ancillary Signage - Symbol - 3 - DEC	4	nr			
E	Ancillary Signage - Symbol - 4 - Door Release Sign	1	nr			
F	Ancillary Signage - Symbol - 5 - Disable Refuge Sign	2	nr			
<u>Directional Signage; Vista Systems or equivalent; Curved Vista Wall sign (channels on both sides); consists of clear anodized aluminum sign holder extrusion; two clear anodized (Aluminum) end caps, black plastic divider; 1 - 1mm Glossy/Non-Glare lenses divided into no of sections, as required; Printed insert provided; Fixings: Mechanically fixed, suspended from ceiling; all in accordance with Architects Drawing 20-36-6501 and Architects Specification Ss 40 10 40 30</u> Fittings; Internal Signage, Ceiling Mounted						
G	Signage Type GF2; size 880mm long x 500mm high; curved vista wall sign; (channels on both sides), consists of clear anodized aluminum sign holder extrusion; two clear anodized (Aluminum) end caps; black plastic divider; 1 - 1mm Glossy/Non-Glare lenses divided into no of sections as required; Printed insert provided; in locations to be agreed; all in accordance with Architects Specification and Drawing 20-36-TD-6502	1	nr			
H	Signage Type FF1; size 880mm long x 500mm high; curved vista wall sign; (channels on both sides), consists of clear anodized aluminum sign holder extrusion; two clear anodized (Aluminum) end caps; black plastic divider; 1 - 1mm Glossy/Non-Glare lenses divided into no of sections as required; Printed insert provided; in locations to be agreed; all in accordance with Architects Specification and Drawing 20-36-TD-6502	1	nr			

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<u>(71) DISPLAY, CIRCULATING FITTINGS - SIGNAGE (Cont)</u>						
A	Signage Type FF2; size 880mm long x 180mm high;curved vista wall sign; (channels on both sides), consists of clear anodized aluminum sign holder extrusion; two clear anodized (Aluminum) end caps; black plastic divider; 1 - 1mm Glossy/Non-Glare lenses divided into no of sections as required; Printed insert provided; in locations to be agreed; all in accordance with Architects Specification and Drawing 20-36-TD-6502	1	nr			
B	Signage Type FF3; size 880mm long x 330mm high;curved vista wall sign; (channels on both sides), consists of clear anodized aluminum sign holder extrusion; two clear anodized (Aluminum) end caps; black plastic divider; 1 - 1mm Glossy/Non-Glare lenses divided into no of sections as required; Printed insert provided; in locations to be agreed; all in accordance with Architects Specification and Drawing 20-36-TD-6502	1	nr			
<u>External Building Mounted Lettering; South West signage to read CARRICK ON SHANNON COMMUNITY SCHOOL; 300mm high wall monted powder coated aluminium lettering; System manufacturer: Contractor's choice; Product reference: Contractor's choice; Layout and dimensions: 1850mm x 2400mm; Lettering: Language: English; Font: Century Gothic; Colour: TBC; Sign type: Stainless steel with pre-drilled fixing holes; Inserts: Manufacturer's standard; Manufacturing process: Manufacturer's standard; Supports/ Fixings: As recommended by manufacturer; as per Architects Specification Pr 40 10 77 04</u> Fittings; External Signage as per Architects Drawing 80200						
C	External Signage; CARRICK-ON-SHANNON COMMUNITY SCHOOL; 1850mm x 2400mm; per drawing 20-36-TD-2102	1	nr			

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<u>(71) DISPLAY, CIRCULATING FITTINGS - SIGNAGE (Cont)</u>						
COLLECTION						
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(71) DISPLAY, CIRCULATING FITTINGS - SIGNAGE Carried to Summary						
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<u>(74) SANITARY FITTINGS</u>						
<u>SECTIONAL COMPLETION</u>						
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item			
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item			
<u>FLOOR WALL AND CEILING FINISHES</u>						
System Partitions						
<u>IPS PANELS; Duct and wall panel lining systems; Description: IPS Wall panels to WCs. System manufacturer: Submit proposals. Product reference: IPS Systems Duct Panels # Hinged Access (High-pressure laminate (HPL)). Panels: High-pressure laminate (18 mm HPL). Supporting frame. Duct panels: Manufacturer's standard. Hardware: Access panels are hinged and locked to prevent removal by patients. Usage: Suitable for medium-use environments. Trim: Panels: lipped in colour matching ABS edging; complete as per Architect#s Drawings and Specifications Ss 25 25 45 25</u>						
IPS Duct Panel Linings						
C	Concealed Cistern Unit to toilets; overall width 850mm wide x 2600mm high x 268mm deep concealing 1nr cisterns; include for all head, side and skirting panels; all in accordance with Architects Drawings TD-1401 - IWT and TD-1402 - IWT & TD-4006 - RLS 006	10	nr			
D	Concealed Cistern Unit to toilets; overall width 1100mm wide x 2600mm high x 268mm deep concealing 1nr cisterns; include for all head, side and skirting panels; all in accordance with Architects Drawings TD-1401 - IWT and TD-1402 - IWT & TD-4006 - RLS 006	2	nr			
E	Concealed Cistern Unit to toilets; overall width 1200mm wide x 2600mm high x 268mm deep concealing 1nr cisterns; include for all head, side and skirting panels; all in accordance with Architects Drawings TD-1401 - IWT and TD-1402 - IWT & TD-4006 - RLS 006	2	nr			

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(74) SANITARY FITTINGS (Cont)						
<u>GLAZING</u>						
Special Glazing						
<u>Mirrors to Architect's Specification; Mirrors to be 6mm thick, class C Safety glass to BS6206; silvered finish; polished edge; 6mm bevelled profile; fixing with chrome plated Dome headed screws; all in strict accordance with Architect's Specification Pr 25 71 53 46</u>						
Mirrors						
A	Mirror; 500 x 700mm x 6mm thick, safety glass; all to Architects Specification and Drawings	3	nr			
B	Mirror; 2300 x 1100mm x 6mm thick, safety glass; all to Architects Specification and Drawings	2	nr			
<u>FITTINGS</u>						
Fittings, Equipment and Furniture						
<u>Provide and fit the following Sanitary fittings; include for all screws, washers etc; all fixings</u>						
Sanitary Fittings						
C	Single Drainer Sink; Stainless Steel single bowl 150mm deep (insulated on underside), single drainer sink; Polished chrome single swivel neck mixer type with quarter turn level type taps or equivalent., Reinforced fixing by 2 lock nuts and stainless steel flexible connectors F1/2, Flow rate test and adjust flow rates to meet specified requirements.; all in accordance with Architects specification and Sanitaryware schedule	11	nr			
D	Single Drainer Sink Hot and Cold; Stainless Steel single bowl 150mm deep (insulated on underside), single drainer sink; Polished chrome single swivel neck mixer type with quarter turn level type taps or equivalent., Reinforced fixing by 2 lock nuts and stainless steel flexible connectors F1/2, Flow rate test and adjust flow rates to meet specified requirements.; all in accordance with Architects specification and Sanitaryware schedule	1	nr			
E	Double Drainer Sink; Stainless Steel Double bowl 150mm deep (insulated on underside), double drainer sink; Polished chrome single swivel neck mixer type with quarter turn level type taps or equivalent., Reinforced fixing by 2 lock nuts and stainless steel flexible connectors F1/2, Flow rate test and adjust flow rates to meet specified requirements.; all in accordance with Architects specification and Sanitaryware schedule	1	nr			
F	WCs; to Unisex Toilets; WC pan: WC/toilet pan with seat, 520-550 projection, wall mounted, hospital pattern,rimless pan, vitreous china, Complete with concealed, reversible, sensor flush; all in accordance with Architects specification, Sanitary ware schedule and Drawing 20-36-TD-1001	12	nr			
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(74) SANITARY FITTINGS (Cont)						
A	Wash hand Basin; to Unisex Toilets; 400mm wash basin; 1nr taphole, with overflow; no chainstay hole; Taps: 1nr hole washbasin mixer, self closing push button, variable temperature control with 15mm female connector flexible hoses on inlets; Flow regulated to 3.7 litres per minute maximum to comply with Water Technology List requirements; Waste: 1 1/4" brass strainer waste, 80mm slotted tail; Trap: 1 1/4" plastic resealing bottle, 75mm seal, multi-purpose outlet; Support Bracket: Pair Steel Wall Hangers; all in accordance with Architects specification, Sanitary ware schedule and Drawing 20-36-TD-1001	10	nr			
B	Doc M Pack; Doc M Contour 21 Close Coupled WC Pan; Manufacturer; Armitage Shanks or equivalent; flat topped close coupled cistern; water saving delay fill cistern w/ spatula lever, grab rails, hinged support rail w/ toilet roll holder; seat no cover with retaining buffers; copper tails on TMV3 mixer tap; all in accordance with Architects specification, Sanitaryware schedule and Drawing 20-36-TD-1001	2	nr			
C	Doc M Pack; to UA Toilet/Shower: Close coupled raised height toilet bowl, 75cm projection with floor fixing kit, Lip Height: 450mm; Pan projection: 750mm; Cistern: close coupled cistern, 4.5 litre, delay fill, single flush syphon cistern for 750mm pojection bowl, bottom supply, internal overflow with secure cover fastener, no lever; Seat: seat only, with top fixing hinges and retaining buffers; WC actuator: spatula cistern lever, close coupled; Washbasin: 500mm washbasin, 1 tap hole, with overflow, no chainstay hole; Waste: 1 1/4" brass anti teft swivel plug waste, 80mm slotted tail; Trap: 1 1/4" plastic bottle, 75mm seal, multi-purpose outlet; Support Bracket: wall fixing set; Tap: 1 hole thermostatic basin mixer, single sequentail level with copper tails; Grabrails: grab rail 600mm long (x4); Hinged support rail 800mm x 35mm diameter, DOC M compliant (x2); all in accordance with Architects specification, Sanitary ware schedule and Drawing 20-36-TD-1001	2	nr			
D	Doc M Shower Pack; to UA Toilet/Shower; Shower room pack: Shower room pack with drop down shower seat, 2 x vertical grab rails, 24 x hinged rails, generic height-adjustable adult changing bench, lever operated thermostatic mixer for concealed supplies, shower handset holder, handset & hose, fixed short projection shower head, lever operated diverter, shower curtain and shower rail; all in accordance with Architects specification, Sanitaryware schedule and Drawing 20-36-TD-1001	2	nr			
E	WCs; to Staff WC's; WC pan: Close coupled toilet bowel with horizontal outlet; Cistern: Close coupled delay fill 4/2.6 litre cistern, dual flush push button valve, bottom supply and internal overflow; WC seat: Toilet seat and cover; all in accordance with Architects specification, Sanitary ware schedule and Drawing 20-36-TD-1001	1	nr			
F	Doc M Pack; to Staff WC/Ambulant Cubicles; WC pan: Close coupled raised height toilet bowl, 75cm projection with floor fixing kit, Lip Height: 450mm; Pan projection: 750mm; Cistern: close coupled cistern, 4.5 litre, delay fill, single flush syphon cistern for 750mm pojection bowl, bottom supply, internal overflow with secure cover fastener, no lever; Seat: seat only, with top fixing hinges and retaining buffers; WC actuator: spatula cistern lever, close coupled; Grabrails: grab rail 600mm long, vertical (x2); grab rail 450mm, horizontal (x2); grab rail 450mm, horizontal to back of door (x1), all in accordance with Architects specification, Sanitary ware schedule and Drawing 20-36-TD-1001	2	nr			

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(74) SANITARY FITTINGS (Cont)						
A	Wash Hand Basin; to Staff WC's; Washbasin: 500mm semi-countertop washbasin, 1nr tap hole with overflow, no chainstay hole; Trap: 1 1/4" resealing plastic bottle, 75mm seal, multi-purpose outlet; Tap: 1 hole thermostatic basin mixer with pop-up waste; all in accordance with Architects specification, Sanitary ware schedule and Drawing 20-36-TD-1001 Vanity Units and worktops to Architect's Specification; Vanity Units comprising the following; Worktop: 350mm overall width bed with post-formed and radiused 300mm apron (downstand) and coved 75mm upstand, reinforced with moisture resistant chipboard divisions and ends with 25mm MDF back rails all properly framed together including 18 x 18 x 75mm of softwood corner blocks, glued and screwed; Main Panels: 660 kg/m3 grade moisture resistant chipboard faced each side with high pressure laminate (HPL); Underpanel Type: 660 kg/m3 grade moisture resistant chipboard faced each side with high pressure laminate (HPL); Underpanel Edge Treatment: HPL 3mm matching or contrasting PVC with corners radiused; Panel Thickness: 18mm nominal; Underframe: 18mm nominal thick high performance melamine faced 660 kg/m3 grade moisture resistant chipboard (MFC); Overall Bed Height: 800mm; Colour/Finish: to be confirmed by Architect; Method of Fixing Panels: concealed Plastic clips fixed to edge of underframe cut outs and reverse of facing panels; Joint Treatment: Nominal 70mm wide shadow gap between each panel section; Included feature; removable access panell; Components / Accessories: Angle brackets, screws and plugs for fixing underframe to floor and vanity top to underframe and back wall; Vanity to be installed by manufacturers Accredited Installer; Hardware/ Ironmongery/Accessories: SAA coated 490 fittings or as per selected system; Shop drawings of cubicle system to be provided by manufacturer for approval by Architect; Installation in accordance with manufacturer's specifications and instructions; Any butt-joints to tops to be sealed using clear silicone applied to both edges and excess removed once assembled; opening(s) to be formed in worktop and base unit to accomodate inset wash hand basins (Basins measured elsewhere) with silicone sealant where necessary; all in strict accordance with Architect's Specification Furniture, Furnishings; Vanity Units	2	nr			
B	Vanity Unit; Complete; overall dimension 2400mm long x 900mm high; incorporating 4nr countertop wash hand basins (supplied by others); with and including 150mm upstand to rear; include for worktop, main panels & underpanels as per Architect's Drawing; include for all fixings and sealings ; all in accordance with Architect's Specification and Architect's Drawing 20-36-TD-1001; Location Unisex Toilets Fittings, Equipment and Furniture Provide and fit the following Accessories; include for all screws, washers etc; all fixings Accessories	2	nr			
C	Grab rails; grab rail straight 600mm long x 35mm diameter; Colour grey; vertical; distance from FFL to be specified; all in accordance with Architects specification	13	nr			

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<u>(76) STORAGE, SCREENING FITTINGS - BLINDS</u>					
<u>SECTIONAL COMPLETION</u>					
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item		
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item		
<u>NOTES</u>					
C	1. For details of the nature and extent of the works to be carried out in this section, the Tenderer's shall refer to all Architect's Drawings and Specifications		note		
D	2. Notwithstanding that this Bill of Quantities is measured in accordance with the Agreed Rules of Measurement, the tenderer should note the following section is not measured in strict accordance with ARM. The Tenderer must include everything necessary to complete the works as no claims on the grounds on want of knowledge will be entertained whatsoever.		note		
<u>FITTINGS</u>					
Fitting, Equipment and Furniture					
Blinds to Architects Specification and Window Blind Schedule: Mechoshade manually operated units or equivalent; Thermoveil shade cloth 1300 series dense basket weave sunscreen material or equivalent; 3% openness factor (9-12% visible light transmission); Manual operated shade system MECHO/5 wide bracket chain driven roller system; Headrail: Zinc plated steel, colour white; Blinds: Polyester, Colour: Shade cloth to be light in colour & selected by Architect; Submit samples; Tube: Extruded aluminium; Testing: Solar transmittance. Appearance and tolerance; Safety factor; A test certificate as in Appendix C of Fire Safety of furnishings and fittings in place of assembly should be supplied for each item; Accessories: Powder coated steel fixing brackets. Cord or ball-chain tensioning system. Ballchain safety connector; all as per Architects Specification Pr. 30 59 07 72 and Window Blind Schedule Drawing 20-36-TD-6100 & 6200					
Furniture, Furnishings; Type A					
E	Overall size 900mm wide x 980mm high; complete	1	nr		
F	Overall size 1200mm wide x 980mm high; complete	2	nr		
G	Overall size 2260mm wide x 2035mm high; complete	7	nr		
H	Overall size 2260mm wide x 2260mm high; complete	2	nr		
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<u>(76) STORAGE, SCREENING FITTINGS - BLINDS (Cont)</u>						
A	Overall size 2963mm wide x 980mm high; complete	2	nr			
B	Overall size 5860mm wide x 2260mm high; complete	1	nr			
<u>Blinds to Architects Specification and Window Blind Schedule: 1 & 3% Openess Factor Double Roller Blinds or equivalent; to the classroom windows nearest to a teaching wall; Gardian Blind; fabric internal blinds with heavy duty contract grade steel tube spring-less rollers; sidewinder endless ball chain control units appropriately sized for the individual blind application; Colour to be selected; all as per Architects Specification Pr. 30 59 07 72 and Window Blind Schedule Drawing 20-36-TD-6100</u> Furniture, Furnishings; Type B						
C	Overall size 685mm wide x 2035mm high; complete	1	nr			
D	Overall size 900mm wide x 980mm high; complete	1	nr			
E	Overall size 2260mm wide x 2035mm high; complete	6	nr			
F	Overall size 2260mm wide x 2260mm high; complete	4	nr			
G	Overall size 5860mm wide x 2260mm high; complete	8	nr			
<u>Blinds to Architects Specification and Window Blind Schedule: Hunter Douglas Classic Venetian Blind; all as per Architects Specification Pr. 30 59 07 72 and Window Blind Schedule Drawing 20-36-TD-6100</u> Furniture, Furnishings; Type C						
H	Overall size 1810mm wide x 2145mm high; complete	2	nr			

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<u>(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE</u>						
<u>SECTIONAL COMPLETION</u>						
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item			
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item			
C	NOTES					
D	1. The Tenderer is advised that the use of melamine faced chip board WILL NOT be permitted in any circumstances	1	note			
E	2. General standards for materials and finishes for fitted furniture; Core Materials for laminated worktops and components - High density chipboard to IS EN 312-3 type P3, class E1 formaldehyde content; Moisture resistant board to EN 312-5 type P5, class E1 formaldehyde content; Dry Fibre Board (MDF) to IS EN 622-5 Class E1 formaldehyde content; Moisture resistant board to IS EN 622-5 MDF.H, class E1 formaldehyde content; Plywood to conform with I.S. EN 1072, I.S. EN 314 and I.S. EN 636; All the above fibre board products to be tested to EN120 to have less than 8mg/100g free formaldehyde content (Class E1). Surface preparation: Prepare surfaces in accordance with decorative coating manufacturer's recommendations	1	note			
F	3. For details of the nature and extent of the works to be carried out in this section, the Tenderer's shall refer to all Architect's Drawings and Specifications	1	note			
G	4. All timber used in the construction of FURNITURE AND FITTINGS within this section to be accredited by the Forestry Standards Council (FSC) standard for sustainable timber; Refer to Architectural Room Layouts and Room Data Sheets for details, sizes and location of Furniture and Equipment; All furniture and equipment to comply with DoES Fitted Furniture Specification and Standards; The build up of furniture listed below generally only applies to fixed furniture and use of alternative materials and finishes of equal or higher specification and performance are permitted; In all cases however fully detailed fabrication drawings at a suitable scale must be provided by the subcontractor and agreed prior to any fabrication	1	note			
<u>MINIMUM STANDARDS FOR MATERIALS AND FINISHES</u>						
Core material for worktops, doors and carcasses:						
H	Dry Fibre Board (MDF) to IS En 622-5 Class E1 formaldehyde content tested to EN 120. Moisture resistant board to IS EN 622-5 MDF.H, class E1 formaldehyde content tested to EN 120.	1	note			

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<u>(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE (Cont)</u>						
A	Core materials to be finished with plastic laminates to comply with IS EN 438, grade HGS/HGP (including vertical panels, shelves and doors). Balancing laminate to be used in all cases.	1	note			
B	Edges of all laminates (if not postformed) to be finished with solid colour laminate (2mm thickness), PVC or hardwood edges to seal all edges.	1	note			
C	Solid timber to comply with IS EN 942, Class J10. FSC/PEFC chain of custody certification required for all timber and timber products, including MDF.	1	note			
Metal frames:						
D	Generally 60 x 30mm mild steel frame with welded caps and adjustable feet. Epoxy powder coated to selected RAL colour	1	note			
Ironmongery:						
E	Stainless steel door handles, reversed fixed through doors. High quality stainless steel or nickel plated self-closing hinges (180 degrees) and high quality cylinder style lock on masterkeyed system to suit the school's requirements;	1	note			
F	Hardwood plinth size to be coordinated with skirting height in rooms	1	note			
General						
G	Alternative materials and finishes of equal or higher specification and performance are permitted.	1	note			
H	Drawings to be read in conjunction with specification.	1	note			
J	Minimum worktop height to be 710mm.	1	note			
<u>CLASSROOM (8Nr)</u>						
<u>FITTINGS</u>						
Fitting, Equipment and Furniture						
Whiteboards - Description: Magnetic white board, fixed 800 - 900mm above finish floor level; Board type: Marker pen; Dimensions (w x h): 1200 x 1200mm; Frame - Material: Aluminium; Finish: Matt; Colour: RAL 9010, white; Surface - Colour: RAL 9010, white; Accessories: 300mm clip on pen ledge; as per Architects Specification Pr 40 30 25 96						
Furniture, Furnishings; White Boards						
K	1200mm x 1200mm high; generally	16	nr			

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<u>(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE (Cont)</u> <u>Notice boards - Form: Wall mounted; Use: Pins; Board surface; Material: Cork; Finish: Felt; Colour: As selected by architect in consultation with the client; Frame; Material: Aluminium; Finish: Powder-coated aluminium with rounded safe corners; Fire rating: Tested and certified - Achieve class O rating; as per Architects Specification Pr 40 30 25 58</u> Furniture, Furnishings; Pin Boards A 1800mm x 1200mm high; generally					16	nr
<u>CORRIDORS</u> <u>FITTINGS</u> Fitting, Equipment and Furniture <u>Student Lockers; Lockers to be supplied by School Authority and installed by Contractor</u> Furniture, Furnishings; Lockers B Allowance for fitting lockers; complete					154	nr
<u>ART ROOM (1NR)</u> <u>FITTINGS</u> Fitting, Equipment and Furniture <u>Teaching Wall with Integrated Storage; all as per Architects Specification and Details on Drawing 4401</u> Furniture, Furnishings; Teaching Wall Unit C 6550mm long as per Architects Drawing <u>Storage Unit consisting of sliding door system with 6mm bulletin board material fixed to doors; include for 4no. 400mm deep heavy duty adjustable shelving; all as per Architects Specification and Details on Drawing 4401</u> Furniture, Furnishings; Storage Unit D 3095mm long x 2500mm high					1	nr
					2	nr

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<u>(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE (Cont)</u>						
<u>Base Unit to Architect's Details on Furniture Layout drawings; Code BU; complete; comprising 40mm thick MDF with decorative high pressure laminate; 40 x 15 varnished beech edge trim to worktop; 18mm thick MDF cupboard doors with beech edge trim and carcass with high pressure laminate; 18mm thick height adjustable MDF shelf with high pressure laminate to all sides complete with steel plug in type adjustable shelf supports, capacity to be 100kg/shelf; 12mm thick MDF removable back panel with high pressure laminate; lacquered hardwood plinth 100 x 25mm with adjustable carcass support feet; include for ironmongery comprising stainless steel D shape handle, 180 degrees self closing hinges and cylinder type locks; include for timber carcassing as required; 35mm SW bearers behind unit; sealing at abutments with mastic sealant; all as per Architects Specification and Details on Drawing 4401</u> Furniture, Furnishings; Cupboards						
A	Low level units; complete; overall dimension 6000 x 600 x 900mm high; incorporating 10nr press units; all in accordance with Architect's Specification	1	nr			
<u>Single Sink Unit to Architect's Details on Furniture Layout drawings; Code SSU; complete; comprising 40mm thick moisture resistant MDF with decorative high pressure laminate; 40 x 15 varnished beech edge trim to worktop; 18mm thick MDF cupboard doors with beech edge trim and carcass with high pressure laminate; 18mm thick height adjustable MDF shelf with high pressure laminate to all sides complete with steel plug in type adjustable shelf supports, capacity to be 100kg/shelf; 12mm thick MDF removable back panel with high pressure laminate; lacquered hardwood plinth 100 x 25mm with adjustable carcass support feet; include for ironmongery comprising stainless steel D shape handle, 180 degrees self closing hinges and cylinder type locks; include for timber carcassing as required; 35mm SW bearers behind unit; sealing at abutments with mastic sealant; as per Architect's Specification</u> Furniture, Furnishings; Single Sink Unit						
B	Low level units; complete; overall dimension 1200 x 625 x 900mm high; worktop with ope for sink (sink e.m.); incorporating 2nr press units; all in accordance with Architect's Specification	1	nr			
<u>Provide and fit the following Sanitary fittings; include for all screws, washers etc; all fixings</u> Sanitary Fittings						
C	Sanitaryware by Armitage Shanks / Ideal Standard / Simmons or equivalent; Stainless steel single bowl single drainer sink; approx size 1000mm long x 450mm wide; grade 304; include 1nr tap hole; ceramic disk lever action mixer tap unit; chainstay and overflow holes; chain & plug, 52mm diameter; tubular P Type traps, 52mm diameter; sealing at abutments with mastic sealant; all in accordance with the manufacturer's instructions and Architect's Specification and Furniture Layout drawings	1	nr			

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(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE (Cont)						
<u>Height Adjustable Worktop with Sink Unit; to Architect's Details on Furniture Layout drawings; Code SSU/AC; complete; 40mm thick moisture resistant MDF with decorative high pressure laminate with 150mm deep front panel; 40 x 15 varnished beech edge trim to worktop; 15mm thick MDF back panel with high pressure laminate; to include heavy duty steel height adjustable legs or height adjustable frame to support worktop, height range 750 - 900mm, powder coated to selected colour; with mechanical control; (removable winder or other approved mechanism); to include drawer units, comprising 4 sets of 2No. deep drawers to fit under worktop when in lowest position on castors, carcass and drawers constructed with 18mm thick MDF with decorative high pressure laminate on all faces; drawer units complete with necessary ironmongery, to include stainless steel D shaped handles and high quality drawer runners with stay closed feature, bottom mounting bracket and drawer stop; to include heavy duty castors, approx 35mm diameter, with min. load capacity of 75Kg per castor, with steel pin and mounting plate; include for timber carcassing as required; sealing at abutments with mastic sealant; as per Architect's Specification</u> Furniture, Furnishings; Height Adjustable Worktop & Sink Unit						
A	Height adjustable Worktop & Sink Unit; complete; overall dimension 1200 x 600 x 750mm/ 900mm high; 150mm height adjustment; worktop with ope for sink (sink e.m.); incorporating 4 sets of 2nr drawer units; all in accordance with Architect's Specification and Furniture Layout drawings <u>Worktop only to Architect's Details; complete; comprising 30mm thick moisture resistant medite ecologique MDF with decorative high pressure laminate finish; 40 x 15 edge trim to match worktop; 18mm thick medite ecologique MDF carcass with formica laminate finish; include for timber carcassing as required; 35mm SW bearers behind unit; sealing at abutments with mastic sealant; as per Architect's Specification</u> Furniture, Furnishings; Worktop	1	nr			
B	Worktop; complete; overall dimension 4550 x 625 x 575mm high; complete; all in accordance with Architect's Specification <u>High Level Shelving as per Architect's Details on Furniture Layout drawings; Code SU; 18mm thick MDF decorative high pressure laminate carcass; 12mm thick MDF back panel with decorative high pressure laminate; 18mm thick height adjustable MDF shelf with high pressure laminate to all sides complete with steel plug in type adjustable shelf supports, capacity to be 100kg/shelf; include for 35mm SW bearers behind unit; high level unit to be fixed 1450mm above FFL; include for all fixings; complete; all as per Architects Specification and Details on Drawing 4401</u> Furniture, Furnishings; Shelving Unit	1	nr			
C	High Level Shelving Unit; complete; overall dimension 1200 x 225 x 575mm high; incorporating 4nr shelving compartments; all in accordance with Architect's Specification	2	nr			
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<u>(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE (Cont)</u>									
<u>Provide and fit the following Sanitary fittings; include for all screws, washers etc; all fixings</u>									
Sanitary Fittings									
Sanitaryware; Belfast traditional sink; Size: 900 x 455 x 250mm, with centre end outlet and weir overflow, domestic fireclay; Taps: S7190(AA); Alterna Quadrant 1/2" lever bib taps; chrome plated bottle trap; H&C; Waste: S8725(AA); 1 1/2" brass strainer waste, 85mm diameter flange, 90mm slotted tail; Ancillary items: S9250(MY); 650mm polished stainless steel legs with adjustable feet & 405mm aluminium alloy brackets, 335mm stud; Ancillary items:S8331(AA); wall mounts, 1/2" (pair) for exposed supply; include for lacquered hardwood cover piece 900 x 105 (approx) x 32mm thick to finish gap between wall and sink; hardwood cover piece to cantilever over sink by 10mm with drip groove; cover piece to be supported by 50 x 25mm softwood batten; include for hardwood vertical filler piece to close off space between sink and wall in elevation; all to Architects Specification and Furniture Layout drawings						1	nr		
<u>Notice boards - Form: Wall mounted; Use: Pins; Board surface; Material: Cork; Finish: Felt; Colour: As selected by architect in consultation with the client; Frame; Material: Aluminium; Finish: Powder-coated aluminium with rounded safe corners; Fire rating: Tested and certified - Achieve class O rating; as per Architects Specification Pr 40 30 25 58</u>									
Furniture, Furnishings; Pin Boards									
1200mm long x 1200mm high; generally						3	nr		
<u>HOME ECONOMICS ROOM (1NR)</u>									
<u>FITTINGS</u>									
Fitting, Equipment and Furniture									
<u>Teaching Wall with Integrated Storage; all as per Architects Details on Drawing 4402</u>									
Furniture, Furnishings; Teaching Wall Unit									
6550mm long						1	nr		

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(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE (Cont)						
Single Sink Unit to Architect's Details; Code BUS; complete; comprising 40mm thick moisture resistant medite ecologique MDF with formica faced finish; 40 x 15 edge trim to match worktop; 18mm thick medite ecologique MDF cupboard doors with formica laminated finish, edges rounded PVC, formica to wrap round, colour ref: lemon K5818; 18mm thick medite ecologique MDF sides and removable back panels with formica laminated finish, plastic strip edges, colour ref: mouse F7928; 18mm thick medite ecologique MDF height adjustable shelf; with formica laminated finish to all sides complete with steel plug in type adjustable shelf supports, capacity to be 100kg/shelf; 18 mm thick medite ecologique MDF plinth with adjustable carcass support feet; include for ironmongery comprising stainless steel D shape handle, 180 degrees self closing hinges and cylinder type locks; include for timber carcassing as required; 35mm SW bearers behind unit; sealing at abutments with mastic sealant; as per Architect's Specification Furniture, Furnishings; Cupboards						
A	Low level units; complete; overall dimension 1600 x 625 x 900mm high; worktop with ope for sink (sink e.m.); incorporating 2nr press units; all in accordance with Architect's Specification	11	nr			
B	Low level units; complete; overall dimension 2200 x 625 x 900mm high; worktop with ope for sink (sink e.m.); incorporating 2nr press units; all in accordance with Architect's Specification	2	nr			
Provide and fit the following Sanitary fittings; include for all screws, washers etc; all fixings Sanitary Fittings						
C	Sanitaryware by Frankie or equivalent manufacturer; Stainless steel single bowl and drainer sink; approx cut out size 965mm long x 500mm wide; to BS EN 13310; include 1nr tap hole; chainstay and overflow holes; chain & plug, tap single swivel on/off mixer tap frankie "Davos" or equal approved; 52mm diameter; tubular P Type traps, 52mm diameter; sealing at abutments with mastic sealant; all in accordance with the manufacturer's instructions and Architect's Specification	11	nr			

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(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE (Cont)						
<u>Drawer Unit to Architect's Details; Code DU; complete; comprising 18mm thick medite ecologique MDF drawer fronts with formica laminated finish, edges rounded PVC formica to wrap round, colour ref: lemon K5818; 18mm thick medite ecologique MDF carcass with formica laminated finish, plastic strip edges, colour ref: mouse F7928; 18mm thick medite ecologique MDF drawer box with formica laminated finish, plastic strip edges, colour ref: mouse F7928; drawer runners to be high quality with stay closed feature, bottom mounting bracket and drawer stop; 18mm thick height adjustable MDF shelf with formica laminate to all sides complete with steel plug in type adjustable shelf supports, capacity to be 100kg/shelf; include for heavy duty castors, approximately 35mm diameter, minimum load capacity 75kg per castor with steel pin and mounting plate; include for ironmongery comprising stainless steel recessed door handle fixed through back of drawer; include for timber carcassing as required; as per Architect's Specification</u> Furniture, Furnishings; Drawers						
A	Pedestal Drawer Unit; complete; overall dimension 600 x 605 x 900mm high; incorporating 3nr press/drawer units; all in accordance with Architect's Specification <u>Double Sink Unit to Architect's Details; Code BUS; comprising 40mm thick mositure resistant medite ecologique MDF with formica faced finish; 40 x 15 edge trim to match worktop; 18mm thick medite ecologique MDF cupboard doors with formica laminated finish, edges rounded PVC, formica to wrap round, colour ref: lemon K5818; 18mm thick medite ecologique MDF sides and removable back panels with formica laminated finish, plastic strip edges, colour ref: mouse F7928; 18mm thick medite ecologique MDF height adjustable shelf; with formica laminated finish to all sides complete with steel plug in type adjustable shelf supports, capacity to be 100kg/shelf; 18 mm thick medite ecologique MDF plinth with adjustable carcass support feet; include for ironmongery comprising stainless steel D shape handle, 180 degrees self closing hinges and cylinder type locks; include for timber carcassing as required; 35mm SW bearers behind unit; sealing at abutments with mastic sealent; as per Architect's Specification</u> Furniture, Furnishings; Cupboards	11	nr			
B	Low level units; complete; overall dimension 1600 x 625 x 900mm high; worktop with ope for sink (sink e.m.); incorporating 3nr press units; all in accordance with Architect's Specification	1	nr			

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<u>(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE (Cont)</u>						
Provide and fit the following Sanitary fittings; include for all screws, washers etc; all fixings						
Sanitary Fittings						
A	Sanitaryware by Frankie or equivalent manufacturer; Stainless steel double bowl and single drainer sink; approx cut out size 1325mm long x 500mm wide; to BS EN 13310; include 1nr tap hole; chainstay and overflow holes; chain & plug, tap single swivel on/off mixer tap frankie "Davos" or equal approved; 52mm diameter; tubular P Type traps, 52mm diameter; sealing at abutments with mastic sealent; all in accordance with the manufacturer's instructions and Architect's Specification	1	nr			
Base Unit to Architect's Details; Code BU; complete; comprising 40mm thick medite ecologique MDF with decorative formica laminate; 40 x 15 edge trim to match worktop; 8mm thick medite ecologique MDF doors with formica laminated finish, edges rounded PVC formica to wrap round, colour ref: lemon K5818; 18mm thick medite ecologique MDF sides and removable back panels with formica laminated finish, plastic strip edges, colour ref: mouse F7928; 18mm thick medite ecologique MDF height adjustable shelf; with formica laminated finish finish to all sides complete with steel plug in type adjustable shelf supports, capacity to be 100kg/shelf; 100 x 18mm thick medite ecologique MDF plinth with formica laminate finish with adjustable carcass support feet; include for ironmongery comprising stainless steel D shape handle, 180 degrees self closing hinges and cylinder type locks; include for timber carcassing as required; 35mm SW bearers behind unit; sealing at abutments with mastic sealent; as per Architect's Specification and Details on Drawing 4402						
Furniture, Furnishings; Cupboards						
B	Low level units; complete; overall dimension 500 x 605 x 900mm high; incorporating 1nr press unit; all in accordance with Architect's Specification	1	nr			
C	Low level units; complete; overall dimension 600 x 605 x 900mm high; incorporating 1nr press unit; all in accordance with Architect's Specification	8	nr			
Worktop only to Architect's Details; complete; comprising 30mm thick moisture resistant medite ecologique MDF with decorative high pressure laminate finish; 40 x 15 edge trim to match worktop; 18mm thick medite ecologique MDF carcass with formica laminate finish; include for timber carcassing as required; 35mm SW bearers behind unit; sealing at abutments with mastic sealent; as per Architect's Specification						
Furniture, Furnishings; Worktop						
D	Worktop; complete; overall dimension 600 x 625 x 900mm high; complete; all in accordance with Architect's Specification	11	nr			
E	<u>Extra over</u> for 2no. x 1900mm long x 200mm wide 32mm thick solid Iroko cover to service duct shelving	4	nr			

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(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE (Cont)						
A	Extra over for 2no. x 1930mm long x 200mm wide 32mm thick solid Iroko cover to service duct shelving	1	nr			
B	Worktop; complete; Corner Unit - overall dimension 1850 / 750 x 625 x 900mm high; complete; all in accordance with Architect's Specification Height Adjustable Sink and Hob Unit to Architect's Details; Code ASS-ASE; complete; worktop to be 40mm thick moisture resistant MDF with decorative formica laminate with 150mm deep front panel; 40 x 15 edge trim to match worktop; 18mm thick medite ecologique MDF back panel with formica laminate finish; to include heavy duty circular steel height adjustable legs supporting worktop, height range 750 - 900mm, powder coated to RAL 7039, with mechanical control; (removable winder or other approved mechanism); to include drawer units, comprising 2No. deep drawers to fit under worktop when in lowest position on castors, comprising 18mm thick medite ecologique MDF drawer fronts with formica laminated finish, edges rounded PVC formica to wrap round, colour ref: lemon K5818; 18mm thick medite ecologique MDF carcass with formica laminated finish, plastic strip edges, colour ref: mouse F7928; 18mm thick medite ecologique MDF drawer box with formica laminated finish, plastic strip edges, colour ref: mouse F7928; drawer units complete with necessary ironmongery, to include stainless steel D shaped handles and high quality drawer runners with stay closed feature, bottom mounting bracket and drawer stop; to include heavy duty castors, approx 35mm diameter, with min. load capacity of 75Kg per castor, with steel pin and mounting plate; include for timber carcassing as required; sealing at abutments with mastic sealant; as per Architect's Specification Furniture, Furnishings; Height Adjustable Sink and Hob Unit	1	nr			
C	Height adjustable sink and hob units; complete; overall dimension 2800 x 605 x 750mm/ 900mm high; 150mm height adjustment; worktop with ope for sink (sink e.m.); incorporating 2nr drawer units; worktop with opening for hob (to be provided by others); all in accordance with Architect's Specification Provide and fit the following Sanitary fittings; include for all screws, washers etc; all fixings Sanitary Fittings	1	nr			
D	Sanitaryware by Frankie or equivalent; Stainless steel single bowl and drainer sink; approx cut out size 965mm long x 500mm wide; include 1nr tap hole; chainstay and overflow holes; chain & plug, tap single swivel on/off mixer tap frankie "Davos" or equal approved; 52mm diameter; tubular P Type traps, 52mm diameter; sealing at abutments with mastic sealant; all in accordance with the manufacturer's instructions and Architect's Specification	1	nr			
E	Extra over for flexible waste to allow movement in worktop; as per Architect's Specification	1	nr			
F	Extra over for heat insulated cover to underside of sink; as per Architect's Specification	1	nr			

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<u>(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE (Cont)</u> <u>Tall Unit with opening to Architect's Details; Code TU; complete; comprising 18mm thick MDF Carcass and shelves with decorative high pressure laminate; adjustable shelves to have steel bracket supports; 20mm thick MDF doors with decorative high pressure laminate and beech edge trims; to include lacquered hardwood plinth 100 x 25mm; 12mm MDF back panel with decorative high pressure laminate; include for ironmongery comprising stainless steel "D" shape press handle reverse fixed through door and high quality stainless steel plated self-closing hinges; include for 35 x 35mm softwood packers as required; include space for Built-in double oven; as per Architect's Specification and Details on Drawing 4402</u> Furniture, Furnishings; Tall Fridge Unit Tall Fridge Unit; complete; overall dimension 600 x 600 x 2100mm high; incorporating space for ovens (supplied by others); all in accordance with Architect's Specification <u>High Level Storage Units as per Architect's Details; 18mm thick medite ecologique MDF doors with formica laminated finish, edges rounded PVC formica to wrap round, colour ref: lemon K5818; 18mm thick medite ecologique MDF sides and back panels with formica laminated finish, plastic strip edges, colour ref: mouse F7928; 18mm thick medite ecologique MDF height adjustable shelf; with formica laminated finish to all sides complete with steel plug in type adjustable shelf supports, capacity to be 100kg/shelf; include for 35mm SW bearers behind unit; include for all ironmongery comprising stainless steel D shape handles, 180 degrees self closing hinges and cylinder type locks; high level unit to be fixed 1400mm above FFL; include for all fixings; complete; as per Architect's Specification and Details on Drawing 4402</u> Furniture, Furnishings; Cupboards High level units; complete; overall dimension 795 x 300 x 720mm high; incorporating 2nr press units; all in accordance with Architect's Specification <u>SCIENCE LABORATORY (2NR) & SCIENCE PREP (1NR)</u> <u>FITTINGS</u> Fitting, Equipment and Furniture <u>Teaching Wall with Integrated Storage; all as per Architects Details</u> Furniture, Furnishings; Teaching Wall Unit 5350mm long	2	nr
	6	nr
	2	nr

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<u>(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE (Cont)</u>						
Storage Unit consisting of sliding door system with 6mm bulletin board material fixed to doors; include for 4no. 400mm deep heavy duty adjustable shelving; all as per Architects Specification and Details						
Furniture, Furnishings; Storage Unit						
A	3500mm long	2	nr			
Student Pedestal Unit to Architect's Details; Code PU1; complete; comprising 32mm thick Solid Iroko board worktop; 18mm thick medite ecologique MDF panels and shelves with formica laminate finish; 300mm deep removable shelf; lacquered hardwood plinth 125 x 18mm; include 200mm wide x 32mm thick solid Iroko cover to service duct, to match worktop; 50 x 18mm MDF battens with formica laminate finish; 18mm thick MDF removable panel with 6no. allen key recessed screws with formica laminate finish, and softwood battens to support removable panels; to include all necessary softwood framing/ battens to contractor's design; sealing at abutments with mastic sealant; as per Architect's Specification						
Furniture, Furnishings; Student Pedestal Unit						
B	Student Pedestal Unit; complete; overall dimension 600 x 600 x 1020mm high; worktop with ope for sink (sink e.m.); incorporating 1nr removable panel, with 1Nr adjustable shelf; including flush twin switched socket fixed to unit (power supply and wiring of socket included in M&E Pricing Document); all in accordance with Architect's Specification	10	nr			
C	<u>Extra over</u> for 600mm long x 200mm wide 32mm thick solid Iroko cover to service duct	10	nr			
Sanitary Fittings (to Student Pedestal Unit)						
D	Laboratory sink to suit Science Base Unit; heavy duty fireclay type; size 250 x 250 x 250mm deep; sink to have acid resistant waste; Contractor to note that polypropylene sink is not acceptable; as per Architect's Specification	10	nr			
E	Laboratory taps to suit laboratory sink to Science Base Unit; 300mm high brass bib tap with anti-corrosive plastic coating, serrated nozzle outlets; cold water supply to be colour coded to DIN EN 13792; as per Architect's Specification	10	nr			
F	Polypropylene dilution recovery trap to suit laboratory sink; 2.3 litres volume; anti-siphon type; trap emptied by unscrewing the base; trap to have certified resistance to chemicals; include for 350mm deep removable shelf under dilution pot, shelf to match other shelves in unit; as per Architect's Specification	10	nr			
G	Gas Outlets; Twin 90 degrees gas outlets with lever control and serrated nozzle outlets c/w anti-rotation pin; taps to have brass body and anti-corrosive plastic coating; taps to be colour coded to DIN EN 13792; as per Architect's Specification	20	nr			

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(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE (Cont)						
Height Adjustable Student Pedestal Unit to Architect's Details; Code PU-HA; complete; comprising 32mm thick Solid Iroko board worktop; 18mm thick MDF panels and shelves with formica laminate finish; 300mm deep removable shelf; lacquered hardwood plinth 125 x 18mm; include 200mm wide 32mm thick solid Iroko cover to service duct, to match worktop; 50 x 18mm MDF battens with decorative high pressure laminate; 18mm thick MDF panel on top of HW plinth with formica laminate finish; 18mm thick MDF removable panel with 6no. allen key recessed screws with formica laminate finish, and softwood battens to support removable panels; to include all necessary softwood framing / battens to contractor's design; unit to incorporate height adjustable frame c/w manual winder; frame to allow for 270mm up and down movement; frame to be constructed using 80 x 80mm SHS posts and 80 x 40mm RHS horizontals c/w welded lugs to fix worktop; 80 x 80mm SHS posts to slide over 70 x 70mm SHS posts welded to base plates and bolted to floor; include for all base plates and fixings; Contractor to ensure stability of pedestal unit in compliance with BS 5873; The Contractor to submit detailed shop drawings and a sample of the manual winder prior to manufacture for approval; sealing at abutments with mastic sealant; as per Architect's Specification Furniture, Furnishings; Height Adjustable Student Pedestal Unit						
A	Height Adjustable Student Pedestal Unit; complete; overall dimension 600 x 600 x 1010 - 750mm high (adjustable); worktop with ope for sink (sink e.m.); incorporating 1nr removable panel, with 1Nr adjustable shelf; including flush twin switched socket fixed to unit (power supply and wiring of socket included in M&E Pricing Document); all in accordance with Architect's Specification	2	nr			
B	<u>Extra over</u> for 600mm long x 200mm wide 32mm thick solid Iroko cover to service duct	2	nr			
Sanitary Fittings (to Student Pedestal Unit)						
C	Laboratory sink to suit Pedestal Unit; heavy duty fireclay type; size 250 x 250 x 250mm deep; sink to have acid resistant waste; Contractor to note that polypropylene sink is not acceptable; as per Architect's Specification	2	nr			
D	<u>Extra over</u> for flexible waste to allow movement in unit; as per Architect's Specification	2	nr			
E	Laboratory taps to suit laboratory sink to Pedestal Unit; 300mm high brass bib tap with anti-corrosive plastic coating, serrated nozzle outlets; cold water supply to be colour coded to DIN EN 13792; as per Architect's Specification	2	nr			
F	Polypropylene dilution recovery trap to suit laboratory sink; 2.3 litres volume; anti-siphon type; trap emptied by unscrewing the base; trap to have certified resistance to chemicals; include for 350mm deep removable shelf under dilution pot, shelf to match other shelves in unit; as per Architect's Specification	2	nr			

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<u>(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE (Cont)</u>						
A	Gas Outlets; Twin 90 degrees gas outlets with lever control and serrated nozzle outlets c/w anti-rotation pin; taps to have brass body and anti-corrosive plastic coating; taps to be colour coded to DIN EN 13792; as per Architect's Specification <u>Student Project Table to Architect's Details; Code: SPT; complete; comprising 32mm thick solid iroko boards worktop to Architect's Specification, double machine jointed; top to be sealed and varnished to Architect's Specification; pencil rounded edges and rounded corners minimum radius 10mm; table top fixed to and including 25 x 25 x 2.5mm square hollow section steel frame and tiebar; include for 25 x 25 x 3mm steel fixing angles, 100mm long; include for adjustable screw jacks and rubber feet to legs; all steel to be blast cleaned, primed and finished with epoxy powder paint coating to RAL 7039; include for all fixings; all in strict accordance with Architect's Specification</u> Furniture, Furnishings; Student Project Table	4	nr			
B	Student Project Table; overall dimensions 1200 x 700 x 850mm high; all in accordance with Architect's Specification <u>Worktop only to Architect's Details; complete; comprising 32mm thick Solid Iroko board worktop; 40 x 15 edge trim to match worktop; 18mm thick medite ecologique MDF carcass with formica laminate finish; include for timber carcassing as required; 35mm SW bearers behind unit; sealing at abutments with mastic sealant; as per Architect's Specification</u> Furniture, Furnishings; Worktop	24	nr			
C	Worktop; complete; overall dimension 600 x 605 x 900mm high; complete; all in accordance with Architect's Specification <u>Base Unit Storage for Science complete with understorage shelves to Architect's Details; Code WTB; complete; comprising 32mm thick Solid Timber boards to specification; exposed edges of worktops to be chamfered 32mm thick Solid Iroko board worktop; 18mm thick MDF carcasses and shelves with all lippings decorative formica laminate; carcass, side panels and back panels to press units with formica laminate finish; 18mm thick MDF fixed shelves with fromica laminate to all sides complete; capacity to be 100kg/shelf; storage units at 400mm centres with divider panel to match shelves; to include lacquered hardwood plinth 100 x 25mm and adjustable carcass support feet; 100 x 18mm upstand finish to match worktop; 2 Nr 50 x 25mm softwood battens fixed to wall; include for all necessary ironmongery; include for timber carcassing supports as required; desk grommets with covers in clour to match worktop; sealing at abutments with mastic sealant; as per Architect's Specification</u> Furniture, Furnishings; Bag Storage for Science	1	nr			
D	Worktop complete with under storage units; include ope for lab sink (measured elsewhere); complete; overall dimension 2420 x 625 x 900mm high; incorporating 4nr storage units; all in accordance with Architect's Specification	1	nr			

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<u>(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE (Cont)</u>					
Worktop complete with under storage units; complete; overall dimension 2400 x 625 x 900mm high; incorporating 4nr storage units; all in accordance with Architect's Specification	2	nr			
Worktop complete with under storage units; complete; overall dimension 4200 x 625 x 900mm high; incorporating 7nr storage units; all in accordance with Architect's Specification	2	nr			
<u>Provide and fit the following Sanitary fittings; include for all screws, washers etc; all fixings</u>					
Sanitary Fittings					
Sanitaryware; Belfast traditional sink; Size: 900 x 455 x 250mm, with centre end outlet and weir overflow, domestic fireclay; Taps: S7190(AA); Alterna Quadrant 1/2" lever bib taps; chrome plated bottle trap; H&C; Waste: S8725(AA); 1 1/2" brass strainer waste, 85mm diameter flange, 90mm slotted tail; Ancillary items: S9250(MY); 650mm polished stainless steel legs with adjustable feet & 405mm aluminium alloy brackets, 335mm stud; Ancillary items:S8331(AA); wall mounts, 1/2" (pair) for exposed supply; include for lacquered hardwood cover piece 900 x 105 (approx) x 32mm thick to finish gap between wall and sink; hardwood cover piece to cantilever over sink by 10mm with drip groove; cover piece to be supported by 50 x 25mm softwood batten; include for hardwood vertical filler piece to close off space between sink and wall in elevation; all to Architects Specification and Furniture Layout drawings	3	nr			
Sanitaryware to Architects Specification; Standard: To BS 1206. Manufacturer: Armitage Shanks or equivalent. Product reference: Armitage Shanks S5900 Alder sink or equivalent, high splashback, back and fitted stainless steel bucket grating. Size: 51cm, 31cm high; Material: Glazed fireclay, white sink and stainless steel bucket grating. Tap/ Chainstay/ Overflow holes: S7190 Alterna Quadrant 1/2in lever operated quarter turn bib taps. Wastes: Strainer. Standards: To BS EN 274-1, -2 and -3. Manufacturer: Armitage Shanks or equivalent. Product reference: S8726 1 1/2in unslotted strainer waste. Size: 1 1/2in. Traps: As M&E Engineer's requirements. Standards: To BS EN 274-1, -2 and -3. Depth of seal (minimum): 75 mm. Accessories: Armitage Shanks S9221 aluminium alloy build-in brackets and S9101 Domex screws; include for all fixings; all to Architects Specification	1	nr			
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(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE (Cont)						
<u>Floor to ceiling adjustable shelving to stores to Architect's Specification; Code AS; complete; Proprietary double slot adjustable cantilever system comprising heavy duty double slotted powder coated supporting channel uprights spaced at maximum 600mm centres; uprights fixed to wall using countersunk fixings in accordance with manufacturer's instructions; no cantilevered ends to exceed 150mm or 1/6th of the overall length; U-section steel shelf brackets; powder coated finish; 270mm bracket, 80kg capacity; bracket to suit width of shelf; shelves to be fixed to brackets using manufacturer's clips fitted to the side of brackets and screwed, or with lug to secure shelves in drill holes from underneath; shelves to be 18mm thick MDF with high pressure laminate; sides of shelves to be finished with coloured core edging to match the colour of shelves; strictly in accordance with Architect's Specification N10</u> Furniture, Furnishings; Shelving						
A	300mm wide; as per Architect's Drawing	18	m			
<u>High Level Storage Units as per Architect's Details; 18mm thick medite ecologique MDF doors with formica laminated finish, edges rounded PVC formica to wrap round, colour ref: lemon K5818; 18mm thick medite ecologique MDF sides and back panels with formica laminated finish, plastic strip edges, colour ref: mouse F7928; 18mm thick medite ecologique MDF height adjustable shelf; with formica laminated finish to all sides complete with steel plug in type adjustable shelf supports, capacity to be 100kg/shelf; include for 35mm SW bearers behind unit; include for all ironmongery comprising stainless steel D shape handles, 180 degrees self closing hinges and cylinder type locks; high level unit to be fixed 1400mm above FFL; include for all fixings; complete; as per Architect's Specification</u> Furniture, Furnishings; Cupboards						
B	High level units; complete; overall dimension 795 x 300 x 720mm high; incorporating 2nr press units; all in accordance with Architect's Specification	6	nr			

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(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE (Cont)						
Once the initial connection has been tested by a GAS SAFE registered engineer the quick release connections can be connected and reconnected as required; SERVICES - 1 X CONTROL PANEL 1 X COLD WATER / 1 X FAN SWITCH 1 X GAS / 1 X LIGHT SWITCH 1 X DRIP CUP (VULCATHENE) / 1 X DOUBLE SWITCH SOCKET OUTLET 1 X PRE-WIRE / 1 X PRE-PLUMB; CONTROL PANEL - AIRFLOW FAILURE INDICATOR - AIRFLOW SAFE INDICATOR; SASH - 6mm thick clear toughened glass sash counter balanced with fail safe pulley and weight system utilising stainless steel cables and ball race pulleys; Guide channels provide smooth rise and fall sash action with reduction in lateral movement achieving overall directional stability; Unique quick release sash locks are a standard safety precaution at 400mm; On lock release the sash can be raised to give a maximum clear opening of 650mm for cleaning and maintenance purposes and also for setting up apparatus; However on lowering the sash below 400mm the sash locks automatically reset; CONTAINMENT / AIRFLOW - Airfoil epoxy coated, fingerrip to promote streamlined inflow of air into work chamber; Air bypass system operates when sash is in the lowered position to prevent Bunsen's being blown out; Rectangular extract to promote even airflow across sash aperture. Purge-gap beneath the lower airfoil to promote "scavenging" across the work surface if spillage's occur; STORAGE UNIT - Built into the support frame structure is a mild steel unit, complete with lockable hinged doors; All mechanical service terminations are to the rear with a removable PVC panel for access; FUME CUPBOARD VOLUME - Designed to achieve an individual face velocity of minimum 0.4 m/s at the sash height of 400mm; OPTIONAL ITEMS INCLUDED - COSMETIC INFILL PANELS - Above the installed Fume Cupboard could be mild steel panels terminating 25mm below the false ceiling - height TBC (Max 600mm - Please contact us for prices if panels greater than 600mm are required); The front hinged panel is slotted to prevent excessive velocities at low sash openings and allow a nearly constant total extract rate irrespective of sash position; These are INCLUDED for each Fume Cupboard; PVC FISHTAIL - To supply a PVC fishtail connection (Excluding balancing damper) will be INCLUDED for each Fume Cupboard; EXCLUSIONS - Building Works (measured elsewhere) - Plumbing of Fume Cupboard or Electrical Wiring of Fume Cupboard; Cutting of holes Special Purpose; Fume Cupboard						
A	Fixing to blockwork	1	nr			
Island with Tray Storage - 35mm thick moisture resistant MDF worktop with decorative high pressure laminate; 18mm thick MDF carcass with high pressure laminate; include for Plastic storage drawers; all as per Architects Specification and Details Furniture, Furnishings; Island with Tray Storage as per Architects Drawing						
B	1480 x 900 x 863mm high	1	nr			

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<u>(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE (Cont)</u>						
<u>SET ROOM (2NR)</u>						
<u>FITTINGS</u>						
Fitting, Equipment and Furniture						
<u>High Level Shelving as per Architect's Details on Furniture Layout drawings;</u> <u>Code SU; 18mm thick MDF decorative high pressure laminate carcass; 12mm thick</u> <u>MDF back panel with decorative high pressure laminate; 18mm thick height</u> <u>adjustable MDF shelf with high pressure laminate to all sides complete with</u> <u>steel plug in type adjustable shelf supports, capacity to be 100kg/shelf;</u> <u>include for 35mm SW bearers behind unit; high level unit to be fixed 1450mm</u> <u>above FFL; include for all fixings; complete; all as per Architects</u> <u>Specification and Details on Drawing 4105</u>						
Furniture, Furnishings; Shelving Unit						
A	High Level Shelving Unit; complete; overall dimension 1200 x 225 x 575mm high; incorporating 4nr shelving compartments; all in accordance with Architect's Specification	2	nr			
<u>Notice boards - Form: Wall mounted; Use: Pins; Board surface; Material: Cork;</u> <u>Finish: Felt; Colour: As selected by architect in consultation with the client;</u> <u>Frame; Material: Aluminium; Finish: Powder-coated aluminium with rounded safe</u> <u>corners; Fire rating: Tested and certified - Achieve class O rating; as per</u> <u>Architects Specification Pr. 40 30 25 58</u>						
Furniture, Furnishings; Pin Boards						
B	1200mm long x 1200mm high; generally	2	nr			
<u>MUSIC ROOM (1NR)</u>						
<u>FITTINGS</u>						
Fitting, Equipment and Furniture						
<u>Teaching Wall with Integrated Storage; all as per Architects Specification and</u> <u>Details on Drawing 4404</u>						
Furniture, Furnishings; Teaching Wall Unit						
C	5380mm long as per Architects Drawing	1	nr			

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<u>(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE (Cont)</u>					
<u>Storage Unit consisting of sliding door system with 6mm bulletin board material fixed to doors; include for 4no. 400mm deep heavy duty adjustable shelving; all as per Architects Specification and Details on Drawing 4404</u> Furniture, Furnishings; Storage Unit 4300mm long x 2350mm high					
1	nr				
<u>Storage Press; complete; comprising 18mm thick MDF Carcass and shelves with decorative high pressure laminate; adjustable shelves to have steel bracket supports; 20mm thick MDF doors with decorative high pressure laminate and beech edge trims; to include lacquered hardwood plinth 100 x 25mm; 12mm MDF back panel with decorative high pressure laminate; include for ironmongery comprising stainless steel "D" shape press handle reverse fixed through door and high quality stainless steel plated self-closing hinges; include for 35 x 35mm softwood packers as required; include space for Built-in double oven; as per Architect's Specification and Details on Drawing 4022</u> Furniture, Furnishings; Tall Fridge Unit Storage Press; complete; overall dimension 900 x 450 x 1800mm high					
3	nr				
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<u>(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE (Cont)</u>					
COLLECTION					
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(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE Carried to Summary					
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EXISTING BUILDING

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<u>(10) DEMOLITIONS AND ALTERATIONS</u>						
<u>SECTIONAL COMPLETION</u>						
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item			
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item			
<u>DEMOLITION & ALTERATIONS</u>						
<u>GENERAL</u>						
C	1. THE ONUS IS ON THE CONTRACTOR TO VISIT THE SITE OF THE WORKS AND TO SATISFY HIMSELF AS TO THE NATURE AND EXTENT OF THE WORKS AND ALL OTHER MATTERS THAT MIGHT INFLUENCE HIS PRICE OR TIME FOR COMPLETION OF THE WORKS (ARRANGEMENTS TO VISIT THE SITE SHOULD BE MADE WITH THE EMPLOYER'S REPRESENTATIVE). THE CONTRACTOR MUST INCLUDE WITHIN HIS PRICE FOR ALL WORKS IN CONNECTION WITH THE DEMOLITION WORKS AND WORKS TO THE EXISTING BUILDINGS, WHICH COULD BE REASONABLY FORESEEN OR IMPLIED BY THE TENDER DOCUMENTS. NO CLAIMS ON THE GROUNDS OF WANT OF KNOWLEDGE IN RESPECT OF THE ABOVE WILL BE ENTERTAINED WHATSOEVER.		note			
D	2. All demolition work is to be carried out in accordance with the appropriate Health and Safety Executive Guidance Notes; All operatives must be appropriately skilled and experienced for the type of work and must hold or be training to obtain relevant CITB Certificates of Competence; All site staff responsible for supervision and control of work are to be experienced in the assessment of the risks involved and in the methods of demolition to be used.		note			
E	3. No demolition shall proceed in advance of consultation and sign off by relevant consultants. All conservation reports must be taken into account with respect to demolition works; The Contractor must include herein for all costs associated with same.		note			
F	4. Demolition work is to be entrusted only to workmen with experience in this type of work, and all precautions must be taken to avoid accidents and to safeguard persons and property.		note			
G	5. All excess builders rubble, topsoil, demolished materials etc, that is to be disposed off site, must be disposed in a licensed landfill site approved by the local authority.		note			
H	6. The Contractor shall provide and maintain all necessary temporary fencing, hoarding, fans, planked footways, gaurdrails, gantries and the like for the protection of the Public and meeting the requirements of the Local Authority.		note			
J	7. The Contractor is to include for all necessary scaffolding, hoisting and other facilities required for carrying out the works. Contractor also to make provisions for adequately supporting all structures if required.		note			
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Existing Building/1						

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<u>(10) DEMOLITIONS AND ALTERATIONS (Cont)</u>						
A	8. The Contractor should include herein for all costs associated with obtaining the appropriate licences, as these must be undertaken prior to any works being carried out		note			
B	9. The Contractors attention is drawn to the presence of existing services; due care must be taken when excavating in the proximity of existing buildings and boundaries		note			
C	10. When pricing the following items, the Contractor's attention is drawn to the information contained in the Works Requirements & Appendices of this Pricing Document. The Contractor's rates are to include for all items specifically referred to or implied therein. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.		note			
D	11. The Contractor must provide a method statement to the Architect for approval, outlining in detail the manner in which he proposes to carry out the removal of the demolition materials contained within the site.		note			
E	12. The Contractor should include herein for all costs associated with the removal of contaminated earth arising from the demolition of existing buildings; the contractor shall include for disinfecting the material as required by the Local Authority.		note			
F	13. The Contractor shall report to the Employer's Representative any bench marks or other survey information found on any structures that are to be demolished; any bench marks or information found must not be removed or destroyed unless instructed by the Employer's Representative		note			
G	14. The Contractor must note that any work carried out to or which affects new or existing services must be in accordance with the byelaws or regulations of the relevant statutory authority		note			
H	15. The Contractor should include herein for all costs associated with the locating and marking the positions of services affected by the demolition work; Contractor shall arrange with the appropriate authorities for the locating and marking of the positions of the mains services		note			
J	16. The Contractor must arrange with the appropriate authorities, before demolition is commenced, for the disconnection of services and removal of fixtures, fittings, furniture and equipment		note			
K	17. The Contractor must take adequate precautions to prevent fire or explosion caused by gas or vapour		note			
L	18. The Contractor must reduce dust by periodically spraying general demolition works with water during any alteration works to masonry etc.		note			
M	19. The Contractor must take adequate precautions to protect site operatives and the general public from health hazards associated with dangerous fumes and dust arising during the course of the works		note			

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<u>(10) DEMOLITIONS AND ALTERATIONS (Cont)</u>						
A	20. The Contractor should include herein for all costs associated with the temporary support and protection of adjoining property and buildings; Contractor must repair any damage caused at his own expense; Contractor must not leave any unnecessary or unstable projections and report any exposed or apparent defects to the Employer's Representative		note			
B	21. The Contractor must illuminate and protect and dangerous openings as necessary		note			
C	22. The Contractor should include herein for all costs associated with the removal of timber infected by fungal/insect attack; the timber must be removed from the building and destroyed as soon as possible		note			
D	23. The Contractor must include herein for submitting to the Architect / Engineer, prior to commencement, the order and method of each operation. This is to include proposed methods of propping, shoring, protection of adjoining properties, areas, etc.		note			
E	24. The demolition shall be carried out without damage to adjoining properties. If such damage should occur, the Contractor shall reinstate and make good at his own expense.		note			
F	25. The Contractor shall ensure the safety of works and public during demolition works. Demolition work should be carried out so as to cause minimum inconvenience to the public and to adjoining owners.		note			
G	26. The Contractor shall include herein for clearly indicating, in writing, the manner of demolition i.e. machine, mechanical tools, piece by piece hand method etc. for each area		note			
H	27. The Contractor must note that no method of demolition which will transmit vibration into adjoining properties shall be permitted.		note			
J	28. The contractor must peruse the Architects and Engineers drawings and check all dimensions on site. No claim on the grounds of discrepancies between on site dimensions and drawings, in regards to demolition and associated works, will be entertained whatsoever.		note			
K	29. The contractor must include herein for ensuring that all services, electricity, gas, telecommunications, water, sewage, etc., are made safe prior to demolition		note			
L	30. The contractor is to report to the Architect / Engineer details of any underground chambers, vaults, walls, etc., discovered during demolition work.		note			
M	31. The contractor must prevent access to unauthorised persons to partly demolished structures and must leave the site safe at close of each days work.		note			
N	32. Care must be taken to prevent debris from overloading any part of the structure		note			

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<u>(10) DEMOLITIONS AND ALTERATIONS (Cont)</u>						
A	33. The Contractor shall ensure that the impact of the works on the surroundings are in accordance with the set maximum levels for vibration and noise as defined in the guidelines presented in the relevant codes of practice.		note			
<u>DEMOLITION & ALTERATIONS</u>						
Demolitions						
<u>Demolishing Parts of Structures</u>						
Demolition / Removal of parts of existing structure within the existing building; disposal of all materials off site; complete; all in strict accordance with the Work Requirements						
B	Demolition of walls to form new Layout at first floor level; 100mm thick wall construction; Approx 5100mm long x 3320mm high; disposal of all materials off site; make good reveals. Tendering Contractor to visit the site in accordance with the Invitation To Tender to assess the full extent of the works to be completed. No claims on the grounds of want of knowledge will be entertained whatsoever; refer to Architects Drawings 1501, 1502 & 1510 and Specification and Engineers Drawings S03, S05 & S07 and Specification	1	item			
C	Demolition of walls to form new Layout at ground floor level; 215mm thick wall construction; Approx 2400mm long x 2750mm high; disposal of all materials off site; make good reveals. Tendering Contractor to visit the site in accordance with the Invitation To Tender to assess the full extent of the works to be completed. No claims on the grounds of want of knowledge will be entertained whatsoever; refer to Architects Drawings 1501, 1502 & 1510 and Specification and Engineers Drawings S03, S05 & S07 and Specification	1	item			
D	Demolition of walls to form new Layout at first floor level; 215mm thick wall construction; Approx 6600mm long x 3320mm high; disposal of all materials off site; make good reveals. Tendering Contractor to visit the site in accordance with the Invitation To Tender to assess the full extent of the works to be completed. No claims on the grounds of want of knowledge will be entertained whatsoever; refer to Architects Drawings 1501, 1502 & 1510 and Specification and Engineers Drawings S03, S05 & S07 and Specification	1	item			
<u>Making good remaining structures</u>						
Making good finishes						
E	All works are to be carried out without damage to adjoining work and if such damage should occur in the carrying out of the demolition, the Contractor shall reinstate and make good the same at his own expense. All making good is to be executed with the best materials and workmanship with regard to the existing structure and is to be properly bonded etc to surrounding work.		note			
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<u>(10) DEMOLITIONS AND ALTERATIONS (Cont)</u>						
A	Making good existing building (structure and finishes - note new floor and ceiling finishes to existing school measured elsewhere); location: at first floor level; refer to Architects Drawings Location: Demolished wall at first floor level; 100mm thick wall construction; refer to Architects Drawings 1501, 1502 & 1510 and Specification and Engineers Drawings S03, S05 & S07 and Specification	1	item			
B	Making good existing building (structure and finishes - note new floor and ceiling finishes to existing school measured elsewhere); location: at first floor level; refer to Architects Drawings Location: Demolished wall at ground floor level; 215mm thick wall construction; refer to Architects Drawings 1501, 1502 & 1510 and Specification and Engineers Drawings S03, S05 & S07 and Specification	1	item			
C	Making good existing building (structure and finishes - note new floor and ceiling finishes to existing school measured elsewhere); location: at first floor level; refer to Architects Drawings Location: Demolished wall at first floor level; 215mm thick wall construction; refer to Architects Drawings 1501, 1502 & 1510 and Specification and Engineers Drawings S03, S05 & S07 and Specification	1	item			
<u>Support of existing structures</u>						
D	Contractor to note that the design of all temporary works is the responsibility of the Contractor and that the Contractor shall ensure that all temporary works supports etc are detailed and designed and carried out in accordance with best building practice and in a safe and secure manner.	1	item			
E	It is for the Contractor to judge whether or not any necessary removal or demolition gives rise to the need for temporary shoring or props. He shall be deemed to exercise expert judgement in this matter. The Engineer may be consulted but the decision to use or not to use shoring or props rests with the Contractor who shall be solely liable for the proper design of any shoring or props and shall be liable for any damage resulting from the failure to use temporary supports in any situation where common practice and prudent judgement indicates that they are required to be used.	1	item			
All necessary shoring and propping to existing structures; including providing and erecting; adapting as necessary; maintaining for duration required and making good all work disturbed						
F	Location: Demolished wall at first floor level; 100mm thick wall construction; refer to Architects Drawings 1501, 1502 & 1510 and Specification and Engineers Drawings S03, S05 & S07 and Specification	1	item			
G	Location: Demolished wall at ground floor level; 215mm thick wall construction; refer to Architects Drawings 1501, 1502 & 1510 and Specification and Engineers Drawings S03, S05 & S07 and Specification	1	item			
H	Location: Demolished wall at first floor level; 215mm thick wall construction; refer to Architects Drawings 1501, 1502 & 1510 and Specification and Engineers Drawings S03, S05 & S07 and Specification	1	item			
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<u>(10) DEMOLITIONS AND ALTERATIONS (Cont)</u>						
<u>Temporary Screens</u>						
A	Noise and disturbance shall be reduced to a minimum and all old materials etc, shall be regularly sprinkled with water so as to keep down dust. All proper screens and protection shall be provided to the satisfaction of the Architect. The Contractor must allow here for 2.4m high continuous timber hoardings around all working areas at all times.	1	item			
B	The Contractor is to ensure that all areas under where existing roof coverings are removed are subjected to minimum possible exposure time to the elements. Temporary weatherproof coverings are to be employed where considered necessary. Any damage caused due to insufficient protection being provided will be made good at the Contractor's own expense.	1	item			
Erect dust proof hoarding between working area and existing internal areas. A detailed method statement is to be provided outlining how the existing building is to be maintained in operation and comply with Health and Safety requirements while the new works are being carried out						
C	Location: Demolished wall at first floor level; 100mm thick wall construction; refer to Architects Drawings 1501, 1502 & 1510 and Specification and Engineers Drawings S03, S05 & S07 and Specification	1	item			
D	Location: Demolished wall at ground floor level; 215mm thick wall construction; refer to Architects Drawings 1501, 1502 & 1510 and Specification and Engineers Drawings S03, S05 & S07 and Specification	1	item			
E	Location: Demolished wall at first floor level; 215mm thick wall construction; refer to Architects Drawings 1501, 1502 & 1510 and Specification and Engineers Drawings S03, S05 & S07 and Specification	1	item			
Alterations						
<u>Cutting</u>						
Cutting opening in existing external wall to form new opening; 1200mm wide x 1200mm high opening in existing 330mm thick external block wall; in order to create new opening; include new structural head, associated padstones, beams, saw cutting, new cill to match existing, making good to reveals etc; disposal of all material; making good the existing structure and finishes of the adjoining existing walls to match existing; refer to Architects Drawings 1501, 1502 & 1510 and Specification and Engineers Drawings S03, S05 & S07 and Specification						
F	Generally; making good structure; making good finishings	2	nr			

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<u>(10) DEMOLITIONS AND ALTERATIONS (Cont)</u>						
Cutting opening in existing external wall to form new opening; 1810mm wide x 2080mm high opening in existing 330mm thick external block wall; in order to create new opening; include new structural head, associated padstones, beams, saw cutting, new cill to match existing, making good to reveals etc; disposal of all material; making good the existing structure and finishes of the adjoining existing walls to match existing; refer to Architects Drawings 1501, 1502 & 1510 and Specification and Engineers Drawings S03, S05 & S07 and Specification						
A	Generally; making good structure; making good finishings	1	nr			
Cutting opening in existing external wall to form new opening; 1810mm wide x 2140mm high opening in existing 330mm thick external block wall; in order to create new opening; include new structural head, associated padstones, beams, saw cutting, new cill to match existing, making good to reveals etc; disposal of all material; making good the existing structure and finishes of the adjoining existing walls to match existing; refer to Architects Drawings 1501, 1502 & 1510 and Specification and Engineers Drawings S03, S05 & S07 and Specification						
B	Generally; making good structure; making good finishings	1	nr			
Cutting opening in existing external wall to form new opening; 2400mm wide x 2500mm high opening in existing 330mm thick external block wall; in order to create new opening; include new structural head, associated padstones, beams, saw cutting, new cill to match existing, making good to reveals etc; disposal of all material; making good the existing structure and finishes of the adjoining existing walls to match existing; refer to Architects Drawings 1501, 1502 & 1510 and Specification and Engineers Drawings S03, S05 & S07 and Specification						
C	Generally; making good structure; making good finishings	2	nr			
D	Cut back existing roof to allow abutment with new extension; include making good to existing etc including waterproofing and flashings; disposal of all material; making good the existing structure and finishes of the adjoining existing roof to match existing; refer to Architects Drawing 1510 and Specification and Engineers Drawing S07 and Specification					
E	Generally; making good structure; making good finishings	13	m			
F	Enlarge existing opening in existing external wall to form opening; enlarge to form opening Approx 2960mm wide x 950mm high (following removal of 2nr windows - measured elsewhere) in existing 330mm thick external block wall; include new structural head, associated padstones, beams, saw cutting, making good to reveals etc; disposal of all material; making good the existing structure and finishes of the adjoining existing walls to match existing; as per Architects Drawings 1501, 1502 & 1510 and Specification and Engineers Drawings S03, S05 & S07 and Specification					
G	Generally; making good structure; making good finishings	2	nr			

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<u>(10) DEMOLITIONS AND ALTERATIONS (Cont)</u>						
<u>Removing</u>						
Fittings and Fixtures						
A	Existing Internal single door and frame; include all fittings, architraves, liners etc; diposal of all material off site	2	nr			
B	Existing Internal double doors and frame; include all fittings, architraves, liners etc; diposal of all material off site	1	nr			
C	Existing External Door; Approx size 1875mm x 2250mm, complete; include all fittings, frames etc; disposal off site and making good existing structure; ensure careful removal	1	nr			
D	Existing Windows, complete; Approx size 900mm x 980mm high overall; include all fittings, frames etc; disposal off site and making good existing structure to receive new; ensure careful removal	2	nr			
E	Existing Windows, complete; Approx size 1360mm x 980mm high overall; include all fittings, frames etc; disposal off site and making good existing structure to receive new; ensure careful removal	8	nr			
F	Existing fascia; carefully remove; prepare roof to receive new finishes	14	m			
G	Existing soffitt; carefully remove; prepare roof to receive new finishes	14	m			
H	Miscellaneous fixtures and fittings not measured above to certain locations within existing building to allow new floor finishes/reconfiguration; disposal off site (Tendering Contractor to visit site); disposal of all materials off site; prepare walls to receive new finishes (elsewhere measured)	1	item			
J	Miscellaneous fixtures and fittings not measured above to certain locations within existing building to allow new floor finishes/reconfiguration; store on site and re-fit upon completion (Tendering Contractor to visit site); disposal of all materials off site; prepare walls to receive new finishes (elsewhere measured)	1	item			
<u>Removal; Plumbing and Engineering Installations</u>						
K	Existing Mechanical Services	1	item			
L	Existing Drinking Fountains; refer to Architecdts Drawing 1510; make good wall	2	nr			
M	Existing Electrical Services	1	item			
Finishes						
N	Existing external render wall finishes to certain locations within building; disposal of all materials off site; prepare walls to receive new finishes; including any dubbing out; exceeding 300mm wide	121	m2			
P	Existing gutters; carefully remove; prepare roof to receive new finishes	14	m			
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<u>(10) DEMOLITIONS AND ALTERATIONS (Cont)</u>					
A	Existing downpipes; carefully remove; prepare walls to receive new finishes	6	m		
B	Existing floor finishes to certain locations within existing building; disposal of all materials off site; prepare floors to receive new finishes, include all necessary grinding etc required - shotblasting or equivalent	158	m2		
C	Existing ceiling finishes to certain locations within existing building; disposal of all materials off site; prepare ceilings to receive new finishes	158	m2		
D	Remove & reinstate existing ceiling finishes to certain locations within existing building to allow for M&E service runs; Safely remove and store in a safe location ready for reinstatement; Reinstate after M&E works are complete	130	m2		
<u>Building up</u>					
Openings or recesses in existing structures					
E	Build up existing ope in existing external block Wall (Following removal of windows - measured elsewhere), 330mm thick, approx 1360mm wide x 980mm high; to include tying into existing complete; make good all surrounding areas; as per Architects Drawings 1501, 1502 & 1510 and Specification and Engineers Drawings S03, S05 & S07 and Specification	6	nr		
F	Build up existing ope in existing external block Wall (Following removal of external door - measured elsewhere), 330mm thick, approx 1875mm wide x 2250mm high; to include tying into existing complete; make good all surrounding areas; as per Architects Drawings 1501, 1502 & 1510 and Specification and Engineers Drawings S03, S05 & S07 and Specification	1	nr		

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<u>(10) DEMOLITIONS AND ALTERATIONS (Cont)</u>					
COLLECTION					
Page No. Existing Building/1					
Page No. Existing Building/2					
Page No. Existing Building/3					
Page No. Existing Building/4					
Page No. Existing Building/5					
Page No. Existing Building/6					
Page No. Existing Building/7					
Page No. Existing Building/8					
Page No. Existing Building/9					
(10) DEMOLITIONS AND ALTERATIONS Carried to Summary					
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<u>(22) INTERNAL WALLS</u>						
<u>SECTIONAL COMPLETION</u>						
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item			
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item			
<u>BRICKWORK AND BLOCKWORK</u>						
Blockwork						
<u>Fair Faced Blocks. Fine texture paint grade concrete blocks to internal walls. Manufacturer: Roadstone or equivalent. Standard: To BS EN 771-3. Compressive strength 7.5N/mm2. Freeze/thaw resistance: Frost resistant. Thermal conductivity: I.S. EN 1745 Masonry and masonry products-Methods for determining design thermal values . table A3. Thermal resistance: Tolerance category: D2. Reaction to fire: Class A1 to BS EN 13501-1; all as per Architects and Engineers Drawings and Specification Pr 20 93 52 01</u>						
Walls						
C	215mm thick; collar bonding	42	m2			
Labours						
D	On blockwork	1	item			
<u>Extra over</u> for special blocks						
E	Fairfaced Concrete U-blocks at top of internal Ground Floor Walls; Blocks: to IS EN 771-3:2011+A1:2015; Category: Category 1; Manufacturer: to be approved before placing order; Type: U-block; Average compressive strength (min): 7.5N/mm2; Work sizes: 440 x 215 x 215mm; Mortar: Strength Class M6 as section Z21; Mix: 1:1:5-6 group 1; Bond: half lap stretcher; as per Engineers Structural Specification F10: 357 include for reinforcement (measured elsewhere) and concrete filling in accordance with Engineers Drawings; complete; all as per Engineers Drawing S010	10	m			
F	Fairfaced Concrete U-blocks for Lintels; Blocks: to IS EN 771-3:2011+A1:2015; Category: Category 1; Manufacturer: to be approved before placing order; Type: U-block; Average compressive strength (min): 10.5N/mm2; Work sizes: 440 x 215 x 215mm; Mortar: Strength Class M6 as section Z21; Mix: 1:1:5-6 group 1; Bond: half lap stretcher; as per Engineers Structural Specification F10: 357 include for reinforcement (measured elsewhere) and concrete filling in accordance with Engineers Drawings; complete	8	m			

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<u>(22) INTERNAL WALLS (Cont)</u>						
<u>Bonding to other work</u>						
Vertical; masonry to concrete surfaces; comprising proprietary stainless steel wall ties at 225mm vertical centres with debonding sleeve at movement joint locations; 10mm flexcell to form masonry movement joints, polysulphide seal to both sides of joint; all as per Engineers Drawing S010 and Specification						
A	Vertically; to 215mm thick walls	19	m			
<u>Bonding to other work; new block wall to existing block wall; Pocket requirements- Width: Full thickness of new wall. Depth (minimum): 100 mm. Pocket vertical spacing - Brick to brick: 4 courses high at 8 course centres, Block to block: Every other course. Pocket joints: Fully filled with mortar: as per manufacturers information and to be fitted to manufacturers instructions; all in strict accordance with manufacturer's recommendations and Engineer's Drawings and Specification</u>						
<u>Bonding to other work; new blockwork to existing blockwork</u>						
B	Vertically; 215mm thick walls	19	m			
Ancillaries to Brickwork/Blockwork						
<u>Joint Reinforcement</u>						
Joint reinforcement for blockwork walls; blockwork bed joint reinforcement; stainless steel wire weld type. Product reference: Ancon/AMR/S/D5.0/ W60-175 or equivalent; no allowance in measurement for laps; Stainless steel to external leaf brick/block work, Galvanised steel to internal leaf blockwork as per Engineer's Drawings and Specification F30 270						
C	To suit 215mm thick collar jointed internal blockwork	94	m			
<u>Designed Joints</u>						
MOVEMENT JOINTS WITH SEALANT - FIRE RATED; Joint preparation and sealant application: As section Z22; Filler: Closed cell polyethylene foam; Thickness: To match design width of joint; Manufacturer: contractor to propose; Placement: Build in as work proceeds with no projections into cavities and to correct depth to receive sealant system; Sealant: Designation: ISO 11600-F-20HM; Product reference: n/a; Colour: To match adjoining blockwork; all in strict accordance with manufacturer's recommendations Architects and Engineer's Drawings and Specification						
D	215mm thick walls; generally	7	m			

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<u>(22) INTERNAL WALLS (Cont)</u>						
<u>Sundries</u>						
Fireproofing						
A	Firestopping; filling any gaps around pipework wider than 25mm with Firepro Intumescent sealant; to be fitted in accordance with manufacturer's recommendations; all as per Architects Drawings 5.20, 5.21 and Specification	1	item			
B	Firestopping; cable trays to be fitted with Firepro Multicable Firestop; to be fitted in accordance with manufacturer's recommendations; all as per Architects Drawings 5.20, 5.21 and Specification	1	item			
C	Firestopping; filling any gaps between fire door frames and fire rated walls and gaps between walls and doors of any room with acoustic sensitivity with Fire Pro Fire and Acoustic Foam; to be fitted in accordance with manufacturer's recommendations; all as per Architects Drawings 5.20, 5.21 and Specification	1	item			
D	Firestopping; filling any gaps in floors at vertical service penetration, sealed with 60 minute fire rated flooring compound (integrity and insulation) with smooth trowel finish. Load bearing, non-shrinking with airtight seal; all as per Architects Drawings 5.20, 5.21 and Specification	1	item			
E	Firestopping; filling any gaps in walls at high level for service penetrations, sealed with 2 no layers of high density fibreboard coated with fire rated acrylic. All fibres exceed 3 microns thickness and 200 microns in length. Non hazardous. All joints sealed with intumescent sealant and panel finished with fibre retardant aqueous polymer emulsion; all as per Architects Drawings 5.20, 5.21 and Specification	1	item			

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<u>(31) EXTERNAL WALL COMPLETIONS</u> <u>SECTIONAL COMPLETION</u> Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections <u>CONCRETE WORK</u> Precast Concrete <u>Concrete sills; Standard: To BS 5642-1; Finish: Smooth; Execution: Pr 25 93 52/610 Installing sills in mortar bed; as per Architects Specification Pr 25 93 52 15 and Drawing 7003.</u> Cills Cill with upstand & drip; min overhang 50mm <u>WOODWORK</u> Boarding and Second Fixings <u>Window Boards - General requirements: Ac 05 50 91/340 Timber sourcing; Manufacturer: Medite FR Clear or equivalent; Fire rating: To class 0 as defined in Building Regulations; Class: Class E1 formaldehyde content; Moisture content at time of fixing: 9-13%; Profile: As per Architects Details; Finished size: As per Architects Details; Finish as delivered: Sanded; Execution: Pr 35 90 43/606 Installing wood mouldings and trims; as per Architects Specification Pr 35 90 43 87 & Drawing 7003</u> Second Fixings; Window Boards 320mm x 20mm thick; square edges; fixing to and including 44 x 18mm softwood shims/timber battens mechanically fixed to blockwork	1 1 10 10	item item m m

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<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u>						
<u>METALWORK</u>						
Non-Structural						
Description: The proposed window system is the APA ST70HI high performance casement window system, or equal approved; Supply and fit of aluminium alloy windows are to be in accordance with BS4873: 2009; Specification for Aluminium Alloy Windows. The window supplier shall submit evidence that the windows offered conform to the standard; External window & door systems must comply with the Department of Education technical guidance document TGD 21-1 https://www.education.ie/en/School-Design/Technical-Guidance-Documents/. For windows that are intended to be openable, the opening sashes however designed shall move freely and smoothly without hindrance throughout their intended range of movement. The range shall be restricted to an opening for child safety and to ensure adequate free openable area; Manufacturer: Submit proposals; Dimensions and configurations: Refer to Architects drawings; Product performance; Weather performance; Air permeability: EN 12207:2000; Class 3 at 600Pa. or better; Watertightness: BS EN 12208:2000, Test Class 9A at 600Pa. or better; Resistance to wind load: IS EN 12211: 2000, P1= 1600Pa., P2 = 800Pa., P3 = 2400Pa; Environmental; Background ventilation: 650 mm2/m2 of floor area. Where indicated on window schedule, each window shall incorporate a ventilator and shall be polyester powder coated offering a single colour facility to match the window profiles. They should be fitted with an external, aluminium hood. The glazed in vents should be fitted with rod control. Each vent must be capable of providing a minimum free airflow in accordance with Part F of the current Building Regulations. Vents shall be tested to BS6375 Part 1. Background ventilation calculations must be provided with the shop drawings, in line with Department of Education guidance; Acoustic performance rating: BS EN ISO 140. The Rw sound reduction index for the Glazing should not be less than 27db; Thermal; Whole window U-value: 1.4 W/m2K; Frame; Profile: All profiles to be extruded from aluminium alloy 6063 T6, to BS EN 12020-2; 201601 / BS EN 755-9; 201601 and with polyamide thermal break sections manufactured from glass reinforced nylon sections, rigid foam core capable of withstanding temperatures in excess of 200 °C. When						
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<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u> ancillary components such as sills, couplings etc. are formed from sheet materials they shall be fabricated from designated alloys 1200, 3103, 5005 or 5251 conforming to BS EN 485-2:1995 in temper suitable for the particular type of application and degree of forming to be adopted. The aluminium profiles used in the construction of the frames excluding glazing beads, nibs, interlocks and similar features shall be, at minimum tolerance, not less than 1.2 mm thick; <u>Opening Sections:</u> For windows that are intended to be openable, the opening sashes however designed shall move freely and smoothly without hindrance throughout their intended range of movement. The range shall be restricted to an opening for child safety and to ensure adequate free openable area. All opening sections to be top hung and open out; <u>Frame joints:</u> Joints in frames shall be made either by welding or by mechanical means (e.g. cleating and screwing) and shall have flush, stepped or lapped surfaces. For flush joints formed by mechanical means, any deviation from the same plane shall be within the limits set by the use of extrusion tolerances given in BS EN 755-9. Welded joints shall be cleaned off smooth on surfaces that are exposed when the window is in the closed position and where the joints would otherwise project into the glazing space. <u>Sealing of joints</u> (i) Any frame joints, including those of the thermal barrier or cladding, which would otherwise cause loss of watertightness and/or increase of air permeability, should be sealed with sealant or by other means to achieve the performance required. (ii) Deviations in the plane of flush joints (iii) No allowance is given for assembly and machining tolerances. Therefore, to achieve the requirements specified it can be necessary to use extrusions with closer tolerances than those given in BS EN 755-9. In practice, to avoid sharp exposed edges etc., manufacturers might need to agree tolerances with the extrusion supplier. It can be necessary to fit "L" shaping backing plates (chevrons) to flanges of mitred cornered frames to correct misalignment due to angular tolerances.; <u>Finish as delivered;</u> <u>Coating:</u> Powder coating to BS EN 12206-1. A Polyester Powder coating Interpon D or Syntapulvin (Not a mixture of both) applied by Qualicoat approved applicator using a standard RAL colour in matt finish to EN12206-1 (2004). Prior to the application of the polyester power coating the aluminium profiles are to be pretreated using an 8-stage process of acid etching, Chrome or Chrome Free process to Qualicoat approval and water rinsing. A guarantee of 25 years must be applied for in advance of starting the project on site. It is noted that this period of time is subject to the location or proximity of the school to marine environment. Therefore 'Architectural powder coating to Qualicoat 'Seaside' standard from approved supplier' is required; <u>Colour:</u> Polyester Powder Coating in selected RAL colour. To be agreed with Architect; <u>Glazing or infill;</u> <u>Standard:</u> Glazing to BS 6262-1:2005. All safety Glazing to conform to 6262-4. Glazing to conform to the guidelines set out in this standard. Thermal transmittance for standard glazing shall be no greater than - 1.2 W/m²K = Centre pane U value. All units to be 24/28mm in thickness		
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<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u> <u>. Typical centre pane make up: 4mm glazing - 16mm argon filled cavity (90%) - 4mm soft coat thermal glazing. Where safety glazing is required the supplier shall submit calculations to show an overall Uvalue of 1.2 W/m2K. The spacer used to separate the glazing should be a warm edge spacer bar and the space between the panes filled with Argon gas. A minimum requirement for the U-value of the glazing for a window Design size: 1.2wide x 1.5m high top hung opening sash full size shall be 1.4W/m2K The glazing light transmittance factor shall not be less than 70%. All Glass to be hermetically sealed and Kite mark certified; Spandrel Panels: Pilkington Spandrel Glass Enamelled or similar approved. Double glazed units to achieve required U-Value. Colour to be agreed with Architect. Insulating glass units shall conform to BS 5713; Requirements: DOP's required. Ancillary Certificates required; Product Data: The contractor is required to submit to the Employers Representative (Lead Architect) manufacturer's product data for all materials in this specification; Shop Drawings: The contractor is required to submit to the Employers Representative (Lead Architect) profiles, accessories, location, and dimensions. Rapid and background ventilations calculations must be provided with the shop drawings, in line with Department of Education guidance; Site Dimensions: The dimensions provided on the tender documents are indicative and should only be used for pricing.</u> <u>It is the Contractor's responsibility to produce the dimensions with which the windows will be manufactured to; Samples: Manufacturer to provide upon request; sized to represent material adequately; Contract Closeout: The contractor is required to submit to the project supervisor the window manufacturer's warranty prior to the contract closeout; Hardware: BS EN 1670: 1998 Building Hardware. Corrosion resistance. Requirement and test method. All Ironmongery to comply with the requirements of DoES TGD 021-1:Guidance on the Specification of Windows. Multipoint single lever locking system is to be incorporated in all opening sashes. Where non-metallic components are incorporated, the material and specification for these should be selected according to the required function; Bearing devices: Metallic materials used for bearing devices and hardware shall have at least the equivalent corrosion resistance to BS EN 1670:1998, class 3 when subjected to a neutral salt spray test as specified in BS EN 1670. NOTE 1: For environments in very polluted localities such as those subject to combinations of industrial and coastal pollution, BS EN 1670:1998, class 4 should be used. NOTE 2 Requirements for hardware materials are specified in pr EN 131261). These requirements apply to both metallic and non-metallic materials; Fixing features: When the completed window is tested in accordance with BS 6375-1 and BS 6375-2, there shall be no degradation of the sealing or the operational function of the window due to failure of the sealing materials. NOTE: Materials should be able to withstand stresses during assembly, transportation, installation and operation of the window; Execution: Pr 30 59 98/635 Fixing of aluminium frames; as per Architects Specification Ss 25 30 95 26</u> Composite items; Windows						
A	Window Type 9 - overall size (including frame) 1200mm x 980mm high; comprising 1nr hinged glazed unit; 1nr fixed glazed unit; complete; to Architect's Window Schedule	2	nr			

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<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u>					
A	Window Type 12 - overall size (including frame) 2980mm x 980mm high; comprising 4nr hinged glazed unit; complete; to Architect's Window Schedule	2	nr		
B	<u>Extra over</u> for Permavent background ventilator	4	nr		
C	Window Type 13 - overall size (including frame) 1450mm x 945mm high; comprising 1nr hinged glazed unit; complete; to Architect's Window Schedule	1	nr		
D	<u>Extra over</u> for Permavent background ventilator	4	nr		
E	<u>Extra over</u> for aluminium louvres; Description: Manufacturer: Window System Supplier; Product reference: Aluminium PPC Louvre Blades; Material: Aluminium; Size 450mm wide x 845mm high Finish as delivered: Powder-coated; Fire performance: Not applicable; Number of louvre banks: One; Louvre blade pitch and angle: Pitch: 75 mm; Blanking panels: Manufacturer's standard; Accessories/ other requirements: Removable section for plant access Stainless steel bird mesh; Fixing: Fixed in Window System; as per Architects Specification and Drawing	1	nr		
<u>PAINTING & DECORATING</u>					
Painting					
<u>Waterborne finishes to internal joinery; Description: Dulux Easycare Satinwood paint to all Internal MDF and non-resinous softwood / hardwood; Manufacturer: Dulux Paints Ireland or equivalent; Product reference: Dulux Easycare Satinwood (satin finish); Coverage: 12m2/litre; Preparation: To get the best results with Dulux Easycare Satinwood, make sure surfaces to be painted are sound, clean, dry (new surfaces particularly must be fully dry); Remove all loose and defective paint; Colour: to be agreed; Execution: Pr 35 31 22/703 Applying coating Internal woodwork; as per Architects Specification Pr 35 31 22 95</u>					
General Surfaces					
F	Girth exceeding 300mm; Window Boards, reveals, head liners etc.	9	m2		

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<u>(32) INTERNAL WALL COMPLETIONS</u>			
<u>SECTIONAL COMPLETION</u>			
Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever		1	item
Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections		1	item
<u>NOTES</u>			
1. The Tenderer is advised that all measurements and descriptions shall be read in conjunction with the Architect's Drawings and Specification			note
2. For details of the nature and extent of the works to be carried out in this section, the Tenderer's shall refer to all Architect's Drawings and Specifications.			note
3. The Tenderer shall fully familiarise himself, both from the drawings and site, with the structure, extent and adequacy of supports being provided and shall include for any additional supports as may be necessary to complete this section of the works.			note
4. All drawings must be checked by the Contractor on site, the Design Team must be informed of any discrepancies (should they arise) prior to commencement of the works			note
5. For details of the nature and extent of the works to be carried out in this section, the tenderers shall refer to all Architects and Engineers tender drawings accompanying this tender document			note
6. The Tenderer is to agree exact site dimensions for openings and programming issues. No claims for additional costs will be entertained from failure to do so.			note
7. All doors shall be fixed into structural opes with and including all necessary fixings			note
8. The Tenderer should include all Acoustic seals in accordance with the Works Requirements			item
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(32) INTERNAL WALL COMPLETIONS (Cont)						
WOODWORK						
Boarding and Second Fixings						
MDF Architraves - General requirements: Ac 05 50 91/340 Timber sourcing; Manufacturer: Medite FR Clear or equal approved; Class: To BS EN 622-5, Class E1 formaldehyde content; Profile: As per architects drawings; Finish: Primed and painted with selected Dulux Trade Satinwood; Colour: To be agreed with architect; Execution: Pr 35 90 43/606 Installing wood mouldings and trims; as per Architects Specification Pr 35 90 43 58 Second Fixing; Architraves						
A	75mm wide x 18mm thick; fixed to blockwork; to jambs and heads of Internal Doors; all in strict accordance with Drawings 7004 - 7005	49	m			
Wood Quadrant Beading - Manufacturer: Medite FR Clear or equal approved; Standard: To BS EN 942; Fire rating: To class 0 as defined in Building Regulations; Class: To BS EN 622-5, Class E1 formaldehyde content; Moisture content at time of fixing: 9#13%; Profile: As per Architects details; Finished size: As per Architects details; Finish as delivered: Sanded; Execution: Pr 35 90 43/606 Installing wood mouldings and trims; as per Architects Specification Pr 35 90 43 87 Second Fixing; Architraves						
B	18mm wide x 18mm thick; fixed to blockwork; to jambs and heads of Internal Doors / Screens; all in strict accordance with Drawings 7004 - 7005	49	m			

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(32) INTERNAL WALL COMPLETIONS (Cont)						
Composite Items						
<u>Wood Doorsets; Description: Factory manufactured solid core doorsets. All doorsets to be laminate faced with factory primed and painted hardwood slips, framing, architraves and trims finished prior to arrival on site; Third party accreditation: European recognised certification, Trada, Certifire or Equivalent; Standard: Internal non-fire rated doorset third party accredited. Internal fire rated doorset to BS 8214 and third party accredited; Wood in joinery standard: To BS EN 942.; Configuration: Varies - Refer to Architects internal door schedule; Doorset size: Varies - Refer to Architects internal door schedule; Format: Varies - Refer to Architects internal door schedule; Performance; Fire performance; Fire integrity: To BS 476-22, 30 minutes. To BS 476-22, 60 minutes. Varies - Refer to Architects internal door schedule; Fire insulation: To BS 476-22, 30 minutes. To BS 476-22, 60 minutes. Varies - Refer to Architects internal door schedule; Smoke control: To BS EN 13501-2, class Sa. All fire doors require smoke control; Reaction to fire: To BS EN 13501-1, class B-s3, d2 or better; Acoustic performance: To BS EN ISO 10140-2, sound reduction index Rw 30 dB minimum; Strength and durability: To BS EN 1192, Class 3; Frame; Material: Hardwood; Species: Iroko; Appearance class: J40; Perimeter seals or inserts: Acoustic seals. Fire and smoke seal; Finish: Full paint finish; Colour: To be agreed with ER;</u> <u>Frame accessories: Refer to Architects door and ironmongery schedules; Door leaf; Thickness: 44mm for non-fire rated doors, 56mm for fire rated doors; Core: Solid core. Appearance class: J40. Panel details: Refer to Architects door schedule. Facings: VGS grade laminate. Lippings: Hardwood, painted. Perimeter seals: Acoustic, Fire and smoke; In accordance with Architects door schedule; Finish: sanded sealed and varnished. Free from splinters; Glazing: Type: Refer to Architects door schedule. All glazing to be clear. Fire-resisting safety glazing in accordance with BS 6262-4. Clear single safety glazing in accordance with BS 6262-4. All glazing to display stamp for Kite mark certification; Manifestation: Refer to Architects door schedule; Beading; Material: Softwood for non-fire rated doors. Hardwood for fire rated doors. In accordance with manufacturers third party certification; Fixing: In accordance with manufacturers third party certification; Door accessories: Refer to Architects door & ironmongery schedules; Planted stops; Wood species: Iroko; Appearance class: J40; Finish: Full paint finish; Colour: To be agreed with ER; Hardware: Refer to Architects door & ironmongery schedules; Architraves; Material: Medite Clear MDF; Wood appearance class: To BS EN 942, Class J40; Finish: Primed ready for site finish; Accessories: Refer to Architects door & ironmongery schedules; Execution: Pr. 30 59 23/630 Installing hardware; Pr. 30 59 23/640 Workmanship in joinery; all in accordance with Architect's Specification Pr. 30 59 24 97 and Ss 25 30 20 25.</u> Door Type 2.3; Single door & Screen and Associated Frame Sets; non-fire rated						
A	Overall opening size 1810mm wide x 2145mm high; comprising of 1nr single door, incorporating 1nr vision panel size 210mm wide x 1660mm high; 1nr side screen incorporating 1nr glazed panel; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	2	nr			

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<u>(32) INTERNAL WALL COMPLETIONS (Cont)</u>					
Door Type 2.1; Single door & Screen and Associated Frame Sets; 30min fire rated					
A	Overall opening size 1575mm wide x 2145mm high; comprising of 1nr single door, incorporating 1nr vision panel size 210mm wide x 1660mm high; 1nr side screen incorporating 1nr glazed panel; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	1	nr		
Door Type 7.2; Double door and Associated Frame Sets; 30min fire rated					
B	Overall opening size 1810mm wide x 2145mm high; comprising of 2nr single doors, incorporating 2nr vision panel size 200mm wide x 1660mm high; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	2	nr		
Door Type 1.3; Single door and Associated Frame Sets; 60min fire rated					
C	Overall opening size 1125mm wide x 2145mm high; comprising of 1nr single door; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	1	nr		
Door Type 3.4; Double door and Associated Frame Sets; 60min fire rated					
D	Overall opening size 2025mm wide x 2145mm high; comprising of 2nr single door, incorporating 2nr vision panel size 200mm wide x 1660mm high; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	1	nr		
Door Type 4.2; Double door and Associated Frame Sets; 60min fire rated					
E	Overall opening size 1810mm wide x 2385mm high; comprising of 2nr single door, incorporating 2nr vision panel size 200mm wide x 1660mm high; 1nr panel 1810mm wide x 240mm high; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	1	nr		
Ironmongery, Accessories And Sundries					
<u>Supply and fix the following ironmongery items; Manufacturer: Contractor to submit proposals for approval; including all necessary fixings; fixing in strict accordances with the Architects specification and manufacturer's printed instructions; refer to Ironmongery Schedule</u>					
Ironmongery; to doors					
F	Electrical provisons and wiring to be provided by the Electrical Contractor	1	note		
G	Ironmongery Set KC1003.1	1	nr		
H	Ironmongery Set KC1109.1	2	nr		
J	Ironmongery Set KC2002.1	1	nr		
K	Ironmongery Set KC2443.1	2	nr		
L	Ironmongery Set KC2703.1	2	nr		
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<u>(32) INTERNAL WALL COMPLETIONS (Cont)</u>						
<u>Sealing gap between door frames and blockwork walls; gap to be filled to full width of frame with ram packed mineral wool; all in strict accordance with Architect's Drawing 7004</u>						
Sundries; Seals						
A	10mm wide	49	m			
<u>Sealing gap between door frames and blockwork walls; gap to be sealed on both sides with non-hardening sealant; all in strict accordance with Architect's Drawing 7004</u>						
Sundries; Seals						
B	10mm wide	97	m			
<u>Acoustic seal between door & door frames; Batwing perimeter seal to frame with threshold seal to door base (measured elsewhere); all in strict accordance with Architect's Drawing 7005</u>						
Sundries; Seals						
C	Batwing acoustic seal	49	m			
<u>Acoustic seals to internal doors; Threshold seal to bottom of doors; fire rated acoustic drop seal (max drop 15mm); fitted in accordance with manufacturer's instructions; all in strict accordance with Architect's Drawing 7005</u>						
Sundries; Seals						
D	Generally	14	m			
<u>PAINTING & DECORATING</u>						
Painting						
<u>Waterborne finishes to internal joinery - Description: Dulux Easycare Satinwood paint to all Internal MDF and non-resinous softwood/hardwood; Manufacturer: Dulux Paints Ireland, Commons Road, Cork, Ireland Tel. Number:+353 (0) 21 4220222; Product reference: Dulux Easycare Satinwood (satin finish); Coverage: 12m#/litre; Preparation: To get the best results with Dulux Easycare Satinwood, make sure surfaces to be painted are sound, clean, dry (new surfaces particularly must be fully dry). Remove all loose and defective paint; Colour: to be agreed; Execution: Pr 35 31 22/703 Applying coating Internal woodwork; as per Architects Specification Pr 35 31 22 95</u>						
General Surfaces						
E	Girth not exceeding 300mm; Architraves, Quadrant beading	97	m			
F	Girth exceeding 300mm; Woodset doors	60	m2			

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<u>(42) INTERNAL WALL FINISHES</u>						
<u>SECTIONAL COMPLETION</u>						
Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever					1	item
Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections					1	item
FLOOR, WALL & CEILING FINISHES						
In-situ Finishes						
<u>Ss 32 46 65 55 Multicoat plaster systems; Description: Plaster system to interior blockwork; System performance: Ss 32 46 65/210 Flatness; Ss 32 46 65/212 Smoothness; Ss 32 46 65/220 Continuity of coats; System manufacturer: Gyproc Saint-Gobain or equivalent; First undercoat - Material: Pr 35 31 64 35 Gypsum plasters Gyproc Hard Coat / Base Coat - Lightweight gypsum plaster; 11mm thick; Final coat - Material: Pr 35 31 64 35 Gypsum plasters Gyproc Skim Coat / Finish Coat - Gypsum plaster skim; 2mm thick; Beads: Pr 35 90 07 63 Plaster beads; Mouldings - Type: All exposed 90 degree corners to be rounded to a radius od 25mm and propvided with a stainless steel mesh extending to 100mm past the curvature of the wall; System completion: Ss 32 46 65/895 Verification of performance</u>						
Walls						
Exceeding 300mm wide; to blockwork					121	m2
PAINTING AND DECORATING						
Painting						

				€	c
(42) INTERNAL WALL FINISHES (Cont)					
Waterborne mid-sheen finishes Internal Plastered Walls. Manufacturer: Dulux Trade or equivalent. Product reference: Diamond Eggshell (mid sheen finish) or equivalent. Film Thickness will be dependent on the coverage achieved. Wet: 63 microns. Dry: 23 microns. Composition (nominal). Pigment: Lightfast Pigments. Binder: Acrylic Copolymer Emulsion. Solvent: Water. Volume Solids: White - 37% (nominal). Other colours will vary Coverage: 16 m2/litre. Colour: to to be confirmed. Application:: STIR THOROUGHLY BEFORE USE. Seal new or bare surfaces with a thinned first coat of Dulux Trade Diamond Eggshell (up to 1 part clean water to 10 parts paint). Finish: 2 full coats of Dulux Trade Diamond Eggshell. Preparation: Make sure surfaces to be painted are sound, clean, dry (new surfaces particularly must be fully dry) and free from all defective or poorly adhering material such as dirt, grease and wax. New or bare surfaces should be primed with an appropriate Dulux Trade primer. Thoroughly rub down previously painted surfaces using 'wet flattening' methods where possible, then wipe off with a damp, lint free cloth. Special precautions should be taken during surface preparation of pre-1960s paint surfaces over wood and metal as they may contain harmful lead. Treat knots with a suitable knotting solution. Any surface defects should be filled with the appropriate Polycell Trade Polyfilla; all in strict accordance with the Architect's Drawings and Specification Pr_35_31_22_98					
Walls					
Exceeding 300mm wide	220	m2			
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				To Collection €	

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(42) INTERNAL WALL FINISHES (Cont)					
COLLECTION					
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Page No. Existing Building/29					
(42) INTERNAL WALL FINISHES Carried to Summary					
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					€	c
<u>(43) FLOOR FINISHES</u>						
<u>SECTIONAL COMPLETION</u>						
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item			
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item			
<u>NOTES</u>						
C	1.The Tenderer is advised that the following measurements and descriptions are to be read in conjunction with the Architects and Structural Engineers Drawings and Specifications		note			
D	2. The tenderer is referred to the Architect's Drawings and Specification which accompany this document. All descriptions shall be read in conjunction with this information and included in the rates.		note			
E	3. Power floated and screeded concrete floor slabs are to be finished to a sufficient level to obviate the necessity for the spreading of levelling compounds for all floor coverings measured within this element. Should it arise that it becomes necessary to spread levelling compounds as a preliminary to laying the floor finishes, the cost of this work will be deemed to be included in the prices against the various items of work of floor finishes		note			
F	4. The Contractor is to include in his tender for properly curing and drying out concrete ground floor slabs within the limits of the building programme to attain minimum moisture content as recommended by the manufacturers of the relevant sheet and brush applied floor coverings measured within this element; if these moisture levels are not achieved at the time of laying, then the contractor will be required to apply an approved patent trowel applied damp proof membrane over the slab and patent self levelling screed over same at his own expense		note			
G	5. The Contractor is solely responsible for ensuring that the concrete floor slabs are sufficiently dried out before any floor finishes are laid		note			
H	6. Works involved with achieving required moisture content in concrete floors prior to laying floor finish; all moisture content level readings to be 75% RH or less		note			
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Existing Building/31						

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(43) FLOOR FINISHES (Cont)					
WOODWORK					
Boarding and Second Fixings					
Medium density fibreboard (MDF) skirtings; General requirements: Ac 05 50 91/340 Timber sourcing; Manufacturer: Medite FR Clear or equivalent; Class: To Architects Specification, Class E1 formaldehyde content; Profile: As per architects drawings; Finish: Primed and painted with selected Dulux Trade Satinwood; Colour: To be agreed with architect; Execution: Pr 35 90 43/606 Installing wood mouldings and trims - Fixing - General: Fix securely; Secret fixing: Secret nailed, first and last rows surface nailed; Surface fixing: Face nailed; Exposed nail heads: Neatly punch below surface and filled; as per Architects Specification Pr 35 90 43 58 & Drawing 20-36-5001					
Skirtings					
A	Generally; 100mm high x 18mm thick	106	m		
Ironmongery, Accessories and Sundries					
Sundries; Non-hardening sealant to skirting/wall junction; all in strict accordance with Architect's Details on Drawings					
Seals					
B	Generally	106	m		
FLOOR, WALL & CEILING FINISHES					
Flexible Sheet Finishes					
FLOOR TYPE 2 - Forbo Marmoleum Solid Piano; Linoleum sheets - Description: Linoleum floor coverings, refer to Architects finishes plan; Manufacturer: Forbo Flooring Systems UK Ltd or equivalent; Product reference: Forbo Marmoleum Linear or equivalent; Thickness: 2.5mm; Colour and pattern: To be agreed with Architect; To be installed as per manufacturers recommendations; as per Architects Specification Pr 35 57 71 46 & Ss 30 42 72 72					
Floors					
C	Exceeding 300mm wide	25	m2		
FLOOR TYPE 6 - Forbo Marmoleum Real - Concrete; Linoleum sheets - Description: Linoleum floor coverings, refer to Architects finishes plan; Manufacturer: Forbo Flooring Systems UK Ltd or equivalent; Product reference: Forbo Marmoleum Marble or equivalent; Thickness: 2.5mm; Colour and pattern: To be agreed with Architect; To be installed as per manufacturers recommendations; as per Architects Specification Pr 35 57 71 46 & Ss 30 42 72 72					
Floors					
D	Exceeding 300mm wide	99	m2		
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Existing Building/32					

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<u>(43) FLOOR FINISHES (Cont)</u>						
FLOOR TYPE 9 - Forbo Marmoleum Real - Mist Grey; Linoleum sheets - Description: Linoleum floor coverings, refer to Architects finishes plan; Manufacturer: Forbo Flooring Systems UK Ltd or equivalent; Product reference: Forbo Marmoleum Marble or equivalent; Thickness: 2.5mm; Colour and pattern: To be agreed with Architect; To be installed as per manufacturers recommendations; as per Architects Specification Pr 35 57 71 46 & Ss 30 42 72 72 Floors A Exceeding 300mm wide					4	m2
FLOOR TYPE 13 - Marmoleum - to Match Existing; Linoleum sheets - Description: Linoleum floor coverings, refer to Architects finishes plan; Manufacturer: Forbo Flooring Systems UK Ltd or equivalent; Product reference: Forbo Marmoleum Marble or equivalent; Thickness: 2.5mm; Colour and pattern: To be agreed with Architect; To be installed as per manufacturers recommendations; as per Architects Specification Pr 35 57 71 46 & Ss 30 42 72 72 Floors B Exceeding 300mm wide					35	m2
<u>PAINTING AND DECORATING</u>						
Painting						
Waterborne finishes to internal joinery; Description: Dulux Easycare Satinwood paint to all Internal MDF and non-resinous softwood / hardwood; Manufacturer: Dulux Paints Ireland or equivalent; Product reference: Dulux Easycare Satinwood (satin finish); Coverage: 12m2/litre; Preparation: To get the best results with Dulux Easycare Satinwood, make sure surfaces to be painted are sound, clean, dry (new surfaces particularly must be fully dry); Remove all loose and defective paint; Colour: to be agreed; Execution: Pr 35 31 22/703 Applying coating Internal woodwork; as per Architects Specification Pr 35 31 22 95 Second Fixings C Girth not exceeding 300mm; Skirtings					106	m

				€	c
<u>(35) & (45) CEILING FINISHES</u>					
<u>SECTIONAL COMPLETION</u>					
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item		
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item		
<u>NOTES</u>					
C	1.This element has been measured from the relevant Architect's Drawings together with Engineers Drawings		note		
D	2. The tenderer is referred to the Architect's Drawings and Specification which accompany this document. All descriptions shall be read in conjunction with this information and included in the rates.		note		
<u>FLOOR, WALL & CEILING FINISHES</u>					
Suspended Ceilings					
<u>CT 1B - 600x600x15: Circulation (Existing) - Rockfon Artic 600x600x15mm, or equivalent, installed as per manufacturers details and specification; Ceiling Tiles: Fine textured mineral fibre ceiling tiles in bright white finish; Sound absorption details: aw 0.90, NRC 0.85, Class A; Humidity Resistance (RH %) 100%; Thermal conductivity 0.06 W/mK; Class A1 Fire resistance; Grid: Rockfon System T24, pre-coated fully polymerized bright white polyester finish, or equivalent; Ceiling Edge: Perimeter angle trim bright white polyester finish, fixed at 450mm cts to 50x50mm timber batten, painted white; as per Architects Specification Ss 30 25 22 90 & Drawings 20-36-5101</u>					
Ceilings; fixed below roof structure					
E	Depth of Suspension 150mm - 500mm	24	m2		
Sundries					
F	White perimeter trim securely fastened at 450 mm maximum centres and within 75mm from the ends	34	m		
G	Edge battens; Manufacturer: Contractors choice; Product reference: Timber battens; Material: Planed softwood; Finished size: 50 x 50mm; Finish (apply before ceiling grid is installed): as per Architects Details Drawings	34	m		

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<u>(35) & (45) CEILING FINISHES (Cont)</u>						
<u>CT 8 - Moisture Resistant Plasterboard Ceiling - One layer of 12.5mm plasterboard consisting of aerated non combustible core and water repellent additives encased in, and firmly bonded to, strong paper liners; Thermal conductivity 0.25w/mk thermal resistance 0.05m2k/w, fixed to underside of concealed metal frame grid and lining suspended ceiling system, taped, sealed, skimmed & joints staggered in accordance with manufacturers recommendations; as per Architects Drawings 20-36-5101</u> Ceilings; fixed below floor structure						
A	Depth of Suspension 150mm - 500mm	142	m2			
<u>Composite Item: Rooflight Shaft - Metal stud partition system to provide 1hour fire resistance; Studs: Type: 70 mm Gyproframe 70 S 60 'C' Studs; Centres: 600mm; Head condition: Concrete slab; Deflection allowance: To manufacturers recommendations; Insulation: Not required; Recycled content: Not applicable; Thickness: 50mm; Linings: 15 mm Gyproc WallBoard to one side; Finishing: Skim coat plaster finish; Primer/ Sealer: 1 coat of Gyproc Drywall Primer; Accessories: Rigid beads/ stops; all as per Architects Specification</u> Sundries; Rooflight Shafts						
B	Overall opening size 1230mm long x 1230mm wide x 2400mm deep	2	nr			
<u>PAINTING AND DECORATING</u>						
Painting						
<u>Waterborne matt and flat finishes Ceilings; Description: Painting to plasterboard ceilings and walls generally; Manufacturer: Dulux Paints Ireland or equivalent; Product reference: Dulux Trade Diamond Matt; Coverage: 13-15 m2/ litre; Colour: to be agreed; Application: Apply 2 coats with a brush or roller, leave 2-4 hours between coats; Do not apply in very damp or humid conditions or in extreme temperatures; Preparation: Ensure surfaces to be painted are sound, clean, dry (new surfaces particularly must be fully dry); Execution: Pr 35 31 22/703 Applying coating system Internal walls; as per Architects Specification Pr 35 31 22 97</u> Ceilings						
C	Exceeding 300mm	158	m2			

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<u>(35) & (45) CEILING FINISHES (Cont)</u>						
<u>Waterborne finishes to internal joinery; Description: Dulux Easycare Satinwood paint to all Internal MDF and non-resinous softwood / hardwood; Manufacturer: Dulux Paints Ireland or equivalent; Product reference: Dulux Easycare Satinwood (satin finish); Coverage: 12m2/litre; Preparation: To get the best results with Dulux Easycare Satinwood, make sure surfaces to be painted are sound, clean, dry (new surfaces particularly must be fully dry); Remove all loose and defective paint; Colour: to be agreed; Execution: Pr 35 31 22/703 Applying coating Internal woodwork; as per Architects Specification Pr 35 31 22 95</u>						
Second Fixings						
A	Girth not exceeding 300mm; Edge battens	134	m			

					€	c
<u>(47) ROOF FINISHES</u>						
<u>SECTIONAL COMPLETION</u>						
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item			
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item			
<u>NOTES</u>						
C	1. The Tenderer is referred to the drawings and specifications which accompany this document. All descriptions shall be read in conjunction with this information.		note			
D	2. The Tenderer is to provide all fittings, support etc. which may be necessary to complete the works. The Contractor is required to liaise and coordinate with other trades to provide and fix all such fixings as may be necessary for his installation.		note			
E	3. The Tenderer shall examine all surfaces which are to come in contact with his installation and insure their suitability prior to installing roof coverings.		note			
<u>FLAT ROOF AREAS</u>						
<u>ROOFING, CLADDING & WATERPROOFING</u>						
Mastic Asphalt, Waterproof and Gas proof & Non-Metal Flexible Sheet Coverings						
Flat Roof abutment to wall / Parapet wall; Minimum 45mm Paratorch or equivalent insulation carried up face of upstand of wall; Minimum two layer bitumen warm deck roof covering class 1 I-90 standard taken up wall; Polyester reinforced on insulation on suitable vapour control membrane; include for Base sheet: Top S 3mm polyester reinforced A.P.P. modified bitumen base sheet membrane fully torch bonded to suitable insulation with 100mm side and 150mm end laps; Roofing manufacturer approved 3kg vapour control layer loose laid with minimum 150mm side and end laps; sealed and detailed to envelope insulation board fixed in accordance with manufacturers recommendations and the specification; include lead counter flashing, compatible VCL turned up wall behind PIR insulation; 75mm insulated angle fillets at upstands in accordance with manufactures recommendations; all as per Architects Drawing 7010						
Upstands; Flat Roof abutment to existing wall						
F	Girth: 300 - 450mm	21	m			

					€	c
<u>(5-) MECHANICAL INSTALLATIONS</u>						
<u>SECTIONAL COMPLETION</u>						
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item			
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item			
<u>(10) DEMOLITION & ALTERATIONS</u>						
<u>DEMOLITION & ALTERATIONS</u>						
GENERAL						
C	1. THE ONUS IS ON THE CONTRACTOR TO VISIT THE SITE OF THE WORKS AND TO SATISFY HIMSELF AS TO THE NATURE AND EXTENT OF THE WORKS AND ALL OTHER MATTERS THAT MIGHT INFLUENCE HIS PRICE OR TIME FOR COMPLETION OF THE WORKS (ARRANGEMENTS TO VISIT THE SITE SHOULD BE MADE WITH THE EMPLOYERS REPRESENTATIVE). THE CONTRACTOR MUST INCLUDE WITHIN HIS PRICE FOR ALL WORKS IN CONNECTION WITH THE DEMOLITION WORKS AND WORKS TO THE EXISTING BUILDINGS, WHICH COULD BE REASONABLY FORESEEN OR IMPLIED BY THE TENDER DOCUMENTS. NO CLAIMS ON THE GROUNDS OF WANT OF KNOWLEDGE IN RESPECT OF THE ABOVE WILL BE ENTERTAINED WHATSOEVER.		note			
Alterations						
<u>Removing</u>						
Plumbing and Engineering Installations						
D	The Contractor to allow for isolating, removal and disposal off site of existing mechanical services to 2nr existing classrooms; include for making good all surfaces on completion; all in accordance with the Mechanical specification and drawings.	1	item			
Notes						
E	The tendering contractors are referred to ARM 4 supplement 2, Agreed Alternative Rules for the Measurement of Services Installations (Issue 1, 2013), used in the production of this section of the pricing document.		note			
F	The following works are to be priced in accordance with the detailed design; performance specifications and scheme drawing numbers (list included in the Works Requirements) as prepared by Patrick McCaul Consulting Engineers.		note			
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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>							
A	Builders work in connection with the contract works such as cutting or drilling of holes, forming apertures, chases in walls, floors and ceilings will be carried out by the Works Specialist under the terms of the main contract. The Electrical Specialist shall be responsible for the correct marking out of all attendances, and all other cutting to be performed by the Works Specialist.		note				
<u>ALTERNATIVE RULES FOR THE MEASUREMENT OF MECHANICAL INSTALLATIONS</u>							
<u>(52) DRAINAGE AND REFUSE DISPOSAL</u>							
<u>System</u>							
Soils and Waste Drainage Installation, testing and commissioning; complete; The complete installation of all above ground foul water drainage and refuse disposals; all in strict accordance with the Mechanical Engineers Specification Section 52 and Drawing 2860-M-07, 2860-M-08, 2860-M-09, 2860-M-19							
<u>Accessories associated with terminal equipment and fittings</u>							
Chemical resistant pipework and fittings; supply and installation; complete; Jointing type: Solvent weld joints generally; ring seal joints at expansion joints; include for all joints; fittings; brackets and pipework supports; all in accordance with the Mechanical General Specification							
B	50mm diameter SP drop to ground floor builder floor socket	1	nr				
C	50mm diameter SP drop to first floor builder floor socket	1	nr				
uPVC pipework and fittings; supply and installation; complete; Jointing type: Solvent weld joints generally; ring seal joints at expansion joints; include for all joints, fittings, brackets, pipework supports intumescent fire collars and weathering aprons;; all in accordance with Mechanical Engineers General Specification Section 52							
D	40mm diameter waste from Indoor Unit to ground floor builders upstand/ SVP	1	nr				
E	40mm diameter waste from Indoor Unit to first floor builders upstand/SVP	1	nr				
<u>Distribution System</u>							
Chemical resistant pipework and fittings; supply and installation; complete; Jointing type: Solvent weld joints generally; ring seal joints at expansion joints; include for all joints; fittings; brackets and pipework supports; all in accordance with the Mechanical General Specification							
F	40mm nominal diameter; surface fixed; supports at average 1200mm centres vertical, 500mm centres horizontal; ears fixed with screws to background requiring plugging	1	item				
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Existing Building/42							

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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
A	50mm nominal diameter; surface fixed; supports at average 1800mm centres vertical, 900mm centres horizontal; ears fixed with screws to background requiring plugging uPVC pipework and fittings; supply and installation; complete; Jointing type: Solvent weld joints generally; ring seal joints at expansion joints; include for all joints, fittings, brackets, pipework supports intumescent fire collars and weathering aprons;; all in accordance with Mechanical Engineers General Specification Section 52	1	item			
B	40mm nominal diameter; surface fixed; supports at average 1200mm centres vertical, 500mm centres horizontal; ears fixed with screws to background requiring plugging	1	item			
C	50mm nominal diameter; surface fixed; supports at average 1200mm centres vertical, 900mm centres horizontal; ears fixed with screws to background requiring plugging <u>Insulation</u> Acoustic foil-faced mineral wool insulation; to all pipework services and fittings; 65mm thick; all joints taped and sealed; all in strict accordance with the Mechanical Engineers Specification	1	item			
D	to 40mm diameter pipework	1	item			
E	to 50mm diameter pipework <u>General</u> Testing and commissioning; all in accordance with Engineers Specification	1	item			
F	Testing and commissioning Operating and maintenance manuals; all in accordance with Engineers Specification	1	item			
G	Operating and maintenance manuals Working drawings; all in accordance with Engineers Specification	1	item			
H	Working drawings Co-ordination drawings; all in accordance with Engineers Specification	1	item			
J	Co-ordination drawings As built drawings; all in accordance with Engineers Specification	1	item			
K	As built drawings	1	item			

				€	c
<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>					
Identification plates, labels and the like; all in accordance with Engineers Specification					
A	Identification plates, labels and the like	1	item		
<u>(56) SPACE HEATING</u>					
<u>System</u>					
Space Heating installation, testing and commissioning; The space heating system consists LTHW distribution pipework, pipework insulation, brackets and supports; radiator and radiant panel system heating; and associated controls and manifold arrangement; Distribution pipework shall extend from the boiler room and is pumped via a variable temperature circuit to serve the LTHW radiator heating zones. The heating pipework is distributed within the high level ground floor corridor ceiling void with pipework entering each room to extend up and down to serve the radiator positions; all in strict accordance with the Mechanical Engineers Specification Section 56 and Drawings 2860-M-01, 2860-M-02, 2860-M-16					
<u>Terminal Equipment and Fittings</u>					
Radiators; supply and installation; complete; Type: steel double panel, double fin radiator, wall mounted; Casing: metal wall thickness not less than 1.5mm thick with scratch resistant surface; Output: to be tested accordance with EN442; Connections: 1/2" connections; Pressure tested: 10 bar; All radiators shall be supplied with: Concealed wall mounting brackets, Touch up Paint 12ml container of touch up paint with integral brush applicator in RAL 9016, Air Vent Key; include for all fixings and accessories; all in strict accordance with Mechanical Equipment Schedule Ref: D					
B	Radiator Ref: RAD 06, Size 1400mm length x 600mm height	6	nr		
<u>Accessories associated with terminal equipment and fittings</u>					
Lockshield radiator valves; Type: Manually operated radiator valves; Application: LTHW heating radiator presetting and isolating; Pattern: Straight (Angle only where space restrictions apply); Finish: gunmetal bodies with brushed chrome finish; Valves shall incorporate a BSP union taper tail piece/ BSP female compression fitting as appropriate for direct connection; include for all accessories; all in accordance with the Mechanical Specification Section 56					
C	Lockshield radiator valves	12	nr		
Digital Room Lockable Temperature Stats; supply and installation; complete; include for all fittings and accessories; all in accordance with the Mechanical Engineers Specification					
D	Digital Room Thermostats	2	nr		

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<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
<u>Distribution</u>						
Medium Grade Black Mild steel pipework and fittings; include for all fixings and supports; include for all elbows, expansion bellows; unions and tees necessary to complete the work; Painting: two coat of zinc phosphate primer prior to fitting of insulation; all in strict accordance with the Mechanical Specification Section 56						
A	15mm diameter pipework	1	item			
B	20mm diameter pipework	1	item			
<u>Insulation</u>						
Rigid mineral wool insulation; to LTHW services pipes; thermal conductivity not exceeding 0.04 W/mK; Integral reinforced aluminium covering; vapour barrier to be maintained at all times; Class 'O' fire rated; applied strictly in accordance with the manufacturers instructions; butt joints, glued and sealed; include for all accessories; all in accordance with the Mechanical Engineers Specification Section 56						
Insulation, 25mm thick						
C	to 15mm diameter pipework	1	item			
D	to 20mm diameter pipework	1	item			
Insulated cover boxes; aluminium split casing c/w spring clip fasteners, 35mm thick insulation lining; sized to suit valve; vapour sealed; all in accordance with Engineers Specification						
E	General valves & Plant	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with Engineers Specification						
F	Testing and commissioning	1	item			
G	Testing, chemical dosing, sterilization and certification of all systems	1	item			
Operating and maintenance manuals; all in accordance with Engineers Specification						
H	Operating and maintenance manuals	1	item			
Working drawings; all in accordance with Engineers Specification						
J	Working drawings	1	item			
20420 - Carrick on Shannon CS August 2026 SFR115/Issue1/190207					To Collection €	
Existing Building/45						

					€	c
<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
Co-ordination drawings; all in accordance with Engineers Specification						
A	Co-ordination drawings	1	item			
As built drawings; all in accordance with Engineers Specification						
B	As built drawings	1	item			
Identification plates, labels and the like; all in accordance with Engineers Specification						
C	Identification plates, labels and the like	1	item			
(57) VENTILATION SERVICES						
<u>System</u>						
Ventilation installation, testing and commissioning; complete; The contractor shall supply and install all ventilation ductwork, terminals and plant within the building; all in accordance with the Mechanical Engineers Specification Section 57, Equipment Schedule and Drawing 2860-M-05, 2860-M-06 & 2860-M-07						
<u>Primary Equipment</u>						
Heat Recovery Unit; supply and installation complete; heat recovery devices are fitted into the extract system access panels shall be located on both sides of the device; c/w side attenuator, backdraught shutters/dampers & Flexible connections, Power supply: 220V/1 Ph/50 Hz; installation as per manufacturers recommendations; include for all fittings and accessories; all in accordance with the Mechanical Equipment Schedule Ref: F						
D	Heat Recovery Unit; Duty 248 l/s @ 1.30 (W/(l/s)); Dimension (L x W x H): 2253mm x 1280mm x 576mm; Ref: HRU 04	2	nr			
<u>Accessories Associated With Primary Equipment; Controls</u>						
HRU room controller; supply and installation; complete; include for all fixings; all in accordance with the Mechanical Engineers Specification						
E	HRU room controller	2	nr			
Co2 duct sensor; supply and installation; complete; include for all fixings; all in accordance with the Mechanical Engineers Specification						
F	Co2 duct sensor	2	nr			
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Existing Building/46						

					€	c
<u>(5-) MECHANICAL INSTALLATIONS (Cont)</u>						
<u>Terminal equipment and fittings</u>						
External Wall Louvres; supply and installation; complete; Material: extruded aluminium with galvanised mesh insect screen; Colour: RAL colour finish; c/w concealed fixings, 300mm minimum deep penum box, flanged connection; include for all weatherproofing and fittings; all in accordance with the Mechanical Equipment Schedule Ref: H						
A	External Louver; Ref: EWL 09; size 400mm x 400mm	4	nr			
<u>Distribution System</u>						
Galvanised Sheet Steel Ductwork; supply and installation; complete; Type: circular/rectangular ductwork; Standards: in accordance with HVCA DW144; include for all flexible connections; joints; ductwork supports; access hatches, test holes, non combustible sleeves, accessories and fixings; all in accordance with the Mechanical General Specification Section 57						
B	Ductwork; size 315mm diameter	1	item			
<u>Insulation</u>						
Foil faced mineral wool duct insulation; 50mm thick; thermal conductivity not exceeding 0.04 W/mK; c/w Integral reinforced aluminium covering and vapour barrier; Class 'O' fire rated; applied strictly in accordance with the manufacturers instructions; butt joints, taped and sealed; 150mm long 18mm gauge steel sleeves at location of duct supports; include for all insulation hangers and accessories; all in accordance with the Mechanical Specification Section 57						
C	Insulation; 315mm diameter ducts	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with Engineers Specification						
D	Testing and commissioning	1	item			
Operating and maintenance manuals; all in accordance with Engineers Specification						
E	Operating and maintenance manuals	1	item			
Working drawings; all in accordance with Engineers Specification						
F	Working drawings	1	item			
Co-ordination drawings; all in accordance with Engineers Specification						
G	Co-ordination drawings	1	item			
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Existing Building/47						

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<u>(6-) ELECTRICAL INSTALLATIONS</u>						
<u>SECTIONAL COMPLETION</u>						
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item			
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item			
<u>(10) DEMOLITION & ALTERATIONS</u>						
<u>DEMOLITION & ALTERATIONS</u>						
GENERAL						
C	1. THE ONUS IS ON THE CONTRACTOR TO VISIT THE SITE OF THE WORKS AND TO SATISFY HIMSELF AS TO THE NATURE AND EXTENT OF THE WORKS AND ALL OTHER MATTERS THAT MIGHT INFLUENCE HIS PRICE OR TIME FOR COMPLETION OF THE WORKS (ARRANGEMENTS TO VISIT THE SITE SHOULD BE MADE WITH THE EMPLOYERS REPRESENTATIVE). THE CONTRACTOR MUST INCLUDE WITHIN HIS PRICE FOR ALL WORKS IN CONNECTION WITH THE DEMOLITION WORKS AND WORKS TO THE EXISTING BUILDINGS, WHICH COULD BE REASONABLY FORESEEN OR IMPLIED BY THE TENDER DOCUMENTS. NO CLAIMS ON THE GROUNDS OF WANT OF KNOWLEDGE IN RESPECT OF THE ABOVE WILL BE ENTERTAINED WHATSOEVER.		note			
Alterations						
<u>Removing</u>						
Plumbing and Engineering Installations						
D	The Contractor to allow for isolating, removal and disposal off site of existing electrical services fittings to 2nr existing classrooms; include for making good all surfaces on completion; all in accordance with the Electrical specification and drawings.	1	item			
<u>ELECTRICAL INSTALLATION</u>						
Notes						
E	The tendering contractors are referred to ARM 4 supplement 2, Agreed Alternative Rules for the Measurement of Services Installations (Issue 1, 2013), used in the production of this section of the pricing document.		note			
F	The following works are to be priced in accordance with the detailed design; performance specifications and scheme drawing numbers (list included in the Works Requirements) as prepared by Patrick McCaul Environmental Consulting Engineers.		note			
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					€	c
<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
A	The Contractor shall be responsible for liaison and co-ordination with the ESB until completion of all works. The Contractor shall be responsible for ensuring that all ESB works are scheduled and complete to allow for commissioning of the building including all mechanical services and to ensure that the building can be handed over in accordance with the main contract programme		note			
B	Builders work in connection with the contract works such as cutting or drilling of holes, forming apertures, chases in walls, floors and ceilings will be carried out by the Works Specialist under the terms of the main contract. The Electrical Specialist shall be responsible for the correct marking out of all attendances, and all other cutting to be performed by the Works Specialist.		note			
(61) ELECTRICITY CENTRE & MAIN DISTRIBUTION						
<u>System</u>						
LV installation, testing and commissioning; complete; The Contractor shall allow for the supply and installation of all switchgear, distribution boards and submains cables in accordance with the drawings and attached specification; The Contractor shall be responsible for safe off-loading, receiving, storage, positioning and fixing of the boards and shall be liable for any damage to boards during installation; The Contractor shall submit working drawings to the Engineer for approval prior to manufacture of switchgear; The Contractors are to note that a Vampire load design strategy is being implemented on this project by instruction of the Department of Education (refer to Electrical Specification Section (61) of project particulars for full details); The electrical contractor shall liaise with ESB to agree the incoming positions and metering for the building; all in accordance with the Electrical General Specifications, Project Particular Specification Section 61 and Drawing 2860-E-15						
C	LV installations	1	item			
<u>Equipment</u>						
Existing Main switchboard; allow for isolating switchboard to allow for all modifications to facilitate linking the new building to the existing building; include for all cable, switchgear and accessories; the extent of works to be carried out during unsocial hours (i.e weekends) to minimise disruption to the existing school functionality; all circuits to be tested and commissioned upon completion; extent of works to be viewed on-site; all in accordance with the Electrical Drawing 2860-E-15						
D	Alterations to Existing Main Switchboard, complete	1	nr			

					€	c
<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>Mains and Sub-mains cables</u>						
Sub-mains cable supply and installation; complete; fed from main distribution board located in ground floor entrance to sub-distribution boards/control panels located throughout school building; all in accordance with the Electrical Project Particular Specifications Section (61) and Drawing 2860-E-15						
A	Submains; SDB-01 to Existing DB - 4c 90mm ² XLPE/SWA + 50mm ² LSF CPC	1	item			
B	Submains; SDB-01 to Existing DB - 4c 90mm ² XLPE/SWA + 50mm ² LSF CPC	1	item			
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
C	General earthing and bonding, complete	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
D	Testing and commissioning; complete	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
E	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
F	Working drawings; complete	1	item			
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
G	Co- ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
H	As built drawings; complete	1	item			
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
J	Identification plates, labels and the like; complete	1	item			
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Existing Building/52						

					€	c
<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
(62) POWER DISTRIBUTION SERVICES - CONTAINMENT						
<u>System</u>						
Cable ladder/ tray/ trunking installation, testing and commissioning; complete; The Contractor must allow for the supply and installation of a complete cable support system using cable tray, trunking, conduit and support steelwork as shown on the drawings and as detailed in the specification. The Contractor shall include for all incidental cable containment which may not be shown on the drawings but which may be required to effect cable routes to individual items of equipment, luminaries etc; include for all joints, fixing brackets and supports; all exposed and extraneous conductive parts are to be boned and properly earthed in accordance with current wiring regulations; all in accordance with the Electrical Specification and Drawing 2860-E-09 to 2860-E-10						
A	Cable Tray; Extra Low Voltage & Data Services; medium duty galvanised steel; size 100mm x 25mm wide; complete	1	item			
B	Cable Tray; Extra Low Voltage & Data Services; heavy duty galvanised steel; size 150mm x 50mm wide; complete	1	item			
C	Cable Tray; Extra Low Voltage & Data Services; heavy duty galvanised steel; size 200mm x 50mm wide; complete	1	item			
D	Cable Tray; Extra Low Voltage & Data Services; heavy duty galvanised steel; size 300mm x 50mm wide; complete	1	item			
E	Cable Tray; Submains & General Services; medium duty galvanised steel; size 100mm x 25mm wide; complete	1	item			
F	Cable Tray; Submains & General Services; heavy duty galvanised steel; size 150mm x 50mm wide; complete	1	item			
G	Cable Tray; Submains & General Services; heavy duty galvanised steel; size 200mm x 50mm wide; complete	1	item			
H	Cable Tray; Submains & General Services; heavy duty galvanised steel; size 300mm x 50mm wide; complete	1	item			
J	Cable Trunking; 1 compartment; galvanised steel; size 75mm wide x 75mm high; complete	1	item			
K	Cable Trunking; 1 compartment; galvanised steel; size 100mm wide x 100mm high; complete	1	item			
L	Cable Trunking; 1 compartment; galvanised steel; size 150mm wide x 150mm high; complete	1	item			
M	Cable Trunking; 2 compartment; galvanised steel; size 200mm wide x 100mm high; complete	1	item			
N	Cable Trunking; Fire Alarm; galvanised steel; size 50mm wide x 50mm high; complete	1	item			
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Existing Building/53						

					€	c
<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
A	Dado Trunking; 3 compartment, colour white; size 180mm x 57mm c/w DDA back plates, colour charcoal grey; include for all end caps, screening dividers, internal & external corners, cable retaining clips; complete	1	item			
B	Mini Trunking; Deaf loop installation; size 25mm x 16mm; complete	1	item			
C	Conduit; galvanised steel; size 25mm diameter; complete	1	item			
D	Conduit; galvanised steel; size 50mm diameter; complete	1	item			
E	Conduit; flexible steel; size 25mm diameter; complete	1	item			
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
F	General Earthing & Bonding; complete	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
G	Testing and commissioning; complete	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
H	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
J	Working drawings; complete	1	item			
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
K	Co- ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
L	As built drawings; complete	1	item			
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
M	Identification plates, labels and the like; complete	1	item			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
(62) POWER - GENERAL POWER SERVICES						
<u>System</u>						
General Services and small power installation, testing and commissioning; complete; The Electrical contractor shall supply and install the complete small power installation as detailed within this specification and shown on the Tender drawings; all in accordance with the Electrical General Specifications, Project Particular Specification Section 62 and Drawings 2860-E-03, 2860-E-04						
A	General Power Services Installation	1	item			
<u>Accessories associated with terminal equipment</u>						
Socket Outlet; supply and installation (including wiring); complete; Sockets: 13amp outlets; Finish: Brushed chrome plate; Features: 3-pin "child resistant shutter system"; double pole switching; outboard rockers c/w red on indication; dual earth terminals; part M guidelines compliant; all accessories shall be engraved to indicate the circuit reference number; c/w back boxes Body: heavy gauge steel; finish: metallic powder paint; include for all accessories and fixings; all in accordance with the Electrical Specifications Section (62)						
B	2-Gang Switched Socket Outlet; size 146mm x 86mm high	4	nr			
Socket Outlet; supply and installation (including wiring); complete; Sockets: 13amp outlets; Finish: White urea; Features: 3-pin "child resistant shutter system"; dual earth terminals; part M guidelines compliant; all accessories shall be engraved to indicate the circuit reference number; c/w back boxes Body: heavy guage steel; finish: metallic powder paint; include for all accessories and fixings; all in accordance with the Electrical Specifications Section (62)						
C	2-Gang Switched Socket Outlet; size 146mm x 86mm high (Dado trunking)	6	nr			
Isolator Rotary Switch; supply and installation (including wiring); complete; Rotary switch, IP65 c/w back boxes; include for all accessories and fixings; all in accordance with the Electrical Particular Specifications Section (62)						
D	Isolator 230V; SPN for Heat Recovery Unit; Rating: TBC	2	nr			
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
E	General Earthing & Bonding; complete	1	item			

					€	c
<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
A	Testing and commissioning; complete	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
B	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
C	Working drawings; complete	1	item			
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
D	Co- ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
E	As built drawings; complete	1	item			
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
F	Identification plates, labels and the like; complete	1	item			

					€	c
(6-) ELECTRICAL INSTALLATIONS (Cont)						
(63) LIGHTING						
<u>System</u>						
Lighting installation, testing and commissioning; complete; The Contractor shall supply a complete general lighting installation as detailed on the drawings; The Contractor shall include within his tender for wiring, fitting and connection of all light fittings; The internal lighting circuits shall be wired with 2.5mm ² cables in galvanised trucking/conduit, circuited as shown on the drawings from relevant distribution boards; Circuits shall be controlled by switches, presence detectors, combined presence detectors and daylight sensors, photocells and/or time clocks as detailed on the drawings; switches shall be installed at suitable heights to comply with current building regulations; Luminaries: the contractor shall include in his price for supply, installation and removal of sample luminaries; the Contractor shall allow for a specialist EX-OR approved Commissioning firm/ Specialist Installer to program and commission all lighting controls; the Contractor shall allow for 3nr. visits to demonstrate and fine tune the lighting controls to the engineers/ clients requirements; the commissioning firm shall visit the school after it is occupied and in used for a minimum of 12 months to do re-checks; all in accordance with the Electrical General Specifications, Project Particular Specification Section 63 and Drawings 2315-E-01 to 2315-E-05						
A	General Lighting	1	item			
External Lighting installation, testing and commissioning; complete; The Contractor shall include for the supply of the complete external lighting installation as described in the Electrical Specification and as indicated on the tender drawings and equipment schedule; The school external amenity lighting comprises lighting of the car park, school footpaths/walkways and building facade lighting. All external/amenity lighting shall be wired from a site lighting distribution board located in the new main switch room. The time clocks shall be a 24 hour, 7 day, day omit time clock located within the distribution board. The photoelectric cell shall be mounted 3000mm AFFL in a suitable location. HOA Manual / Override external lighting switchbacks shall be provided. The switchbacks shall incorporate a master override "lights on" switch to override the automatic control; all in accordance with the Electrical General Specifications, Project Particular Specification Section 63 and Drawings 2315-E-01 to 2315-E-05						
B	External Lighting	1	item			

					€	c
<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
Emergency lighting installation, testing and commissioning; complete; The Contractor shall include for the supply, installation, wiring, testing and commissioning of an emergency lighting installation as described in the Electrical Specification and as indicated on the tender drawings and equipment schedule; The emergency lighting installation shall comply with IS3217:2013; The system has been designed for 3 hour operation in the event of an emergency, i.e. all the emergency luminaries must be rated to operate for 3 hours when the normal supply has failed; The emergency lighting installation comprises of dedicated emergency fittings, maintained exit fittings and emergency inverter packs providing emergency lighting to normally mains operated fittings; Central test units shall be installed locally at each distribution board for means of testing local lighting circuits; The contractor shall include for the provision of an A3 sized chart at each central test location; all in accordance with the Electrical General Specifications, Project Particular Specification Section 63 and Drawings 2315-E-01 to 2315-E-05						
A	Emergency Lighting	1	item			
<u>Fittings</u> Luminaries & lamps; supply and installation (including wiring & final connections); complete; Luminaries shall be complete with lamps and support system, threaded rod supports or an approved catenary suspension system shall be used; Final connections T-bar suspended ceilings: Standard Luminaries: plug-in pattern Kilk type ceiling rose with 1.25m LOSH heat resistant cable; Dimmable Luminaries: plug-in pattern Kilk type system 7 pole surface connectors with 1.25m LOSH heat resistant cable; Unless otherwise indicated luminaire shall be hard wired; Wall mounted luminaries to stairwells to be hard wired utilising conduit and concealed base boxes, include for all accessories; all in strict accordance with the Electrical Particular Specification Section 63 and Lighting Schedule						
B	Luminaire Ref: B1; Circular 3480LM LED luminaire; IP40; Housing: spun aluminium finished full polyester non-yellowing white; Diffuser: high efficiency satin sparkle or opal fire-retardant TP(a) polycarbonate; Mounting: surface fixed to ceiling/wall	18	nr			
C	Luminaire Ref: E4; Bulkhead LED emergency luminaire; Housing: polycarbonate base and covers with inbuilt UV filter protection; IP65; Diffuser: High quality for maximum light output; 6000k; maintained c/w Ni-Mh battery pack operation duration 3hr; High output; Mounting: surface fixed	2	nr			
D	Luminaire Ref: EX1; Bulkhead 4338LM LED high performance luminaire; IP66; Housing: die-cast LM2 aluminium full polyester powder coated graphite; Cover: High impact resistant UV stabilised polycarbonate; LED: 100,000hr life, 4000K or 5700k, CRI 70+ and LED protect LED PCB protection; Mounting: surface fixed to wall	1	nr			

					€	c
<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
Lighting Control detectors; supply and installation (including wiring & final connections); complete; Manufacturer: Beg or equivalent; Detectors shall be hard wired utilising conduit and concealed BESA boxes; allow for securely fixing all fittings as per the manufacturers requirements; include for all accessories; all in strict accordance with the Electrical Particular Specification Section 63						
A	Sensor Ref: S4; Motion detector/High sensitivity dali; ceiling mounted	2	nr			
<u>Accessories associated with terminal equipment</u>						
Light Switch & Grid Plate; supply and installation (including wiring); complete; Finish: Brushed chrome plate; c/w back boxes Body: heavy gauge steel; finish: metallic powder paint; Mounting: surface fixed; include for all accessories and fixings; all in accordance with the Electrical Specifications Section 63						
B	Light Switch; 1 way, 1 gang; Momentary Push Switch (Ref:M)	2	nr			
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
C	General Earthing & Bonding; complete	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
D	Testing and commissioning; complete	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
E	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
F	Working drawings; complete	1	item			
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
G	Co- ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
H	As built drawings; complete	1	item			

					€	c
<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
A	Identification plates, labels and the like; complete	1	item			
<u>(64) COMMUNICATIONS - DATA/IT INSTALLATIONS</u>						
<u>System</u>						
Structured Cabling installation, testing and commissioning; complete; The electrical contractor shall allow in his tender for a specialist firm to design, supply, install and commission a CAT 6A Structured Cabling Solution or equivalent; The comms link to come from the existing building cabinet internally routed in containment to new extension DCC room; all in strict accordance with the Electrical General Specifications, Project Particular Specification Section (64) and Drawings 2860-E-03 to 2860-E-04, 2860-E-16						
B	Data / IT Installations	1	item			
<u>Equipment</u>						
Existing Comms cabinet; include for all adjustments to the existing Comms Cabinet to facilitate linking the existing Comms Cabinet to the new Comms cabinet via 8 core OM3 Fibre cable & CAT 6a UTP Cable; the extent of works to be carried out during unsocial hours (i.e weekends) to minimise disruption to the existing school functionality; tested and commissioned upon completion; extent of works to be viewed on-site; all in accordance with the Electrical Drawing 2860-E-16						
C	Alterations to existing Comms Cabinet	1	nr			
<u>Accessories associated with terminal equipment</u>						
Socket Outlet; supply and installation (including wiring); complete; Outlets: 8pin modular (RJ45) jacks; Finish: White urea c/w back boxes; Part M compliant; Mounting: dado trunking mounted; all accessories shall be engraved to indicate the circuit reference number; all in accordance with the Electrical Engineers Specifications (64)						
D	Single Data RJ45 Outlet	4	nr			
E	Twin Data RJ45 Outlet	2	nr			

					€	c
<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>Mains Sub-mains Cables</u>						
Fibre Cable; installation, testing and commissioning; complete; 8 core OM3 Fibre cable; distributed within galvanised trunking /conduit; 8 core OM3 Fibre external grade cable; distributed within underground ducts; terminating at both ends; include for all fittings and accessories; all in strict accordance with the Electrical Engineers Specification and Drawing 2860-E-16						
A	Cabling from Existing Comms Cabinet to Comms cabinets (Ref: CAB01, Location: New extension)	1	item			
CAT 5e UTP Cable; installation, testing and commissioning; complete; distributed within galvanised trunking /conduit; terminating at both ends; include for all fittings and accessories; all in strict accordance with the Electrical Engineers Specification and Drawing 2860-E-16						
B	Cabling from Voice connection box to Intruder Alarm Panel	1	item			
C	Cabling from Voice connection box to Fire Alarm Panel	1	item			
D	Cabling from Voice connection box to Lift Panel	1	item			
20 Pair CW1308 Multi- Pair Telecom Cable; installation, testing and commissioning; complete; distributed within galvanised trunking /conduit; terminating at both ends; include for all fittings and accessories; all in strict accordance with the Electrical Engineers Specification and Drawing 2860-E-16						
E	Cabling from Eircom Incomer to Voice connection box	1	nr			
50 Pair CW1308 Multi- Pair Telecom Cable; installation, testing and commissioning; complete; distributed within galvanised trunking /conduit; terminating at both ends; include for all fittings and accessories; all in strict accordance with the Electrical Engineers Specification and Drawing 2860-E-16						
F	Cabling from Voice connection box to Comms cabinet (Ref: CAB01, Location: New Extension)	1	nr			
<u>Final Circuits (including points and terminations)</u>						
CAT 6a UTP Cable; installation, testing and commissioning; complete; 1m of CAT 6A shall be left at outlet end, 5m of CAT 6a shall be left at comms cabinet;/ distributed within galvanised trunking /conduit; terminating at both ends; include for all fittings and accessories; all in strict accordance with the Electrical Engineers Specification						
G	Cable to all data points	6	nr			

					€	c
<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
A	General Earthing & Bonding; complete	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
B	Testing and commissioning; complete	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
C	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
D	Working drawings; complete	1	item			
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
E	Co- ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
F	As built drawings; complete	1	item			
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
G	Identification plates, labels and the like; complete	1	item			
(64) COMMUNICATIONS - PUBLIC ADDRESS						
<u>System</u>						
H	Public Address System	1	item			

					€	c
<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>Equipment</u>						
Existing Public Address Amplifier & Class changeover; include for all adjustments to facilitate networking the existing PA Amplifier to the new PA Amplifier; include for all cable and accessories; tested and commissioned upon completion; extent of works to be viewed on-site; all in accordance with the Electrical Specification						
A	Alterations to Existing PA system; complete	1	nr			
<u>Fittings</u>						
Fittings; supply and installation (including wiring); complete; include for mounting brackets and accessories; all in strict accordance with the Electrical Engineers Specification						
B	PA Speakers; 6watt; vandal resistant c/w Talk back facility wall mounted	2	nr			
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
C	General Earthing & Bonding; complete	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
D	Testing and commissioning; complete	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
E	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
F	Working drawings; complete	1	item			
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
G	Co- ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
H	As built drawings; complete	1	item			
20420 - Carrick on Shannon CS August 2026 SFR115/Issue1/190207					To Collection €	
Existing Building/63						

					€	c
<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
A	Identification plates, labels and the like; complete	1	item			
(65) SECURITY SERVICES - INTRUDER ALARM SYSTEM						
<u>System</u>						
Intruder Alarm System installation, testing and commissioning; complete; The electrical contractor shall employ a NSIA Approved Contractor to design, supply, install and commission a GRADE 3 Intruder Alarm Detection System incorporating alarm confirmation technology in accordance with IS EN 50131; The system shall operate at 12v dc, and shall be of the multiplex type. The system shall consist of a number of movement detectors, door contacts, a control panel, exterior audible warning device and an electronic transmitter linked via the public telephone network to a control centre; Wiring shall generally be carried out using 8 core 0.7mm2 cables from interfaces to detectors and door contacts and data cable between interfaces enclosed in galvanised conduit/trunking; The Sub-Contractor shall maintain the installation and pay all costs for the first 12 months of operation; regular servicing and maintaining of the installation shall be carried out at 6 month intervals during the maintenance period; The complete intruder alarm system shall be tested and commissioned in accordance with I.S. EN 50131. A NSIA typed certificate issued to this effect; all in strict accordance with the Electrical General Specifications, Project Particular Specification Section (65) and Drawings 2860-E-07, 2860-E-08						
B	Intruder Alarm System	1	item			
<u>Equipment</u>						
Existing Intruder Alarm Panel; include for all adjustments to facilitate linking the existing IAP to the new IAP; include for all cable and accessories; tested and commissioned upon completion; extent of works to be viewed on-site; all in accordance with the Electrical Specification						
C	Alterations to Existing Intruder Alarm System; complete	1	nr			
<u>Fittings</u>						
Intruder Alarm Fittings; supply and installation (including wiring); complete; all in strict accordance with the Electrical Engineers Specification 65						
D	Dual Tech Detector	1	nr			

					€	c
<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
A	General Earthing & Bonding; complete	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
B	Testing and commissioning; complete	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
C	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
D	Working drawings; complete	1	item			
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
E	Co- ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
F	As built drawings; complete	1	item			
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
G	Identification plates, labels and the like; complete	1	item			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
(65) SECURITY SERVICES - ACCESS CONTROL SYSTEM						
<u>System</u>						
Door Entry & Access Control System installation; testing and commissioning; complete; The contractor shall provide and install a complete Access Control installation networking it back to the existing system as indicated on the drawings and specified. The electrical contractor shall employ the NSIA Approved Contractor completing the Intruder Alarm & Fire Alarm to design, supply, install and commission the access control system; all in strict accordance with the Electrical General Specifications, Project Particular Specification Section 65 and Drawing 2860-E-07						
A	Access Control & Intercom System	1	item			
<u>Equipment</u>						
Existing Access Control system; include for all adjustments to facilitate networking the existing access control system to the new Access control unit located in the entrance lobby of the new extension; include for all cable and accessories; extent of works to be viewed on-site; all works to be carried out to minimise disruption to the existing school functionality; tested and commissioned upon completion; all in accordance with the Electrical Specification						
B	Alertations to existing Access Control System	1	nr			
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
C	General Earthing & Bonding; Complete	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
D	Testing and commissioning; complete	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
E	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
F	Working drawings; complete	1	item			
20420 - Carrick on Shannon CS					To Collection €	
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Existing Building/66						

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
A	Co- ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
B	As built drawings; complete	1	item			
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
C	Identification plates, labels and the like; complete	1	item			
(65) SECURITY SERVICES - CCTV SYSTEM						
<u>System</u>						
Closed Circuit Television System installation, testing and commissioning; complete; The electrical contractor shall employ a NSIA Approved Contractor to supply and install a complete IP CCTV System within the new school extension linked back to the existing monitors located in the Principals Office; CAT 6A cabling shall be supplied to all CCTV camera locations; all in strict accordance with the Electrical General Specifications, Project Particular Specification Section (65) and Drawings 2860-E-07, 2860-E-08						
D	CCTV System	1	item			
<u>Equipment</u>						
Existing CCTV Central Control Equipment; include for all adjustment to facilitate the incorporation of all new IP CCTV cameras located in the new extension; include for all cable and accessories; tested and commissioned upon completion; extent of works to be viewed on-site; all in accordance with the Electrical Specification						
E	Alterations to Existing CCTV System; complete	1	nr			
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
F	General Earthing & Bonding; complete	1	item			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
A	Testing and commissioning; complete	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
B	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
C	Working drawings; complete	1	item			
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
D	Co- ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
E	As built drawings; complete	1	item			
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
F	Identification plates, labels and the like; complete	1	item			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
(65) PROTECTIVE SERVICES - FIRE ALARM						
<u>System</u>						
Fire Alarm installation; testing and commissioning; complete; The Contractor shall supply, install, test and commission an analogue, fully addressable, automatic Fire Detection & Alarm System; with a minimum of L3 coverage to IS3218:2013 +A1:2019 and as detailed on the drawings; the system and all equipment shall be open protocol; The sensors, sounders and manual call points shall be in the same loop circuit; All devices, sounders and break glass units shall be wired in 1.5mm² fire rated cable to PH120 classification; The fire alarm panel shall be fed via a 2.5 mm² fire rated cable to PH120 classification in conduit from a SP/N lockable isolator in the mains switchboard; The extension buildings shall be provided with Fire Alarm Panel which will be networked back to main school system to provide full coverage and indication from the main panel. The fire alarm system shall interface with the following: MCC, Gas Detection panels, Public address, Lifts, Disable WC alarm, Hold-Open Devices, Automatic assisted doors, Accessed controlled doors, Security Control Panels, Automatic opening vents, Fire Curtains, Ventilation Damper Controls, roller shutters; The entire system shall be tested and commissioned in accordance with IS3218:2013 on completion of the installation, documentation and as-installed drawings, including sound levels shall be included in the O&P manuals; an audibility test shall be carried out throughout the building; The contractor shall include for Fire Alarm Zone/Loop Chart. The contractor shall include for monitoring the installation and pay all costs for the first 12 months of operation; all in strict accordance with the Electrical General Specifications, Project Particular Specification Section (65) and Drawings 2860-E-05, 2860-E-06, 2860-E-18						
A	Fire Alarm System	1	item			
<u>Equipment</u>						
Existing Fire Alarm Panel; include for all adjustments to facilitate linking the existing FAP to the new FARP via 4c 1.5mm² enhanced grade fire alarm cable; include for all cable and accessories; tested and commissioned upon completion; extent of works to be viewed on-site; all in accordance with the Electrical Specification and Drawing 2860-E-18						
B	Alterations to Existing Fire Alarm System; complete	1	nr			
<u>Fittings</u>						
Fire Alarm Fittings; supply and installation (including wiring); including all necessary accessories; all in strict accordance with the Electrical Specification Section (65)						
C	Smoke Detector & Sounder Base (Ref: S)	1	nr			
D	Smoke Detector, Sounder & Beacon Base (Ref: S)	1	nr			
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Existing Building/69						

					€	c
<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
A	General Earthing & Bonding; complete	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
B	Testing and commissioning; complete	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
C	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
D	Working drawings; complete	1	item			
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
E	Co- ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
F	As built drawings; complete	1	item			
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
G	Identification plates, labels and the like; complete	1	item			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
(65) PROTECTIVE SERVICES - DISABLE REFUSE						
<u>System</u>						
Disable Refuse installation, testing and commissioning; complete; The electrical contractor will supply, install, test and commission a disabled refuse system. The Wheelchair Refuse Intercom shall be supplied and commissioned by the fire alarm specialist installer; The system shall provide secure two-way Duplex voice communication between each of the refuge points at each floor level and the master station located as indicated on the drawings. The system is to comply with the requirements of BS 5839 Part 9: 2003; Interconnecting wiring is to be carried out using enhanced grade fire rated cable (PH120) 4c 1.5mm² concealed within the fabric of the building and in concealed steel conduit to wall outlets and in conduit/ wire cable tray within service voids; Power supply units are to be capable of maintaining the system during power failures for a period not less than 30 minutes. The disable refuse panel located in the extension buildings will be networked back to main school system to provide full coverage; Wiring to the power unit shall be carried out 2.5mm² (PH120) enhanced grade white fire rated cables in conduit terminating in a 20A DP key switch located adjacent the power unit; Upon completion of the installation and immediately prior to Hand-Over of the Building, the complete installation shall be commissioned and tested in the presence of the Engineer; The Specialist Installer shall on two occasions in and around the 'Handover' date instruct the End-Users on the operation of the system; The Tenderer shall include in his tender for a one year maintenance contract from the Manufacturers; all in strict accordance with the Electrical General Specifications, Project Particular Specification Section 65, Phasing Works and Drawing 2860-E-05, 2860-E-06, 2860-E-18						
A	Disable Refuse System	1	item			
<u>Equipment</u>						
Existing Disabled Refuse Control Panel; include for all adjustments to facilitate linking the existing DRCP to the new DRCP via 4c 1.5mm² enhanced grade fire alarm cable; include for all cable and accessories; tested and commissioned upon completion; extent of works to be viewed on-site; all in accordance with the Electrical Specification and Drawing 2860-E-18						
B	Alterations to Existing Disable Refuse System	1	nr			
<u>General Earthing and Bonding</u>						
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification						
C	General Earthing & Bonding; Complete	1	item			
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Existing Building/71						

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
A	Testing and commissioning; complete	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
B	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
C	Working drawings; complete	1	item			
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
D	Co- ordination drawings;complete	1	item			
As built drawings; all in accordance with the Electrical Engineers Specification Documents						
E	As built drawings; complete	1	item			
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents						
F	Identification plates, labels and the like; complete	1	item			
(68) MECHANICAL WIRING INSTALLATIONS						
<u>Mechanical Wiring Installation; testing and commissioning; complete; Electrical Contractor must provide and issue as installed drawings for all electrical cabling associated with mechanical services. All wiring for mechanical services must be carried out under this contract to include wiring for heating, ventilation etc. The wiring to all mechanical devices must be taken from dedicated MCC (motor control centre) panels supplies; all in accordance with the Mechanical and Electrical Specification and Drawings</u>						
G	Mechanical Wiring Installation	1	item			

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>						
<u>Fittings</u>						
Heating system mechanical wiring provisions and final connections (ONLY); installation, testing and commissioning; complete; The Electrical Specialist shall include for the supply and installation of all LV/ELV control wiring cables to mechanically operated items installed under this contract; cables shall be drawn in trunking/ cable trays; all in accordance with the Electrical Engineers Specifications and Drawing 2860-E-17						
A	Digital Room Thermostats	2	nr			
Ventilation system mechanical wiring provisions and final connections (ONLY); installation, testing and commissioning; complete; The Electrical Specialist shall include for the supply and installation of all LV/ELV control wiring cables to mechanically operated items installed under this contract; cables shall be drawn in trunking/ cable trays; all in accordance with the Electrical Engineers Specifications and Drawing 2860-M-05 - 2860-M-07						
B	MVHR units	2	nr			
C	MVHR controllers	2	nr			
D	Co2 duct sensors	2	nr			
<u>General Earthing and Bonding</u>						
General Earthing and Bonding; Design parameters as defined within I.S 10101: 2020 regulations; all in strict accordance with the Electrical Engineers						
E	Generally	1	item			
<u>General</u>						
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents						
F	Testing and commissioning; complete	1	item			
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents						
G	Operating and maintenance manuals; complete	1	item			
Working drawings; all in accordance with the Electrical Engineers Specification Documents						
H	Working drawings; complete	1	item			
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents						
J	Co- ordination drawings;complete	1	item			
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Existing Building/73						

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<u>(6-) ELECTRICAL INSTALLATIONS (Cont)</u>					
COLLECTION					
Page No. Existing Building/50					
Page No. Existing Building/51					
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Page No. Existing Building/56					
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Page No. Existing Building/61					
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Page No. Existing Building/72					
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(6-) ELECTRICAL INSTALLATIONS (Cont) COLLECTION Page No. Existing Building/73 Page No. Existing Building/74 (6-) ELECTRICAL INSTALLATIONS Carried to Summary					
20420 - Carrick on Shannon CS August 2026 SFR115/Issue1/190207				Existing Building/76	

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<u>(71) DISPLAY, CIRCULATING FITTINGS - SIGNAGE (Cont)</u>						
<u>FITTINGS</u>						
Fitting, Equipment and Furniture						
Internal Signage Systems as per Architects Specification Ss 40 10 35 10; System manufacturer: Vista Systems or equivalent; Product reference: Submit proposals; Layout and dimensions: As per signage drawings; Contractor to provide artwork, drawings and schedules for all signs for comment by the ER. Signs to be sized in accordance with BS 8300: 9.2.3.1 Design and size of lettering and symbols; Lettering: Language: English and Irish (where indicated); Font: in accordance with BS 8300: 9.2.3.1 Design and size of lettering and symbols. Sanserif Font to be used; Font shall be ADA compliant; Colour: in accordance with Architect's Signage Drawings; Size: in accordance with Architect's signage drawings; Visual contrast, contractor to provide proposals; Sign type: Curved Vista wall sign, consists of anodised aluminium frame holder extrusion, two grey plastic (ABS) end caps, and an ADA compliant lens (clear with one colour raised text- clear braille). Printed insert provided by customer or sign shop; Supports/ Fixings: as per Architect's Signage Drawings; all in accordance with Architects Drawing 20-36-6501 and Specification Ss 40 10 35 10 Fittings; Internal Signage, Wall Mounted						
A	Signage Type S1; size 212.5mm long x 150.5mm high; silver anodised aluminium frame/back panel with changable paper inlay and non reflective perspex cover; with and including fixings to background structure; in locations to be agreed; Sign Text and Symbol: Room Name: 20mm high embossed text in "Sanserif" front type; English text to be black colour and italic, Irish text to be standard text colour to RAL 7011; Room Number: 17mm high Embossed text in "Sanserif" font type to top right hand corner, standard text colour black; Braille tactile symbol (indicating room name) to bottom left corner applied to perspex cover	2	nr			
B	Signage Type S2; size 212.5mm long x 110.5mm high; silver anodised aluminium frame/back panel with changable paper inlay and non reflective perspex cover; with and including fixings to background structure; in locations to be agreed; Sign Text and Symbol: Stair Number: 20mm high embossed text in "Sanserif" front type; English text to be black colour and italic, Irish text to be standard text colour to RAL 7011; Room Number: 16mm; Braille tactile symbol (indicating room name) to bottom left corner applied to perspex cover	2	nr			
Directional Signage; Vista Systems or equivalent; Curved Vista wall sign (channels on both sides), consists of clear anodized aluminum sign holder extrusion, two gray plastic (ABS) end caps, and an ADA compliant lens (clear with one color raised text - clear Braille); Printed insert provided by the customer or sign shop; Fixings: Mechanically fixed, mounted from walls; all in accordance with Architects Drawing 20-36-6501 and Architects Specification Ss 40 10 40 30 Fittings; Internal Signage, Projecting Signage						
C	Projecting Signage; size: to be agreed; with and including fixings to background structure; in locations to be agreed; all in accordance with the Architects specification	2	nr			
20420 - Carrick on Shannon CS August 2026 SFR115/Issue1/190207					To Collection €	
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				€	c
(71) DISPLAY, CIRCULATING FITTINGS - SIGNAGE (Cont)					
<u>Directional Signage; Vista Systems or equivalent; Curved Vista Wall sign (channels on both sides); consists of clear anodized aluminum sign holder extrusion; two clear anodized (Aluminum) end caps, black plastic divider; 1 - 1mm Glossy/Non-Glare lenses divided into no of sections, as required; Printed insert provided; Fixings: Mechanically fixed, suspended from ceiling; all in accordance with Architects Drawing 20-36-6501 and Architects Specification Ss 40 10 40 30</u> Fittings; Internal Signage, Ceiling Mounted Signage Type GF1; size 880mm long x 500mm high; curved vista wall sign; (channels on both sides), consists of clear anodized aluminum sign holder extrusion; two clear anodized (Aluminum) end caps; black plastic divider; 1 - 1mm Glossy/Non-Glare lenses divided into no of sections as required; Printed insert provided; in locations to be agreed; all in accordance with Architects Specification and Drawing 20-36-TD-6502					
1	nr				
20420 - Carrick on Shannon CS To Collection €					

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<u>(71) DISPLAY, CIRCULATING FITTINGS - SIGNAGE (Cont)</u>						
COLLECTION						
Page No. Existing Building/77						
Page No. Existing Building/78						
Page No. Existing Building/79						
(71) DISPLAY, CIRCULATING FITTINGS - SIGNAGE Carried to Summary						

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<u>(76) STORAGE, SCREENING FITTINGS - BLINDS</u>						
<u>SECTIONAL COMPLETION</u>						
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item			
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item			
<u>NOTES</u>						
C	1. For details of the nature and extent of the works to be carried out in this section, the Tenderer's shall refer to all Architect's Drawings and Specifications		note			
D	2. Notwithstanding that this Bill of Quantities is measured in accordance with the Agreed Rules of Measurement, the tenderer should note the following section is not measured in strict accordance with ARM. The Tenderer must include everything necessary to complete the works as no claims on the grounds on want of knowledge will be entertained whatsoever.		note			
<u>FITTINGS</u>						
Fitting, Equipment and Furniture						
Blinds to Architects Specification and Window Blind Schedule: Mechoshade manually operated units or equivalent; Thermoveil shade cloth 1300 series dense basket weave sunscreen material or equivalent; 3% openness factor (9-12% visible light transmission); Manual operated shade system MECHO/5 wide bracket chain driven roller system; Headrail: Zinc plated steel, colour white; Blinds: Polyester, Colour: Shade cloth to be light in colour & selected by Architect; Submit samples; Tube: Extruded aluminium; Testing: Solar transmittance. Appearance and tolerance; Safety factor; A test certificate as in Appendix C of Fire Safety of furnishings and fittings in place of assembly should be supplied for each item; Accessories: Powder coated steel fixing brackets. Cord or ball-chain tensioning system. Ballchain safety connector; all as per Architects Specification Pr. 30 59 07 72 and Window Blind Schedule Drawing 20-36-TD-6100						
Furniture, Furnishings; Type A						
E	Overall size 1200mm wide x 980mm high; complete	2	nr			
F	Overall size 2980mm wide x 980mm high; complete	2	nr			
G	Overall size 900mm wide x 980mm high; complete	2	nr			
20420 - Carrick on Shannon CS August 2026 SFR115/Issue1/190207					To Collection €	
Existing Building/81						

					€	c
<u>(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE</u>						
<u>SECTIONAL COMPLETION</u>						
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item			
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item			
C	NOTES					
D	1. The Tenderer is advised that the use of melamine faced chip board WILL NOT be permitted in any circumstances	1	note			
E	2. General standards for materials and finishes for fitted furniture; Core Materials for laminated worktops and components - High density chipboard to IS EN 312-3 type P3, class E1 formaldehyde content; Moisture resistant board to EN 312-5 type P5, class E1 formaldehyde content; Dry Fibre Board (MDF) to IS EN 622-5 Class E1 formaldehyde content; Moisture resistant board to IS EN 622-5 MDF.H, class E1 formaldehyde content; Plywood to conform with I.S. EN 1072, I.S. EN 314 and I.S. EN 636; All the above fibre board products to be tested to EN120 to have less than 8mg/100g free formaldehyde content (Class E1). Surface preparation: Prepare surfaces in accordance with decorative coating manufacturer's recommendations	1	note			
F	3. For details of the nature and extent of the works to be carried out in this section, the Tenderer's shall refer to all Architect's Drawings and Specifications	1	note			
G	4. All timber used in the construction of FURNITURE AND FITTINGS within this section to be accredited by the Forestry Standards Council (FSC) standard for sustainable timber; Refer to Architectural Room Layouts and Room Data Sheets for details, sizes and location of Furniture and Equipment; All furniture and equipment to comply with DoES Fitted Furniture Specification and Standards; The build up of furniture listed below generally only applies to fixed furniture and use of alternative materials and finishes of equal or higher specification and performance are permitted; In all cases however fully detailed fabrication drawings at a suitable scale must be provided by the subcontractor and agreed prior to any fabrication	1	note			
<u>MINIMUM STANDARDS FOR MATERIALS AND FINISHES</u>						
Core material for worktops, doors and carcasses:						
H	Dry Fibre Board (MDF) to IS En 622-5 Class E1 formaldehyde content tested to EN 120. Moisture resistant board to IS EN 622-5 MDF.H, class E1 formaldehyde content tested to EN 120.	1	note			

					€	c
<u>(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE (Cont)</u>						
A	Core materials to be finished with plastic laminates to comply with IS EN 438, grade HGS/HGP (including vertical panels, shelves and doors). Balancing laminate to be used in all cases.	1	note			
B	Edges of all laminates (if not postformed) to be finished with solid colour laminate (2mm thickness), PVC or hardwood edges to seal all edges.	1	note			
C	Solid timber to comply with IS EN 942, Class J10. FSC/PEFC chain of custody certification required for all timber and timber products, including MDF.	1	note			
Metal frames:						
D	Generally 60 x 30mm mild steel frame with welded caps and adjustable feet. Epoxy powder coated to selected RAL colour	1	note			
Ironmongery:						
E	Stainless steel door handles, reversed fixed through doors. High quality stainless steel or nickel plated self-closing hinges (180 degrees) and high quality cylinder style lock on masterkeyed system to suit the school's requirements;	1	note			
F	Hardwood plinth size to be coordinated with skirting height in rooms	1	note			
General						
G	Alternative materials and finishes of equal or higher specification and performance are permitted.	1	note			
H	Drawings to be read in conjunction with specification.	1	note			
J	Minimum worktop height to be 710mm.	1	note			
<u>CLASSROOM (2Nr)</u>						
<u>FITTINGS</u>						
Fitting, Equipment and Furniture						
Whiteboards - Description: Magnetic white board, fixed 800 - 900mm above finish floor level; Board type: Marker pen; Dimensions (w x h): 1200 x 1200mm; Frame - Material: Aluminium; Finish: Matt; Colour: RAL 9010, white; Surface - Colour: RAL 9010, white; Accessories: 300mm clip on pen ledge; as per Architects Specification Pr 40 30 25 96						
Furniture, Furnishings; White Boards						
K	1200mm x 1200mm high; generally	2	nr			

				€	c
<u>(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE (Cont)</u>					
Notice boards - Form: Wall mounted; Use: Pins; Board surface; Material: Cork; Finish: Felt; Colour: As selected by architect in consultation with the client; Frame; Material: Aluminium; Finish: Powder-coated aluminium with rounded safe corners; Fire rating: Tested and certified - Achieve class O rating; as per Architects Specification Pr 40 30 25 58 Furniture, Furnishings; Pin Boards 1800mm x 1200mm high; generally					
	2	nr			
20420 - Carrick on Shannon CS Final Bill (05) To Collection €					

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<u>(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE (Cont)</u>					
COLLECTION					
Page No. Existing Building/83					
Page No. Existing Building/84					
Page No. Existing Building/85					
(76) STORAGE, SCREENING FITTINGS - FITTED FURNITURE Carried to Summary					
20420 - Carrick on Shannon CS August 2026 SFR115/Issue1/190207				Existing Building/86	

					€	c
<u>(--) TEMPORARY ACCOMMODATION</u>						
<u>SECTIONAL COMPLETION</u>						
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item			
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item			
<u>(10) Demolitions and Alterations</u>						
<u>DEMOLITION & ALTERATIONS</u>						
Demolitions						
<u>Demolishing Parts of Structures</u>						
Demolition / Removal of parts of existing structure within the existing building; disposal of all materials off site; complete; all in strict accordance with the Work Requirements						
C	Demolition of walls to form new temporary fire escape in existing building; 215mm thick wall construction; Approx 1585mm long x 3320mm high; include new structural head, associated padstones, beams, saw cutting, disposal of all material; making good the existing structure and finishes of the adjoining existing walls to match existing. Tendering Contractor to visit the site in accordance with the Invitation To Tender to assess the full extent of the works to be completed. No claims on the grounds of want of knowledge will be entertained whatsoever; refer to Architects Drawing 0131 and Specification and Engineers Drawings and Specification	1	item			
D	Demolition of internal temporary stud partitions in existing building; Approx 10000mm long x 3400mm high; making good the existing structure and finishes of the adjoining existing walls to match existing. Tendering Contractor to visit the site in accordance with the Invitation To Tender to assess the full extent of the works to be completed. No claims on the grounds of want of knowledge will be entertained whatsoever; refer to Architects Drawing 0131 and Specification and Engineers Drawings and Specification	1	item			
E	Demolition of internal temporary partitions in existing building; Approx 1585mm long x 3400mm high; making good the existing structure and finishes of the adjoining existing walls to match existing. Tendering Contractor to visit the site in accordance with the Invitation To Tender to assess the full extent of the works to be completed. No claims on the grounds of want of knowledge will be entertained whatsoever; refer to Architects Drawing 0131 and Specification and Engineers Drawings and Specification	1	item			
20420 - Carrick on Shannon CS					To Collection €	
August 2026						
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Existing Building/87						

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<u>(--) TEMPORARY ACCOMMODATION (Cont)</u>						
Alterations						
<u>Cutting</u>						
Enlarge opening in existing external wall to form new opening; 1800mm wide x 2700mm high opening in existing 450mm thick external block wall; in order to create new opening; include new structural head, associated padstones, beams, saw cutting, new cill to match existing, making good to reveals etc; disposal of all material; making good the existing structure and finishes of the adjoining existing walls to match existing; refer to Architects Drawings and Specification and Engineers Drawings and Specification						
A	Generally; making good structure; making good finishings	1	nr			
<u>Removing</u>						
Fittings and Fixtures						
B	Existing Internal single door and frame; include all fittings, architrives, liners etc; disposal offsite upon removal	1	nr			
C	Existing Internal double door and frame; include all fittings, architrives, liners etc; set aside and refitted upon completion; ensure careful removal	1	nr			
D	Existing Windows, complete; Approx size 900mm x 1000mm high overall; include all fittings, frames etc; disposal off site and making good existing structure to receive new; ensure careful removal	1	nr			
<u>Building up</u>						
Openings or recesses in existing structures						
E	Build up existing ope in existing external block Wall (Following removal of double door- measured elsewhere), 450mm thick, approx 900mm wide x 2700mm high; to include tying into existing complete; make good all surrounding areas; as per Architects Drawings and Specification and Engineers Drawings and Specification	1	nr			
F	Build up existing ope in existing internal block Wall, 215mm thick, approx 1585mm wide x 3400mm high; to include tying into existing complete; make good all surrounding areas; as per Architects Drawings and Specification and Engineers Drawings and Specification	1	nr			
G	Build up previously enlarged ope in existing external block Wall, 450mm thick, approx 900mm wide x 3400mm high; to include tying into existing complete; make good all surrounding areas; as per Architects Drawings and Specification and Engineers Drawings and Specification	1	nr			

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<u>(--) TEMPORARY ACCOMMODATION (Cont)</u>						
<u>(22) Internal Walls</u>						
<u>FLOOR WALL AND CEILING FINISHES</u>						
Stud Partitions						
<u>Metal Stud Partition; 60min Fire rated stud partition; including 1nr layer of 15mm Gyproc Fireline plasterboard to both sides of Gypframe 70S50, including 'C' studs at 600mm centres, Accesories; as per manufacturers details, complete as per manufacturer's details; refer to Architects Drawing 0131 and Specification and Engineers Drawings and Specification</u>						
Partitions; 60MIN FR						
A	approx 3400mm high	14	m			
B	<u>Extra Over</u> for					
C	Abutments to other finishes	6	nr			
D	Head detail; including all sealants etc	14	m			
E	Base detail; including all sealants etc	14	m			
F	Forming Door Opening; Single door; Size 1000mm wide x 2400mm high	1	nr			
G	Forming Door Opening; Double door; Size 1585mm wide x 2400mm high	1	nr			
<u>(31) External Wall Completions</u>						
<u>METALWORK</u>						
Non-Structural						
<u>External Window; Existing window retained from demolitions to be fitted in existing external wall</u>						
Composite items; Windows						
H	Window Type 'existing' - overall size (including frame) 900mm x 1000mm high; comprising 1nr complete unit as retained on site	1	nr			

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<u>(--) TEMPORARY ACCOMMODATION (Cont)</u>						
<u>External Door System - External doors [Min. u-value 1.4 W/m2K]; Double glazed aluminium framed thermally broken external doors with polyester powder coat finish in selected RAL colour, with low E argon filled double glazed units, installed as per manufacturers specifications and details; all in accordance with Architect's specification and drawings</u>						
Composite items; Doors, Screens & Windows (combined sets)						
A	Temporary Double Door; Overall nominal size (including frame) 1800mm wide x 2400mm high; complete	1	nr			
B	<u>Extra over</u> for Safety Glass - Class 2B2	4	nr			
C	<u>Extra over</u> for manifestation to glazing	4	nr			
<u>(32) Internal Wall Completions</u>						
<u>WOODWORK</u>						
Boarding and Second Fixings						
<u>MDF Architraves - General requirements: Ac 05 50 91/340 Timber sourcing; Manufacturer: Medite FR Clear or equal approved; Class: To BS EN 622-5, Class E1 formaldehyde content; Profile: As per architects drawings; Finish: Primed and painted with selected Dulux Trade Satinwood; Colour: To be agreed with architect; Execution: Pr 35 90 43/606 Installing wood mouldings and trims; as per Architects Specification Pr 35 90 43 58</u>						
Second Fixing; Architraves						
D	75mm wide x 18mm thick; to jambs and heads of Internal Doors; all in strict accordance with Drawings 7004 - 7005	11	m			
Composite Items						
<u>Double Door; Existing double door retained from demolitions to be fitted in new partition</u>						
Single door & Screen and Associated Frame Sets; non-fire rated						
E	Overall opening size 1585mm wide x 2400mm high; installation only	1	nr			

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<u>(--) TEMPORARY ACCOMMODATION (Cont)</u>						
Wood Doorsets; Description: Factory manufactured solid core doorsets. All doorsets to be laminate faced with factory primed and painted hardwood slips, framing, architraves and trims finished prior to arrival on site; Third party accreditation: European recognised certification, Trada, Certifire or Equivalent; Standard: Internal non-fire rated doorset third party accredited. Internal fire rated doorset to BS 8214 and third party accredited; Wood in joinery standard: To BS EN 942.; Configuration: Varies - Refer to Architects internal door schedule; Doorset size: Varies - Refer to Architects internal door schedule; Format: Varies - Refer to Architects internal door schedule; Performance; Fire performance; Fire integrity: To BS 476-22, 30 minutes. To BS 476-22, 60 minutes. Varies - Refer to Architects internal door schedule; Fire insulation: To BS 476-22, 30 minutes. To BS 476-22, 60 minutes. Varies - Refer to Architects internal door schedule; Smoke control: To BS EN 13501-2, class Sa. All fire doors require smoke control; Reaction to fire: To BS EN 13501-1, class B-s3, d2 or better; Acoustic performance: To BS EN ISO 10140-2, sound reduction index Rw 30 dB minimum; Strength and durability: To BS EN 1192, Class 3; Frame ; Material: Hardwood; Species: Iroko; Appearance class: J40; Perimeter seals or inserts: Acoustic seals. Fire and smoke seal; Finish: Full paint finish; Colour: To be agreed with ER; Frame accessories: Refer to Architects door and ironmongery schedules; Door leaf; Thickness: 44mm for non-fire rated doors. 56mm for fire rated doors; Core: Solid core. Appearance class: J40. Panel details: Refer to Architects door schedule. Facings: VGS grade laminate. Lippings: Hardwood, painted. Perimeter seals: Acoustic, Fire and smoke; In accordance with Architects door schedule; Finish: sanded sealed and varnished. Free from splinters; Glazing: Type: Refer to Architects door schedule. All glazing to be clear. Fire-resisting safety glazing in accordance with BS 6262-4. Clear single safety glazing in accordance with BS 6262-4. All glazing to display stamp for Kite mark certification; Manifestation: Refer to Architects door schedule; Beading; Material: Softwood for non-fire rated doors. Hardwood for fire rated doors. In accordance with manufacturers third party certification; Fixing: In accordance with manufacturers third party certification; Door accessories: Refer to Architects door & ironmongery schedules; Planted stops; Wood species: Iroko; Appearance class: J40; Finish: Full paint finish; Colour: To be agreed with ER; Hardware: Refer to Architects door & ironmongery schedules; Architraves; Material: Medite Clear MDF; Wood appearance class: To BS EN 942, Class J40; Finish: Primed ready for site finish; Accessories: Refer to Architects door & ironmongery schedules; Execution: Pr 30 59 23/630 Installing hardware; Pr 30 59 23/640 Workmanship in joinery; all in accordance with Architect's Specification Pr 30 59 24 97 and Ss 25 30 20 25. Single door and Associated Frame Sets; 60min fire rated						
A	Overall opening size 1000mm wide x 2400mm high; comprising of 1nr single door; including all acoustic seals, fire resistant channel and all intumescent seals, strips etc	1	nr			

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<u>(--) TEMPORARY ACCOMMODATION (Cont)</u>						
Ironmongery, Accessories And Sundries						
<u>Supply and fix the following ironmongery items; Manufacturer: Contractor to submit proposals for approval; including all necessary fixings; fixing in strict accordance with the Architects specification and manufacturer's printed instructions; refer to Ironmongery Schedule</u>						
Ironmongery; to doors						
A	Ironmongery Set KC1003.1	1	nr			
<u>Acoustic seal between door & door frames; Batwing perimeter seal to frame with threshold seal to door base (measured elsewhere); all in strict accordance with Architect's Drawing 7005</u>						
Sundries; Seals						
B	Batwing acoustic seal	11	m			
<u>Acoustic seals to internal doors; Threshold seal to bottom of doors; fire rated acoustic drop seal (max drop 15mm); fitted in accordance with manufacturer's instructions; all in strict accordance with Architect's Drawing 7005</u>						
Sundries; Seals						
C	Generally	2	m			
<u>PAINTING & DECORATING</u>						
Painting						
<u>Waterborne finishes to internal joinery - Description: Dulux Easycare Satinwood paint to all Internal MDF and non-resinous softwood/hardwood; Manufacturer: Dulux Paints Ireland, Commons Road, Cork, Ireland Tel. Number:+353 (0) 21 4220222; Product reference: Dulux Easycare Satinwood (satin finish); Coverage: 12m#/litre; Preparation: To get the best results with Dulux Easycare Satinwood, make sure surfaces to be painted are sound, clean, dry (new surfaces particularly must be fully dry). Remove all loose and defective paint; Colour: to be agreed; Execution: Pr 35 31 22/703 Applying coating Internal woodwork; as per Architects Specification Pr 35 31 22 95</u>						
General Surfaces						
D	Girth not exceeding 300mm; Architraves	11	m			
E	Girth exceeding 300mm; Woodset doors	5	m2			

					€	c
<u>(--) TEMPORARY ACCOMMODATION (Cont)</u>						
<u>(42) Internal Wall Finishes</u>						
<u>PAINTING AND DECORATING</u>						
Painting						
Waterborne mid-sheen finishes Internal Plastered Walls. Manufacturer: Dulux Trade or equivalent. Product reference: Diamond Eggshell (mid sheen finish) or equivalent. Film Thickness will be dependent on the coverage achieved. Wet: 63 microns. Dry: 23 microns. Composition (nominal). Pigment: Lightfast Pigments. Binder: Acrylic Copolymer Emulsion. Solvent: Water. Volume Solids: White - 37% (nominal). Other colours will vary Coverage: 16 m2/litre. Colour: to to be confirmed. Application:: STIR THOROUGHLY BEFORE USE. Seal new or bare surfaces with a thinned first coat of Dulux Trade Diamond Eggshell (up to 1 part clean water to 10 parts paint). Finish: 2 full coats of Dulux Trade Diamond Eggshell. Preparation: Make sure surfaces to be painted are sound, clean, dry (new surfaces particularly must be fully dry) and free from all defective or poorly adhering material such as dirt, grease and wax. New or bare surfaces should be primed with an appropriate Dulux Trade primer. Thoroughly rub down previously painted surfaces using 'wet flattening' methods where possible, then wipe off with a damp, lint free cloth. Special precautions should be taken during surface preparation of pre-1960s paint surfaces over wood and metal as they may contain harmful lead. Treat knots with a suitable knotting solution. Any surface defects should be filled with the appropriate Polycell Trade Polyfilla; all in strict accordance with the Architect's Drawings and Specification Pr 35 31 22 98						
Walls						
A	Exceeding 300mm wide	93	m2			
<u>(43) FLOOR FINISHES</u>						
<u>WOODWORK</u>						
Boarding and Second Fixings						
Medium density fibreboard (MDF) skirtings; General requirements: Ac 05 50 91/340 Timber sourcing; Manufacturer: Medite FR Clear or equivalent; Class: To Architects Specification, Class E1 formaldehyde content; Profile: As per architects drawings; Finish: Primed and painted with selected Dulux Trade Satinwood; Colour: To be agreed with architect; Execution: Pr 35 90 43/606 Installing wood mouldings and trims - Fixing - General: Fix securely; Secret fixing: Secret nailed, first and last rows surface nailed; Surface fixing: Face nailed; Exposed nail heads: Neatly punch below surface and filled; as per Architects Specification Pr 35 90 43 58 & Drawing 20-36-5001						
Skirtings						
B	Generally; 100mm high x 18mm thick	53	m			

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<u>(--) TEMPORARY ACCOMMODATION (Cont)</u>					
Ironmongery, Accessories and Sundries					
<u>Sundries; Non-hardening sealant to skirting/wall junction; all in strict accordance with Architect's Details on Drawings</u>					
Seals					
A	Generally	53	m		
<u>FLOOR, WALL & CEILING FINISHES</u>					
Flexible Sheet Finishes					
<u>FLOOR TYPE 13 - Marmoleum - to Match Existing; Linoleum sheets - Description: Linoleum floor coverings, refer to Architects finishes plan; Manufacturer: Forbo Flooring Systems UK Ltd or equivalent; Product reference: Forbo Marmoleum Marble or equivalent; Thickness: 2.5mm; Colour and pattern: To be agreed with Architect; To be installed as per manufacturers recommendations; as per Architects Specification Pr 35 57 71 46 & Ss 30 42 72 72</u>					
Floors					
B	Exceeding 300mm wide	67	m2		
<u>PAINTING AND DECORATING</u>					
Painting					
<u>Waterborne finishes to internal joinery; Description: Dulux Easycare Satinwood paint to all Internal MDF and non-resinous softwood / hardwood; Manufacturer: Dulux Paints Ireland or equivalent; Product reference: Dulux Easycare Satinwood (satin finish); Coverage: 12m2/litre; Preparation: To get the best results with Dulux Easycare Satinwood, make sure surfaces to be painted are sound, clean, dry (new surfaces particularly must be fully dry); Remove all loose and defective paint; Colour: to be agreed; Execution: Pr 35 31 22/703 Applying coating Internal woodwork; as per Architects Specification Pr 35 31 22 95</u>					
Second Fixings					
C	Girth not exceeding 300mm; Skirtings	53	m		

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(--) TEMPORARY ACCOMMODATION (Cont)					
(45) CEILING FINISHES					
<u>PAINTING AND DECORATING</u>					
Painting					
<u>Waterborne matt and flat finishes Ceilings; Description: Painting to plasterboard ceilings and walls generally; Manufacturer: Dulux Paints Ireland or equivalent; Product reference: Dulux Trade Diamond Matt; Coverage: 13-15 m2/ litre; Colour: to be agreed; Application: Apply 2 coats with a brush or roller, leave 2-4 hours between coats; Do not apply in very damp or humid conditions or in extreme temperatures; Preparation: Ensure surfaces to be painted are sound, clean, dry (new surfaces particularly must be fully dry); Execution: Pr 35 31 22/703 Applying coating system Internal walls; as per Architects Specification Pr 35 31 22 97</u>					
Ceilings					
A	Exceeding 300mm	67	m2		

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<u>(--) TEMPORARY ACCOMMODATION (Cont)</u>					
COLLECTION					
Page No. Existing Building/87					
Page No. Existing Building/88					
Page No. Existing Building/89					
Page No. Existing Building/90					
Page No. Existing Building/91					
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Page No. Existing Building/94					
Page No. Existing Building/95					
(--) TEMPORARY ACCOMMODATION					
Carried to Summary					
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Existing Building/96					

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SITEWORKS

<u>(10) SITE PREPARATION</u>			
<u>SECTIONAL COMPLETION</u>			
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item
<u>DEMOLITIONS AND ALTERATIONS</u>			
<u>GENERAL</u>			
C	THE ONUS IS ON THE CONTRACTOR TO VISIT THE SITE OF THE WORKS AND TO SATISFY HIMSELF AS TO THE NATURE AND EXTENT OF THE WORKS AND ALL OTHER MATTERS THAT MIGHT INFLUENCE HIS PRICE OR TIME FOR COMPLETION OF THE WORKS (ARRANGEMENTS TO VISIT THE SITE SHOULD BE MADE WITH THE EMPLOYER'S REPRESENTATIVE). THE CONTRACTOR MUST INCLUDE WITHIN HIS PRICE FOR ALL WORKS IN CONNECTION WITH THE DEMOLITION WORKS AND WORKS TO THE EXISTING BUILDINGS, WHICH COULD BE REASONABLY FORESEEN OR IMPLIED BY THE TENDER DOCUMENTS. NO CLAIMS ON THE GROUNDS OF WANT OF KNOWLEDGE IN RESPECT OF THE ABOVE WILL BE ENTERTAINED WHATSOEVER.	1	item
D	All demolition work is to be carried out in accordance with BS 6187 and the Health and Safety Executive Guidance Notes GS29/1, 3 and 4; All operatives must be appropriately skilled and experienced for the type of work and must hold or be training to obtain relevant CITB Certificates of Competence; All site staff responsible for supervision and control of work are to be experienced in the assessment of the risks involved and in the methods of demolition to be used.	1	item
E	Demolition work is to be entrusted only to workmen with experience in this type of work, and all precautions must be taken to avoid accidents and to safeguard persons and property.	1	item
F	All excess builders rubble, topsoil, demolished materials etc, that is to be disposed off site, must be disposed in a licensed landfill site approved by the local authority.	1	item
G	The Contractor shall provide and maintain all necessary temporary fencing, hoarding, fans, planked footways, gaurdrails, gantries and the like for the protection of the Public and meeting the requirements of the Local Authority.	1	item
H	The Contractor is to include for all necessary scaffolding, hoisting and other facilities required for carrying out the works. Contractor also to make provisions for adequately supporting all structures if required.	1	item

<u>(10) SITE PREPARATION (Cont)</u>				
A	The Contractor should include herein for all costs associated with obtaining the appropriate licences, as these must be undertaken prior to any works being carried out	1	item	
B	The Contractors attention is drawn to the presence of existing services; due care must be taken when excavating in the proximity of existing buildings and boundaries	1	item	
C	When pricing the following items, the Contractor's attention is drawn to the information contained in the Works Requirements & Appendices of this Pricing Document. The Contractor's rates are to include for all items specifically referred to or implied therein. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.	1	item	
D	The Contractor must provide a method statement to the Architect for approval, outlining in detail the manner in which he proposes to carry out the removal of the asbestos materials contained within the site.	1	item	
E	The Contractor shall report to the Employer's Representative any bench marks or other survey information found on any structures that are to be demolished; any bench marks or information found must not be removed or destroyed unless instructed by the Employer's Representative	1	item	
F	The Contractor must note that any work carried out to or which affects new or existing services must be in accordance with the byelaws or regulations of the relevant statutory authority	1	item	
G	The Contractor should include herein for all costs associated with the locating and marking the positions of services affected by the demolition work; Contractor shall arrange with the appropriate authorities for the locating and marking of the positions of the mains services	1	item	
H	The Contractor must arrange with the appropriate authorities, before demolition is commenced, for the disconnection of services and removal of fixtures, fittings, furniture and equipment	1	item	
J	The Contractor must take adequate precautions to prevent fire or explosion caused by gas or vapour	1	item	
K	The Contractor must reduce dust by periodically spraying general demolition works with water during any alteration works to masonry etc.	1	item	
L	The Contractor must take adequate precautions to protect site operatives and the general public from health hazards associated with dangerous fumes and dust arising during the course of the works	1	item	
M	The Contractor should include herein for all costs associated with the temporary support and protection of adjoining property and buildings; Contractor must repair any damage caused at his own expense; Contractor must not leave any unnecessary or unstable projections and report any exposed or apparent defects to the Employer's Representative	1	item	

<u>(10) SITE PREPARATION (Cont)</u>				
A	The Contractor must illuminate and protect and dangerous openings as necessary	1	item	
B	The Contractor should include herein for all costs associated with the removal of any timber infected by fungal/insect attack; the timber must be removed from the building and destroyed as soon as possible	1	item	
C	The Contractor must include herein for submitting to the Architect / Engineer, prior to commencement, the order and method of each operation. This is to include proposed methods of propping, shoring, protection of adjoining properties, areas, etc.	1	item	
D	The demolition shall be carried out without damage to adjoining properties. If such damage should occur, the Contractor shall reinstate and make good at his own expense.	1	item	
E	The Contractor shall ensure the safety of works and public during demolition works. Demolition work should be carried out so as to cause minimum inconvenience to the public and to adjoining owners.	1	item	
F	The Contractor shall include herein for clearly indicating, in writing, the manner of demolition i.e. machine, mechanical tools, piece by piece hand method etc. for each area	1	item	
G	The Contractor must note that no method of demolition which will transmit vibration into adjoining properties shall be permitted.	1	item	
H	The contractor must peruse the Architects and Engineers drawings and check all dimensions on site. No claim on the grounds of discrepancies between on site dimensions and drawings, in regards to demolition and associated works, will be entertained whatsoever.	1	item	
J	The contractor must include herein for ensuring that all services, electricity, gas, telecommunications, water, sewage, etc., are made safe prior to demolition	1	item	
K	The contractor is to report to the Architect / Engineer details of any underground chambers, vaults, walls, etc., discovered during demolition work.	1	item	
L	The contractor must prevent access to unauthorised persons to partly demolished structures and must leave the site safe at close of each days work.	1	item	
M	Care must be taken to prevent debris from overloading any part of the structure	1	item	
N	The Contractor shall ensure that the impact of the works on the surroundings are in accordance with the set maximum levels for vibration and noise as defined in the guidelines presented in the relevant codes of practice.	1	item	

<u>(10) SITE PREPARATION (Cont)</u>				
<u>DEMOLITIONS AND ALTERATIONS</u>				
General Information				
<u>Information</u>				
A	The contractor should consult with the Architect and must visit the site to ascertain the extent of the works involved under this section. No variations will be approved for works that ought to have been apparent to the contractor after a site inspection and review of the Architects drawings and specifications		note	
B	The Contractors attention is drawn to the presence of existing services; due care must be taken when excavating in the proximity of existing buildings and boundaries		note	
C	The following demolition works include for disposal off-site of debris material		note	
DEMOLITIONS AND ALTERATIONS - SITE CLEARANCE				
<u>General Clearance</u>				
D	Pruning existing trees and hedges; approximately 100 long; disposal of all materials off-site; Tendering Contractor to visit the site in accordance with the Invitation To Tender to assess the full extent of the works to be completed. No claims on the grounds of want of knowledge will be entertained whatsoever; refer to Architects Drawings	1	item	
DEMOLITION - EXISTING BUILDINGS				
E	The Contractor is responsible for ensuring that all services, electricity, gas, telecommunications, water, sewage, etc., are made safe prior to demolition.		item	
F	Any damage to services that are required to be maintained are to be made good at the Contractors expense.		item	

<u>(10) SITE PREPARATION (Cont)</u>				
Demolishing Individual Structures				
<u>Buildings & Ancillary Site Structures</u>				
Demolition / Removal of Existing Buildings throughout the site; disposal of all materials off site; complete; all in strict accordance with the Work Requirements				
A	Demolition / Removal of Existing Temporary Prefabs during Phase 3 of construction; Single Storey; Floor area: 280m ² ; include for demolition of all associated staircore, porches, outshots, roofs, guttering, downpipes etc.; complete; including all substructures, structures, partitions, completions, coverings, finishes, fittings, fixtures and furniture, plumbing, electrical and engineering installations, etc.; including concrete ramps / steps and steel railings outside prefabs; include for grubbing up existing foundations and backfilling with Grade C16/20 S3 lean mix to the Engineer's Satisfaction; disposal of all materials off site; Tendering Contractor to visit the site in accordance with the Invitation To Tender to assess the full extent of the works to be completed. No claims on the grounds of want of knowledge will be entertained whatsoever; refer to Architect's Drawing and Phasing Drawings	1	item	
B	Demolition / Removal of Existing Temporary Prefabs during Phase 3 of construction; Single Storey; Floor area: 133m ² ; include for demolition of all associated staircore, porches, outshots, roofs, guttering, downpipes etc.; complete; including all substructures, structures, partitions, completions, coverings, finishes, fittings, fixtures and furniture, plumbing, electrical and engineering installations, etc.; including concrete ramps / steps and steel railings outside prefabs; include for grubbing up existing foundations and backfilling with Grade C16/20 S3 lean mix to the Engineer's Satisfaction; disposal of all materials off site; Tendering Contractor to visit the site in accordance with the Invitation To Tender to assess the full extent of the works to be completed. No claims on the grounds of want of knowledge will be entertained whatsoever; refer to Architect's Drawing and Phasing Drawings	1	item	
C	Existing Shed to be demolished and removed; Approx floor area: 55m ² ; include for grubbing up and disposal of existing concrete footings and backfilling with Grade C16/20 S3 lean mix to Engineer's satisfaction; disposal of all materials off-site; Tendering Contractor to visit the site in accordance with the Invitation To Tender to assess the full extent of the works to be completed. No claims on the grounds of want of knowledge will be entertained whatsoever; refer to Architects Drawings	1	nr	
ALTERATIONS				
<u>Removing</u>				
Fittings and Fixtures				
D	Existing steel container to be removed off-site; Approx floor area: 30m ² ; refer to Architects Drawings	1	nr	

<u>(10) SITE PREPARATION (Cont)</u>				
A	Existing School Sign to be removed (located at entrance); include for grubbing up and disposal of existing concrete footings and backfilling with Grade C16/20 S3 lean mix to Engineer's satisfaction; disposal of all materials off-site; Tendering Contractor to visit the site in accordance with the Invitation To Tender to assess the full extent of the works to be completed. No claims on the grounds of want of knowledge will be entertained whatsoever; refer to Architects Drawings	1	nr	
Plumbing and Engineering Installations				
B	Removal and disposal of existing storm manholes (10 No.); include grubbing up, removal of covers and disposal offsite; price should be based on 1500mm - 2000mm deep	1	item	
C	Removal and disposal of existing foul manholes (5 No.); include grubbing up, removal of covers and disposal offsite; price should be based on 1500mm - 2000mm deep	1	item	
D	Removal, disposal, making good and backfilling existing Storm lines/ sewer runs throughout the proposed site; include for grubbing up and disposal of all pipework; pipe diameter: 225mm; pipe length; Approx 365m; include fittings, etc.; include for disposal & making good where necessary; backfilling with Grade C16/20 S3 lean mix to the Engineer's Satisfaction; price should be based on 1500mm - 2000mm deep;complete	1	item	
E	Removal, disposal, making good and backfilling existing Foul lines/ sewer runs throughout the proposed site; include for grubbing up and disposal of all pipework; pipe diameter: 225mm; pipe length; Approx 180m; include fittings, etc.; include for disposal & making good where necessary; backfilling with Grade C16/20 S3 lean mix to the Engineer's Satisfaction; price should be based on 1500mm - 2000mm deep;complete	1	item	
F	Removal, disposal, making good and backfilling existing Watermain lines/runs throughout the proposed site; include for grubbing up and disposal of all pipework; pipe diameter: 100mm; pipe length; Approx 34m; include fittings, etc.; include for disposal & making good where necessary; backfilling with Grade C16/20 S3 lean mix to the Engineer's Satisfaction; complete	1	item	
G	Removal and disposal of existing water Hydrants (2 No.); include for grubbing up and disposal of all associated pipework; include fittings, etc.; include for disposal & making good where necessary; backfilling with Grade C16/20 S3 lean mix to Engineer's Satisfaction; complete; refer to Engineers Drawings	1	item	
H	Removal and disposal of existing oil tanks (1 No.); include for grubbing up and disposal of all associated pipework; pipework length: Approx. 50m; include fittings, etc.; include for disposal & making good where necessary; backfilling with Grade C16/20 S3 lean mix to Engineer's Satisfaction; complete; refer to M&E Engineers Drawing	1	item	

<u>(10) SITE PREPARATION (Cont)</u>			
A	Removal and disposal of existing gas tanks (2 No.); include for grubbing up and disposal of all associated pipework; pipework length: Approx. 50m; include fittings, etc.; include for disposal & making good where necessary; backfilling with Grade C16/20 S3 lean mix to Engineer's Satisfaction; complete; refer to M&E Engineers Drawing	1	item
B	Removal and disposal of existing site lighting columns; approx 10 No; include for grubbing up and disposal of all associated wiring and pipework; include fittings, etc.; include for disposal & making good where necessary; backfilling with Grade C16/20 S3 lean mix to Engineer's Satisfaction; complete; refer to M&E Engineers Drawing	1	item
C	Removal, disposal, making good and backfilling all existing site services installations - mechanical and electrical installations (above and below ground) throughout the proposed site; include for grubbing up and disposal of all ducting, fittings, valves, junctions, covers, junction boxes, pits, manholes, tanks, meters, etc.; include for disposal & making good where necessary; backfilling with Grade C16/20 S3 lean mix to Engineer's Satisfaction; complete; Tendering Contractor to visit the site in accordance with the Invitation To Tender to assess the full extent of the works to be completed. No claims on the grounds of want of knowledge will be entertained whatsoever; Contractor to assess existing drainage on site before pricing this item; refer to M&E Engineers Drawings	1	item
D	Removal, disposal, making good and backfilling all existing site services installations - mechanical and electrical installations (above and below ground) to the existing temporary accommodation; include for grubbing up and disposal of all ducting, fittings, valves, junctions, covers, junction boxes, pits, manholes, tanks, meters, etc.; include for disposal & making good where necessary; backfilling with Grade C16/20 S3 lean mix to Engineer's Satisfaction; complete; Tendering Contractor to visit the site in accordance with the Invitation To Tender to assess the full extent of the works to be completed. No claims on the grounds of want of knowledge will be entertained whatsoever; Contractor to assess existing drainage on site before pricing this item; refer to M&E Engineers Drawings	1	item
<u>EXCAVATION AND EARTHWORK</u>			
Excavation			
<u>Removing</u>			
Trees			
E	Girth 0.45 - 1.5m	5	nr
F	Girth 1.5 - 3.0m	6	nr
Site vegetation			
G	Generally, scrub, vegetation etc., disposing off-site	2,231	m2

<u>(10) SITE PREPARATION (Cont)</u>			
<u>Excavation</u>			
Topsoil for preservation			
A	Average depth approx. 100mm	2,231	m2
Reduce levels			
B	Depth between not exceeding 2.00m	2,854	m3
<u>Extra on Excavation Items for:</u>			
Breaking up existing			
C	Reinforced Concrete; Concrete slab; 100mm; complete; include for associated concrete kerbs	10	m3
D	Hard surfaces; Tarmacadam surface; 145mm thick; complete	819	m2
<u>Disposal</u>			
Water			
E	Surface	1	item
F	Ground	1	item
Topsoil			
G	For preservation in spoil heaps on-site; as directed by the Architect	224	m3
Excavated material; All surplus materials to be disposed of off-site to a licenced waste disposal facility granted by the EPA under Section 40 of the Waste Management Act or by the Local Authority under the Waste Facility Permit Regulations			
H	Disposal on site	312	m3
J	Disposal off site	2,085	m3
K	Disposal off site; made ground material; Disposal to an inert waste licensed landfill	328	m3
L	Disposal off site; existing concrete; Disposal to a suitable licensed waste disposal facility	10	m3
M	Disposal off site; existing Tarmac; Disposal to a suitable licensed waste disposal facility	119	m3

<u>(10) SITE PREPARATION (Cont)</u>				
<u>Filling with granular fill material to be obtained off-site; Class 6F1 compliant with TII Publications series 600, free from pyrite and macarsite; depositing in 150mm layers maximum thickness; compacting; as per Engineers Drawings and Specification</u>				
To make up levels				
A	Average thickness exceeding 250mm	660	m3	
<u>Filling with excavated material to be obtained from on site spoil heaps; depositing and compacting as specified by the Employer's Representative</u>				
To make up levels				
B	Average thickness exceeding 250mm	312	m3	
<u>WORK OUTSIDE THE BOUNDARY OF THE SITE</u>				
<u>Extra Over For: -</u>				
C	A portion of the works in this section are outside the boundary of the site; see Architect's & Engineer's Drawings	1	item	

(10) SITE PREPARATION (Cont)

COLLECTION

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**(10) SITE PREPARATION
Carried to Summary**

<u>(30) SITE ENCLOSURES - TIMBER GATE AND FENCE</u>				
<u>SECTIONAL COMPLETION</u>				
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item	
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item	
<u>SURFACE PAVINGS, FENCING AND LANDSCAPING</u>				
Fencing				
<u>Timber Fence; Height: 1850mm; 125 mm x 25 mm treated timber planks to both sides of fence, painted in selected colour; 100 x 100 mm treated timber posts to SE specification, painted in selected colour; Timber posts cast in situ to foundation to Engineer's details; Stainless steel bolt and rim lock; Treated timber framed gate with 125 mm x 25 mm treated timber planks to the outside face, painted in selected colour; 3 no. stainless steel weighty Scotch tee hinges; include for all necessary end posts, corner posts, fixings, caps, clips, security screws, excavation, disposal, backfilling, concrete foundation, formwork, reinforcement and fixings; all in accordance with the Landscape Architect's Specification and Drawing 0407</u>				
Timber Fence				
C	1850mm high above ground level	3	m	
Gates				
D	Single gate; opening size approx 1087mm wide x 1850mm high	1	nr	

(30) SITE ENCLOSURES - TIMBER GATE AND FENCE (Cont)

COLLECTION

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(30) SITE ENCLOSURES - TIMBER GATE AND FENCE
Carried to Summary

<u>(30) SITE ENCLOSURES - BALLCOURT FENCING</u>			
<u>SECTIONAL COMPLETION</u>			
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item
<u>SURFACE PAVINGS, FENCING AND LANDSCAPING</u>			
<u>Fencing</u>			
<u>Metal mesh panel fencing systems; Description: Irfen Kinsale Mesh System or equivalent; System manufacturer: Irish Fencing Services or equivalent; Standard: To BS 1722-14; Category: 1; Height: 2400 mm at ballcourts, 1800 mm at boundaries; Posts: Hot dipped galvanised post and subsequently electrostatically powder coated in a plant complying to EN 1722 Part 16, sizes vary, refer to Architect's drawings; Post centres: Max 2530 mm; Post foundations: Erect posts plumb and level in 25 N concrete bases minimum size 350 x 350 x 800 mm or as recommended by supplier, set 100 mm below ground level; Panels: Hot dipped galvanised powder coated 5 mm vertical wires and 6 mm horizontal wires, finished in polyester powder coating to EN 1722 Part 16; Fixings: Irfen steel clips with 8 mm anti-vandal bolts; Execution: Ss 25 14 63/605 Alignment of fences; Ss 25 14 63/607 Fencing work generally; System completion: Submit manufacturer's and installer certificates to BS 1722-14; include for all necessary end posts, corner posts, fixings, caps, clips, security screws, excavation, disposal, backfilling and fixings; all in accordance with the Architect's Specification Ss 25 14 67 51 and Drawing 0403</u>			
Open Mesh Steel Panel Fencing System			
C	2400mm high above ground level	99	m
<u>Extra over for</u>			
D	Angle posts; 60x60x2 SHS posts, 2400mm high above ground level and 900mm below ground level; set in 450x450x600mm deep concrete grade C28/35 base	4	nr
Gates			
E	Double gate; opening size approx 2000 x 2400mm high	2	nr
F	Double gate; opening size approx 4000 x 2400mm high	2	nr

<u>(30) SITE ENCLOSURES - BALLCOURT FENCING (Cont)</u>				
<u>100x100x10 SHS hot dipped galvanised RHS powder coated post; gate posts set in 1000x1000x1000mm C28/35 concrete pocket; top of concrete 300mm below ground level; galvanised to Architect Specification and polyester powder coating to Architects Specification in selected colour, colour to be chosen by the Architect from samples provided on site by the Contractor; complete</u>				
Gate Posts				
A	100 x 100 SHS posts; 2400mm high above ground level and 900mm below ground level; min 600mm embedment in concrete	8	nr	

(30) SITE ENCLOSURES - BALLCOURT FENCING (Cont)

COLLECTION

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(30) SITE ENCLOSURES - BALLCOURT FENCING
Carried to Summary

<u>(30) SITE ENCLOSURES - ASHP COMPOUND</u>				
<u>SECTIONAL COMPLETION</u>				
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item	
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item	
<u>EXCAVATION AND EARTHWORK</u>				
General Information				
<u>Information</u>				
C	The contractor should consult with the Architect and must visit the site to ascertain the extent of the works involved under this section. No variations will be approved for works that ought to have been apparent to the contractor after a site inspection and review of the Architects drawings and specifications		note	
D	When pricing the following items the Contractor's attention is drawn to the location of the site. The Contractor should also visit and check the site. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.		note	
Excavation				
<u>Excavation</u>				
<u>Filling with hardcore to be obtained off-site; Clause 804 crushed stone well compacted on firm clean formation; compliant with TII Publications series 800, free from pyrite and macarsite as per Engineer's specification</u>				
To make up levels				
E	Average thickness exceeding 250mm	6	m3	
<u>Filling with granular fill material to be obtained off-site; Class 6F2 compliant with TII Publications series 600, free from pyrite and macarsite; depositing in 150mm layers maximum thickness; compacting; as per Engineers Drawings and Specification</u>				
To make up levels				
F	Average thickness exceeding 250mm	14	m3	

<u>(30) SITE ENCLOSURES - ASHP COMPOUND (Cont)</u>				
<u>Surface treatments</u>				
Levelling and compacting; bottom of excavations				
A	Horizontal	23	m2	
<u>CONCRETE WORK</u>				
In-situ Concrete				
<u>Concrete cubes for testing</u>				
Provide for making concrete cubes from freshly mixed concrete; transporting and testing cubes; all as per details in Engineer's Concrete Specification				
B	Size 150 x 150 x 150mm	2	nr	
In-situ Concrete; Reinforced				
<u>Grade C30/37</u>				
Beds				
C	Generally; Reinforced	10	m3	
Reinforcement				
<u>Fabric</u>				
A393 mesh reinforcement; 350mm laps; 350mm end laps; all in strict accordance with the Engineers Drawings and Specification				
D	Horizontal	23	m2	
Formwork				
<u>Formwork Generally</u>				
Sides of beds				
E	Height or width 250 - 500mm	20	m	
F	<u>Extra over</u> for forming recess in floor slab for district heating pipe; comprising 125mm dia x 400mm deep recess; include for cutting to all angles and corners	4	nr	

<u>(30) SITE ENCLOSURES - ASHP COMPOUND (Cont)</u>				
<u>SURFACE PAVINGS, FENCING AND LANDSCAPING</u>				
Fencing				
Precast concrete post and panel fencing systems Heat Pump Enclosure; <u>Description: Concrete post and timber panel fence to heat pump enclosure; System manufacturer: Contractor to submit proposals; Posts: Concrete H posts at max 1800 mm centres, 1800 mm high above ground level, concrete H posts set into concrete base as per manufacturer's instructions; Posts cast into 450x450x600mm deep concrete grade C28/35 base, starting 300mm below ground level; posts embedded 600mm minimum into foundation; Panels: Sitka spruce, 100 mm x 16 mm pressure treated round top hit and miss vertical timber panels (double sided), 1500 mm high, fixed to 3 no. 70 mm x 30 mm pressure treated horizontal battens; Finish: At least 2 coats zinc-rich paint; Base panels: 50 mm x 300 mm x 1800 mm concrete base panels; Gate: Sitka spruce, 100 mm x 16 mm pressure treated round top hit and miss vertical timber panels (double sided), 1800 mm high, fixed to 3 no. 70 mm x 30 mm pressure treated horizontal battens, with 100 mm x 100 mm pressure treated timber posts; Finish: At least 2 coats zinc-rich paint; Accessories: 3 no. stainless steel heavy duty scotch tee hinges, stainless steel bolt and rim lock; Execution: Ss 25 14 63/605 Alignment of fences; Ss 25 14 63/607 Fencing work generally; Ss 25 14 63/614 Formation of holes for cast-in fence posts; Ss 25 14 63/616 Compacted hardcore settings for fence posts; System completion: Ss 25 14 63/870 Inspection of fencing systems; include for all necessary end posts, corner posts, fixings, caps, clips, security screws, excavation, disposal, backfilling, concrete footing, mesh reinforcement, formwork and fixings; all in accordance with the Architect's Specification Ss 25 14 63 65 and Drawing</u>				
Precast concrete post and panel fencing system				
A	1800mm high above ground level	20	m	
Gates				
B	Single gate; opening size approx 1187 x 1800mm high	1	nr	

(30) SITE ENCLOSURES - ASHP COMPOUND (Cont)

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(30) SITE ENCLOSURES - ASHP COMPOUND
Carried to Summary

<u>(30) SITE ENCLOSURES - GAS COMPOUND</u>			
<u>SECTIONAL COMPLETION</u>			
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item
<u>EXCAVATION AND EARTHWORK</u>			
General Information			
<u>Information</u>			
C	The contractor should consult with the Architect and must visit the site to ascertain the extent of the works involved under this section. No variations will be approved for works that ought to have been apparent to the contractor after a site inspection and review of the Architects drawings and specifications		note
D	When pricing the following items the Contractor's attention is drawn to the location of the site. The Contractor should also visit and check the site. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.		note
Excavation			
<u>Excavation</u>			
<u>Filling with hardcore to be obtained off-site; Clause 804 crushed stone well compacted on firm clean formation; compliant with TII Publications series 800, free from pyrite and macarsite as per Engineer's specification</u>			
To make up levels			
E	Average thickness exceeding 250mm	6	m3
<u>Filling with granular fill material to be obtained off-site; Class 6F2 compliant with TII Publications series 600, free from pyrite and macarsite; depositing in 150mm layers maximum thickness; compacting; as per Engineers Drawings and Specification</u>			
To make up levels			
F	Average thickness exceeding 250mm	16	m3

<u>(30) SITE ENCLOSURES - GAS COMPOUND (Cont)</u>			
<u>Surface treatments</u>			
Levelling and compacting; bottom of excavations			
A	Horizontal	27	m2
<u>CONCRETE WORK</u>			
In-situ Concrete			
<u>Concrete cubes for testing</u>			
Provide for making concrete cubes from freshly mixed concrete; transporting and testing cubes; all as per details in Engineer's Concrete Specification			
B	Size 150 x 150 x 150mm	3	nr
In-situ Concrete; Reinforced			
<u>Grade C30/37</u>			
Beds			
C	Generally; Reinforced	11	m3
Reinforcement			
<u>Fabric</u>			
A393 mesh reinforcement; 350mm laps; 350mm end laps; all in strict accordance with the Engineers Drawings and Specification			
D	Horizontal	27	m2
Formwork			
<u>Formwork Generally</u>			
Sides of beds			
E	Height or width 250 - 500mm	21	m
F	<u>Extra over</u> for forming recess in floor slab for district heating pipe; comprising 125mm dia x 400mm deep recess; include for cutting to all angles and corners	2	nr

<u>(30) SITE ENCLOSURES - GAS COMPOUND (Cont)</u>				
<u>SURFACE PAVINGS, FENCING AND LANDSCAPING</u>				
Fencing				
<u>Metal mesh panel fencing systems; Description: Irfen Kinsale Mesh System or equivalent; System manufacturer: Irish Fencing Services or equivalent; Standard: To BS 1722-14; Category: 1; Height: 2400 mm at ballcourts, 1800 mm at boundaries; Posts: Hot dipped galvanised post and subsequently electrostatically powder coated in a plant complying to EN 1722 Part 16, sizes vary, refer to Architect's drawings; Post centres: Max 2530 mm; Post foundations: Erect posts plumb and level in 25 N concrete bases minimum size 350 x 350 x 800 mm or as recommended by supplier, set 100 mm below ground level; Panels: Hot dipped galvanised powder coated 5 mm vertical wires and 6 mm horizontal wires, finished in polyester powder coating to EN 1722 Part 16; Fixings: Irfen steel clips with 8 mm anti-vandal bolts; Execution: Ss 25 14 63/605 Alignment of fences; Ss 25 14 63/607 Fencing work generally; System completion: Submit manufacturer's and installer certificates to BS 1722-14; include for all necessary end posts, corner posts, fixings, caps, clips, security screws, excavation, disposal, backfilling and fixings; all in accordance with the Architect's Specification Ss 25 14 67 51 and Drawing 0404</u>				
Open Mesh Steel Panel Fencing System				
A	1800mm high above ground level	21	m	
<u>Extra over for</u>				
B	Angle posts; 60x60x2 SHS posts, 2400mm high above ground level and 900mm below ground level; set in 450x450x600mm deep concrete grade C28/35 base	4	nr	
Gates				
C	Single gate; opening size approx 1500 x 1800mm high	2	nr	
<u>100x100x10 SHS hot dipped galvanised RHS powder coated post; gate posts set in 1000x1000x1000mm C28/35 concrete pocket; top of concrete 300mm below ground level; galvanised to Architect Specification and polyester powder coating to Architects Specification in selected colour, colour to be chosen by the Architect from samples provided on site by the Contractor; complete</u>				
Gate Posts				
D	100 x 100 SHS posts; 2400mm high above ground level and 900mm below ground level; min 600mm embedment in concrete	4	nr	

(30) SITE ENCLOSURES - GAS COMPOUND (Cont)

COLLECTION

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(30) SITE ENCLOSURES - GAS COMPOUND
Carried to Summary

<u>(30) SITE ENCLOSURES - GATE TO REAR OF EXISTING SCHOOL</u>				
<u>SECTIONAL COMPLETION</u>				
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item	
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item	
<u>SURFACE PAVINGS, FENCING AND LANDSCAPING</u>				
<u>Fencing</u>				
<u>Metal mesh panel fencing systems; Description: Irfen Kinsale Mesh System or equivalent; System manufacturer: Irish Fencing Services or equivalent; Standard: To BS 1722-14; Category: 1; Height: 2400 mm at ballcourts, 1800 mm at boundaries; Posts: Hot dipped galvanised post and subsequently electrostatically powder coated in a plant complying to EN 1722 Part 16, sizes vary, refer to Architect's drawings; Post centres: Max 2530 mm; Post foundations: Erect posts plumb and level in 25 N concrete bases minimum size 350 x 350 x 800 mm or as recommended by supplier, set 100 mm below ground level; Panels: Hot dipped galvanised powder coated 5 mm vertical wires and 6 mm horizontal wires, finished in polyester powder coating to EN 1722 Part 16; Fixings: Irfen steel clips with 8 mm anti-vandal bolts; Execution: Ss 25 14 63/605 Alignment of fences; Ss 25 14 63/607 Fencing work generally; System completion: Submit manufacturer's and installer certificates to BS 1722-14; include for all necessary end posts, corner posts, fixings, caps, clips, security screws, excavation, disposal, backfilling and fixings; all in accordance with the Architect's Specification Ss 25 14 67 51 and Drawing 0403</u>				
Open Mesh Steel Panel Fencing System				
C	2400mm high above ground level	5	m	
<u>Extra over for</u>				
D	Angle posts; 60x60x2 SHS posts, 2400mm high above ground level and 900mm below ground level; set in 450x450x600mm deep concrete grade C28/35 base	2	nr	
Gates				
E	Double gate; opening size approx 4000 x 2400mm high	1	nr	

(30) SITE ENCLOSURES - GATE TO REAR OF EXISTING SCHOOL (Cont)

100x100x10 SHS hot dipped galvanised RHS powder coated post; gate posts set in 1000x1000x1000mm C28/35 concrete pocket; top of concrete 300mm below ground level; galvanised to Architect Specification and polyester powder coating to Architects Specification in selected colour, colour to be chosen by the Architect from samples provided on site by the Contractor; complete

Gate Posts

A

100 x 100 SHS posts; 2400mm high above ground level and 900mm below ground level; min 600mm embedment in concrete

2

nr

(30) SITE ENCLOSURES - GATE TO REAR OF EXISTING SCHOOL (Cont)

COLLECTION

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Page No. Siteworks/25

**(30) SITE ENCLOSURES - GATE TO REAR OF EXISTING SCHOOL
Carried to Summary**

<u>(30) SITE ENCLOSURES - RETAINING WALL</u>			
<u>SECTIONAL COMPLETION</u>			
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item
<u>EXCAVATION AND EARTHWORK</u>			
General Information			
<u>Information</u>			
C	The contractor should consult with the Architect and must visit the site to ascertain the extent of the works involved under this section. No variations will be approved for works that ought to have been apparent to the contractor after a site inspection and review of the Architects drawings and specifications		note
D	When pricing the following items the Contractor's attention is drawn to the location of the site. The Contractor should also visit and check the site. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.		note
Excavation			
<u>Excavation</u>			
Foundation Trenches			
E	Depth between 4.00 - 6.00m	813	m3
Soft spots			
F	Depth between 4.00 - 6.00m	41	m3
<u>Working Space</u>			
Foundations			
G	Depth between 4.00 - 6.00m; backfilling trenches with clause 804 hardcore compliant with SR21 Annex E	194	m2

<u>(30) SITE ENCLOSURES - RETAINING WALL (Cont)</u>			
<u>Disposal</u>			
Water			
A	Surface	1	item
B	Ground	1	item
Excavated material; All surplus materials to be disposed of off-site to a licenced waste disposal facility granted by the EPA under Section 40 of the Waste Management Act or by the Local Authority under the Waste Facility Permit Regulations			
C	Disposal Off-site	813	m3
D	Disposal Off-site; for soft spots	41	m3
<u>Filling with hardcore to be obtained off-site; Clause 804 crushed stone well compacted on firm clean formation; compliant with TII Publications series 800, free from pyrite and macarsite as per Engineer's specification</u>			
To make up levels			
E	Average thickness exceeding 250mm	323	m3
<u>Surface treatments</u>			
Levelling and compacting; bottom of excavations			
F	Horizontal	105	m2
<u>CONCRETE WORK</u>			
In-situ Concrete			
<u>Concrete cubes for testing</u>			
Provide for making concrete cubes from freshly mixed concrete; transporting and testing cubes; all as per details in Engineer's Concrete Specification			
G	Size 150 x 150 x 150mm	30	nr
<u>Grade C12/15</u>			
Bulk filling to soft spots			
H	Generally; poured on or against earth or unblinded hardcore	41	m3
Blinding			
J	Generally; poured on or against earth or unblinded hardcore	6	m3

<u>(30) SITE ENCLOSURES - RETAINING WALL (Cont)</u>				
	Trench Fill			
A	Generally; poured on or against earth or unblinded hardcore	105	m3	
	In-situ Concrete; Reinforced			
	<u>Grade C28/30</u>			
	Foundations			
B	Generally; Reinforced	42	m3	
	Walls			
C	Generally; Reinforced	42	m3	
	Reinforcement			
	<u>Bar reinforcement; hot rolled deformed high yield steel; must be free of loose millscale and thoroughly cleaned to remove all loose rust, oil, grease or other harmful matter prior to being placed in position with and including all necessary laps, spacers, chairs and tying wire; all in strict accordance with the Engineers Drawings and Specification</u>			
	Bar; straight or bent			
D	Nominal size not exceeding 12mm diameter	1.40	t	
E	Nominal size 12mm - 25mm diameter	12.60	t	
	<u>Fabric</u>			
	A393 mesh reinforcement; 350mm laps; 350mm end laps; all in strict accordance with the Engineers Drawings and Specification			
F	Horizontal	210	m2	
	<u>Surface Finishes</u>			
	Trowelling			
G	Generally	12	m2	
	Formwork			
	<u>Formwork Generally</u>			
	Sides of foundations			
H	Height or width 250 - 500mm	75	m	

<u>(30) SITE ENCLOSURES - RETAINING WALL (Cont)</u>				
	Kickers			
A	Walls	38	m	
	Walls			
B	Vertical; Both sides; Retaining Wall	279	m2	
	Precast Concrete			
	<u>PRECAST CAPPINGS GENERALLY; Concrete: Components manufacturer's 'proprietary' concrete; Identity: Submit labelled sample; Evidence: Submit third party certification from a UKAS accredited laboratory; Exposure class: N/A; Reinforced components: Submit proposals for type of reinforcement and cover; Matching sample for finish to visible faces: As reference sample; Other requirements: Lay on a full bed of mortar to line and level; Joints are to be equally spaced with sections at opposite ends of wall to be equal in size no less than half the full size of a full coping section; Copings to be mechanically fixed down to wall below, with fixings to contractor's design, and loadings as per Engineer's specification; Forward proposals for joints to architect prior to fabrication of copings/cappings; Coping/Capping DPCs; Placement: Bed in one operation to ensure maximum bond between masonry units, mortar and dpc; Dpcs crossing cavity: Provide rigid support to prevent sagging; All cappings to boundary walls to be vandal-proof cappings to CA approval (Fixing system and Products to be Agreement Certified) unless otherwise clearly shown as in-situ cappings; as per Architect's Drawings & Specification</u>			
	Copings			
C	400 x 50mm; top of walls	38	m	
	<u>METALWORK</u>			
	Non-Structural			
	<u>Guardrail - 1500 mm high railing consisting of 50 x 20 mm powder coated steel frame, fixed to 60 x 60 mm powder coated mild vertical posts, with 15 mm dia solid powder coated steel vertical members at 100 mm centres fixed to powder coated steel frame; Vertical posts fixed to plate, fixed to face of retaining wall.; As per Architects Specification and Drawing 0409</u>			
	Composite Items; Railing, Complete			
D	Railing; 1500mm high	38	m	

<u>(30) SITE ENCLOSURES - RETAINING WALL (Cont)</u>			
<u>FLOOR, WALL AND CEILING FINISHES</u>			
In-situ Finishes			
Render Finish. 20mm 3-coat sand cement render with napp finish. Min. U-Value: 0.18 W/m2K. System performance: To IS 325. First undercoat: Ss 25 45 70/630 Site mixed rendering mortar. Second undercoat: Ss 25 45 70/630 Site mixed rendering mortar. Final coat: Ss 25 45 70/630 Site mixed rendering mortar; to Architects Drawing 5.01 and Specifications Ss 25 45 70 55 & Ss 25 45 70/630			
Walls			
A	Exceeding 300mm wide; to concrete	128	m2
Beads/ stops for External Use, Material: PVC-U. Form: Angle bead. Movement bead. Stop bead (standard wing). Stop bead (bell cast). To suit render depth: 19 mm. Colour: White; fixed in strict accordance with the Architect's Drawings and Specification Pr 35 90 07 72 & Pr 35 90 07/650			
Sundries			
B	External Corner Beads at openings; Horizontal	75	m
C	External Corner Beads at openings; Vertical	21	m
D	Stop Beads; Horizontal	75	m
E	Stop Beads; Vertical	21	m
F	Stop Bead fixed to base of render at ground in accordance with manufacturers instructions	75	m

(30) SITE ENCLOSURES - RETAINING WALL (Cont)				
<u>PAINTING AND DECORATING</u>				
Painting				
Water-based masonry paints. Painting to external walls with Napp Render Finish. Manufacturer: Crown Trade or equivalent. Texture: Smooth. Colour: To be agreed with ER. Properties: Drying Time Under normal drying conditions touch dry in 1-2 hours and recoatable after 4- 6 hours. Finish Smooth. Composition Pigment: Titanium Dioxide, light fast coloured pigments and extenders. Binder: Vinyl acetate copolymer. Solvent: Water. Spreading Rate Up to 16m2 per litre. On textured surface the spreading rate will vary down to approx. 4m2 per litre. Wet Film Thickness 62.4 micrometres at 16m2 per litre. Dry Film Thickness 19.73 micrometres at 16m2 per litre. Volume Solids 31% Brilliant White. Other colours will vary. Flash Point Not applicable. VOC Content EU limit value for this product (cat.A/c): 40 g/l (2010). This product contains max. 1 g/l VOC. Limitations EN1062-6 Classification C1 (R = 192m) - Taylor Woodrow Certificate of Test No: 8825. Do not apply when there is a risk of rain, air or substrate temperatures are likely to fall below 8°C or when the relative humidity is above 80% during application or the drying period. Do not use on bitumen coatings. The decoration of Fletton brickwork either facings or commons is not recommended. Preparation: New Surfaces. All surfaces must be sound, clean, suitably dry and free from anything that will interfere with the adhesion of the materials to be applied. Surfaces with suction (porous surfaces) should be treated with an application of Crown Trade Stronghold Stabilising Solution (Clear). Coating System: Apply two coats as required. Application: Stir well before use. Apply by brush, medium or long pile roller depending on surface texture, or by airless spray. For airless spray use a minimum fluid pressure of 2000psi (136 bar) and a minimum tip size of 0.018 thou. Mask as necessary with a wet strength grade masking paper; all as per Architects Drawing and Specification Pr 35 31 22 96				
Walls; to rendered concrete				
A	Exceeding 300mm wide	128	m2	

<u>(30) SITE ENCLOSURES - RETAINING WALL (Cont)</u>				
COLLECTION				
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Page No. Siteworks/31				
Page No. Siteworks/32				
(30) SITE ENCLOSURES - RETAINING WALL Carried to Summary				
20420 - Carrick On Shannon CS August 2026 SFR115/Issue1/190207				
Siteworks/33				

<u>(30) SITE ENCLOSURES - PLANTER WALLS</u>			
<u>SECTIONAL COMPLETION</u>			
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item
<u>EXCAVATION AND EARTHWORK</u>			
General Information			
<u>Information</u>			
C	The contractor should consult with the Architect and must visit the site to ascertain the extent of the works involved under this section. No variations will be approved for works that ought to have been apparent to the contractor after a site inspection and review of the Architects drawings and specifications		note
D	When pricing the following items the Contractor's attention is drawn to the location of the site. The Contractor should also visit and check the site. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.		note
Excavation			
<u>Excavation</u>			
Foundation Trenches			
E	Depth not exceeding 2.00m	10	m3
Soft spots			
F	Depth not exceeding 2.00m	1	m3
<u>Working Space</u>			
Foundations			
G	Depth not exceeding 2.00m; backfilling trenches with clause 804 hardcore compliant with SR21 Annex E	21	m2

<u>(30) SITE ENCLOSURES - PLANTER WALLS (Cont)</u>			
<u>Disposal</u>			
Water			
A	Surface	1	item
B	Ground	1	item
Excavated material; All surplus materials to be disposed of off-site to a licenced waste disposal facility granted by the EPA under Section 40 of the Waste Management Act or by the Local Authority under the Waste Facility Permit Regulations			
C	Disposal Off-site	10	m3
D	Disposal Off-site; for soft spots	1	m3
<u>Filling with hardcore to be obtained off-site; Clause 804 crushed stone well compacted on firm clean formation; compliant with TII Publications series 800, free from pyrite and macarsite as per Engineer's specification</u>			
To make up levels			
E	Average thickness not exceeding 250mm	3	m3
<u>Surface treatments</u>			
Levelling and compacting; bottom of excavations			
F	Horizontal	13	m2
<u>CONCRETE WORK</u>			
In-situ Concrete			
<u>Concrete cubes for testing</u>			
Provide for making concrete cubes from freshly mixed concrete; transporting and testing cubes; all as per details in Engineer's Concrete Specification			
G	Size 150 x 150 x 150mm	5	nr
<u>Grade C16/20 S3</u>			
Bulk filling to soft spots			
H	Generally; poured on or against earth or unblinded hardcore	1	m3
Blinding			
J	Generally; poured on or against earth or unblinded hardcore	1	m3

<u>(30) SITE ENCLOSURES - PLANTER WALLS (Cont)</u>				
<u>Grade C25/30</u>				
Foundations				
A	Generally; Reinforced	4	m3	
Walls				
B	Generally; Reinforced	3	m3	
Reinforcement				
<u>Fabric</u>				
Reference A393; 350mm side laps; 350mm end laps				
C	Horizontal	13	m2	
D	Vertical	14	m2	
<u>Surface Finishes</u>				
Trowelling				
E	Generally; insitu concrete staircases and landings	3	m2	
Formwork				
<u>Formwork Generally</u>				
Sides of foundations				
F	Height or width not exceeding 250mm	26	m	
Kickers				
G	Walls	13	m	
Walls				
H	Height or width exceeding 500mm	23	m2	

<u>(30) SITE ENCLOSURES - PLANTER WALLS (Cont)</u>			
<u>BRICKWORK AND BLOCKWORK</u>			
Brickwork			
Clay bricks; Description: Clay Facing Bricks. Manufacturer: Ibstock Brick Ltd. <u>Product reference: Staffordshire Blue Brindle Smooth - Clay bricks. Standard: To BS EN 771-1. Brick description: Facing brick. Work size (length x width x height): 215 x 102 x 65 mm. Tolerances Mean value: T2. Range: R1. Compressive strength Mean compressive strength (minimum): 75 N/mm2. Durability designation: F2~ S2. Density Gross dry: 1650 kg/m3. Water absorption: 7 percentage. Configuration: Vertically perforated. Thermal conductivity: 1.19 K; As per Architect's Specification Pr. 20 93 52 15.</u>			
Walls			
A	102.5mm thick	6	m2
<u>Extra over</u> for special bricks/blocks			
B	brick soilder course capping; 215mm wide x 150mm high	13	m
Labours			
C	On brickwork	1	Item
Blockwork			
Aggregate concrete blocks; Manufacturer: To Structural Engineers Specification; Standard: I.S. EN 771-3; Compressive strength : Characteristic value: To Structural Engineers Specification; Thermal conductivity: To I.S. EN 1745 Masonry and masonry products-Methods for determining design thermal values . table A3; Reaction to fire: Class A1 Euro code 6 # I.S. EN 1996 Design of Masonry Structures # Part 1-2: General Rules # Structural Fire Design, defines the methods and calculations to determine the fire resistance of concrete block walls; Execution: Pr. 20 93 52/625 Brickwork and blockwork appearance; Pr. 20 93 52/690 Laying brick and block masonry units generally; Pr. 20 93 52/635 Brickwork and blockwork pointing; Pr. 20 93 52/630 Brickwork and blockwork bond; All as per architecture specification section Pr. 20 93 52 01.			
Walls in trenches			
D	100mm thick	6	m2
E	215mm thick	6	m2
Walls			
F	215mm thick	6	m2
Labours			
G	On blockwork	1	item

<u>(30) SITE ENCLOSURES - PLANTER WALLS (Cont)</u>				
<u>Designed Joints</u>				
MOVEMENT JOINTS WITH SEALANT TO EXTERNAL CONCRETE BLOCKWORK; Joint preparation and sealant application: As section Z22; Filler: Closed cell polyethylene foam; Thickness: To match design width of joint; Manufacturer: Contractor's choice to be approved; Product reference: Contractor's choice to be approved; Placement: Build in as work proceeds with no projections into cavities and to correct depth to receive sealant system; Sealant: Manufacturer: Contractor's choice to be approved; Product reference: Contractor's choice to be approved; Colour: To match adjoining blockwork; Ties: slip ties to be at max vertical spacing of 225mm and horizontal spacing of 200mm centred around movement joint; wall ties to be at max vertical spacing of 225mm and horizontal spacing of 225mm centred around movement joint; all in accordance with Architects Drawings and Specification & Engineers Drawing				
A	Generally	4	m	
<u>Visqueen zedes CPT high preferomance DPC; As per Architect Specification and drawing 0017</u>				
Damp proof courses				
B	Width not exceeding 225mm; stepped	51	m	
C	Width exceeding 225mm; vertical	12	m2	
Ancillaries to Brickwork / Blockwork				
<u>Forming cavities between new walls; Dove tail stainless steel ties at 450mm c/c horizontal and vertical to 102.5mm thick brick wall / 100mm thick block wall and concrete wall; all as per Engineers Specification and Drawing</u>				
Forming cavities				
D	0mm wide cavity	23	m2	
<u>FITTINGS</u>				
Fittings Equipment and Furniture				
<u>Hardwood timber Seating Timber: 150x50mm lengths of solid iroko (treated with teak oil) to form setaing; Iroko or equivalent; 100x25mm timber packer with visqueen zedex cpt high performance; As per Architects Specification and Drawing 0017</u>				
Fittings; Bench on top of wall				
E	Timber bench on top of planter wall: 450mm wide	13	m	

<u>(30) SITE ENCLOSURES - PLANTER WALLS (Cont)</u>				
<u>DRAINAGE</u>				
Below Ground				
<u>Granular fill bed and surround; 10mm single sized aggregate; complying with the requirements of IS EN 12620 & should have a compaction factor value not greater than 0.2 when measured in accordance with BS EN 752:2017; granular side and fill cover to be placed uniformly on either side of the pipe in layers not exceeding 100mm, each layer being compacted by hand and tamping until the pipe has a minimum 150mm compacted cover; as per Engineer's Drawings & Specification</u>				
Beds and Surround				
A	400 x 400mm to 100mm diameter pipe	13	m	
<u>Pipework; land drain pipe</u>				
Pipes; perforated; PVC SN8 pipework and fittings; as per Engineer's Drawings & Specification				
B	100mm diameter; include for geotextile cloth wrapping for protection	13	m	

(30) SITE ENCLOSURES - PLANTER WALLS (Cont)

COLLECTION

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**(30) SITE ENCLOSURES - PLANTER WALLS
Carried to Summary**

<u>(30) SITE ENCLOSURES - ALTERATIONS TO SITE ENTRANCE</u>				
<u>SECTIONAL COMPLETION</u>				
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item	
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item	
<u>DEMOLITIONS AND ALTERATIONS</u>				
<u>GENERAL</u>				
C	THE ONUS IS ON THE CONTRACTOR TO VISIT THE SITE OF THE WORKS AND TO SATISFY HIMSELF AS TO THE NATURE AND EXTENT OF THE WORKS AND ALL OTHER MATTERS THAT MIGHT INFLUENCE HIS PRICE OR TIME FOR COMPLETION OF THE WORKS (ARRANGEMENTS TO VISIT THE SITE SHOULD BE MADE WITH THE EMPLOYER'S REPRESENTATIVE). THE CONTRACTOR MUST INCLUDE WITHIN HIS PRICE FOR ALL WORKS IN CONNECTION WITH THE DEMOLITION WORKS AND WORKS TO THE EXISTING BUILDINGS, WHICH COULD BE REASONABLY FORESEEN OR IMPLIED BY THE TENDER DOCUMENTS. NO CLAIMS ON THE GROUNDS OF WANT OF KNOWLEDGE IN RESPECT OF THE ABOVE WILL BE ENTERTAINED WHATSOEVER.	1	item	
D	All demolition work is to be carried out in accordance with BS 6187 and the Health and Safety Executive Guidance Notes GS29/1, 3 and 4; All operatives must be appropriately skilled and experienced for the type of work and must hold or be training to obtain relevant CITB Certificates of Competence; All site staff responsible for supervision and control of work are to be experienced in the assessment of the risks involved and in the methods of demolition to be used.	1	item	
E	Demolition work is to be entrusted only to workmen with experience in this type of work, and all precautions must be taken to avoid accidents and to safeguard persons and property.	1	item	
F	All excess builders rubble, topsoil, demolished materials etc, that is to be disposed off site, must be disposed in a licensed landfill site approved by the local authority.	1	item	
G	The Contractor shall provide and maintain all necessary temporary fencing, hoarding, fans, planked footways, gaurdrails, gantries and the like for the protection of the Public and meeting the requirements of the Local Authority.	1	item	
H	The Contractor is to include for all necessary scaffolding, hoisting and other facilities required for carrying out the works. Contractor also to make provisions for adequately supporting all structures if required.	1	item	

<u>(30) SITE ENCLOSURES - ALTERATIONS TO SITE ENTRANCE (Cont)</u>				
A	The Contractor should include herein for all costs associated with obtaining the appropriate licences, as these must be undertaken prior to any works being carried out	1	item	
B	The Contractors attention is drawn to the presence of existing services; due care must be taken when excavating in the proximity of existing buildings and boundaries	1	item	
C	When pricing the following items, the Contractor's attention is drawn to the information contained in the Works Requirements & Appendices of this Pricing Document. The Contractor's rates are to include for all items specifically referred to or implied therein. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.	1	item	
D	The Contractor must provide a method statement to the Architect for approval, outlining in detail the manner in which he proposes to carry out the removal of the asbestos materials contained within the site.	1	item	
E	The Contractor shall report to the Employer's Representative any bench marks or other survey information found on any structures that are to be demolished; any bench marks or information found must not be removed or destroyed unless instructed by the Employer's Representative	1	item	
F	The Contractor must note that any work carried out to or which affects new or existing services must be in accordance with the byelaws or regulations of the relevant statutory authority	1	item	
G	The Contractor should include herein for all costs associated with the locating and marking the positions of services affected by the demolition work; Contractor shall arrange with the appropriate authorities for the locating and marking of the positions of the mains services	1	item	
H	The Contractor must arrange with the appropriate authorities, before demolition is commenced, for the disconnection of services and removal of fixtures, fittings, furniture and equipment	1	item	
J	The Contractor must take adequate precautions to prevent fire or explosion caused by gas or vapour	1	item	
K	The Contractor must reduce dust by periodically spraying general demolition works with water during any alteration works to masonry etc.	1	item	
L	The Contractor must take adequate precautions to protect site operatives and the general public from health hazards associated with dangerous fumes and dust arising during the course of the works	1	item	
M	The Contractor should include herein for all costs associated with the temporary support and protection of adjoining property and buildings; Contractor must repair any damage caused at his own expense; Contractor must not leave any unnecessary or unstable projections and report any exposed or apparent defects to the Employer's Representative	1	item	

<u>(30) SITE ENCLOSURES - ALTERATIONS TO SITE ENTRANCE (Cont)</u>				
A	The Contractor must illuminate and protect and dangerous openings as necessary	1	item	
B	The Contractor should include herein for all costs associated with the removal of any timber infected by fungal/insect attack; the timber must be removed from the building and destroyed as soon as possible	1	item	
C	The Contractor must include herein for submitting to the Architect / Engineer, prior to commencement, the order and method of each operation. This is to include proposed methods of propping, shoring, protection of adjoining properties, areas, etc.	1	item	
D	The demolition shall be carried out without damage to adjoining properties. If such damage should occur, the Contractor shall reinstate and make good at his own expense.	1	item	
E	The Contractor shall ensure the safety of works and public during demolition works. Demolition work should be carried out so as to cause minimum inconvenience to the public and to adjoining owners.	1	item	
F	The Contractor shall include herein for clearly indicating, in writing, the manner of demolition i.e. machine, mechanical tools, piece by piece hand method etc. for each area	1	item	
G	The Contractor must note that no method of demolition which will transmit vibration into adjoining properties shall be permitted.	1	item	
H	The contractor must peruse the Architects and Engineers drawings and check all dimensions on site. No claim on the grounds of discrepancies between on site dimensions and drawings, in regards to demolition and associated works, will be entertained whatsoever.	1	item	
J	The contractor must include herein for ensuring that all services, electricity, gas, telecommunications, water, sewage, etc., are made safe prior to demolition	1	item	
K	The contractor is to report to the Architect / Engineer details of any underground chambers, vaults, walls, etc., discovered during demolition work.	1	item	
L	The contractor must prevent access to unauthorised persons to partly demolished structures and must leave the site safe at close of each days work.	1	item	
M	Care must be taken to prevent debris from overloading any part of the structure	1	item	
N	The Contractor shall ensure that the impact of the works on the surroundings are in accordance with the set maximum levels for vibration and noise as defined in the guidelines presented in the relevant codes of practice.	1	item	

<u>(30) SITE ENCLOSURES - ALTERATIONS TO SITE ENTRANCE (Cont)</u>				
<u>DEMOLITIONS AND ALTERATIONS</u>				
General Information				
<u>Information</u>				
A	The contractor should consult with the Architect and must visit the site to ascertain the extent of the works involved under this section. No variations will be approved for works that ought to have been apparent to the contractor after a site inspection and review of the Architects drawings and specifications		note	
B	The Contractors attention is drawn to the presence of existing services; due care must be taken when excavating in the proximity of existing buildings and boundaries		note	
C	The following demolition works include for disposal off-site of debris material		note	
<u>DEMOLITIONS AND ALTERATIONS - SITE CLEARANCE</u>				
<u>General Clearance</u>				
D	Existing stonewall at site entrance to be demolished carefully, cleaned of existing mortar, stored and then re-build; approximately 1500mm high; approximately 11m long; include for relocated stone pier; include for grubbing up and disposal of existing concrete footings and backfilling with Grade C16/20 S3 lean mix to Engineer's satisfaction; disposal of all materials off-site; Tendering Contractor to visit the site in accordance with the Invitation To Tender to assess the full extent of the works to be completed. No claims on the grounds of want of knowledge will be entertained whatsoever; making good structure; refer to Architects Drawings	1	item	
E	Existing metal double swing gate to be demolished and removed off-site; Size: approximately: 6000mm long x 1250mm high; Tendering Contractor to visit the site in accordance with the Invitation To Tender to assess the full extent of the works to be completed. No claims on the grounds of want of knowledge will be entertained whatsoever; refer to Architects Drawing	1	item	
<u>EXCAVATION AND EARTHWORK</u>				
Excavation				
<u>Excavation</u>				
Reduce levels				
F	Depth not exceeding 2.00m	41	m3	

<u>(30) SITE ENCLOSURES - ALTERATIONS TO SITE ENTRANCE (Cont)</u>			
<u>Extra on Excavation Items for:</u>			
Breaking up existing			
A	Reinforced Concrete; Concrete slab; 100mm; complete; include for associated concrete kerbs	3	m3
B	Hard surfaces; Bitumen Macadam surface; 145mm thick; complete	42	m2
<u>Disposal</u>			
Water			
C	Surface	1	item
D	Ground	1	item
Excavated material; All surplus materials to be disposed of off-site to a licenced waste disposal facility granted by the EPA under Section 40 of the Waste Management Act or by the Local Authority under the Waste Facility Permit Regulations			
E	Disposal off site; made ground material; Disposal to an inert waste licensed landfill	31	m3
F	Disposal off site; existing concrete; Disposal to a suitable licensed waste disposal facility	3	m3
G	Disposal off site; existing Tarmac; Disposal to a suitable licensed waste disposal facility	7	m3
<u>STONEWALL</u>			
<u>EXCAVATION AND EARTHWORK</u>			
General Information			
<u>Information</u>			
H	The contractor should consult with the Architect and must visit the site to ascertain the extent of the works involved under this section. No variations will be approved for works that ought to have been apparent to the contractor after a site inspection and review of the Architects drawings and specifications		note
J	When pricing the following items the Contractor's attention is drawn to the location of the site. The Contractor should also visit and check the site. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.		note

<u>(30) SITE ENCLOSURES - ALTERATIONS TO SITE ENTRANCE (Cont)</u>			
Excavation			
<u>Excavation</u>			
Foundation Trenches			
A	Depth not exceeding 2.00m	11	m3
Soft spots			
B	Depth not exceeding 2.00m	1	m3
<u>Working Space</u>			
Foundations			
C	Depth not exceeding 2.00m; backfilling trenches with clause 804 hardcore compliant with SR21 Annex E	18	m2
<u>Disposal</u>			
Water			
D	Surface	1	item
E	Ground	1	item
Excavated material; All surplus materials to be disposed of off-site to a licenced waste disposal facility granted by the EPA under Section 40 of the Waste Management Act or by the Local Authority under the Waste Facility Permit Regulations			
F	Disposal On-site	4	m3
G	Disposal Off-site	7	m3
H	Disposal Off-site; for soft spots	1	m3
<u>Filling with material to be obtained on-site; as per Engineer's Specification; compacted as per Engineer's Specification</u>			
To excavations			
J	Average thickness exceeding 250mm	4	m3
<u>Surface treatments</u>			
Levelling and compacting; bottom of excavations			
K	Horizontal	13	m2

<u>(30) SITE ENCLOSURES - ALTERATIONS TO SITE ENTRANCE (Cont)</u>			
<u>CONCRETE WORK</u>			
In-situ Concrete			
<u>Concrete cubes for testing</u>			
Provide for making concrete cubes from freshly mixed concrete; transporting and testing cubes; all as per details in Engineer's Concrete Specification			
A	Size 150 x 150 x 150mm	1	nr
<u>Grade C12/15</u>			
Bulk filling to soft spots			
B	Generally; poured on or against earth or unblinded hardcore	1	m3
Blinding			
C	Generally; poured on or against earth or unblinded hardcore	1	m3
In-situ Concrete; Reinforced			
<u>Grade C28/30</u>			
Foundations			
D	Generally; Reinforced	4	m3
Reinforcement			
<u>Fabric</u>			
A393 mesh reinforcement; 350mm laps; 350mm end laps; all in strict accordance with the Engineers Drawings and Specification			
E	Horizontal	13	m2
Formwork			
<u>Formwork Generally</u>			
Sides of foundations			
F	Height or width 250 - 500mm	21	m

(30) SITE ENCLOSURES - ALTERATIONS TO SITE ENTRANCE (Cont)				
<u>BRICKWORK AND BLOCKWORK</u>				
Blockwork				
Aggregate concrete blocks; Manufacturer: To Structural Engineers Specification; Standard: I.S. EN 771-3:2011 Specification for Masonry Units # Part 3; Mortar : M12 ;Block description: To Structural Engineers Specification; Compressive strength 13N; Characteristic value: To Structural Engineers Specification; Thermal conductivity: To I.S. EN 1745 Masonry and masonry products-Methods for determining design thermal values . table A3; Reaction to fire: Class A1, Euro code 6 # I.S. EN 1996 Design of Masonry Structures # Part 1-2: General Rules # Structural Fire Design, defines the methods and calculations to determine the fire resistance of concrete block walls; refer to section Pr 20 93 52 01 of Architect's Specification 20-36-20-36 for additional requirements				
Walls in trenches				
A	440mm thick	6	m2	
Labours				
B	On blockwork	1	item	
<u>CONCRETE SOLID COMMON BLOCKWORK</u> ; Concrete Blocks Shall Be Category 1 Manufacture Solid (440 X 215 X 100Mm 20Kg) And Conform To Is En 771-3:2011 Unless Noted Otherwise On The Drawings. (Compressive Strength Of Masonry Units - 7.5N/Mm# U.N.O.) I.S. En 772-1 To I.S. En 771-6 & I.S. En 771-3. Aggregates Used To Manufacture Of Concrete Blocks Shall Be Manufactured In Accordance With S.R. 16 And I.S. En 12620. Blocks Shall Be Ce Marked With System 2+ Attestation Of Conformity; all as per Architects and Engineers Drawings and Specification 5.3.3				
Walls				
C	215mm thick	16	m2	
Labours				
D	On blockwork	1	item	
Ancillaries to Brickwork / Blockwork				
<u>Sundries</u>				
PERPEND JOINT WEEP HOLES; Form: Open perpend joint; Locations: Through brickwork and concrete; 75 mm above top of cavity fill at base of cavity; Provision: At not greater than 1000 mm centres and not less than two over each opening; all to Architect's Specification F30 130				
E	Generally	11	nr	

<u>(30) SITE ENCLOSURES - ALTERATIONS TO SITE ENTRANCE (Cont)</u>			
<u>Designed Joints</u>			
MOVEMENT JOINTS WITH SEALANT TO EXTERNAL CONCRETE BLOCKWORK; Joint preparation and sealant application: As section Z22; Filler: Closed cell polyethylene foam; Thickness: To match design width of joint; Manufacturer: Contractor's choice to be approved; Product reference: Contractor's choice to be approved; Placement: Build in as work proceeds with no projections into cavities and to correct depth to receive sealant system; Sealant: Manufacturer: Contractor's choice to be approved; Product reference: Contractor's choice to be approved; Colour: To match adjoining blockwork; Ties: slip ties to be at max vertical spacing of 225mm and horizontal spacing of 200mm centred around movement joint; wall ties to be at max vertical spacing of 225mm and horizontal spacing of 225mm centred around movement joint; all in accordance with Architects Drawings and Specification F30 613 & Engineers Drawing			
A	Generally	5	m
<u>STONEMWORK</u>			
Stone Walling			
<u>STONE WALLING TO SITE ENTRANCE USING STONE SALVAGED FROM EXISTING STONE WALL;</u> <u>Stone: as per architects specification; Mortar: As section Z21; Standard: To BS EN 998-2; Mix: 1:2-3 NHL3.5 hydraulic lime: sand; Sand: as per architects specification; crushed stone graded to approval; Additional requirements: Submit samples of sand for approval; Joints: Flush; brushed; Other requirements: Existing stone bridge to be carefully dismantled and stored neatly for re-use in a designated protected area on site; As per Architects Specification</u>			
Walls			
B	215mm thick	16	m2
C	1000mm thick; piers	2	m2
D	<u>Extra over</u> for stone capping; salvaged from existing stone wall	11	m
Labours			
E	On stonework	1	item

<u>(30) SITE ENCLOSURES - ALTERATIONS TO SITE ENTRANCE (Cont)</u>			
<u>FLOOR, WALL AND CEILING FINISHES</u>			
In-situ Finishes			
Render Finish. 20mm 3-coat sand cement render with napp finish. Min. U-Value: 0.18 W/m2K. System performance: To IS 325. First undercoat: Ss 25 45 70/630 Site mixed rendering mortar. Second undercoat: Ss 25 45 70/630 Site mixed rendering mortar. Final coat: Ss 25 45 70/630 Site mixed rendering mortar; to Architects Drawing 5.01 and Specifications Ss 25 45 70 55 & Ss 25 45 70/630			
Walls			
A	Exceeding 300mm wide; to blockwork	16	m2
Beads/ stops for External Use, Material: PVC-U. Form: Angle bead. Movement bead. Stop bead (standard wing). Stop bead (bell cast). To suit render depth: 19 mm. Colour: White; fixed in strict accordance with the Architect's Drawings and Specification Pr 35 90 07 72 & Pr 35 90 07/650			
Sundries			
B	External Corner Beads at openings; Horizontal	11	m
C	External Corner Beads at openings; Vertical	9	m
D	Stop Beads; Horizontal	11	m
E	Stop Beads; Vertical	9	m
F	Stop Bead fixed to base of render at ground in accordance with manufacturers instructions	11	m

<u>(30) SITE ENCLOSURES - ALTERATIONS TO SITE ENTRANCE (Cont)</u>				
<u>PAINTING AND DECORATING</u>				
Painting				
Water-based masonry paints. Painting to external walls with Napp Render Finish. Manufacturer: Crown Trade or equivalent. Texture: Smooth. Colour: To be agreed with ER. Properties: Drying Time Under normal drying conditions touch dry in 1-2 hours and recoatable after 4- 6 hours. Finish Smooth. Composition Pigment: Titanium Dioxide, light fast coloured pigments and extenders. Binder: Vinyl acetate copolymer. Solvent: Water. Spreading Rate Up to 16m2 per litre. On textured surface the spreading rate will vary down to approx. 4m2 per litre. Wet Film Thickness 62.4 micrometres at 16m2 per litre. Dry Film Thickness 19.73 micrometres at 16m2 per litre. Volume Solids 31% Brilliant White. Other colours will vary. Flash Point Not applicable. VOC Content EU limit value for this product (cat.A/c): 40 g/l (2010). This product contains max. 1 g/l VOC. Limitations EN1062-6 Classification C1 (R = 192m) - Taylor Woodrow Certificate of Test No: 8825. Do not apply when there is a risk of rain, air or substrate temperatures are likely to fall below 8°C or when the relative humidity is above 80% during application or the drying period. Do not use on bitumen coatings. The decoration of Fletton brickwork either facings or commons is not recommended. Preparation: New Surfaces. All surfaces must be sound, clean, suitably dry and free from anything that will interfere with the adhesion of the materials to be applied. Surfaces with suction (porous surfaces) should be treated with an application of Crown Trade Stronghold Stabilising Solution (Clear). Coating System: Apply two coats as required. Application: Stir well before use. Apply by brush, medium or long pile roller depending on surface texture, or by airless spray. For airless spray use a minimum fluid pressure of 2000psi (136 bar) and a minimum tip size of 0.018 thou. Mask as necessary with a wet strength grade masking paper; all as per Architects Drawing and Specification Pr 35 31 22 96				
Walls; to rendered blockwork				
A	Exceeding 300mm wide	16	m2	

<u>(30) SITE ENCLOSURES - ALTERATIONS TO SITE ENTRANCE (Cont)</u>				
<u>METALWORK</u>				
Non-Structural				
<u>GATES AT ENTRANCE; 80 x 50 mm powder coated SHS frame, with 50 x 20 mm powder coated vertical flat plates welded to SHS frame at 100 mm centres; 19 x 105 mm Western Red Cedar shadow gap cladding, fixed with stainless steel nails to 44 x 225 mm treated timber vertical sub frame mechanically fixed to 80 x 50 mm SHS frame; 20 mm dia. case hardened barrel bolt and receiver, "Chubb" closed shackle padlock; 20 mm dia case hardened drop bolt and receiver; 150 x 150 x 100 mm deep hinged bolt receiver and slamming plate; Provide galvanised spud blocks set in concrete to hold gates in open position.; include for all necessary end posts, corner posts, fixings, caps, clips, security screws, excavation, disposal, backfilling, concrete foundations, formwork and fixings; As per Architects Specifcation and Drawings 0408</u>				
<u>Composite Items; Gates</u>				
A	Double Swing Gate; approx overall ope size; 6000mm x 1000mm high; As per Architects Drawing 0408	1	nr	
B	Single Gate; approx overall ope size; 1240mm x 1000mm high; As per Architects Drawing 0408	1	nr	
<u>ROAD</u>				
<u>EXCAVATION AND EARTHWORK</u>				
Excavation				
<u>Filling with hardcore to be obtained off-site; Clause 804 crushed stone well compacted on firm clean formation; compliant with TII Publications series 800, free from pyrite and macarsite as per Engineer's specification</u>				
To make up levels				
C	Average thickness not exceeding 250mm	7	m3	
<u>Filling with granular fill material to be obtained off-site; Class 6F1 compliant with TII Publications series 600, free from pyrite and macarsite; depositing in 150mm layers maximum thickness; compacting; as per Engineers Drawings and Specification</u>				
To make up levels				
D	Average thickness exceeding 250mm	13	m3	

<u>(30) SITE ENCLOSURES - ALTERATIONS TO SITE ENTRANCE (Cont)</u>			
<u>Surface treatments</u>			
Levelling and compacting; blinding with quarry dust			
A	Horizontal; 50mm thick; to hardcore	42	m2
<u>SURFACE PAVING FENCING AND LANDSCAPING</u>			
<u>In situ Surface Pavings</u>			
<u>Road Surfacing; 25mm thick AC10 close surface base to Table 2 Column 4 Specification for Roadworks; laid on 40mm thick AC20 dense binder base to Table 2 Column 2 Specification for Roadworks; laid on 80mm thick AC32 dense road base to Table 2 Column 1 Specification for Roadworks; to TII 900 Series; rolled with 10-12.5 tonne roller; as per Engineer's Specification and Drawing C-27</u>			
Roads, on blinded hardcore base			
B	145mm thick; three coat work; to falls and cross falls	42	m2
<u>Sundries</u>			
Membrane to Engineer's Specification; Geotextile or equivalent; include for all necessary laps and joints; to manufacturers instructions; as per Engineer's Specification & Drawings			
C	Horizontal	42	m2
<u>Preformed Paving and Edging Units</u>			
<u>Precast concrete kerb; 125mm wide x 250mm high; set in concrete haunching 300mm wide x 400mm deep, mix ST4; include for joints as per Engineer's requirements; include for all necessary haunching in lean mix concrete, as per Engineer's Specification</u>			
Kerbs; concrete foundation and haunching; formwork			
D	125 x 250mm deep concrete kerb	16	m
E	<u>Extra over</u> for curved work	16	m
F	<u>Extra over</u> for drop Kerb	4	m

<u>(30) SITE ENCLOSURES - ALTERATIONS TO SITE ENTRANCE (Cont)</u>				
<u>MISCELLANEOUS WORKS</u>				
Contractor to allow for an independent tester to undertake pyrite tests of the stone material to be used in the hardcore build up to verify that the hardcore material used on site complies with the chemical requirements in IS EN 13242 & S.R. 21 Annex E (The percentage of Total Sulphur content in hardcore shall be limited in accordance with S.R. 21). Hardcore material to be stockpiled on site and a composite sample taken. Hardcore is not to be placed prior to the testing of the site material to be used. (See Engineers Specification)				
A	Generally	1	item	
Contractor to allow for an on-site CBR Test. (See Engineers Specification)				
B	Generally	1	item	
<u>FOOTPATH</u>				
<u>EXCAVATION AND EARTHWORK</u>				
Excavation				
Filling with hardcore to be obtained off-site; Clause 808 crushed stone well compacted on firm clean formation; compliant with TII Publications series 800, free from pyrite and macarsite as per Engineer's specification				
To make up levels				
C	Average thickness not exceeding 250mm	5	m3	
Filling with granular fill material to be obtained off-site; Class 6F1 compliant with TII Publications series 600, free from pyrite and macarsite; depositing in 150mm layers maximum thickness; compacting; as per Engineers Drawings and Specification				
To make up levels				
D	Average thickness exceeding 250mm	9	m3	
<u>Surface treatments</u>				
Levelling and compacting; blinding with quarry dust				
E	Horizontal; 50mm thick; to hardcore	28	m2	

<u>(30) SITE ENCLOSURES - ALTERATIONS TO SITE ENTRANCE (Cont)</u>			
<u>CONCRETE WORK</u>			
In situ concrete			
<u>Grade C32/40 Concrete; air entrained</u>			
Paths; laid on compacted hardcore base			
A	Not exceeding 150mm thick; paths generally	3	m3
Sundries			
<u>Design joints</u>			
Predetermined construction joints in concrete			
B	Horizontal; 20mm wide filling with 2 Nr layers bituminous felt to IS34; 150mm depth; including formwork	10	m
Reinforcement			
<u>Fabric</u>			
A142 mesh reinforcement; 350mm laps; 350mm end laps; all in strict accordance with the Engineers Drawings and Specification			
C	Horizontal	28	m2
<u>Surface Finishes</u>			
Brushed finish to wet concrete as per Architect's & Engineer's Specifications			
D	Generally	28	m2
Trowelled finish to margins; all labours			
E	100mm wide	25	m
Membrane to Engineer's Specification; Geotextile or equivalent; include for all necessary laps and joints; to manufacturers instructions; as per Engineer's Specification & Drawing			
F	Generally	28	m2

<u>(30) SITE ENCLOSURES - ALTERATIONS TO SITE ENTRANCE (Cont)</u>				
Preformed Paving and Edging Units				
<u>Precast concrete pin kerb; 50mm wide x 150mm high; set in concrete haunching 300mm wide x 400mm deep, mix ST4; include for joints as per Engineer's requirements; include for all necessary haunching in lean mix concrete, as per Engineer's Specification</u>				
Kerbs; concrete foundation and haunching; formwork				
A	50mm wide x 150mm high concrete kerb	13	m	
B	<u>Extra over</u> for curved work	13	m	
<u>MISCELLANEOUS WORKS</u>				
Contractor to allow for an independent tester to undertake pyrite tests of the stone material to be used in the hardcore build up to verify that the hardcore material used on site complies with the chemical requirements in IS EN 13242 & S.R. 21 Annex E (The percentage of Total Sulphur content in hardcore shall be limited in accordance with S.R. 21). Hardcore material to be stockpiled on site and a composite sample taken. Hardcore is not to be placed prior to the testing of the site material to be used. (See Engineers Specification)				
C	Generally	1	item	
Contractor to allow for an on-site CBR Test. (See Engineers Specification)				
D	Generally	1	item	
<u>WORK OUTSIDE THE BOUNDARY OF THE SITE</u>				
<u>Extra Over For: -</u>				
E	A portion of the works in this section are outside the boundary of the site; see Architect's & Engineer's Drawings	1	item	

(30) SITE ENCLOSURES - ALTERATIONS TO SITE ENTRANCE (Cont)

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**(30) SITE ENCLOSURES - ALTERATIONS TO SITE ENTRANCE
Carried to Summary**

<u>(40) ROADS, PATHS, PAVINGS - ROAD AND CAR PARKING</u>				
<u>SECTIONAL COMPLETION</u>				
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item	
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item	
<u>EXCAVATION AND EARTHWORK</u>				
Excavation				
<u>Filling with hardcore to be obtained off-site; Clause 804 crushed stone well compacted on firm clean formation; compliant with TII Publications series 800, free from pyrite and macarsite as per Engineer's specification</u>				
To make up levels				
C	Average thickness not exceeding 250mm	404	m3	
<u>Filling with granular fill material to be obtained off-site; Class 6F1 compliant with TII Publications series 600, free from pyrite and macarsite; depositing in 150mm layers maximum thickness; compacting; as per Engineers Drawings and Specification</u>				
To make up levels				
D	Average thickness exceeding 250mm	808	m3	
<u>Surface treatments</u>				
Levelling and compacting; blinding with quarry dust				
E	Horizontal; 50mm thick; to hardcore	2,691	m2	

<u>(40) ROADS, PATHS, PAVINGS - ROAD AND CAR PARKING (Cont)</u>			
<u>SURFACE PAVING FENCING AND LANDSCAPING</u>			
Insitu Surface Pavings			
Road Surfacing; 25mm thick AC10 close surface base to Table 2 Column 4 Specification for Roadworks; laid on 40mm thick AC20 dense binder base to Table 2 Column 2 Specification for Roadworks; laid on 80mm thick AC32 dense road base to Table 2 Column 1 Specification for Roadworks; to TII 900 Series; rolled with 10-12.5 tonne roller; as per Engineer's Specification and Drawing C-27			
Roads, on blinded hardcore base			
A	145mm thick; three coat work; to falls and cross falls	2,691	m2
<u>Sundries</u>			
Membrane to Engineer's Specification; Geotextile or equivalent; include for all necessary laps and joints; to manufacturers instructions; as per Engineer's Specification & Drawings			
B	Horizontal	2,691	m2
<u>Line markings to Macadam surfaces to Architect's Specification; Prepare and apply two coats approved thermoplastic road marking paint; all in strict accordance with Road Safety Markings Association standard specification document for road markings and road studs (Stanspec) and Architect's Specification and Engineer's Drawing</u>			
Line marking			
C	RRM 001; Continuous Line; 100mm Thick	8	m
D	RRM 008; Double Yellow Line; 100mm thick	66	m
E	<u>Extra over</u> for curved line	66	m
F	RRM 013; Perpendicular Parking Bay Markings; 100mm thick	483	m
G	RRM 018; Yield Line; 200mm thick	8	m
H	RRM 019; No Entry Line; 200mm thick	7	m
J	Blue thermoplastic surfacing to disabled car parking bays	103	m2
K	Green thermoplastic surfacing to EV car parking bays	44	m2
Letters and Figures			
L	M 114; Worded Stop Marking; 2800mm long	2	nr
M	RRM 004; Lane Indication Arrows; 3600mm long	4	nr
N	RRM 006; Lane Indication Arrows; 3600mm long	4	nr

<u>(40) ROADS, PATHS, PAVINGS - ROAD AND CAR PARKING (Cont)</u>				
A	M 125; Lane Indication Arrows; 3600mm long	1	nr	
B	M 126; Lane Indication Arrows; 3600mm long	1	nr	
C	RRM 015; Disabled Persons' Parking Bay Symbol with buffer zone; 2500mm x 1200mm wide Symbol; 1200 wide buffer zone	4	nr	
D	RRM 034; EV Symbol; 1200mm x 2500mm long	2	nr	
Preformed Paving and Edging Units				
<u>Precast concrete kerb; 125mm wide x 250mm high; set in concrete haunching 300mm wide x 400mm deep, mix ST4; include for joints as per Engineer's requirements; include for all necessary haunching in lean mix concrete, as per Engineer's Specification</u>				
Kerbs; concrete foundation and haunching; formwork				
E	125 x 250mm deep concrete kerb	662	m	
F	<u>Extra over</u> for curved work	69	m	
G	<u>Extra over</u> for drop Kerb	8	m	
<u>MISCELLANEOUS WORKS</u>				
Contractor to allow for an independent tester to undertake pyrite tests of the stone material to be used in the hardcore build up to verify that the hardcore material used on site complies with the chemical requirements in IS EN 13242 & S.R. 21 Annex E (The percentage of Total Sulphur content in hardcore shall be limited in accordance with S.R. 21). Hardcore material to be stockpiled on site and a composite sample taken. Hardcore is not to be placed prior to the testing of the site material to be used. (See Engineers Specification)				
H	Generally	1	item	
Contractor to allow for an on-site CBR Test. (See Engineers Specification)				
J	Generally	1	item	

(40) ROADS, PATHS, PAVINGS - ROAD AND CAR PARKING (Cont)

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**(40) ROADS, PATHS, PAVINGS - ROAD AND CAR PARKING
Carried to Summary**

<u>(40) ROADS, PATHS, PAVINGS - ROAD TO BALLCOURTS</u>				
<u>SECTIONAL COMPLETION</u>				
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item	
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item	
<u>EXCAVATION AND EARTHWORK</u>				
<u>Excavation</u>				
<u>Filling with hardcore to be obtained off-site; Clause 804 crushed stone well compacted on firm clean formation; compliant with TII Publications series 800, free from pyrite and macarsite as per Engineer's specification</u>				
To make up levels				
C	Average thickness not exceeding 250mm	30	m3	
<u>Filling with granular fill material to be obtained off-site; Class 6F1 compliant with TII Publications series 600, free from pyrite and macarsite; depositing in 150mm layers maximum thickness; compacting; as per Engineers Drawings and Specification</u>				
To make up levels				
D	Average thickness exceeding 250mm	60	m3	
<u>Surface treatments</u>				
Levelling and compacting; blinding with quarry dust				
E	Horizontal; 50mm thick; to hardcore	200	m2	

<u>(40) ROADS, PATHS, PAVINGS - ROAD TO BALLCOURTS (Cont)</u>			
<u>SURFACE PAVING FENCING AND LANDSCAPING</u>			
Insitu Surface Pavings			
Road Surfacing; 25mm thick AC10 close surface base to Table 2 Column 4 Specification for Roadworks; laid on 40mm thick AC20 dense binder base to Table 2 Column 2 Specification for Roadworks; laid on 80mm thick AC32 dense road base to Table 2 Column 1 Specification for Roadworks; to TII 900 Series; rolled with 10-12.5 tonne roller; as per Engineer's Specification and Drawing C-27			
Roads, on blinded hardcore base			
A	145mm thick; three coat work; to falls and cross falls	200	m2
<u>Sundries</u>			
Membrane to Engineer's Specification; Geotextile or equivalent; include for all necessary laps and joints; to manufacturers instructions; as per Engineer's Specification & Drawings			
B	Horizontal	200	m2
Preformed Paving and Edging Units			
Precast concrete kerb; 125mm wide x 250mm high; set in concrete haunching 300mm wide x 400mm deep, mix ST4; include for joints as per Engineer's requirements; include for all necessary haunching in lean mix concrete, as per Engineer's Specification			
Kerbs; concrete foundation and haunching; formwork			
C	125 x 250mm deep concrete kerb	79	m
D	<u>Extra over</u> for curved work	25	m
<u>MISCELLANEOUS WORKS</u>			
Contractor to allow for an independent tester to undertake pyrite tests of the stone material to be used in the hardcore build up to verify that the hardcore material used on site complies with the chemical requirements in IS EN 13242 & S.R. 21 Annex E (The percentage of Total Sulphur content in hardcore shall be limited in accordance with S.R. 21). Hardcore material to be stockpiled on site and a composite sample taken. Hardcore is not to be placed prior to the testing of the site material to be used. (See Engineers Specification)			
E	Generally	1	item
Contractor to allow for an on-site CBR Test. (See Engineers Specification)			
F	Generally	1	item

(40) ROADS, PATHS, PAVINGS - ROAD TO BALLCOURTS (Cont)

COLLECTION

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(40) ROADS, PATHS, PAVINGS - ROAD TO BALLCOURTS
Carried to Summary

<u>(40) ROADS, PATHS, PAVINGS - BALLCOURTS</u>			
<u>SECTIONAL COMPLETION</u>			
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item
<u>EXCAVATION AND EARTHWORK</u>			
Excavation			
<u>Filling with hardcore to be obtained off-site; Clause 808 crushed stone well compacted on firm clean formation; compliant with TII Publications series 800, free from pyrite and macarsite as per Engineer's specification</u>			
To make up levels			
C	Average thickness not exceeding 250mm	563	m3
<u>Surface treatments</u>			
Levelling and compacting; blinding with quarry dust			
D	Horizontal; 50mm thick; to hardcore	866	m2
<u>CONCRETE WORK</u>			
In-situ Concrete			
<u>Concrete Base Size 650 x 650 x 1000mm deep; 30N20 concrete base on 50mm concrete blinding, to receive 900mm long socket to receive 92mm diameter tube; 1 layer of A393 mesh top and bottom; include all excavation, earthwork support, working space, formwork, disposal etc; fixed as per Engineer's Drawings; As per Architect's specification</u>			
Concrete bases to Basketball Stands			
E	Generally	2	nr
<u>Concrete Plinth: 450x450x600 mm depth; 30N20 concrete base on 50mm concrete blinding to receive, sockets 52 mm minimum inside diameter. Socket depth 350 mm minimum; As per Architect's specification.</u>			
Concrete bases to Volleyball Post			
F	Generally	2	nr

<u>(40) ROADS, PATHS, PAVINGS - BALLCOURTS (Cont)</u>				
<u>SURFACE PAVING FENCING AND LANDSCAPING</u>				
Insitu Surface Pavings				
<u>Ballcourt Surfacing; 25mm thick 14mm wearing course macadam (Table 9/3 D.O.E spec.); laid on 60mm thick dense bitumen base course macadam (Table 9/1 D.O.E. spec.) to TII 900 Series; rolled with 10-12.5 tonne roller; as per Engineer's Specification and Drawing C-27.</u>				
Ballcourts, on blinded hardcore base				
A	85mm thick; two coat work; to falls and cross falls	866	m2	
<u>Sundries</u>				
Membrane to Engineer's Specification; Geotextile or equivalent; include for all necessary laps and joints; to manufacturers instructions; as per Engineer's Specification & Drawing				
B	Horizontal	866	m2	
<u>Line markings to Macadam surfaces to Architect's Specification; Prepare and apply two coats approved thermoplastic road marking paint; all in strict accordance with Road Safety Markings Association standard specification document for road markings and road studs (Stanspec) and Architect's Specification and Engineer's Drawing</u>				
Line marking				
C	100mm wide; white	277	m	
D	<u>Extra over</u> for curved line marking	23	m	
Preformed Paving and Edging Units				
<u>Precast concrete pin kerb; 50mm wide x 150mm high; set in concrete haunching 300mm wide x 400mm deep, mix ST4; include for joints as per Engineer's requirements; include for all necessary haunching in lean mix concrete, as per Engineer's Specification</u>				
Kerbs; concrete foundation and haunching; formwork				
E	50mm wide x 150mm high concrete kerb	148	m	

<u>(40) ROADS, PATHS, PAVINGS - BALLCOURTS (Cont)</u>				
<u>FITTINGS</u>				
Fittings, Equipment and Furniture				
Basketball hoops; Description: To outdoor courts; Standard: In accordance with BS EN 1270; Manufacturer: Contractor's choice; Product reference: Contractor's choice; Type: As per drawing; Free space: 1650 mm; Overall height: Submit proposals; Pole: Manufacturer's standard; Materials: Manufacturer's standard; Finish: Manufacturer's standard; Backboard; Dimensions: 1800 x 1050 mm; Materials: Manufacturer's standard; Finish: Manufacturer's standard; Ring: Manufacturer's standard; Net: Steel chain; Accessories: Extension arm; Method of fixing: Socket base set in concrete; As per Architect's specification				
Equipment; Play				
A	Generally	2	nr	
VOLLEYBALL NET SOCKETS TO BALLCOURTS TO PRIMARY; Method of fixing: Socket bases set in concrete to be provided at the halfway point of each court for the future provision of nets; Sockets 90 mm minimum inside diameter; Socket depth 900 mm minimum; Caps for sockets; All in accordance with IS EN 1271; Concrete Plinth: 450x450x600 mm depth; As per Architect's specification				
Equipment; Play				
B	Generally	2	nr	
<u>MISCELLANEOUS WORKS</u>				
Contractor to allow for an independent tester to undertake pyrite tests of the stone material to be used in the hardcore build up to verify that the hardcore material used on site complies with the chemical requirements in IS EN 13242 & S.R. 21 Annex E (The percentage of Total Sulphur content in hardcore shall be limited in accordance with S.R. 21). Hardcore material to be stockpiled on site and a composite sample taken. Hardcore is not to be placed prior to the testing of the site material to be used. (See Engineers Specification)				
C	Generally	1	item	
Contractor to allow for an on-site CBR Test. (See Engineers Specification)				
D	Generally	1	item	

(40) ROADS, PATHS, PAVINGS - BALLCOURTS (Cont)

COLLECTION

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(40) ROADS, PATHS, PAVINGS - BALLCOURTS
Carried to Summary

<u>(40) ROADS, PATHS, PAVINGS - PAVING</u>			
<u>SECTIONAL COMPLETION</u>			
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item
<u>EXCAVATION AND EARTHWORK</u>			
<u>Excavation</u>			
<u>Filling with sand to be obtained off-site; sand laying course material to Engineer's Specification; compacting;</u>			
To make up levels			
C	Average thickness exceeding 250mm	33	m3
<u>Filling with hardcore to be obtained off-site; Clause 804 crushed stone well compacted on firm clean formation; compliant with TII Publications series 800, free from pyrite and macarsite as per Engineer's specification</u>			
To make up levels			
D	Average thickness exceeding 250mm	161	m3
<u>Filling with granular fill material to be obtained off-site; Class 6F1 compliant with TII Publications series 600, free from pyrite and macarsite; depositing in 150mm layers maximum thickness; compacting; as per Engineers Drawings and Specification</u>			
To make up levels			
E	Average thickness exceeding 250mm	322	m3
<u>Surface treatments</u>			
Levelling and compacting; blinding with quarry dust			
F	Horizontal; 50mm thick; to hardcore	1,071	m2

<u>(40) ROADS, PATHS, PAVINGS - PAVING (Cont)</u>				
<u>CONCRETE WORK</u>				
In-situ Concrete				
<u>Grade C15 Mix ST2 Consistence Class S3.</u>				
Leanmix				
A	Generally; poured on or against earth or unblinded hardcore	161	m3	
<u>SURFACE PAVING, FENCING AND LANDSCAPING</u>				
Preformed Paving and Edging Units				
<u>Paving systems Pedestrian paving to Main Entrance; Description: Paving blocks; System manufacturer: Tobermore or equivalent; Product reference: Tegula Concrete Block Paving (Tegula 80 mm) or equivalent; Physical properties; Colour: TBC; Finish: Tumbled; Profile; Paver type: Regular plan form; Dimensions and associated tolerances; Nominal sizes: As per manufacturer's standard; Weathering resistance: Class 3; Slip resistance: Mean polished skid resistance value (PSRV): >45, mean unpolished skid resistance value (USRV): >45; Strength: Not less than 3.6 MPa; Fire rating: A1; BREEAM rating: A (A+ can be achieved when used with recycled sub-base).; As per Architects Specification Ss 30 14 90 12 and Drawing</u>				
Paving				
B	Exceeding 300mm wide; 80mm thick	1,071	m2	
<u>Tactile warning paving for crossings as per Architects Specification; Material: Coloured Precast concrete; Manufacturer: Roadstone or equivalent; Product reference: Blistered paving tactile flags; Nominal sizes: 400 x 400 mm; Colour: Buff; As per Engineer's Specification and Drawing C-30</u>				
Pavings; cast into concrete footpath / paving				
C	50mm thick; to falls and crossfalls	21	m2	
<u>Tactile warning paving for crossings as per Architects Specification; Material: Coloured Precast concrete; Manufacturer: Roadstone or equivalent; Product reference: Corduroy paving tactile flags; Nominal sizes: 400 x 400 mm; Colour: Buff; As per Engineer's Specification and Drawing C-30</u>				
Pavings; cast into concrete footpath / paving				
D	50mm thick; to falls and crossfalls	5	m2	

<u>(40) ROADS, PATHS, PAVINGS - PAVING (Cont)</u>			
<u>Sundries</u>			
Membrane to Engineer's Specification; Geotextile or equivalent; include for all necessary laps and joints; to manufacturers instructions; as per Engineer's Specification & Drawing			
A	Horizontal	1,071	m2
<u>Precast concrete pin kerb; 50mm wide x 150mm high; set in concrete haunching 300mm wide x 400mm deep, mix ST4; include for joints as per Engineer's requirements; include for all necessary haunching in lean mix concrete, as per Engineer's Specification</u>			
Kerbs; concrete foundation and haunching; formwork			
B	50mm wide x 150mm high concrete kerb	764	m
C	<u>Extra over</u> for curved work	122	m
<u>MISCELLANEOUS WORKS</u>			
Contractor to allow for an independent tester to undertake pyrite tests of the stone material to be used in the hardcore build up to verify that the hardcore material used on site complies with the chemical requirements in IS EN 13242 & S.R. 21 Annex E (The percentage of Total Sulphur content in hardcore shall be limited in accordance with S.R. 21). Hardcore material to be stockpiled on site and a composite sample taken. Hardcore is not to be placed prior to the testing of the site material to be used. (See Engineers Specification)			
D	Generally	1	item
Contractor to allow for an on-site CBR Test. (See Engineers Specification)			
E	Generally	1	item

(40) ROADS, PATHS, PAVINGS - PAVING (Cont)

COLLECTION

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**(40) ROADS, PATHS, PAVINGS - PAVING
Carried to Summary**

<u>(40) ROADS, PATHS, PAVINGS - CONCRETE FOOTPATH</u>			
<u>SECTIONAL COMPLETION</u>			
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item
<u>EXCAVATION AND EARTHWORK</u>			
Excavation			
<u>Filling with hardcore to be obtained off-site; Clause 808 crushed stone well compacted on firm clean formation; compliant with TII Publications series 800, free from pyrite and macarsite as per Engineer's specification</u>			
To make up levels			
C	Average thickness not exceeding 250mm	15	m3
<u>Filling with granular fill material to be obtained off-site; Class 6F1 compliant with TII Publications series 600, free from pyrite and macarsite; depositing in 150mm layers maximum thickness; compacting; as per Engineers Drawings and Specification</u>			
To make up levels			
D	Average thickness exceeding 250mm	30	m3
<u>Surface treatments</u>			
Levelling and compacting; blinding with quarry dust			
E	Horizontal; 50mm thick; to hardcore	99	m2
<u>CONCRETE WORK</u>			
In situ concrete			
<u>Grade C32/40 Concrete; air entrained</u>			
Paths; laid on compacted hardcore base			
F	Not exceeding 150mm thick; paths generally	10	m3

<u>(40) ROADS, PATHS, PAVINGS - CONCRETE FOOTPATH (Cont)</u>				
Sundries				
<u>Design joints</u>				
Predetermined construction joints in concrete				
A	Horizontal; 20mm wide filling with 2 Nr layers bituminous felt to IS34; 150mm depth; including formwork	33	m	
Reinforcement				
<u>Fabric</u>				
A142 mesh reinforcement; 350mm laps; 350mm end laps; all in strict accordance with the Engineers Drawings and Specification				
B	Horizontal	99	m2	
<u>Surface Finishes</u>				
Brushed finish to wet concrete as per Architect's & Engineer's Specifications				
C	Generally	99	m2	
Trowelled finish to margins; all labours				
D	100mm wide	68	m	
<u>Sundries</u>				
Membrane to Engineer's Specification; Geotextile or equivalent; include for all necessary laps and joints; to manufacturers instructions; as per Engineer's Specification & Drawing				
E	Generally	99	m2	
Preformed Paving and Edging Units				
<u>Tactile warning paving for crossings as per Architects Specification; Material: Coloured Precast concrete; Manufacturer: Roadstone or equivalent; Product reference: Corduroy paving tactile flags; Nominal sizes: 400 x 400 mm; Colour: Buff; As per Engineer's Specification and Drawing C-30</u>				
Pavings; cast into concrete footpath / paving				
F	50mm thick; to falls and crossfalls	14	m2	

<u>(40) ROADS, PATHS, PAVINGS - CONCRETE FOOTPATH (Cont)</u>			
Precast concrete pin kerb; 50mm wide x 150mm high; set in concrete haunching 300mm wide x 400mm deep, mix ST4; include for joints as per Engineer's requirements; include for all necessary haunching in lean mix concrete, as per Engineer's Specification			
Kerbs; concrete foundation and haunching; formwork			
A	50mm wide x 150mm high concrete kerb	68	m
B	<u>Extra over</u> for curved work	8	m
<u>MISCELLANEOUS WORKS</u>			
Contractor to allow for an independent tester to undertake pyrite tests of the stone material to be used in the hardcore build up to verify that the hardcore material used on site complies with the chemical requirements in IS EN 13242 & S.R. 21 Annex E (The percentage of Total Sulphur content in hardcore shall be limited in accordance with S.R. 21). Hardcore material to be stockpiled on site and a composite sample taken. Hardcore is not to be placed prior to the testing of the site material to be used. (See Engineers Specification)			
C	Generally	1	item
Contractor to allow for an on-site CBR Test. (See Engineers Specification)			
D	Generally	1	item

(40) ROADS, PATHS, PAVINGS - CONCRETE FOOTPATH (Cont)

COLLECTION

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**(40) ROADS, PATHS, PAVINGS - CONCRETE FOOTPATH
Carried to Summary**

<u>(40) ROADS, PATHS, PAVINGS - GRAVEL BEDS</u>			
<u>SECTIONAL COMPLETION</u>			
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item
<u>EXCAVATION AND EARTHWORK</u>			
Excavation			
<u>Filling with Gravel; Gravel surface to gravel beds; 50mm thick 14mm aggregate size washed gravel; approved by Architect; as per Architects Specification</u>			
To make up levels			
C	Average thickness not exceeding 250mm	3	m3
<u>Filling with hardcore to be obtained off-site; Clause 804 crushed stone well compacted on firm clean formation; compliant with TII Publications series 800, free from pyrite and macarsite as per Engineer's specification</u>			
To make up levels			
D	Average thickness not exceeding 250mm	8	m3
<u>Surface treatments</u>			
Levelling and compacting; blinding with quarry dust			
E	Horizontal; 50mm thick; to hardcore	51	m2
<u>SURFACE PAVING, FENCING AND LANDSCAPING</u>			
Preformed Paving and Edging Units			
<u>Precast concrete pin kerb; 50mm wide x 150mm high; set in concrete haunching 300mm wide x 400mm deep, mix ST4; include for joints as per Engineer's requirements; include for all necessary haunching in lean mix concrete, as per Engineer's Specification</u>			
Kerbs; concrete foundation and haunching; formwork			
F	50mm wide x 150mm high concrete kerb	85	m

<u>(40) ROADS, PATHS, PAVINGS - GRAVEL BEDS (Cont)</u>				
<u>Sundries</u>				
Membrane to Engineer's Specification; Geotextile or equivalent; include for all necessary laps and joints; to manufacturers instructions; as per Engineer's Specification & Drawing				
A	Horizontal	51	m2	
<u>MISCELLANEOUS WORKS</u>				
Contractor to allow for an independent tester to undertake pyrite tests of the stone material to be used in the hardcore build up to verify that the hardcore material used on site complies with the chemical requirements in IS EN 13242 & S.R. 21 Annex E (The percentage of Total Sulphur content in hardcore shall be limited in accordance with S.R. 21). Hardcore material to be stockpiled on site and a composite sample taken. Hardcore is not to be placed prior to the testing of the site material to be used. (See Engineers Specification)				
B	Generally	1	item	
Contractor to allow for an on-site CBR Test. (See Engineers Specification)				
C	Generally	1	item	

(40) ROADS, PATHS, PAVINGS - GRAVEL BEDS (Cont)

COLLECTION

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(40) ROADS, PATHS, PAVINGS - GRAVEL BEDS
Carried to Summary

<u>(40) ROADS, PATHS, PAVINGS - STEPS</u>			
<u>SECTIONAL COMPLETION</u>			
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item
<u>EXCAVATION AND EARTHWORK</u>			
<u>Filling with hardcore to be obtained off-site; sub-base material shall comply with clause 808; depositing in 150mm layers maximum thickness; compacting; compliant with Annex E of SR 21, free from pyrite and macarsite as per Engineer's specification</u>			
To make up levels			
C	Average thickness exceeding 250mm	2	m3
<u>Surface treatments</u>			
Levelling and compacting; blinding with quarry screenings			
D	Horizontal; 50mm thick; to hardcore	7	m2
<u>CONCRETE WORK</u>			
In-Situ Concrete			
<u>Concrete cubes for testing</u>			
Provide for making concrete cubes from freshly mixed concrete; transporting and testing cubes; all as per details in Engineer's Concrete Specification			
E	Size 150 x 150 x 150mm	1	nr
<u>Grade C12/15</u>			
Blinding			
F	Generally; poured on or against earth or unblinded hardcore	1	m3

<u>(40) ROADS, PATHS, PAVINGS - STEPS (Cont)</u>			
<u>Grade C28/30</u>			
Staircases			
A	Staircases to include all flights and landings; reinforced; poured against formwork (to achieve Plain formed finish); all in accordance with the Engineer's Drawings and Specification	3	m3
Sundries in In-Situ Concrete			
<u>Designed Joints</u>			
All designed joints at the discretion of the Main Contractor			
B	Width/ depth not exceeding 150mm	1	item
<u>Surface Finishes</u>			
Trowelling			
C	Generally; insitu concrete staircases and landings	10	m2
Reinforcement			
<u>Fabric</u>			
Reference A393; 350mm side laps; 350mm end laps			
D	Horizontal	7	m2
Formwork			
<u>Formwork; to achieve Plain formed finish as specified in the Structural Engineer's Specification</u>			
Stairflights			
E	Stairflights; Stair, 1800mm wide; 250mm waist; 350mm threads; 10Nr risers - 175mm high; edges abutting/ set into wall 2nr side; complete; all as per Architect's Drawing & Engineers Drawing and Specification	4	m
Extra on any of the foregoing formwork categories for:			
F	Recesses; all treads to have a cast in recess to accommodate 50 x 6mm contrasting delineation strip	18	m

(40) ROADS, PATHS, PAVINGS - STEPS (Cont)

METALWORK

Non-Structural

Handrail and balustrade - 50 x 20 mm powder coated steel frame fixed to vertical posts, with 15 mm dia solid powder coated steel vertical members at 100 mm centres; 50 mm dia powder coated steel handrail at 950 mm above step level, handrail to extend 300 mm beyond top & bottom step with a downstand of 150 mm at bottom of steps; 50 mm dia powder coated steel vertical supports fixed to concrete steps.; As per Architects Specification and Drawing 0406

Composite Items; Handrails, Complete

A	Raking; to blockwork or concrete base; fixed 900mm high above FFL	8	m
B	Horizontal; to blockwork or concrete base; fixed 900mm high above FFL	2	m
C	<u>Extra over</u> handrails for Ends; handrail to extend 300mm beyond last step and turn down 150mm	4	nr
D	<u>Extra over</u> handrails for Bends	4	nr

(40) ROADS, PATHS, PAVINGS - STEPS (Cont)

COLLECTION

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Page No. Siteworks/82

(40) ROADS, PATHS, PAVINGS - STEPS
Carried to Summary

<u>(50) SITE SERVICES - STORM DRAINAGE</u>			
<u>SECTIONAL COMPLETION</u>			
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item
<u>DRAINAGE</u>			
General Information			
<u>Information</u>			
C	When pricing the following items the Contractor's attention is drawn to the location of the site. The Contractor should also visit and check the site. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.		note
D	Any un-authorised excavations below the required level shall be made up with concrete of the same composition as for drain beds at the Contractors own expense; all as per Architects Specification		note
Drainage Below Ground - Storm Water			
<u>Excavation</u>			
Excavating trenches to receive pipes / ducts not exceeding 250mm diameter, earthwork support to sides of trenches; include for excavating below ground water level; grading bottoms of excavations; backfilling with imported selected fill material free from stones larger than 40mm, lumps of clay over 100mm, timber, frozen material and vegetable matter; approved by the Engineer; disposal of surplus soil off site; All surplus materials to be disposed of off-site to a licenced waste disposal facility granted by the EPA under Section 40 of the Waste Management Act or by the Local Authority under the Waste Facility Permit Regulations; as per Engineer's Drawing			
E	Average Depth 500 - 1000mm	153	m
F	Average Depth 1000 - 1500mm	343	m
G	Average Depth 1500 - 2000mm	72	m
H	Average Depth 2000 - 2500mm	79	m
J	Average Depth 2500 - 3000mm	16	m

<u>(50) SITE SERVICES - STORM DRAINAGE (Cont)</u>				
	<u>Extra over excavating trenches irrespective of depth</u>			
	<u>Extra over excavating trenches irrespective of depth</u>			
	Around existing services crossing excavations			
A	Watermain; crossing excavations	1	nr	
	Disposal			
B	Ground water	1	item	
C	Surface water	1	item	
	<u>Granular fill bed and surround; 14mm or 5mm graded aggregate or 10mm single sized aggregate; complying with the requirements of the Engineer's Specification; compaction factor value not greater than 0.2 when measured in accordance with Engineer's Specification; well compacted; as per Engineer's Drawings & Specification</u>			
	Beds and Surround			
D	600 x 650mm to 150mm diameter pipe	199	m	
E	750 x 725mm to 225mm diameter pipe	63	m	
	<u>Plain in-situ concrete bed and surround; minimum 150mm bed; Class 16/20; leanmix concrete backfill; as per Engineer's Drawing</u>			
	Beds and Surrounds			
F	400 x 400mm to 100mm diameter pipe	84	m	
G	450 x 450mm to 150mm diameter pipe	317	m	
	PVC marker tape "Heptape" or equivalent			
H	Continuous strip laid during trench backfill, 100mm above pipework	661	m	
	<u>Pipe; PVC SN8 pipework and fittings; to Engineer's Specification</u>			
	Pipes; loose couplers and ceiling ring joints in the running length			
J	100mm diameter	84	m	
	<u>Extra over</u> pipework runs for			
K	connection to manholes	17	nr	
L	connection to BIGT	22	nr	
M	connection to AJs	5	nr	

<u>(50) SITE SERVICES - STORM DRAINAGE (Cont)</u>					
A	T-Junctions; 225 x 225 x 100mm	1	nr		
B	T-Junctions; 150 x 150 x 100mm	4	nr		
C	expansion joints in the concrete bed and surround	17	nr		
	<u>Pipe; perforated pipework and fittings; to Engineer's Specification</u>				
	Pipes; loose couplers and ceiling ring joints in the running length				
D	150mm diameter	95	m		
	<u>Extra over</u> pipework runs for				
E	connection to manholes	2	nr		
F	T-Junctions; 150 x 150 x 150mm	1	nr		
G	connection to ICs	6	nr		
H	Non-woven geotextile; girth: 2500mm	95	m		
	<u>Pipe; PVC SN8 pipework and fittings; to Engineer's Specification</u>				
	Pipes; loose couplers and ceiling ring joints in the running length				
J	150mm diameter	421	m		
	<u>Extra over</u> pipework runs for				
K	connection to manholes	45	nr		
L	connection to road gully	27	nr		
M	connection to AJs	7	nr		
N	T-Junctions; 150 x 150 x 150mm	17	nr		
P	T-Junctions; 225 x 225 x 150mm	4	nr		
Q	expansion joints in the concrete bed and surround	64	nr		
	<u>Pipe; PVC SN8 pipework and fittings; to Engineer's Specification</u>				
	Pipes; loose couplers and ceiling ring joints in the running length				
R	225mm diameter	63	m		
	<u>Extra over</u> pipework runs for				
S	connection to manholes	6	nr		
T	connection to petrol interceptor	2	nr		

<u>(50) SITE SERVICES - STORM DRAINAGE (Cont)</u>				
A	connection to attenuation system <u>Accessories</u> Road Gulleys, Complete; 450mm diameter precast gully; gully encased in 150mm concrete grade C20/25; include for 450 x 320mm Class D 400 (IS/EN 124) C.I. gully grating & frame bedded in mortar; gullies to be hinged at right angles to kerb line so they close with direction of traffic with slots at right angle to kerb; include for rodding eye fixed with stopper and galvanised; include for chain; include for concrete surround to gully grating; include for 160mm diameter uPVC bend if required at connection; including all necessary excavation, disposal, working space, earthwork support, dewatering, backfilling, formwork, reinforcement, construction joints and finishes; all as per Engineers Specification and Drawing C-052	2	nr	
B	Trapped; 450mm diameter; 150mm outlet; heavy duty cast iron gully grating Back Inlet Gully Trap; complete; as per Architect's Specification Q10; Manufacturer: Contractor to submit proposals for selection by ER; Type: Back inlet Bottle gully (roddable); Cover: Square topped grating to be galvanised steel to requirements of BS EN1253: Part 2. Grating to allow for surface water collection; Support: 300x300x200mm deep concrete base and lean mix of concrete (no richer than 1 in 18) should support the Bottle Gully; surrounded with granular backfill. To ensure the gully is easily accessible for cleaning out, its base should be within easy reach from ground level; jointed to PVC pipes; include for all excavation, disposal, backfilling, concrete, formwork, etc; as per Architect's Specification	27	nr	
C	Back Inlet Gully Trap; 100mm outlet; galvanised cast iron grid cover Access junctions to Engineer's Specification; complete with cast iron access cover; bedding and surrounding in concrete Grade 25N20; backfilling with granular material; including all necessary excavations, disposal, dewatering, back filling, etc; as per Engineers Drawings and Specification	22	nr	
D	Access junction; 100mm / 150mm outlets; include for all depth extensions Threshold Drainage channel; 200mm wide complete with gratings as per specification; include for constant depth drainage channels with two piece stainless steel grating and bucket for 110mm diameter discharge pipe to main system; system to be fully certified and CE marked; jointed to PVC pipes; approx 100mm thick bed & haunch in in-situ concrete grade C20/25; include for forming recess in concrete where necessary; include for forming movement joint in concrete; load class D400; Where paving slab meets drain use epoxy mortar; include all necessary inlet caps, outlet caps, catch basins, joints, excavations, disposal, dewatering, backfilling, formwork, etc; as per Engineer's Drawings and Specification	5	nr	
E	Ground Drainage Gutters; to include grating; complete	55	m	

<u>(50) SITE SERVICES - STORM DRAINAGE (Cont)</u>				
	Slot Drain Channel; 200mm wide complete with gratings as per specification; include for constant depth drainage channels with brickslot grating and bucket for 110mm diameter discharge pipe to main system; system to be fully certified and CE marked; jointed to PVC pipes; approx 200mm thick bed & haunch in in-situ concrete GEN 3 grade C20/25; include for forming recess in concrete where necessary; include for forming movement joint in concrete; load class D400; Where paving slab meets drain use epoxy mortar; include all necessary inlet caps, outlet caps, catch basins, joints, excavations, disposal, dewatering, backfilling, formwork, etc; as per Engineer's Drawings and Specification			
A	Ground Drainage Gutters; to include grating; complete <u>Inspection Chambers</u> Inspection Chambers, Complete; Blockwork Inspection Chamber; Internal Dims: 600x600mm diameter; 600mm x 600mm opening in slab; 225mm C25/30 Concrete base on 75mm grade C12/15 blinding concrete; 50mm cross fall; Manhole Construction: 215mm thick 20N/mm² concrete block work in accordance with IS EN 771-3; Pipes built into chamber wall or joint formed with watertight seals; Refer to engineers details for backfill and bedding details; 1 to 3 courses of class B engineering bricks to Engineer's Specification set in C50/60 mortar; cover to be set as per manufacturers specification; sealed manhole cover to suit IS EN 124 loading; including all necessary excavation, disposal, working space, earthwork support, dewatering, backfilling, formwork, reinforcement, construction joints, concrete lintols and finishes; all as per Engineers Details	51	m	
B	Depth to invert 500 - 1000mm <u>Manholes</u> Manholes, Complete; Precast Manhole; Internal Dims: 1200mm diameter; 600mm x 600mm opening in slab; 500mm C30/37 mm Reinforced Concrete Foundations on 75mm grade C12/15 blinding concrete; invert in base should be formed with cast in-situ concrete C25/30 20mm aggregate finished with a 1:3 cement sand mortar; Manhole Construction: 150mm thick grade C16/20 in-situ concrete surround; Precast concrete manhole rings to IS 420 in conjunction with IS EN 1917:2004; 1:3 cement:sand mortar with steel towel finish at a 1:30 slope towards the channel; when chamber is occupied where the pipe; precast RC roof slab shall be 225mm thick in Class 30N/20mm with 40mm cover to steel; 1 to 3 courses of class B engineering bricks to Engineer's Specification set in C50/60 mortar; short length pipe and pipe joint external to manhole shall not exceed 600mm from the inner face of manhole wall; pipe should be cut flush with the inside surface of the manhole wall so that the channel extends the full length of the manhole; including all necessary excavation, disposal, working space, earthwork support, dewatering, backfilling, formwork, reinforcement, construction joints, concrete lintols and finishes; all as per specification and Engineers Specification and Drawing	3	nr	
C	Depth to invert 500 - 1000mm	10	nr	
D	Depth to invert 1000 - 1500mm	7	nr	
E	Depth to invert 1500 - 2000mm	3	nr	

<u>(50) SITE SERVICES - STORM DRAINAGE (Cont)</u>				
A	Depth to invert 2000 - 2500mm	3	nr	
B	Depth to invert 2500 - 3000mm	1	nr	
C	<u>Extra over</u> for installing back-drop to manhole; complete; include for stainless steel splash plate to the approval of the Engineer; standard tumbling bay junction, standard short radius 90 degrees bend; make-up pipework connection pieces as required; include for minimum 150mm thick sulphate resisting concrete surround, grade C30; including all necessary excavation, disposal, working space, earthwork support, dewatering, backfilling, formwork, reinforcement, construction joints, concrete lintols and finishes; complete as per Engineer's Specification and Drawing Hydrobrake Manhole, complete with Hydrobrake System to Limit Outflow to 3.5L/S/ HA; Complete; include for tapered base to chamber, penstock gate valve, remotely operated stopper mounted in support guide bracket fixed under manhole cover; include for overflow pipe at level equal to top of attenuation tank; internal diameter 1200mm; 300mm thick CL C25/30 mass concrete base, 1775x1775mm; laid on 50mm thick concrete blinding; precast chamber manhole to IS EN 1917 & IS 420:2004; include for taper section or reducing slab as per Engineer's drawings; precast chamber to be surrounded with 150mm thick concrete C20/25; 1775x1775x200mm thick precast RC cover slab class 30N/20mm with 40mm cover to steel to take full traffic loading, include for 600x600 and 300x300 ope for access; 1 to 2 courses of solid engineering brick CL B to IS EN 771 set in 1:3 cement mortar between cover slab and 2no. access cover; include for short length pipes & joints, toe holes, backfilling to sides of manhole, mortar bedding, rocker pipes, construction joints, all necessary excavation, disposal, working space, earthwork support, dewatering, backfilling, formwork, reinforcement, concrete lintols and finishes; all as per Engineer's Specification Drawing	1	nr	
D	Depth to invert 2000 - 2500mm <u>Sundries</u> Perforated half circle channel pipes; bedding and jointing in cement mortar (1:2)	1	nr	
E	100mm; curved, 1200mm long	17	nr	
F	150mm; curved, 1200mm long	24	nr	
G	150mm; straight, 1200mm long	8	nr	
H	225mm; straight, 1200mm long	2	nr	
J	225mm; curved, 1200mm long	3	nr	
	Benching; clause 20/20 concrete; finished in 2:1 sand cement mortar with a smooth trowel finish; 1 in 30 slope towards channel; as per Engineer's Specification			
K	benching in bottoms; 1360x1360mm; trowelling	25	nr	

<u>(50) SITE SERVICES - STORM DRAINAGE (Cont)</u>				
	Standard rungs; 25mm diameter solid mild steel; 360mm wide x 119mm high x 270mm long; 300mm c/c; galvanised to the latest version of BS EN ISO 1461:2009			
A	270mm tails	132	nr	
	Approved pattern cast iron manhole cover and frame; Class D400 to IS/EN 124; 150mm deep; non rock design; closed keyways; manufactured from spherical graphite cast iron (ductile cast iron), 600x600 clear opening; cover and frame coated in bitumen or other approved material; cover to have a minimum mass of 140kg/m ² ; frame bedding area shall be 80,000mm ² min; frames shall be designed to prevent covers falling into manholes; frames shall be bedded on approved mortar to manufacturers instructions			
B	Ope size 600 x 600mm	25	nr	
	Composite Item			
C	Petrol Interceptor; Bypass Petrol Interceptor - Class 1 Bypass Interceptor NSBP 8 or equivalent; 1765mm high x 2100mm diameter; installed on 300mm thick Grade C28/35 concrete base with A393 mesh reinforcement; backfilling sides with 400mm (min) thick Grade lean mix back fill surround; 300mm thick grade C28/35 concrete cover slab with A393 mesh reinforcement; include for excavating, disposal, earthwork support, formwork, backfilling etc. to pit to suit unit; include for pipework reducers from 250mm diameter to pipework diameter to match inlets & outlets; include for all works associated with alarm system; include for 110mm uPVC vent pipe; include for access shaft extensions to suit unit and site; 2 courses of Class B engineering brick between cover and cover slab; D400 cover and frame; include for surrounding frames with a 1:3 cement:sand collar 150mm wide x 100mm thick; including all necessary excavation, disposal, working space, earthwork support, dewatering, backfilling, formwork, reinforcement, construction joints and finishes; all in strict accordance with the Engineer's Specification and Drawing C-28 and Manufacturers Details	1	nr	
	<u>Mains</u>			
	Connection to existing			
D	Connecting new storm drain to existing storm manhole; locating and diverting flows; connecting new drain to existing manhole; include for carefully excavating by hand; form new connection into manhole; include for all fittings, etc.; making good and reinstating all work and surfaces disturbed to match existing; maintain flow at all times; all in strict accordance with the Engineer's specification and Drawing	3	nr	
E	Connecting new storm drain to existing storm drain; locating and diverting flows; connecting new drain to existing drain; include for carefully excavating by hand; form new connection into drain; include for all fittings, etc.; making good and reinstating all work and surfaces disturbed to match existing; maintain flow at all times; all in strict accordance with the Engineer's specification and Drawing	3	nr	

<u>(50) SITE SERVICES - STORM DRAINAGE (Cont)</u>				
A	Connecting new storm manhole to existing storm drain; locating and diverting flows; connecting new manhole to existing drain; include for carefully excavating by hand; form new connection into manhole; include for all fittings, etc.; making good and reinstating all work and surfaces disturbed to match existing; maintain flow at all times; all in strict accordance with the Engineer's specification and Drawing	3	nr	
<u>Testing and Commissioning</u>				
B	TESTING OF SEWERS: All foul and storm drainage pipes to be tested in accordance with clause 3.20 Recommendations for Site Development Works for Housing areas by the DOE&LG. The contractor is to engage an engineer with professional indemnity insurance to supervise all air/water tests on sewer mains and watermains before backfilling. Manhole infiltration Manholes shall be tested for infiltration according to clause 3.21 Recommendations for Site Development Works for Housing areas by the DOE&LG.	1	item	
C	1. PREPARATION: (a) The section of pipeline to be tested shall consist of one class of pipe only. (b) Pipe joints shall be left exposed during the test. (c) Each pipe opening shall be securely plugged by means of screw down sewer plugs, fitted across the diameter of the pipes.	1	item	
D	2. FLUSHING: (a) Before backfilling or haunching, each length of sewer or drain between manholes, or such lengths as may be decided upon by the Test Engineer/Supervisor, shall be cleaned through (e.g. by dragging a suitable rubber plunger through the pipe). (b) A sufficient interval of time shall be allowed to elapse to permit the joints to set to the satisfaction of the Test Engineer/Supervisor.	1	item	
E	3. PRESSURE TESTING: Air Test: (i) Air shall be pumped into the line by suitable means until a pressure of 100mm head of water is indicated on a U-tube connected to the system. (ii) The system shall be allowed to stabilise, and pumped again until the pressure of 100mm is reached once more. (iii) The air pressure shall not fall to less than 75mm head during a period of 5 minutes without further pumping. Failure to pass an air test should not be taken as conclusive. When failure occurs, a water test should be undertaken. Acceptance or rejection of the line under test should be based on the results of this water test.	1	item	

<u>(50) SITE SERVICES - STORM DRAINAGE (Cont)</u>				
A	Water Test: (iv) A hydraulic pressure of not less than 1.2 meters and not more than 2.5 meters of water over the soffit of the sewer shall be applied to the higher end of the test section by means of a standpipe. (v) The section under test shall be allowed to stand for 1 hour to accommodate absorption. The head at the lower end shall not exceed 6.0 metres, and steeply graded sewers shall be tested in sections where the latter pressure would be exceeded if the whole section were tested at once. (vi) The loss of water over the test period shall be measured by adding water to the standpipe from a measuring vessel at 10-minute intervals and noting the quantity required to maintain water level in the standpipe. (vii) The average quantity of water added shall not exceed 0.5 litres of water per mm bore of main per 100m of pipeline per 24 hours. (viii) The Test Pressure shall be maintained for at least twenty minutes and the pipes shall bear the test without signs of leakage or injury either on the joints or on the barrels. Any defective joints or pipes shall be removed and made good to the satisfaction of the Test Supervisor.	1	item	
B	4. INFILTRATION TEST: (a) On completion, an infiltration test will be carried out unless otherwise directed by the Test Engineer/Supervisor, by collecting the discharge of the section under test in a vessel of known capacity. Non-pressure pipelines and manholes shall be inspected and tested for infiltration, after backfilling. All inlets to the system shall be effectively closed, and any residual flow shall be deemed to be infiltration. (b) The rate of infiltration shall not exceed 0.1 litres per second, per metre diameter per kilometre of pipe. (c) Notwithstanding the satisfactory completion of the above inspection or test, if there is any discernible flow of water entering the sewers or manholes which can be seen either by visual or CCTV inspection, the Developer shall take measures as are necessary to stop such infiltration. The contractor Engineer shall conduct these tests and an Engineers Certification shall be submitted in regard to sewer tests prior to completion of the development.	1	item	
C	WATER TIGHTNESS OF MANHOLES, CHAMBERS AND PUMP CHAMBERS; These shall be inspected to ensure that they are watertight with no identifiable flow of water penetrating the chamber.	1	item	
D	FAILURE OF TESTS & REMEDIAL WORKS; The failing of tests and any subsequent remedial works must be notified to the Consultant Engineer. Remedial works to be approved by Consultant Engineer. Further tests to be carried out and any further remedial works completed until the required tests yield a PASS result. All pipelines or manholes that are defective will have to be rectified by the Developer at their own expense.	1	item	
E	CLEANING OF SEWERS, DRAINS & MANHOLES; At the time of completion of the drainage works, the developer should ensure, to the satisfaction of the local authority, that all sewers, drains and manholes within the site are clean and free from obstructions. This is to be carried out prior to internal inspections such as CCTV surveys.	1	item	

<u>(50) SITE SERVICES - STORM DRAINAGE (Cont)</u>				
A	AS-BUILT INSPECTIONS & SURVEYS CCTV; A CCTV survey must be carried out by an independent contractor of the as-built foul and storm drainage main drainage lines and associated manholes, as shown on the engineering drawings, on completion of the works. The CCTV survey is also to include all the permitter drainage as shown on the architects drawing and is to include all the under slab pipe work upto the floor pop ups. Provide continuous recording with still photographs. Illumination to be of adequate intensity. The CCTV survey shall include a DVD of recordings and narrative report. Report to include photographs of each manhole and clearly identify the manhole and location on site by providing a site layout showing the positions of all manholes relative to the road and/or dwelling outline. Two copies of the report and DVD to be submitted to the Consultant Engineer prior to practical completion. The CCTV survey to be submitted to the Consultant Engineer for review and any pipelines or manholes that are defective will have to be rectified by the Developer. A repeat CCTV survey is to be carried out for this section of pipeline or manhole, this is at the Developers own expense. Complete testing to be done in two different stages: Initially a copy of the CCTV survey including a diagrammatic layout of the sewer is to be submitted to the engineer prior to backfilling of works. On completion of works a cctv survey is to be carried out on the existing and new drainage in the public sewer. The contractor is to carry out a cctv survey of all public sewers in the vicinity of the site including all spurs into the public sewer coming out of the site.	1	item	
B	AS-BUILT SURVEY; Upon completion of all ground works, in relation to services and drainage, an as-built topographical survey must be submitted including - location of manholes relative to the building outline - cover and invert levels and pipe diameters - location of gullies relative to the road edge - identify the location and type of drainage pipeline for the entire drainage length - location and type of service access points - identify the location and type of each service run around the site for its entire length This is to be submitted to the Consultant Engineer for review prior to practical completion. The topographical survey is to be submitted in AutoCAD 2010 with two hard copies of adequate scale.	1	item	
<u>ATTENUATION SYSTEM</u>				
<u>EXCAVATION AND EARTHWORK</u>				
Excavation				
<u>Excavation</u>				
Reduce Levels				
C	Depth 2.00 - 4.00m	759	m3	

<u>(50) SITE SERVICES - STORM DRAINAGE (Cont)</u>			
<u>Working Space</u>			
Foundations; excavations			
A	Depth 2.00 - 4.00m; backfilling with imported hardcore	108	m2
<u>Disposal</u>			
Excavated material; All surplus materials to be disposed of off-site to a licenced waste disposal facility granted by the EPA under Section 40 of the Waste Management Act or by the Local Authority under the Waste Facility Permit Regulations			
B	Disposal Off site	759	m3
<u>Filling with hardcore to be obtained off-site; 35/50mm clean washed crushed stone blinded with 8/12 clean crushed sand ; depositing in 150mm layers maximum thickness</u>			
To make up levels			
C	Average thickness not exceeding 250mm	36	m3
D	Average thickness exceeding 250mm	536	m3
<u>DRAINAGE</u>			
Below Ground			
<u>Soakaway; Geocellular Soakaway min 95% voids ratio; Include 375mm porous distributor pipe; Include layer of woven geotextile or equivalent; including all necessary excavation, disposal, working space, earthwork support, dewatering, backfilling, formwork, reinforcement, construction joints and finishes; all in strict accordance with the Engineer's Specification and Drawing C-05 & C-28 and Manufacturers Details</u>			
Attenuation Tank			
E	Depth of Chambers 900mm; to accomodate 141m3 of rainwater	1	nr
Pipes; perforated; loose couplers and ceiling ring joints in the running length			
F	225mm diameter	15	m
G	connection to attenuation system	2	nr
H	Sundries		

<u>(50) SITE SERVICES - STORM DRAINAGE (Cont)</u>				
Bentofix NSP 6600 Membrane or equivalent; layers around base and sides fo excavation and to top of stone for protection; all necessary laps and joints; to manufacturers instructions and Engineer's Specification and Drawings				
Generally	639	m2		
Woven Geotextile or equivalent; Polybrane PB240 or Stompro 390 (black) or equivalent; layers between foundation stone and chambers; all necessary laps and joints; to manufacturers instructions and Engineer's Specification and Drawings				
Generally	639	m2		

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**(50) SITE SERVICES - STORM DRAINAGE
Carried to Summary**

<u>(50) SITE SERVICES - TEMPORARY STORM DRAINAGE</u>			
<u>SECTIONAL COMPLETION</u>			
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item
<u>DRAINAGE</u>			
General Information			
<u>Information</u>			
C	When pricing the following items the Contractor's attention is drawn to the location of the site. The Contractor should also visit and check the site. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.		note
D	Any un-authorised excavations below the required level shall be made up with concrete of the same composition as for drain beds at the Contractors own expense; all as per Architects Specification		note
Drainage Below Ground - Storm Water			
<u>Excavation</u>			
Excavating trenches to receive pipes / ducts not exceeding 250mm diameter, earthwork support to sides of trenches; include for excavating below ground water level; grading bottoms of excavations; backfilling with imported selected fill material free from stones larger than 40mm, lumps of clay over 100mm, timber, frozen material and vegetable matter; approved by the Engineer; disposal of surplus soil off site; All surplus materials to be disposed of off-site to a licenced waste disposal facility granted by the EPA under Section 40 of the Waste Management Act or by the Local Authority under the Waste Facility Permit Regulations; as per Engineer's Drawing			
E	Average Depth 1500 - 2000mm	38	m
<u>Extra over excavating trenches irrespective of depth</u>			
<u>Extra over excavating trenches irrespective of depth</u>			
Around existing services crossing excavations			
F	Watermain; crossing excavations	1	nr

<u>(50) SITE SERVICES - TEMPORARY STORM DRAINAGE (Cont)</u>			
	Disposal		
A	Ground water	1	item
B	Surface water	1	item
	<u>Granular fill bed and surround; 14mm or 5mm graded aggregate or 10mm single sized aggregate; complying with the requirements of the Engineer's Specification; compaction factor value not greater than 0.2 when measured in accordance with Engineer's Specification; well compacted; as per Engineer's Drawings & Specification</u>		
	Beds and Surround		
C	750 x 725mm to 225mm diameter pipe	38	m
	PVC marker tape "Heptape" or equivalent		
D	Continuous strip laid during trench backfill, 100mm above pipework	38	m
	<u>Pipe; PVC SN8 pipework and fittings; to Engineer's Specification</u>		
	Pipes; loose couplers and ceiling ring joints in the running length		
E	225mm diameter	38	m
	<u>Extra over</u> pipework runs for		
F	connection to manholes	2	nr
	<u>Testing and Commissioning</u>		
G	TESTING OF SEWERS: All foul and storm drainage pipes to be tested in accordance with clause 3.20 Recommendations for Site Development Works for Housing areas by the DOE&LG. The contractor is to engage an engineer with professional indemnity insurance to supervise all air/water tests on sewer mains and watermains before backfilling. Manhole infiltration Manholes shall be tested for infiltration according to clause 3.21 Recommendations for Site Development Works for Housing areas by the DOE&LG.	1	item
H	1. PREPARATION: (a) The section of pipeline to be tested shall consist of one class of pipe only. (b) Pipe joints shall be left exposed during the test. (c) Each pipe opening shall be securely plugged by means of screw down sewer plugs, fitted across the diameter of the pipes.	1	item
J	2. FLUSHING: (a) Before backfilling or haunching, each length of sewer or drain between manholes, or such lengths as may be decided upon by the Test Engineer/Supervisor, shall be cleaned through (e.g. by dragging a suitable rubber plunger through the pipe). (b) A sufficient interval of time shall be allowed to elapse to permit the joints to set to the satisfaction of the Test Engineer/Supervisor.	1	item

<u>(50) SITE SERVICES - TEMPORARY STORM DRAINAGE (Cont)</u>				
A	3. PRESSURE TESTING: Air Test: (i) Air shall be pumped into the line by suitable means until a pressure of 100mm head of water is indicated on a U-tube connected to the system. (ii) The system shall be allowed to stabilise, and pumped again until the pressure of 100mm is reached once more. (iii) The air pressure shall not fall to less than 75mm head during a period of 5 minutes without further pumping. Failure to pass an air test should not be taken as conclusive. When failure occurs, a water test should be undertaken. Acceptance or rejection of the line under test should be based on the results of this water test.	1	item	
B	Water Test: (iv) A hydraulic pressure of not less than 1.2 meters and not more than 2.5 meters of water over the soffit of the sewer shall be applied to the higher end of the test section by means of a standpipe. (v) The section under test shall be allowed to stand for 1 hour to accommodate absorption. The head at the lower end shall not exceed 6.0 metres, and steeply graded sewers shall be tested in sections where the latter pressure would be exceeded if the whole section were tested at once. (vi) The loss of water over the test period shall be measured by adding water to the standpipe from a measuring vessel at 10-minute intervals and noting the quantity required to maintain water level in the standpipe. (vii) The average quantity of water added shall not exceed 0.5 litres of water per mm bore of main per 100m of pipeline per 24 hours. (viii) The Test Pressure shall be maintained for at least twenty minutes and the pipes shall bear the test without signs of leakage or injury either on the joints or on the barrels. Any defective joints or pipes shall be removed and made good to the satisfaction of the Test Supervisor.	1	item	
C	4. INFILTRATION TEST: (a) On completion, an infiltration test will be carried out unless otherwise directed by the Test Engineer/Supervisor, by collecting the discharge of the section under test in a vessel of known capacity. Non-pressure pipelines and manholes shall be inspected and tested for infiltration, after backfilling. All inlets to the system shall be effectively closed, and any residual flow shall be deemed to be infiltration. (b) The rate of infiltration shall not exceed 0.1 litres per second, per metre diameter per kilometre of pipe. (c) Notwithstanding the satisfactory completion of the above inspection or test, if there is any discernible flow of water entering the sewers or manholes which can be seen either by visual or CCTV inspection, the Developer shall take measures as are necessary to stop such infiltration. The contractor Engineer shall conduct these tests and an Engineers Certification shall be submitted in regard to sewer tests prior to completion of the development.	1	item	
D	WATER TIGHTNESS OF MANHOLES, CHAMBERS AND PUMP CHAMBERS; These shall be inspected to ensure that they are watertight with no identifiable flow of water penetrating the chamber.	1	item	
E	FAILURE OF TESTS & REMEDIAL WORKS; The failing of tests and any subsequent remedial works must be notified to the Consultant Engineer. Remedial works to be approved by Consultant Engineer. Further tests to be carried out and any further remedial works completed until the required tests yield a PASS result. All pipelines or manholes that are defective will have to be rectified by the Developer at their own expense.	1	item	

<u>(50) SITE SERVICES - TEMPORARY STORM DRAINAGE (Cont)</u>				
A	CLEANING OF SEWERS, DRAINS & MANHOLES; At the time of completion of the drainage works, the developer should ensure, to the satisfaction of the local authority, that all sewers, drains and manholes within the site are clean and free from obstructions. This is to be carried out prior to internal inspections such as CCTV surveys.	1	item	
B	AS-BUILT INSPECTIONS & SURVEYS CCTV; A CCTV survey must be carried out by an independent contractor of the as-built foul and storm drainage main drainage lines and associated manholes, as shown on the engineering drawings, on completion of the works. The CCTV survey is also to include all the permitter drainage as shown on the architects drawing and is to include all the under slab pipe work upto the floor pop ups. Provide continuous recording with still photographs. Illumination to be of adequate intensity. The CCTV survey shall include a DVD of recordings and narrative report. Report to include photographs of each manhole and clearly identify the manhole and location on site by providing a site layout showing the positions of all manholes relative to the road and/or dwelling outline. Two copies of the report and DVD to be submitted to the Consultant Engineer prior to practical completion. The CCTV survey to be submitted to the Consultant Engineer for review and any pipelines or manholes that are defective will have to be rectified by the Developer. A repeat CCTV survey is to be carried out for this section of pipeline or manhole, this is at the Developers own expense. Complete testing to be done in two different stages: Initially a copy of the CCTV survey including a diagrammatic layout of the sewer is to be submitted to the engineer prior to backfilling of works. On completion of works a cctv survey is to be carried out on the existing and new drainage in the public sewer. The contractor is to carry out a cctv survey of all public sewers in the vicinity of the site including all spurs into the public sewer coming out of the site.	1	item	
C	AS-BUILT SURVEY; Upon completion of all ground works, in relation to services and drainage, an as-built topographical survey must be submitted including - location of manholes relative to the building outline - cover and invert levels and pipe diameters - location of gullies relative to the road edge - identify the location and type of drainage pipeline for the entire drainage length - location and type of service access points - identify the location and type of each service run around the site for its entire length This is to be submitted to the Consultant Engineer for review prior to practical completion. The topographical survey is to be submitted in AutoCAD 2010 with two hard copies of adequate scale.	1	item	

(50) SITE SERVICES - TEMPORARY STORM DRAINAGE (Cont)

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**(50) SITE SERVICES - TEMPORARY STORM DRAINAGE
Carried to Summary**

<u>(50) SITE SERVICES - FOUL DRAINAGE</u>				
<u>SECTIONAL COMPLETION</u>				
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item	
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item	
<u>DRAINAGE</u>				
General Information				
<u>Information</u>				
C	When pricing the following items the Contractor's attention is drawn to the location of the site. The Contractor should also visit and check the site. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.		Note	
D	Any un-authorised excavations below the required level shall be made up with concrete of the same composition as for drain beds at the Contractors own expense; all as per Architects Specification		Note	
Drainage Below Ground - Foul Water				
<u>Excavation</u>				
Excavating trenches to receive pipes / ducts not exceeding 250mm diameter, earthwork support to sides of trenches; include for excavating below ground water level; grading bottoms of excavations; backfilling with imported selected fill material approved by the Engineer; disposal of surplus soil off site; All surplus materials to be disposed of off-site to a licenced waste disposal facility granted by the EPA under Section 40 of the Waste Management Act or by the Local Authority under the Waste Facility Permit Regulations				
E	Average Depth 500- 1000mm	39	m	
F	Average Depth 1000- 1500mm	120	m	
<u>Extra over excavating trenches irrespective of depth</u>				
Around existing services crossing excavations				
G	Watermain; crossing excavations	1	nr	

<u>(50) SITE SERVICES - FOUL DRAINAGE (Cont)</u>				
	Disposal			
A	Ground water	1	item	
B	Surface water	1	item	
	<u>Plain in-situ concrete bed and surround; minimum 150mm bed; Class C20/25; leanmix concrete backfill; as per Engineer's Drawing</u>			
	Beds and Surrounds			
C	400 x 400mm to 100mm diameter pipe	39	m	
D	450 x 450mm to 150mm diameter pipe	120	m	
	PVC marker tape "Heptape" or equivalent			
E	Continuous strip laid during trench backfill, 100mm above pipework	159	m	
	<u>Pipe; PVC SN8 pipework and fittings; to Engineer's Specification</u>			
	Pipes; loose couplers and ceiling ring joints in the running length			
F	100mm diameter	39	m	
	<u>Extra over</u> pipework runs for			
G	connection to manholes	3	nr	
H	connection to AJs	4	nr	
J	connection to IC	3	nr	
K	connection to BIGT	19	nr	
L	T-Junctions; 150 x 150 x 100mm	10	nr	
M	expansion joints in the concrete bed and surround	8	nr	
	<u>Pipe; PVC SN8 pipework and fittings; to Engineer's Specification</u>			
	Pipes; loose couplers and ceiling ring joints in the running length			
N	150mm diameter	120	m	
	<u>Extra over</u> pipework runs for			
P	connection to manholes	15	nr	
Q	connection to IC	8	nr	
R	T-Junctions; 150 x 150 x 150mm	2	nr	

(50) SITE SERVICES - FOUL DRAINAGE (Cont)				
A	expansion joints in the concrete bed and surround	24	nr	
	<u>Accessories</u> Back Inlet Gully Trap; complete; as per Architect's Specification Q10; Manufacturer: Contractor to submit proposals for selection by ER; Type: Back inlet Bottle gully (roddable) to requirements of BS4660: 2000; Cover: Square topped grating to be galvanised steel to requirements of BS EN1253: Part 2. Grating to allow for surface water collection; Support: 300x300x200mm deep concrete base and lean mix of concrete (no richer than 1 in 18) should support the Bottle Gully; surrounded with granular backfill. To ensure the gully is easily accessible for cleaning out, its base should be within easy reach from ground level; jointed to PVC pipes; include for all excavation, disposal, backfilling, concrete, formwork, etc; as per Architect's Specification			
B	Back Inlet Gully Trap; 100mm outlet; galvanised cast iron grid cover	19	nr	
	Access junctions to Engineer's Specification; complete with cast iron access cover; bedding and surrounding in concrete Grade 25N20; backfilling with granular material; including all necessary excavations, disposal, dewatering, back filling, etc; as per Engineers Drawings and Specification			
C	Access junction; 100mm / 150mm outlets; include for all depth extensions	4	nr	
	<u>Inspection Chambers</u> Inspection Chambers, Complete; Blockwork Inspection Chamber; Internal Dims: 600x600mm diameter; 600mm x 600mm opening in slab; 225mm C25/30 Concrete base on 75mm grade C12/15 bliding concrete; 50mm cross fall; Manhole Construction: 215mm thick 20N/mm2 concrete block work in accordance with IS EN 771-3; Pipes built into chamber wall or joint formed with watertight seals; Refer to drawing STD-WW-07 for backfill and bedding details; 1 to 3 courses of class B engineering bricks to Engineer's Specification set in C50/60 mortar; cover to be set as per manufacturers specification; sealed manhole cover to suit IS EN 124 loading; including all necessary excavation, disposal, working space, earthwork support, dewatering, backfilling, formwork, reinforcement, construction joints, concrete lintols and finishes; all as per Irish Water Details STD-WW-13			
D	Depth to invert 500 - 1000mm	5	nr	

(50) SITE SERVICES - FOUL DRAINAGE (Cont)Manholes

Manholes, Complete; Precast Manhole; Internal Dims: 1200mm diameter; 600mm x 600mm opening in slab; 225mm C28/35 Mass Concrete Foundations concrete; invert in base should be formed with cast in-situ concrete C25/30 20mm aggregate finished with a 1:3 cement sand mortar; Manhole Construction: 150mm thick grade C16/20 in-situ concrete surround; Precast concrete manhole rings to IS 420 in conjunction with IS EN 1917:2004; 1:3 cement:sand mortar with steel trowel finish at a 1:30 slope towards the channel; when chamber is occupied where the pipe; precast RC roof slab shall be 200mm thick in Class C25/30 with 40mm cover to steel; 1 to 3 courses of class B engineering bricks to Engineer's Specification set in C50/60 mortar; short length pipe and pipe joint external to manhole shall not exceed 600mm from the inner face of manhole wall; pipe should be cut flush with the inside surface of the manhole wall so that the channel extends the full length of the manhole; including all necessary excavation, disposal, working space, earthwork support, dewatering, backfilling, formwork, reinforcement, construction joints, concrete lintols and finishes; all as per Irish Water Details STD-WW-10

A Depth to invert 1000 - 1500mm

4

nr

Sundries

Perforated half circle channel pipes; bedding and jointing in cement mortar (1:2)

B 100mm; curved, 1200mm long

3

nr

C 150mm; curved, 1200mm long

5

nr

D 150mm; straight, 1200mm long

5

nr

Benching; clause 20/20 concrete; finished in 2:1 sand cement mortar with a smooth trowel finish; 1 in 30 slope towards channel; as per Engineer's Specification

E benching in bottoms; 1200mm diameter; trowelling

4

nr

Standard rungs; 25mm diameter solid mild steel; 360mm wide x 119mm high x 270mm long; 300mm c/c; galvanised to the latest version of BS EN ISO 1461:2009

F 270mm tails

20

nr

Approved pattern cast iron manhole cover and frame; Class D400 to IS/EN 124; 150mm deep; non rock design; closed keyways; manufactured from spherical graphite cast iron (ductile cast iron), 600x600 clear opening; cover and frame coated in bitumen or other approved material; cover to have a minimum mass of 140kg/m²; frame bedding area shall be 80,000mm² min; frames shall be designed to prevent covers falling into manholes; frames shall be bedded on approved mortar to manufacturers instructions

G Ope size 600 x 600mm

4

nr

<u>(50) SITE SERVICES - FOUL DRAINAGE (Cont)</u>			
<u>Mains</u>			
Connection to existing			
A	Connecting new foul drain to existing foul manhole; locating and diverting flows; connecting new drain to existing manhole; include for carefully excavating by hand; form new connection into manhole; include for all fittings, etc.; making good and reinstating all work and surfaces disturbed to match existing; maintain flow at all times; all in strict accordance with the Engineer's specification and Drawing	3	nr
<u>Testing and Commissioning</u>			
B	The contractor is to include for the employment of a chartered engineer with Professional Indemnity insurance to €6.5m to supervise and witness the installation and backfilling of all air tests/ water & other Irish Water QA as required under the Irish Water Quality Assurance (QA) field inspection requirements manual, January 2018 version 2.	1	item
C	It is a requirement of the main contractor to agree the required QA with the IW field inspectors, retain all the QA documents on site & repair any defects. The main contractors chartered engineer & the main contractor are responsible for agreeing on site conformance with IW prior to hand over of the works to IW. The price for all the above is deemed to be included in the main contractors tender sum.	1	item
D	TESTING OF SEWERS: All foul and storm drainage pipes to be tested in accordance with clause 3.20 Recommendations for Site Development Works for Housing areas by the DOE&LG. The contractor is to engage an engineer with professional indemnity insurance to supervise all air/water tests on sewer mains and watermains before backfilling. Manhole infiltration Manholes shall be tested for infiltration according to clause 3.21 Recommendations for Site Development Works for Housing areas by the DOE&LG.	1	item
E	1. PREPARATION: (a) The section of pipeline to be tested shall consist of one class of pipe only. (b) Pipe joints shall be left exposed during the test. (c) Each pipe opening shall be securely plugged by means of screw down sewer plugs, fitted across the diameter of the pipes.	1	item
F	2. FLUSHING: (a) Before backfilling or haunching, each length of sewer or drain between manholes, or such lengths as may be decided upon by the Test Engineer/Supervisor, shall be cleaned through (e.g. by dragging a suitable rubber plunger through the pipe). (b) A sufficient interval of time shall be allowed to elapse to permit the joints to set to the satisfaction of the Test Engineer/Supervisor.	1	item

<u>(50) SITE SERVICES - FOUL DRAINAGE (Cont)</u>				
A	3. PRESSURE TESTING: Air Test: (i) Air shall be pumped into the line by suitable means until a pressure of 100mm head of water is indicated on a U-tube connected to the system. (ii) The system shall be allowed to stabilise, and pumped again until the pressure of 100mm is reached once more. (iii) The air pressure shall not fall to less than 75mm head during a period of 5 minutes without further pumping. Failure to pass an air test should not be taken as conclusive. When failure occurs, a water test should be undertaken. Acceptance or rejection of the line under test should be based on the results of this water test.	1	item	
B	Water Test: (iv) A hydraulic pressure of not less than 1.2 meters and not more than 2.5 meters of water over the soffit of the sewer shall be applied to the higher end of the test section by means of a standpipe. (v) The section under test shall be allowed to stand for 1 hour to accommodate absorption. The head at the lower end shall not exceed 6.0 metres, and steeply graded sewers shall be tested in sections where the latter pressure would be exceeded if the whole section were tested at once. (vi) The loss of water over the test period shall be measured by adding water to the standpipe from a measuring vessel at 10-minute intervals and noting the quantity required to maintain water level in the standpipe. (vii) The average quantity of water added shall not exceed 0.5 litres of water per mm bore of main per 100m of pipeline per 24 hours. (viii) The Test Pressure shall be maintained for at least twenty minutes and the pipes shall bear the test without signs of leakage or injury either on the joints or on the barrels. Any defective joints or pipes shall be removed and made good to the satisfaction of the Test Supervisor.	1	item	
C	4. INFILTRATION TEST: (a) On completion, an infiltration test will be carried out unless otherwise directed by the Test Engineer/Supervisor, by collecting the discharge of the section under test in a vessel of known capacity. Non-pressure pipelines and manholes shall be inspected and tested for infiltration, after backfilling. All inlets to the system shall be effectively closed, and any residual flow shall be deemed to be infiltration. (b) The rate of infiltration shall not exceed 0.1 litres per second, per metre diameter per kilometre of pipe. (c) Notwithstanding the satisfactory completion of the above inspection or test, if there is any discernible flow of water entering the sewers or manholes which can be seen either by visual or CCTV inspection, the Developer shall take measures as are necessary to stop such infiltration. The contractor Engineer shall conduct these tests and an Engineers Certification shall be submitted in regard to sewer tests prior to completion of the development.	1	item	
D	WATER TIGHTNESS OF MANHOLES, CHAMBERS AND PUMP CHAMBERS; These shall be inspected to ensure that they are watertight with no identifiable flow of water penetrating the chamber.	1	item	
E	FAILURE OF TESTS & REMEDIAL WORKS; The failing of tests and any subsequent remedial works must be notified to the Consultant Engineer. Remedial works to be approved by Consultant Engineer. Further tests to be carried out and any further remedial works completed until the required tests yield a PASS result. All pipelines or manholes that are defective will have to be rectified by the Developer at their own expense.	1	item	

<u>(50) SITE SERVICES - FOUL DRAINAGE (Cont)</u>				
A	CLEANING OF SEWERS, DRAINS & MANHOLES; At the time of completion of the drainage works, the developer should ensure, to the satisfaction of the local authority, that all sewers, drains and manholes within the site are clean and free from obstructions. This is to be carried out prior to internal inspections such as CCTV surveys.	1	item	
B	AS-BUILT INSPECTIONS & SURVEYS CCTV; A CCTV survey must be carried out by an independent contractor of the as-built foul and storm drainage main drainage lines and associated manholes, as shown on the engineering drawings, on completion of the works. The CCTV survey is also to include all the permitter drainage as shown on the architects drawing and is to include all the under slab pipe work upto the floor pop ups. Provide continuous recording with still photographs. Illumination to be of adequate intensity. The CCTV survey shall include a DVD of recordings and narrative report. Report to include photographs of each manhole and clearly identify the manhole and location on site by providing a site layout showing the positions of all manholes relative to the road and/or dwelling outline. Two copies of the report and DVD to be submitted to the Consultant Engineer prior to practical completion. The CCTV survey to be submitted to the Consultant Engineer for review and any pipelines or manholes that are defective will have to be rectified by the Developer. A repeat CCTV survey is to be carried out for this section of pipeline or manhole, this is at the Developers own expense. Complete testing to be done in two different stages: Initially a copy of the CCTV survey including a diagrammatic layout of the sewer is to be submitted to the engineer prior to backfilling of works. On completion of works a cctv survey is to be carried out on the existing and new drainage in the public sewer. The contractor is to carry out a cctv survey of all public sewers in the vicinity of the site including all spurs into the public sewer coming out of the site.	1	item	
C	AS-BUILT SURVEY; Upon completion of all ground works, in relation to services and drainage, an as-built topographical survey must be submitted including - location of manholes relative to the building outline - cover and invert levels and pipe diameters - location of gullies relative to the road edge - identify the location and type of drainage pipeline for the entire drainage length - location and type of service access points - identify the location and type of each service run around the site for its entire length This is to be submitted to the Consultant Engineer for review prior to practical completion. The topographical survey is to be submitted in AutoCAD 2010 with two hard copies of adequate scale.	1	item	

(50) SITE SERVICES - FOUL DRAINAGE (Cont)

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**(50) SITE SERVICES - FOUL DRAINAGE
Carried to Summary**

<u>(50) SITE SERVICES - LAND DRAIN</u>			
<u>SECTIONAL COMPLETION</u>			
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item
<u>DRAINAGE</u>			
General Information			
<u>Information</u>			
C	When pricing the following items the Contractor's attention is drawn to the location of the site. The Contractor should also visit and check the site. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.		note
D	Any un-authorised excavations below the required level shall be made up with concrete of the same composition as for drain beds at the Contractors own expense; all as per Architects Specification		note
Drainage Below Ground - Storm Water			
<u>Excavation</u>			
Excavating trenches to receive pipes / ducts not exceeding 250mm diameter, earthwork support to sides of trenches; include for excavating below ground water level; grading bottoms of excavations; backfilling with imported selected fill material free from stones larger than 40mm, lumps of clay over 100mm, timber, frozen material and vegetable matter; approved by the Engineer; disposal of surplus soil off site; All surplus materials to be disposed of off-site to a licenced waste disposal facility granted by the EPA under Section 40 of the Waste Management Act or by the Local Authority under the Waste Facility Permit Regulations; as per Engineer's Drawing			
E	Average Depth 1000 - 1500mm	225	m
<u>Extra over excavating trenches irrespective of depth</u>			
Disposal			
F	Ground water	1	item
G	Surface water	1	item

<u>(50) SITE SERVICES - LAND DRAIN (Cont)</u>			
<u>Granular fill bed and surround; 14mm or 5mm graded aggregate or 10mm single sized aggregate; complying with the requirements of the Engineer's Specification; compaction factor value not greater than 0.2 when measured in accordance with Engineer's Specification; well compacted; as per Engineer's Drawings & Specification</u>			
Beds and Surround			
A	600 x 650mm to 150mm diameter pipe	225	m
PVC marker tape "Heptape" or equivalent			
B	Continuous strip laid during trench backfill, 100mm above pipework	225	m
<u>Pipe; perforated pipework and fittings; to Engineer's Specification</u>			
Pipes; loose couplers and ceiling ring joints in the running length			
C	150mm diameter	225	m
<u>Extra over</u> pipework runs for			
D	connection to manholes	4	nr
E	connection to ICs	1	nr
F	Non-woven geotextile; girth: 2500mm	225	m
<u>Testing and Commissioning</u>			
G	TESTING OF SEWERS: All foul and storm drainage pipes to be tested in accordance with clause 3.20 Recommendations for Site Development Works for Housing areas by the DOE&LG. The contractor is to engage an engineer with professional indemnity insurance to supervise all air/water tests on sewer mains and watermain before backfilling. Manhole infiltration Manholes shall be tested for infiltration according to clause 3.21 Recommendations for Site Development Works for Housing areas by the DOE&LG.	1	item
H	1. PREPARATION: (a) The section of pipeline to be tested shall consist of one class of pipe only. (b) Pipe joints shall be left exposed during the test. (c) Each pipe opening shall be securely plugged by means of screw down sewer plugs, fitted across the diameter of the pipes.	1	item
J	2. FLUSHING: (a) Before backfilling or haunching, each length of sewer or drain between manholes, or such lengths as may be decided upon by the Test Engineer/Supervisor, shall be cleaned through (e.g. by dragging a suitable rubber plunger through the pipe). (b) A sufficient interval of time shall be allowed to elapse to permit the joints to set to the satisfaction of the Test Engineer/Supervisor.	1	item

<u>(50) SITE SERVICES - LAND DRAIN (Cont)</u>				
A	3. PRESSURE TESTING: Air Test: (i) Air shall be pumped into the line by suitable means until a pressure of 100mm head of water is indicated on a U-tube connected to the system. (ii) The system shall be allowed to stabilise, and pumped again until the pressure of 100mm is reached once more. (iii) The air pressure shall not fall to less than 75mm head during a period of 5 minutes without further pumping. Failure to pass an air test should not be taken as conclusive. When failure occurs, a water test should be undertaken. Acceptance or rejection of the line under test should be based on the results of this water test.	1	item	
B	Water Test: (iv) A hydraulic pressure of not less than 1.2 meters and not more than 2.5 meters of water over the soffit of the sewer shall be applied to the higher end of the test section by means of a standpipe. (v) The section under test shall be allowed to stand for 1 hour to accommodate absorption. The head at the lower end shall not exceed 6.0 metres, and steeply graded sewers shall be tested in sections where the latter pressure would be exceeded if the whole section were tested at once. (vi) The loss of water over the test period shall be measured by adding water to the standpipe from a measuring vessel at 10-minute intervals and noting the quantity required to maintain water level in the standpipe. (vii) The average quantity of water added shall not exceed 0.5 litres of water per mm bore of main per 100m of pipeline per 24 hours. (viii) The Test Pressure shall be maintained for at least twenty minutes and the pipes shall bear the test without signs of leakage or injury either on the joints or on the barrels. Any defective joints or pipes shall be removed and made good to the satisfaction of the Test Supervisor.	1	item	
C	4. INFILTRATION TEST: (a) On completion, an infiltration test will be carried out unless otherwise directed by the Test Engineer/Supervisor, by collecting the discharge of the section under test in a vessel of known capacity. Non-pressure pipelines and manholes shall be inspected and tested for infiltration, after backfilling. All inlets to the system shall be effectively closed, and any residual flow shall be deemed to be infiltration. (b) The rate of infiltration shall not exceed 0.1 litres per second, per metre diameter per kilometre of pipe. (c) Notwithstanding the satisfactory completion of the above inspection or test, if there is any discernible flow of water entering the sewers or manholes which can be seen either by visual or CCTV inspection, the Developer shall take measures as are necessary to stop such infiltration. The contractor Engineer shall conduct these tests and an Engineers Certification shall be submitted in regard to sewer tests prior to completion of the development.	1	item	
D	WATER TIGHTNESS OF MANHOLES, CHAMBERS AND PUMP CHAMBERS; These shall be inspected to ensure that they are watertight with no identifiable flow of water penetrating the chamber.	1	item	
E	FAILURE OF TESTS & REMEDIAL WORKS; The failing of tests and any subsequent remedial works must be notified to the Consultant Engineer. Remedial works to be approved by Consultant Engineer. Further tests to be carried out and any further remedial works completed until the required tests yield a PASS result. All pipelines or manholes that are defective will have to be rectified by the Developer at their own expense.	1	item	

<u>(50) SITE SERVICES - LAND DRAIN (Cont)</u>				
A	CLEANING OF SEWERS, DRAINS & MANHOLES; At the time of completion of the drainage works, the developer should ensure, to the satisfaction of the local authority, that all sewers, drains and manholes within the site are clean and free from obstructions. This is to be carried out prior to internal inspections such as CCTV surveys.	1	item	
B	AS-BUILT INSPECTIONS & SURVEYS CCTV; A CCTV survey must be carried out by an independent contractor of the as-built foul and storm drainage main drainage lines and associated manholes, as shown on the engineering drawings, on completion of the works. The CCTV survey is also to include all the permitter drainage as shown on the architects drawing and is to include all the under slab pipe work upto the floor pop ups. Provide continuous recording with still photographs. Illumination to be of adequate intensity. The CCTV survey shall include a DVD of recordings and narrative report. Report to include photographs of each manhole and clearly identify the manhole and location on site by providing a site layout showing the positions of all manholes relative to the road and/or dwelling outline. Two copies of the report and DVD to be submitted to the Consultant Engineer prior to practical completion. The CCTV survey to be submitted to the Consultant Engineer for review and any pipelines or manholes that are defective will have to be rectified by the Developer. A repeat CCTV survey is to be carried out for this section of pipeline or manhole, this is at the Developers own expense. Complete testing to be done in two different stages: Initially a copy of the CCTV survey including a diagrammatic layout of the sewer is to be submitted to the engineer prior to backfilling of works. On completion of works a cctv survey is to be carried out on the existing and new drainage in the public sewer. The contractor is to carry out a cctv survey of all public sewers in the vicinity of the site including all spurs into the public sewer coming out of the site.	1	item	
C	AS-BUILT SURVEY; Upon completion of all ground works, in relation to services and drainage, an as-built topographical survey must be submitted including - location of manholes relative to the building outline - cover and invert levels and pipe diameters - location of gullies relative to the road edge - identify the location and type of drainage pipeline for the entire drainage length - location and type of service access points - identify the location and type of each service run around the site for its entire length This is to be submitted to the Consultant Engineer for review prior to practical completion. The topographical survey is to be submitted in AutoCAD 2010 with two hard copies of adequate scale.	1	item	

(50) SITE SERVICES - LAND DRAIN (Cont)

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**(50) SITE SERVICES - LAND DRAIN
Carried to Summary**

<u>(50) SITE SERVICES - WATERMAIN</u>			
<u>SECTIONAL COMPLETION</u>			
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item
<u>DRAINAGE/SERVICES - WATERMAIN</u>			
Builders Work in Connection With Watermains			
<u>Excavation</u>			
Excavating trenches to receive pipes / ducts not exceeding 250mm diameter, earthwork support to sides of trenches; include for excavating below ground water level; grading bottoms of excavations; backfilling with imported compacted stone fill in strict accordance with Irish Water guidelines; disposal of surplus soil off site; All surplus materials to be disposed of off-site to a licenced waste disposal facility granted by the EPA under Section 40 of the Waste Management Act or by the Local Authority under the Waste Facility Permit Regulations			
C	Average Depth 1000 - 1500mm	212	m
<u>Extra over excavating trenches irrespective of depth</u>			
Breaking up & Reinstating			
D	Breaking out existing roadway and associated make-up; saw cutting surface; include for reinstating bitmac surfacing and all associated hardcore makeup; comprising 25mm thick AC10 close surface base to Table 2 Column 4 Specification for Roadworks; laid on 40mm thick AC20 dense binder base to Table 2 Column 2 Specification for Roadworks; laid on 80mm thick AC32 dense road base to Table 2 Column 1 Specification for Roadworks; to TII 900 Series; rolled with 10-12.5 tonne roller; laid on 150mm deep clause 804 stone sub-base; laid on 300mm deep clause 6F1 capping layer; including geogrid membranes; include for fair jointing to fair edges; include for breaking out and reinstating all kerbing required; disposal of excavated material off site; all in accordance with the Engineer's Specification	131	m
Around existing services crossing excavations			
E	Foul pipe; crossing excavations	6	nr
F	Storm pipe; crossing excavations	6	nr

<u>(50) SITE SERVICES - WATERMAIN (Cont)</u>					
	Disposal				
A	Ground water	1	item		
B	Surface water	1	item		
	<u>Granular fill bed and surround; 14mm or 5mm graded aggregate or 10mm single sized aggregate; complying with the requirements of the Engineer's Specification; compaction factor value not greater than 0.2 when measured in accordance with Engineer's Specification; well compacted; as per Engineer's Drawings & Specification</u>				
	Beds and surrounds				
C	600 X 600mm to 150mm diameter pipes / ducts	212	m		
	PVC marker tape "Heptape" or equivalent				
D	Continuous strip laid during trench backfill, 100mm above pipework	212	m		
	Water warning mesh; Blue polythene warning mesh; in accordance with the Engineer's Specification				
E	Continuous strip laid during trench backfill, 400mm wide water warning mesh; 350mm below the finished ground surface with steel tracer wire; include for tying to valves	212	m		
	<u>Watermain pipework; HDPE Type PE100 SDR 11 watermain pipe</u>				
	Watermain; including all rubber ring joints in running length; include for concrete anchor blocks				
F	150mm diameter	212	m		
	<u>Extra over</u> pipework runs for				
G	Bends; 150mm diameter	10	nr		
H	T Junctions; 100 x 100 x 100mm	4	nr		
J	Connection to sluice valve	14	nr		
K	Connection to scour valve	4	nr		
L	Connection to hydrant	5	nr		

<u>(50) SITE SERVICES - WATERMAIN (Cont)</u>				
<u>Pipework Accessories</u>				
A	Sluice Valves shall be resilient seated and shall comply with Engineer's Specification; All Sluice Valves shall be anticlockwise closing; thrust blocks (not shown on drawing) to be provided as per STD-W-28 at all tees, bends, tapers, dead ends and pipes at steep slopes; flanged tailpeices as required for the watermain to be fitted; anti corrosion tape to be provided around buried flanges; connected to watermain; include for VJ couplings; include for spindle extension where required; include all necessary ties, connections and fittings; all in strict accordance with the Local Authority's regulations and the Engineer's Specification (Chamber measured elsewhere); as per Engineer's Specification & Drawings & Irish Water Standard Detail STD-W-15	7	nr	
B	Fire Hydrant; All Hydrants, surface box frames and covers shall comply with the relevant provisions of the Engineer's Specification; Fire Hydrants shall be Type 2, the hydrant inlet shall be 80mm diameter with PN16; all hydrants shall be clockwise closing; thrust blocks (not shown on drawings) to be provided as per Standard Drawing STD-W-28 at all tees, bends, tapers, dead ends and pipes at steep slopes; size and type of outlet and direction of closing shall comply with the requirements of the planning authority; connected to watermain; include all necessary VJ couplings, flanged riser pieces, flanged tees, double flanged spool pieces, ties, connections and fittings; anti-corrosion tape to be provided around buried flanges; all in strict accordance with the Local Authority's regulations (Chamber measured elsewhere);as per Engineer's Specification & Drawings & Irish Water Standard Detail STD-W-18	5	nr	
C	Scour valve; Scour Valves shall comply with the requirements of the Engineer's Specification and have a 16 Bar Rating unless otherwise detailed in the Contract and have N.P. 16 flanges. Valves are to be inside screw valves with non-rising spindles. The spindles of underground valves shall be fitted with cast iron caps secured with set screws or pins, while valves above ground shall be fitted with cast iron hand wheels, on which the direction of opening is to be marked. All valves are to be clockwise closing. Valves are to be hydraulically tested during manufacture in accordance with the Engineer's Specification and a manufacturer's test certificate shall be produced for each valve on request. Where necessary valves shall be fitted with extension spindles or universal joint operating rods and headstocks or spindle caps as appropriate. All valves shall be closed and open-end tested. All machined surfaces of valves shall be supplied with a protective coating of a nontoxic bituminous composition applied by a hot-dipped process. Machined surfaces, liable to rusting, shall be well covered with a rust preventative composition. All valves shall be clearly marked with the appropriate schedule reference number. Large items shall be so marked in two places for ease of identification. Unless otherwise specified the Sluice Valve Surface Boxes shall be Cast Iron 100mm diameter with a clear opening 200mm deep; scour valve arrangement to STD-W-30; Electric actuators for Sluice Valves are to be sealed watertight actuators of approved manufacture, suitable for use in the Hydraulic Conditions obtaining; connected to watermain; include all necessary ties, anchor blocks, connections and fittings; all in strict accordance with the Local Authority's regulations and the Engineer's Specification (Chamber measured elsewhere)	2	nr	

<u>(50) SITE SERVICES - WATERMAIN (Cont)</u>				
<u>Identification plates; In accordance with Engineer's Specification</u>				
A	Identification plates; sluice valve marker plate, on precast concrete post; excavation, backfilling and disposal, concrete surround, as per Engineers Specification	7	nr	
B	Identification plates; fire hydrant marker plate, on precast concrete post; excavation, backfilling and disposal, concrete surround, as per Engineers Specification	5	nr	
C	Identification plates; Scour valve marker plate, on precast concrete post; excavation, backfilling and disposal, concrete surround, as per Engineers Specification	2	nr	
<u>Chambers</u>				
Sluice Valve chamber; 150mm minimum thick C25/30 concrete base on 75mm of lean mix concrete blinding, grade C15/40; 215mm thick solid blockwork walls; bedded in cement mortar; allow for sand/cement fill around pipework; 150mm thick concrete roof slab c/w opening for 445 x 280mm cover; include for sluice valve cover, Group 4, 445 x 280mm frame opening; cover and frame to be bedded on mortar; overall internal dimensions 600 x 600mm; include for support plinth; all blockwork to be taken clear of pipes and suitably arched or supported by concrete lintols; top of cover slab to be 50mm below FGL in roads and footpaths and at FGL in fields and grass margin; include for concrete surround to perimeter of manhole cover; include for 50mm diameter drain in chamber; including all necessary excavation, disposal, working space, earthwork support, dewatering, backfilling, formwork, reinforcement, construction joints and finishes; all as per specification and Engineers Specification and Drawings & Irish Water Standard Detail STD-W-15				
D	600 x 600mm minimum internal dimensions; depth 1000 - 1500mm	7	nr	
Fire Hydrant chamber; 100mm minimum thick C25/30 concrete base on 75mm of lean mix concrete blinding, grade C15/40; 215mm thick solid blockwork walls; bedded in cement mortar; allow for sand/cement fill around pipework; 150mm thick concrete roof slab c/w opening for 445 x 280mm cover; include for hydrant cover; 445 x 280mm frame opening; cover and frame to be bedded on mortar; overall internal dimensions 600 x 600mm; include for support plinth; all blockwork to be taken clear of pipes and suitably arched or supported by concrete lintols; top of cover slab to be 50mm below FGL in roads and footpaths and at FGL in fields and grass margin; include for concrete surround to perimeter of manhole cover; include for 50mm diameter drain in chamber; including all necessary excavation, disposal, working space, earthwork support, dewatering, backfilling, formwork, reinforcement, construction joints and finishes; all as per Engineers Specification and Drawings & Irish water Standard Detail STD-W-18				
E	900 x 900mm minimum internal dimensions; depth 1000 - 1500mm	5	nr	

<u>(50) SITE SERVICES - WATERMAIN (Cont)</u>				
A	Scour valve chamber; 300mm thick Class C25/30 concrete base incorporating 400 x 400 x 200mm deep sump, include for thickening slab by 200mm; on 75mm of grade C12/15 lean mix concrete blinding; 200mm thick precast concrete ring; with 150mm thick grade C16/20 concrete surround; minimum 50mm clear ope around pipe; allow for sand/cement fill around pipework; 200mm thick concrete cover slab with 100mm deep plinth on mortar bed c/w 600 x 600mm opening; include for 600 x 600mm cast iron manhole cover and frame stamped 'ScV' class D400; cover and frame to be bedded on mortar; class B engineering brick necking to concrete cover slab bedded in class C50/60 mortar; overall internal dimensions 1200mm diameter including all necessary excavation, disposal, working space, earthwork support, dewatering, backfilling, formwork, reinforcement, construction joints and finishes; all as per specification and Engineers Specification and Drawings & Irish Water Standard Detail STD-W-30			
B	1200mm diameter internal dimensions; depth 1000 - 1500mm <u>Concrete bases/Anchor blocks</u> Excavate; level and compact bottoms of excavation; part backfill; dispose of surplus; The formation level of all anchor blocks shall be prepared by hand at specified depths below the trench formation level and the bearing area shall be excavated carefully by hand to avoid over excavation. Following preparation and approval of the formation, the Contractor shall provide and lay a 50.0 mm depth Class 7.5/20 concrete to prevent deterioration of the formation during fixing of bends and fittings and the erection of anchor block formwork. The anchor blocks shall be constructed in Class 20/25 concrete to the dimensions shown on Irish Water - Water Infrastructure Standard Details.as per Engineer's Drawings	2	nr	
C	size 450 x 450 x 600mm deep anchor blocks; complete <u>Mains</u> Connection to existing watermain pipe	14	nr	
D	Connection to existing watermain pipe; 100mm diameter; provide opening for new watermain connection; carefully excavate by hand to locate existing live watermain; include for all fittings including flange adaptors, flanged tees, HDPE branch etc required to make the connection; including all excavation, disposal, working space, backfilling; making good; reinstate all finishes to match existing; maintain flow at all times; Connection to be co-ordinated with Engineer; it will be the duty of the Contractor to seek all necessary road opening licences, permissions, etc including any Irish Water / Local Authority / Group Water Scheme connection levies; The connection must be made in accordance with Local Authority Guideliens and trench backfilled in accordance with Civil/Structural Engineering Spec and Guidelines for the Opening, Backfilling and Reinstatement of Trenches in Public Roads - Dept of Env & Local Gov 2002 and Specification for the Reinstatement of Openings in Highways HUAC 2010; all new fittings, branches and ferrules to be installed as per Local Authority requirements and Irish Water Requirements; The Contractor shall carry out any investigations, searches, tests, trial holes, slit trenches, and trial holes necessary to locate existing services at his own expense; all as per Engineer's Specification	4	nr	

(50) SITE SERVICES - WATERMAIN (Cont)

Testing and Commissioning

- | | | | |
|---|--|---|------|
| A | PREPARATION: (a) The section of pipeline to be tested shall consist of one class of pipe only. (b) Pipe joints shall be left exposed during the test. (c) Sufficient backfill shall be placed around the pipe to prevent excessive movement during the test. (d) The pipes shall be tested in such lengths, up to a maximum length of 800 metres. (e) The ends of the section to be tested shall be blanked off using bolted blank flanges or fused end caps, adequately strutted or anchored to solid undisturbed ground. (f) Blank flanges or end caps shall be fitted with appropriate tappings to enable flushing out and filling of the pipeline and to accommodate the necessary pressure gauges. (g) Testing against a closed valve is not permitted, and these shall be in fully open position during the test. (h) Air valves and hydrants shall be subjected to the Test Pressure and should be inspected whilst the main is under pressure to ensure that they are not leaking. | 1 | item |
| B | FLUSHING: (a) The section to be tested shall be thoroughly flushed with fresh clean water. A flushing velocity of at least 1 metre per second should be maintained. (b) Flushing shall be continued until the Testing Engineer/ Supervisor is satisfied that the section under test has been thoroughly cleaned. | 1 | item |
| C | DISINFECTION: (a) After flushing, the mains shall be filled with chlorinated water, having a minimum chlorine content of 20 mg/litre (20 p.p.m.). This water shall be left standing in the pipeline for at least 24 hours. (b) The chlorinated water shall then be drained off, and shall be treated to dilute the chlorine to a level of 0.5 mg/l before discharge to a sewer or watercourse. (c) The mains shall then be thoroughly flushed again with potable water from the supply, or with water having a minimum chlorine content of 0.5 mg/l provided by the Developer if none is available from the Public Mains. (d) After thorough flushing, a bacteriological test shall be carried out on the main. The test must show that the water in the new mains is in accordance with the Chemical and Bacteriological Water Quality Requirements of the European Communities (Quality of Water Intended for Human Consumption) Regulations (current version, including any amendments or additions thereto). | 1 | item |
| D | SETTING UP THE PRESSURE TEST: (a) The test position shall be located at the lower end of the pipeline profile. (b) The section under test shall be filled with water, ensuring all air has been eliminated from it. The pipe shall be filled slowly to avoid risk of damage due to surge. (c) After filling it shall be left under operating pressure for a period in order to achieve stable conditions. (d) All air vents shall be closed and the system left to stabilise for 2 to 3 hours. The Test Pressure may then be applied. | 1 | item |

(50) SITE SERVICES - WATERMAIN (Cont)

A	PRESSURE TESTING: (a) Pressure shall be applied at a constant and consistent rate by pumping with the Test Pump, until the Test Pressure is achieved. (b) The Test Pressure shall be maintained by additional pumping as required for 30 minutes. (c) The pressure shall then be reduced to 2 bars (30 p.s.i. or 68 ft or 20 metres) by rapid bleeding from the system. (d) Pressure gauge readings shall then be noted as follows: (i) At 2-minute intervals for the first 10 minutes (5 readings) (ii) At 5-minute intervals for the next 30 minutes (4 readings) (iii) At 10-minute intervals for the next 60 minutes (6 readings) (e) After 30 minutes at a pressure of 2 bars, the pressure in a leaktight system will have stabilised at approximately 4 bars (60 p.s.i. approximately), and should not fall away. A test failure will be indicated by a falling pressure. (f) If a drop in pressure occurs, the quantity of water added in order to re-establish the Test Pressure shall be carefully measured. The maximum allowable leakage from the main which has been subjected to the Test Pressure and allowed to stand under pressure for 24 hours shall not exceed 0.1 litres per mm bore of main per 1000m of pipe under test. (g) If the test is not satisfactory the fault shall be found and rectified. All defective pipes, whether cracked, porous, leaking or exhibiting other faults shall be removed and replaced by new pipes. All leaking joints shall be made good. Burning, plugging, stopping or other repairs to porous or faulty pipes will not be permitted.	1	item
B	TESTING OF THERMOPLASTIC PRESSURE PIPELINES: The testing of thermoplastic pressure pipelines shall be carried out in accordance with the procedures in A Guide to testing of water supply pipelines and sewer rising mains, published by WRC.	1	item
C	COMPLETION TEST (FOR STAGE DEVELOPMENTS) (a) Where the water service main system within a development has been tested in stages, a Completion test shall be carried out on the entire system before it can be taken over by the Council. (b) The Test Pressure shall be full static pressure on the system, or the total normal pumping head in the case of pumped systems. The Test Pressure shall be applied for a period of not less than 6 hours or more than 24 hours. The leakage rate shall not exceed 0.11 litres per mm bore of main per 1000m of pipeline per 24 hours.	1	item
D	TEST PRESSURES: The Test Pressure shall be as outlined below for the various types and classes of pipe, unless otherwise specified in the documents or directed by the Test Engineer/Supervisor. Pipelines shall be tested in sections, under an internal water pressure as per details in Engineer's Specification; The Test Pressure for gravity mains is the Rated Pressure or 1.5 times the maximum static head, whichever is greater. For pumping mains the Test Pressure is the Rated Pressure or 1.5 times the maximum working pressure, whichever is greater. The above Test Pressure shall apply at the highest point of the section under test but the Developer shall ensure that no pipe on the pipeline under test is subjected to more than twice the normal working pressure for the class of pipe under test.	1	item
E	Watermains should be tested at 1.5 times the working pressure for one hour in the presence of a member of staff from the waterworks department; details of testing procedure to be discussed on site with Contractor	1	item

(50) SITE SERVICES - WATERMAIN (Cont)

A

All testing (pressure chlorination & bacterial) tests to be in accordance with Local Authorities specification; the Engineer is to inspect the pressure test after the water control meters are installed. All hydrants & valves are to be included in the test

1

item

(50) SITE SERVICES - WATERMAIN (Cont)

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**(50) SITE SERVICES - WATERMAIN
Carried to Summary**

<u>(50) SITE SERVICES - GAS</u>				
<u>SECTIONAL COMPLETION</u>				
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item	
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item	
<u>DRAINAGE/SERVICES - GAS</u>				
General Information				
<u>Information</u>				
C	When pricing the following items the Contractor's attention is drawn to the location of the site. The Contractor should also visit and check the site. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.		note	
D	Any un-authorised excavations below the required level shall be made up with concrete of the same composition as for drain beds at the Contractors own expense; all as per Architects Specification		note	
Builders work in connection with all installation				
<u>Excavation</u>				
Excavating trenches to receive 1nr duct not exceeding 250mm diameter, earthwork support to sides of trenches; include for excavating below ground water level; grading bottoms of excavations; backfilling with imported compacted stone fill; All surplus materials to be disposed of off-site to a licenced waste disposal facility granted by the EPA under Section 40 of the Waste Management Act or by the Local Authority under the Waste Facility Permit Regulations; as per Engineer's Drawing				
E	Average Depth 500 - 1000mm	103	m	

<u>(50) SITE SERVICES - GAS (Cont)</u>			
<u>Extra over excavating trenches irrespective of depth</u>			
Breaking up & Reinstating			
A	Breaking out existing roadway and associated make-up; saw cutting surface; include for reinstating bitmac surfacing and all associated hardcore makeup; comprising 25mm thick AC10 close surface base to Table 2 Column 4 Specification for Roadworks; laid on 40mm thick AC20 dense binder base to Table 2 Column 2 Specification for Roadworks; laid on 80mm thick AC32 dense road base to Table 2 Column 1 Specification for Roadworks; to TII 900 Series; rolled with 10-12.5 tonne roller; laid on 150mm deep clause 804 stone sub-base; laid on 300mm deep clause 6F1 capping layer; including geogrid membranes; include for fair jointing to fair edges; include for breaking out and reinstating all kerbing required; disposal of excavated material off site; all in accordance with the Engineer's Specification	54	m
B	Excavating existing grass and making good to match existing after excavation and drainage runs have been laid	10	m
Around existing services parallel excavations			
C	Foul pipe; parallel excavations	55	m
D	Storm pipe; parallel excavations	55	m
E	Watermain; parallel excavations	55	m
Around existing services crossing excavations			
F	Foul pipe; crossing excavations	3	nr
G	Storm pipe; crossing excavations	3	nr
Disposal			
H	Ground Water	1	item
J	Surface Water	1	item
<u>Sand bed and surround; to Engineer's Specification</u>			
Beds and surrounds			
K	310 x 235mm, to 110mm pipes / ducts	103	m
<u>PVC marker tape "Heptape" or equivalent</u>			
L	Continuous strip laid during trench backfill, 100mm above pipework	103	m

<u>(50) SITE SERVICES - GAS (Cont)</u>				
<u>Base to Gas Tank</u>				
Construction of concrete base to proposed gas tank; base to be 5000mm x 5000mm x 300mm deep concrete; with and including 150mm deep hardcore sub base and 300mm deep capping layer; include for 2 layers of separation membrane; include for 2 layers of A393 mesh; include for long radius bends for both incoming and outgoing gas pipes; include for forming openings in concrete base for incoming and outgoing pipes; include for all excavation, disposal, working space, hardcore, concrete, reinforcement, surface finishes, formwork, etc required to carry out the works; all in accordance with M & E Engineers Specification & Civil Engineers drawing				
A	5000mm x 5000mm x 300mm deep concrete base	1	item	
Mechanical Installations				
<u>Gas pipework as per Engineer's Specification & Gas Suppliers details; complete</u>				
Pipework				
B	Installation only of gas pipework; size: 110mm; pipe to be supplied by Gas Supplier; complete	103	m	
<u>Gas Tank</u>				
C	Contractor to provide attendances to supplier of 1 Tonne Gas Tank; complete	2	nr	
<u>MECHANICAL INSTALLATIONS</u>				
Generally				
<u>General; complete; refer to M&E Drawings, M&E Mechanical Engineering General Specification</u>				
General				
D	Testing and commissioning; all in accordance with Engineers specification documents and drawings	1	Item	
E	Operating and maintenance manuals; all in accordance with Engineers specification documents and drawings	1	Item	
F	Working drawings; all in accordance with Engineers specification documents and drawings	1	Item	
G	Co-ordination drawings; all in accordance with Engineers specification documents and drawings	1	Item	
H	As built drawings; all in accordance with Engineers specification documents and drawings	1	Item	
J	Identification plates, labels and the like; all in accordance with Engineers specification documents and drawings	1	Item	

<u>(50) SITE SERVICES - GAS (Cont)</u>				
A	Builderswork; forming and cutting holes, mortices, chases or the like, providing grounds, lifting, re-fixing and replacing as required existing chequer plates, floor boards or raised access floor panels etc. and amking good, all in accordance with Engineers specification documents and drawings	1	Item	
B	Fire stopping and other associated fire protection works; all in accordance with Engineers specification documents and drawings	1	Item	
Notes				
C	The tendering contractors are referred to ARM 4 supplement 2, Agreed Alternative Rules for the Measurement of Services Installations (Issue 1, 2013), used in the production of this section of the pricing document.		note	
D	The following works are to be priced in accordance with the detailed design; performance specifications and scheme drawing numbers (list included in the Works Requirements) as prepared by Patrick McCaul Consulting Engineers.		note	
E	Builders work in connection with the contract works such as cutting or drilling of holes, forming apertures, chases in walls, floors and ceilings will be carried out by the Works Specialist under the terms of the main contract. The Electrical Specialist shall be responsible for the correct marking out of all attendances, and all other cutting to be performed by the Works Specialist.		note	
<u>ALTERNATIVE RULES FOR THE MEASUREMENT OF MECHANICAL INSTALLATIONS</u>				
MECHANICAL INSTALLATIONS - LPG GAS INSTALLATIONS				
<u>System</u>				
Gas distribution; installation testing and commissioning; A new LPG compound is to be installed and new pipework taken back to maintain the existing gas appliances and a second supply provided to serve the new extension appliances; the contractor shall allow for all pipework, valves; LPG tank and gas meter as detailed; all in strict accordance with the Mechanical Specification Section 50 and Drawing 2860-M-14				
<u>Equipment</u>				
LPG gas tanks; supply and installation; include for all accessories and fittings; all in accordance with the Mechanical Specification				
F	LPG gas tanks	2	nr	

<u>(50) SITE SERVICES - GAS (Cont)</u>				
<u>Accessories associated with primary equipment</u>				
Gas Cock for gas services pipework; include for all accessories; all in strict accordance with the Mechanical Specification				
A	32mm Gas Cock	2	nr	
B	65mm Gas Cock	2	nr	
Lock Shield Valves for gas services pipework; include for all accessories; all in strict accordance with the Mechanical Specification				
C	32mm Lock Shield Valve	2	nr	
D	65mm Lock Shield Valve	2	nr	
Pressure Reducing Valves for gas services pipework; include for all accessories; all in strict accordance with the Mechanical Specification				
E	32mm Pressure Reducing Valves	1	nr	
F	65mm Pressure Reducing Valves	1	nr	
First stage regulator; supply and installation; complete; include for all accessories; all in strict accordance with the Mechanical Specification				
G	First stage regulator	1	nr	
Second stage regulator; supply and installation; complete; include for all accessories; all in strict accordance with the Mechanical Specification				
H	First stage regulator	2	nr	
Gas Meter Cage; supply and installation complete; all in accordance with the Mechanical Specification				
J	Gas Meter Cage	1	nr	
Gas Meter; include for all accessories and fittings; complete; all in accordance with the Mechanical Specification				
K	Gas Meter	1	nr	
<u>Distribution System</u>				
High Density Polyethylene pipework and fittings; supply and installation; complete; Colour: Yellow; include for all fixings and supports; include for all elbows, expansion bellows, unions and tees necessary to complete works; all in strict accordance with the Mechanical Engineers Specification				
L	32mm diameter pipework	1	item	
M	65mm diameter pipework	1	item	

<u>(50) SITE SERVICES - GAS (Cont)</u>				
<u>General</u>				
Testing and commissioning; all in accordance with Engineers Specification				
A	Testing and commissioning	1	item	
Operating and maintenance manuals; all in accordance with Engineers Specification				
B	Operating and maintenance manuals	1	item	
Working drawings; all in accordance with Engineers Specification				
C	Working drawings	1	item	
Co-ordination drawings; all in accordance with Engineers Specification				
D	Co-ordination drawings	1	item	
As built drawings; all in accordance with Engineers Specification				
E	As built drawings	1	item	
Identification plates, labels and the like; all in accordance with Engineers Specification				
F	Identification plates, labels and the like	1	item	

(50) SITE SERVICES - GAS (Cont)

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(50) SITE SERVICES - GAS
Carried to Summary

<u>(50) SITE SERVICES - PROVISION FOR HEATING PIPEWORK TO ASHP</u>			
<u>DRAINAGE/SERVICES - DISTRICT HEATING</u>			
General Information			
<u>Information</u>			
A	When pricing the following items the Contractor's attention is drawn to the location of the site. The Contractor should also visit and check the site. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.		note
B	Any un-authorised excavations below the required level shall be made up with concrete of the same composition as for drain beds at the Contractors own expense; all as per Architects Specification		note
Builders work in connection with all installation			
<u>Excavation</u>			
Excavating trenches to receive 2nr duct not exceeding 250mm diameter, earthwork support to sides of trenches; include for excavating below ground water level; grading bottoms of excavations; backfilling with imported compacted stone fill; All surplus materials to be disposed of off-site to a licenced waste disposal facility granted by the EPA under Section 40 of the Waste Management Act or by the Local Authority under the Waste Facility Permit Regulations; as per Engineer's Drawing			
C	Average depth 500 - 1000mm	20	m
<u>Extra over excavating trenches irrespective of depth</u>			
<u>Disposal</u>			
D	Ground water	1	item
E	Surface water	1	item
<u>Sand bed and surround; to Engineer's Specification</u>			
<u>Beds and Surrounds</u>			
F	525 x 190mm; to 2nr 125mm duct	20	m
PVC marker tape; "Heptape" or equivalent			
G	Continuous strip; laid during trench backfill; 100mm above pipework	20	m
<u>Ductwork</u>			
125mm diameter			
H	Laid in trenches	40	m

<u>(50) SITE SERVICES - PROVISION FOR HEATING PIPEWORK TO ASHP (Cont)</u>				
A	Extra over for easy sweep bends	6	nr	
<u>MECHANICAL INSTALLATIONS</u>				
Generally				
<u>General; complete; refer to M&E Drawings, M&E Mechanical Engineering General Specification</u>				
General				
B	Testing and commissioning; all in accordance with Engineers specification documents and drawings	1	Item	
C	Operating and maintenance manuals; all in accordance with Engineers specification documents and drawings	1	Item	
D	Working drawings; all in accordance with Engineerss specification documents and drawings	1	Item	
E	Co- ordination drawings; all in accordance with Engineers specification documents and drawings	1	Item	
F	As built drawings; all in accordance with Engineers specification documents and drawings	1	Item	
G	Identification plates, labels and the like; all in accordance with Engineers specification documents and drawings	1	Item	
H	Builderswork; forming and cutting holes, mortices, chases or the like, providing grounds, lifting, re-fixing and replacing as required existing chequer plates, floor boards or raised access floor panels etc. and amking good, all in accordance with Engineers specification documents and drawings	1	Item	
J	Fire stopping and other associated fire protection works; all in accordance with Engineers specification documents and drawings	1	Item	

(50) SITE SERVICES - PROVISION FOR HEATING PIPEWORK TO ASHP (Cont)

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**(50) SITE SERVICES - PROVISION FOR HEATING PIPEWORK TO ASHP
Carried to Summary**

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - TEMPORARY POWER DUCT</u>			
<u>SECTIONAL COMPLETION</u>			
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item
<u>SITE SERVICES (MAINLY ELECTRICAL) - TEMPORARY POWER DUCT</u>			
General Information			
<u>Information</u>			
C	When pricing the following items the Contractor's attention is drawn to the location of the site. The Contractor should also visit and check the site. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.		note
D	Any un-authorised excavations below the required level shall be made up with concrete of the same composition as for drain beds at the Contractors own expense; all as per Architects Specification		note
E	The contractor shall also ascertain whether or not there are any E.S.B. cables on the site and arrange for their removal so that it does not delay site progress. All, redundant site services/site services made redundant, for all utilities and services, will be removed as part of the contract.	1	item
Builders work in connection with all installation			
<u>Excavation</u>			
Excavating trenches to receive 1nr duct not exceeding 250mm diameter, earthwork support to sides of trenches; include for excavating below ground water level; grading bottoms of excavations; backfilling with imported hardcore; disposal of surplus soil off site; All surplus materials to be disposed of off-site to a licenced waste disposal facility granted by the EPA under Section 40 of the Waste Management Act or by the Local Authority under the Waste Facility Permit Regulations			
F	Average depth 500 - 1000mm	139	m

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - TEMPORARY POWER DUCT (Cont)</u>			
<u>Extra over excavating trenches irrespective of depth</u>			
Breaking up & Reinstating			
A	Breaking out existing roadway and associated make-up; saw cutting surface; include for reinstating bitmac surfacing and all associated hardcore makeup; comprising 25mm thick AC10 close surface base to Table 2 Column 4 Specification for Roadworks; laid on 40mm thick AC20 dense binder base to Table 2 Column 2 Specification for Roadworks; laid on 80mm thick AC32 dense road base to Table 2 Column 1 Specification for Roadworks; to TII 900 Series; rolled with 10-12.5 tonne roller; laid on 150mm deep clause 804 stone sub-base; laid on 300mm deep clause 6F1 capping layer; including geogrid membranes; include for fair jointing to fair edges; include for breaking out and reinstating all kerbing required; disposal of excavated material off site; all in accordance with the Engineer's Specification	85	m
B	Breaking out footpath; saw cutting surface; include for reinstating surfacing to match existing including Clause 804 sub base material where necessary; fair jointing to fair edges; disposal of excavated material off site; include for replacing associated concrete kerbs; all to satisfaction of Engineers Specification & Drawings	3	m
C	Excavating existing grass and making good to match existing after excavation and drainage runs have been laid	10	m
Around existing services parallel excavations			
D	Foul pipe; parallel excavations	85	m
E	Storm pipe; parallel excavations	85	m
F	Watermain; parallel excavations	85	m
Around existing services crossing excavations			
G	Foul pipe; crossing excavations	3	nr
H	Storm pipe; crossing excavations	3	nr
Disposal			
J	Ground water	1	item
K	Surface water	1	item
<u>Sand bed and surround; to Engineer's Specification</u>			
Beds and Surrounds			
L	325 x 250mm; to 1nr 125mm duct	139	m

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - TEMPORARY POWER DUCT (Cont)</u>					
	PVC Red marker tape; "Heptape" or equivalent				
A	Continuous strip; laid during trench backfill; 100mm above pipework	139	m		
	PVC Yellow marker tape; "Heptape" or equivalent				
B	Continuous strip; laid during trench backfill; 300mm above pipework	139	m		
	<u>Ductwork; uPVC duct; to ESB Specification; Red</u>				
	125mm dia.; include for draw-wire				
C	Laid in trenches	139	m		
	<u>Chambers</u>				
	Draw pit chamber; complete; excavating pits from stripped level 1000x1000x800mm deep internally; dispose of surplus soil; grading bottom; earthwork support; open bottom pit filled with 50mm coarse gravel for drainage; RC3 concrete base on 50mm blinding grade gen 3; Concrete roof slab grade C25 c/w opening for cover and frame; 225mm thick Class B engineering brickwork in english bond; Walls: 1000mm high with 50mm rebate for removable cover; include for openings for ducts; Heavy duty cast iron cover and frame to Engineer's Specification bedded in epoxy mortar; include for step irons; all pvc pipes to fall away from building and all pits should not waterlog; pipes to be buried 750mm below ground level; include for backfilling to sides of chamber where necessary; all in accordance with M & E Engineers Drawing				
D	Average depth not exceeding 1000mm	5	nr		
	<u>Sundries</u>				
E	Allow for sealing all incoming service ductwork to prevent ingress of damp, dirt and vermin	1	item		
F	Allow for clearance between Telecom ducts and ESB ducts and cables over 650 volts; of 300mm vertical clearance at crossings and 600mm lateral clearance in parallel trenches	1	item		
G	Allow for clearance between ESB ducts and cables and other service ducts; 150mm vertical clearance at crossings and 300mm lateral clearance in parallel trenches	1	item		
H	Provide for all necessary attendances on ESB to include liaising with ESB before, during and after installation of electrical services and providing and making available site data for their use	1	item		
J	Provide markings/signage of ESB cables at locations as agreed with Local Engineering Officer and in accordance with ESB Specifications; as per Engineer's Drawing	1	item		
K	Provide all necessary attendances and builders work in association with disconnecting and removing existing underground ESB supply; complete	1	item		

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - TEMPORARY POWER DUCT (Cont)</u>				
Notes				
A	The tendering contractors are referred to ARM 4 supplement 2, Agreed Alternative Rules for the Measurement of Services Installations (Issue 1, 2013), used in the production of this section of the pricing document.		note	
B	The following works are to be priced in accordance with the detailed design; performance specifications and scheme drawing numbers (list included in the Works Requirements) as prepared by Patrick McCaul Consulting Engineers.		note	
C	Builders work in connection with the contract works such as cutting or drilling of holes, forming apertures, chases in walls, floors and ceilings will be carried out by the Works Specialist under the terms of the main contract. The Electrical Specialist shall be responsible for the correct marking out of all attendances, and all other cutting to be performed by the Works Specialist.		note	
<u>ALTERNATIVE RULES FOR THE MEASUREMENT OF ELECTRICAL SERVICES</u>				
<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - LV LINK TO EXISTING SCHOOL</u>				
<u>System</u>				
Temporary LV link to existing outbuilding installation, testing and commissioning; complete; The Electrical contractor shall provide an Temporary LV link between the existing school and existing outbuildings as indicated on the contract drawings; all underground electrical services cables shall be within ducts; separate underground service ducts shall be provided as part of the builders works element; all in accordance with the Electrical Engineers Specification and Drawing 2860-E-13				
D	LV temporary link to existing outbuildings	1	item	
<u>Mains and Sub-mains cables</u>				
Supply and Installation of sub-mains cable from Existing Main Switch board; Sub-mains distribution outside the building shall be via XLPE/LSF/SWA armoured cables laid in underground ducts; cables shall be terminated at both ends; all in strict accordance with the Electrical Specification Section (61) and Drawing 2860-E-13				
E	Submains; Existing Switch board to Existing outbuildings - 3c 25mm2 XLPE/SWA	1	item	

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - TEMPORARY POWER DUCT (Cont)</u>				
<u>General Earthing and Bonding</u>				
General Earthing and Bonding; Design parameters as defined within I.S 10101: 2020 regulations; all in strict accordance with the Electrical Engineers Specification				
A	Generally	1	item	
<u>General</u>				
Testing and commissioning; all in accordance with the Electrical Engineers specification documents and drawings				
B	Testing and commissioning; complete	1	item	
Operating and maintenance manuals; all in accordance with the Electrical Engineers specification documents and drawings				
C	Operating and maintenance manuals; complete	1	nr	
Working drawings; all in accordance with the Electrical Engineers specification documents and drawings				
D	Working drawings; complete	1	item	
Co- ordination drawings; all in accordance with the Electrical Engineers specification documents and drawings				
E	Co- ordination drawings; complete	1	item	
As built drawings; all in accordance with the Electrical Engineers specification documents and drawings				
F	As built drawings; complete	1	item	
Identification plates, labels and the like; all in accordance with the Electrical Engineers specification documents and drawings				
G	Identification plates, labels and the like; complete	1	item	

(60) SITE SERVICES (MAINLY ELECTRICAL) - TEMPORARY POWER DUCT (Cont)

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**(60) SITE SERVICES (MAINLY ELECTRICAL) - TEMPORARY POWER DUCT
Carried to Summary**

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - POWER TO EXTENSION</u>				
<u>SECTIONAL COMPLETION</u>				
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item	
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item	
<u>SITE SERVICES (MAINLY ELECTRICAL) - POWER TO EXTENSION</u>				
General Information				
<u>Information</u>				
C	When pricing the following items the Contractor's attention is drawn to the location of the site. The Contractor should also visit and check the site. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.		note	
D	Any un-authorised excavations below the required level shall be made up with concrete of the same composition as for drain beds at the Contractors own expense; all as per Architects Specification		note	
E	The contractor shall also ascertain whether or not there are any E.S.B. cables on the site and arrange for their removal so that it does not delay site progress. All, redundant site services/site services made redundant, for all utilities and services, will be removed as part of the contract.	1	item	
Builders work in connection with all installation				
<u>Excavation</u>				
Excavating trenches to receive 2nr duct not exceeding 250mm diameter, earthwork support to sides of trenches; include for excavating below ground water level; grading bottoms of excavations; backfilling with imported hardcore; disposal of surplus soil off site; All surplus materials to be disposed of off-site to a licenced waste disposal facility granted by the EPA under Section 40 of the Waste Management Act or by the Local Authority under the Waste Facility Permit Regulations				
F	Average depth 500 - 1000mm	131	m	

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - POWER TO EXTENSION (Cont)</u>			
<u>Extra over excavating trenches irrespective of depth</u>			
Breaking up & Reinstating			
A	Breaking out existing roadway and associated make-up; saw cutting surface; include for reinstating bitmac surfacing and all associated hardcore makeup; comprising 25mm thick AC10 close surface base to Table 2 Column 4 Specification for Roadworks; laid on 40mm thick AC20 dense binder base to Table 2 Column 2 Specification for Roadworks; laid on 80mm thick AC32 dense road base to Table 2 Column 1 Specification for Roadworks; to TII 900 Series; rolled with 10-12.5 tonne roller; laid on 150mm deep clause 804 stone sub-base; laid on 300mm deep clause 6F1 capping layer; including geogrid membranes; include for fair jointing to fair edges; include for breaking out and reinstating all kerbing required; disposal of excavated material off site; all in accordance with the Engineer's Specification	83	m
B	Breaking out footpath; saw cutting surface; include for reinstating surfacing to match existing including Clause 804 sub base material where necessary; fair jointing to fair edges; disposal of excavated material off site; include for replacing associated concrete kerbs; all to satisfaction of Engineers Specification & Drawings	2	m
C	Excavating existing grass and making good to match existing after excavation and drainage runs have been laid	10	m
Around existing services parallel excavations			
D	Foul pipe; parallel excavations	85	m
E	Storm pipe; parallel excavations	85	m
F	Watermain; parallel excavations	85	m
Around existing services crossing excavations			
G	Foul pipe; crossing excavations	3	nr
H	Storm pipe; crossing excavations	3	nr
Disposal			
J	Ground water	1	item
K	Surface water	1	item
<u>Sand bed and surround; to Engineer's Specification</u>			
Beds and Surrounds			
L	575 x 275mm; to 2nr 150mm duct	131	m

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - POWER TO EXTENSION (Cont)</u>					
	PVC Red marker tape; "Heptape" or equivalent				
A	Continuous strip; laid during trench backfill; 100mm above pipework	131	m		
	PVC Yellow marker tape; "Heptape" or equivalent				
B	Continuous strip; laid during trench backfill; 300mm above pipework	131	m		
	<u>Ductwork; uPVC duct; to ESB Specification; Red</u>				
	150mm dia.; include for draw-wire				
C	Laid in trenches	261	m		
	<u>Chambers</u>				
	Draw pit chamber; complete; excavating pits from stripped level 1000x1000x800mm deep internally; dispose of surplus soil; grading bottom; earthwork support; open bottom pit filled with 50mm coarse gravel for drainage; RC3 concrete base on 50mm blinding grade gen 3; Concrete roof slab grade C25 c/w opening for cover and frame; 225mm thick Class B engineering brickwork in english bond; Walls: 1000mm high with 50mm rebate for removable cover; include for openings for ducts; Heavy duty cast iron cover and frame to Engineer's Specification bedded in epoxy mortar; include for step irons; all pvc pipes to fall away from building and all pits should not waterlog; pipes to be buried 750mm below ground level; include for backfilling to sides of chamber where necessary; all in accordance with M & E Engineers Drawing				
D	Average depth not exceeding 1000mm	7	nr		
	<u>Sundries</u>				
E	Allow for sealing all incoming service ductwork to prevent ingress of damp, dirt and vermin	1	item		
F	Allow for clearance between Telecom ducts and ESB ducts and cables over 650 volts; of 300mm vertical clearance at crossings and 600mm lateral clearance in parallel trenches	1	item		
G	Allow for clearance between ESB ducts and cables and other service ducts; 150mm vertical clearance at crossings and 300mm lateral clearance in parallel trenches	1	item		
H	Provide for all necessary attendances on ESB to include liaising with ESB before, during and after installation of electrical services and providing and making available site data for their use	1	item		
J	Provide markings/signage of ESB cables at locations as agreed with Local Engineering Officer and in accordance with ESB Specifications; as per Engineer's Drawing	1	item		
K	Provide all necessary attendances and builders work in association with disconnecting and removing existing underground ESB supply; complete	1	item		

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - POWER TO EXTENSION (Cont)</u>			
Notes			
A	The tendering contractors are referred to ARM 4 supplement 2, Agreed Alternative Rules for the Measurement of Services Installations (Issue 1, 2013), used in the production of this section of the pricing document.	note	
B	The following works are to be priced in accordance with the detailed design; performance specifications and scheme drawing numbers (list included in the Works Requirements) as prepared by Patrick McCaul Consulting Engineers.	note	
C	Builders work in connection with the contract works such as cutting or drilling of holes, forming apertures, chases in walls, floors and ceilings will be carried out by the Works Specialist under the terms of the main contract. The Electrical Specialist shall be responsible for the correct marking out of all attendances, and all other cutting to be performed by the Works Specialist.	note	
<u>ALTERNATIVE RULES FOR THE MEASUREMENT OF ELECTRICAL SERVICES</u>			
<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - LV LINK TO EXISTING SCHOOL</u>			
<u>System</u>			
LV link to existing building installation, testing and commissioning; complete; The Electrical contractor shall provide an LV link between the existing school and the new extension as indicated on the contract drawings; all underground electrical services cables shall be within ducts; separate underground service ducts shall be provided as part of the builders works element; all in accordance with the Electrical Engineers Specification and Drawing 2860-E-13, 2860-E-15			
D	LV link to existing school	1	item
<u>Mains and Sub-mains cables</u>			
Supply and Installation of sub-mains cable from Existing Main switch board ; Sub-mains distribution outside the building shall be via XLPE/LSF/SWA armoured cables laid in underground ducts; cables shall be terminated at both ends; all in strict accordance with the Electrical Specification Section (61) and Drawing 2860-E-15			
E	Submains; SDB-01 to Existing DB - 4c 90mm2 XLPE/SWA + 50mm2 LSF CPC	1	item
<u>General Earthing and Bonding</u>			
General Earthing and Bonding; Design parameters as defined within I.S 10101: 2020 regulations; all in strict accordance with the Electrical Engineers Specification			
F	Generally	1	item

(60) SITE SERVICES (MAINLY ELECTRICAL) - POWER TO EXTENSION (Cont)

General

Testing and commissioning; all in accordance with the Electrical Engineers specification documents and drawings

A Testing and commissioning; complete

1

item

Operating and maintenance manuals; all in accordance with the Electrical Engineers specification documents and drawings

B Operating and maintenance manuals; complete

1

nr

Working drawings; all in accordance with the Electrical Engineers specification documents and drawings

C Working drawings; complete

1

item

Co- ordination drawings; all in accordance with the Electrical Engineers specification documents and drawings

D Co- ordination drawings; complete

1

item

As built drawings; all in accordance with the Electrical Engineers specification documents and drawings

E As built drawings; complete

1

item

Identification plates, labels and the like; all in accordance with the Electrical Engineers specification documents and drawings

F Identification plates, labels and the like; complete

1

item

(60) SITE SERVICES (MAINLY ELECTRICAL) - POWER TO EXTENSION (Cont)

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**(60) SITE SERVICES (MAINLY ELECTRICAL) - POWER TO EXTENSION
Carried to Summary**

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - SITE LIGHTING & CCTV</u>			
<u>SECTIONAL COMPLETION</u>			
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item
<u>SITE LIGHTING SERVICES</u>			
General Information			
<u>Information</u>			
C	When pricing the following items the Contractor's attention is drawn to the location of the site. The Contractor should also visit and check the site. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.		note
D	Any un-authorised excavations below the required level shall be made up with concrete of the same composition as for drain beds at the Contractors own expense; all as per Architects Specification		note
E	Please refer to M&E Engineer's Data Sheets for information on Equivalent Products		note
Builders work in connection with all installation			
<u>Excavation</u>			
Excavating trenches to receive 1nr duct not exceeding 250mm diameter, earthwork support to sides of trenches; include for excavating below ground water level; grading bottoms of excavations; backfilling with imported hardcore; disposal of surplus soil off site; All surplus materials to be disposed of off-site to a licenced waste disposal facility granted by the EPA under Section 40 of the Waste Management Act or by the Local Authority under the Waste Facility Permit Regulations			
F	Average depth 500 - 1000mm	283	m
	Disposal		
G	Ground water	1	item
H	Surface water	1	item

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - SITE LIGHTING & CCTV (Cont)</u>			
<u>Sand bed and surround; to Engineer's Specification</u>			
Beds and Surrounds			
A	350 x 275 mm; to 1nr 150mm duct	283	m
PVC Red marker tape; "Heptape" or equivalent			
B	Continuous strip; laid during trench backfill; 100mm above pipework	283	m
PVC Yellow marker tape; "Heptape" or equivalent			
C	Continuous strip; laid during trench backfill; 300mm above pipework	283	m
<u>Ductwork; uPVC duct; to ESB Specification; Red</u>			
150mm dia.; include for draw-wire			
D	Laid in trenches	283	m
E	<u>Extra over</u> for easy sweep bends complete with puddle flanges; set in concrete	20	nr
<u>Lamp standard bases complete; excavation not exceeding 2000mm deep; grading bottoms; earthwork support; disposal of surplus excavated soil by removal off site; including alignment with wedges to Engineer's approval</u>			
Lamp standard bases			
F	650 x 650 x 1000mm deep Grade C28/35 reinforced concrete; including 2nr 100mm ducts from chamber to column in line with cable entry; concrete base and surround; backfilling with hardcore to top of trench; all as per Engineer's Specification and Drawing	22	nr
<u>Chambers</u>			
Draw pit chamber; complete; excavating pits from stripped level 1000x1000x800mm deep internally; dispose of surplus soil; grading bottom; earthwork support; open bottom pit filled with 50mm coarse gravel for drainage; RC3 concrete base on 50mm blinding grade gen 3; Concrete roof slab grade C25 c/w opening for cover and frame; 225mm thick Class B engineering brickwork in english bond; Walls: 1000mm high with 50mm rebate for removable cover; include for openings for ducts; Heavy duty cast iron cover and frame to Engineer's Specification bedded in epoxy mortar; include for step irons; all pvc pipes to fall away from building and all pits should not waterlog; pipes to be buried 750mm below ground level; include for backfilling to sides of chamber where necessary; all in accordance with M & E Engineers Drawing			
G	Average depth not exceeding 1000mm	19	nr

(60) SITE SERVICES (MAINLY ELECTRICAL) - SITE LIGHTING & CCTV (Cont)Site Lighting Mini Pillars

Site Lighting Mini Pillar to Engineer's & ESB Specification; Luci pillars will be manufactured in glass reinforced plastic to fully comply with Electricity Supply Industry Specification ESI 37 and IS EN 60439-5. The same requirements are to be met as for distribution boards in terms of capacity, busbars etc.. The enclosure will have a minimum protection rating of IP64. Each mini-pillar will include: Quick-acting barlock and high security padlock. Set of isolator operating and locking off tools. Spare fuse tray with spare fuses. A 65 Watt switched, fused anti-condensation heater. This heater should incorporate thermostatic control for on and off control. Purpose-made base unit for cable entry. All minipillars will be painted against rusting (stove glass enamel). Colour to match standard manufacturers finish. After final painting treat interior with a cork based paint to reduce level of condensation by providing a thermal barrier between enclosure metalwork and internal air; include for associated concrete base; complete; disposal of excavated material off-site; level and compacting bottom of excavation; earthwork support; all to Engineer's Specification and Drawings

- A Site Lighting Mini Pillar; include for cover and frame

1

nr

Site Lighting Mini Pillar Vault and VC2 Cover

Site Lighting Mini Pillar Vault and VC2 Cover; complete; with ESB Networks Approved Pre-Fabricated and Pre-cast minipillar caults and vault cover; Excavating pits from finished road level; making good surrounding areas where necessary; disposal of excavated material off-site; level and compacting bottom of excavation; earthwork support; 150mm thick 15N concrete base and surround; cover and frame to suit; include openings for ducts; step irons; cable bearers and brackets; all in accordance to ESB Network Standards

- B 850 x 850 x 900mm deep; include for cover and frame

1

nr

Sundries

- C Allow for sealing all incoming service ductwork to prevent ingress of damp, dirt and vermin

1

item

- D Allow for clearance between Telecom ducts and ESB ducts and cables over 650 volts; of 300mm vertical clearance at crossings and 600mm lateral clearance in parallel trenches

1

item

- E Allow for clearance between ESB ducts and cables and other service ducts; 150mm vertical clearance at crossings and 300mm lateral clearance in parallel trenches

1

item

- F Provide for all necessary attendances on ESB to include liaising with ESB before, during and after installation of electrical services and providing and making available site data for their use

1

item

- G The installation shall comply with ETCI Regulations

1

item

- H The Contractor shall be responsible for the co-ordination of services

1

item

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - SITE LIGHTING & CCTV (Cont)</u>				
A	The Contractor shall provide a Completion Certificate for the Public Lighting System	1	item	
B	All light columns to have a permanent label installed on the column. Labels to be agreed with ESB prior to installation	1	item	
Notes				
C	The tendering contractors are referred to ARM 4 supplement 2, Agreed Alternative Rules for the Measurement of Services Installations (Issue 1, 2013), used in the production of this section of the pricing document.		note	
D	The following works are to be priced in accordance with the detailed design; performance specifications and scheme drawing numbers (list included in the Works Requirements) as prepared by Patrick McCaul Consulting Engineers.		note	
E	Builders work in connection with the contract works such as cutting or drilling of holes, forming apertures, chases in walls, floors and ceilings will be carried out by the Works Specialist under the terms of the main contract. The Electrical Specialist shall be responsible for the correct marking out of all attendances, and all other cutting to be performed by the Works Specialist.		note	
<u>ALTERNATIVE RULES FOR THE MEASUREMENT OF ELECTRICAL SERVICES</u>				
<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - SITE LIGHTING</u>				
<u>System</u>				
Site Lighting Services installation, testing and commissioning; complete; The school external amenity lighting comprises lighting of the car park, school footpaths/walkways and building facade lighting. All external/amenity lighting shall be wired from a site lighting distribution board located in the main switchroom; All lighting columns shall be wired in XLPE/SWA cables; all in accordance with the Electrical General Specifications, Project Particular Specification Section 63 and Drawings 2860-E-13, 2860-E-14				
F	Site Lighting Services	1	item	

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - SITE LIGHTING & CCTV (Cont)</u>			
<u>Equipment</u>			
Mini Pillars; supply and installation; complete; Stainless Steel; Rated for IP67; Vandal resistant; Double doors; Lockable; Dark Green in finish; Incorporate plinth and bottom entry/exit section for cabling; Louvre Filter Kit to prevent ingress of dust; Incorporate LED light and internal light switch; Gland plate to ensure enclosure is watertight - Cable entry/exit; c/w integral distribution board; include for all PVC cables, bush bar system, TP&N's, MCCB's, MCB's, RCBO's; HOA switches, CTU's, open/closed contactors; remote keyswitches, timeclocks, metering, surge protection, earth terminal bar; Labels: Traffolyte, black on white, screw on type; all in accordance with the Electrical Specification			
A	Mini Pillar c/w Integral distribution board (Ref: MP1)	1	nr
<u>Fittings</u>			
LED Column Mounted Luminaire c/w lamps and mounting kits/ fixing brackets; supply and installation (including wiring); complete; Final Connections: 3c 50/0.25mm2 flex; Mounting: Post top; include for all internal wiring and fittings; complete; all in accordance with the Electrical Particular Specification Section (63) and Equipment Schedule			
B	Luminaire Ref: EX-3; 1nr Street light LED luminaire; Watts: 35.0W c/w lamps and single bracket	14	nr
C	Luminaire Ref: EX-3; 2nr Street light LED luminaire; Watts: 35.0W c/w lamps and double bracket	5	nr
D	Luminaire Ref: EX-4; 1nr Street light LED luminaire; Watts: 47.0W c/w lamps and single bracket	15	nr
Lighting Column; supply and installation (including wiring) complete; Column: Tubular galvanised steel-hinged columns with gear door; Column Height: 6m; Column Finish: hot dipped galvanised inside and out, painted/powder coated grey RAL 7043; include for all internal wiring and fittings; complete; all in accordance with the Electrical Particular Specification Section (63) and Equipment Schedule			
E	Lighting Columns	34	nr
<u>Accessories associated with terminal equipment</u>			
Isolator Switch; supply and installation (including wiring); complete; surface mounting; include for all accessories and fixings; c/w galvanised steel back boxes; include for all accessories and fixings; all in strict accordance with the Electrical Specification and Drawing 2860-E-15			
F	TPN Isolator 160AMP	1	nr

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - SITE LIGHTING & CCTV (Cont)</u>			
<u>Mains and Sub-mains cables</u>			
Supply and Installation of sub-mains cable from Distribution Board SDB-01; Sub-mains distribution outside the building shall be via XLPE/SWA/LSF armoured cables laid in underground ducts; cables shall be terminated at both ends; Glands for PVC/SWA/PVC or XLPE/SWA/PVC cables shall be plain brass slip-on earth tags; all in strict accordance with the Electrical Engineers Specification Section and Drawing 2860-E-15			
A	Submains; SDB-01 to SDB/Mini Pillar MP1; 1 x 5c 35sq.mm XLPE/SWA/LSF	1	item
<u>Final Circuits (including all points terminations)</u>			
Final Circuits; cable installation (including wiring), Complete; Final circuits shall be fed from local sub-distribution boards; Circuits shall be wired with insulated 3c 6mm ² mm ² XPfE/LSf/SWA/LSf + 6mm CPC cables; standards to Engineers Specification; cables laid in under ground ducts; all in strict accordance with the Electrical Engineers Specification Section and Drawing 2860-E-15			
<u>Final Circuits - SDB-Site Lighting</u>			
B	Site Lighting; Single Phase; 6Amp MCB	1	nr
C	Site Lighting; Single Phase; 20Amp RCBO	8	nr
<u>General Earthing and Bonding</u>			
General Earthing and Bonding; Design parameters as defined within I.S 10101: 2020 regulations; all in strict accordance with the Electrical Engineers Specification			
D	Generally	1	item
<u>General</u>			
Testing and commissioning; all in accordance with the Electrical Engineers specification documents and drawings			
E	Testing and commissioning; complete	1	item
Operating and maintenance manuals; all in accordance with the Electrical Engineers specification documents and drawings			
F	Operating and maintenance manuals; complete	1	nr
Working drawings; all in accordance with the Electrical Engineers specification documents and drawings			
G	Working drawings; complete	1	item

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - SITE LIGHTING & CCTV (Cont)</u>			
Co- ordination drawings; all in accordance with the Electrical Engineers specification documents and drawings			
A	Co- ordination drawings; complete	1	item
As built drawings; all in accordance with the Electrical Engineers specification documents and drawings			
B	As built drawings; complete	1	item
Identification plates, labels and the like; all in accordance with the Electrical Engineers specification documents and drawings			
C	Identification plates, labels and the like; complete	1	item
<u>(60) SITEWORKS (MAINLY ELECTRICAL) - CCTV</u>			
<u>System</u>			
Closed Circuit Television System installation, testing and commissioning; complete; The electrical contractor shall employ a NSIA Approved Contractor to supply and install a complete new IP CCTV System within the new school extension linked back to the existing monitors located in the Principals Office; CAT 6A cabling shall be supplied to all CCTV camera locations; all in strict accordance with the Electrical General Specifications, Project Particular Specification Section (65) and Drawings 2860-E-13, 2860-E-14			
D	CCTV System	1	item
<u>Fittings</u>			
CCTV Fittings; supply and installation supply and installation (including wiring); including all necessary accessories;all in strict accordance with the Electrical Specifications Section (65)			
E	External IP Dome Cameras	2	nr
CCTV Column; supply and installation (including wiring) complete; Column: Tubular galvanised steel-hinged columns with gear door; Column Height: 6m; Column Finish: hot dipped galvanised inside and out, painted/powder coated grey RAL 7043; include for all internal wiring and fittings; complete; all in accordance with the Electrical Particular Specification Section (63) and Equipment Schedule			
F	CCTV Columns	2	nr

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - SITE LIGHTING & CCTV (Cont)</u>			
<u>General Earthing and Bonding</u>			
General Earthing and bonding in accordance with the - National Rules for Electrical Installation I.S. 10101 Current edition; all in accordance with the Electrical Specification			
A	General Earthing & Bonding; complete	1	item
<u>General</u>			
Testing and commissioning; all in accordance with the Electrical Engineers Specification Documents			
B	Testing and commissioning; complete	1	item
Operating and maintenance manuals; all in accordance with the Electrical Engineers Specification Documents			
C	Operating and maintenance manuals; complete	1	item
Working drawings; all in accordance with the Electrical Engineers Specification Documents			
D	Working drawings; complete	1	item
Co- ordination drawings; all in accordance with the Electrical Engineers Specification Documents			
E	Co- ordination drawings;complete	1	item
As built drawings; all in accordance with the Electrical Engineers Specification Documents			
F	As built drawings; complete	1	item
Identification plates, labels and the like; all in accordance with the Electrical Engineers Specification Documents			
G	Identification plates, labels and the like; complete	1	item

(60) SITE SERVICES (MAINLY ELECTRICAL) - SITE LIGHTING & CCTV (Cont)

COLLECTION

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**(60) SITE SERVICES (MAINLY ELECTRICAL) - SITE LIGHTING & CCTV
Carried to Summary**

(60) SITE SERVICES (MAINLY ELECTRICAL) - PROVISION FOR POWER & DATA TO ASHP			
<u>SITE SERVICES (MAINLY ELECTRICAL) - POWER & DATA TO ASHP</u>			
General Information			
<u>Information</u>			
A	When pricing the following items the Contractor's attention is drawn to the location of the site. The Contractor should also visit and check the site. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.		note
B	Any un-authorised excavations below the required level shall be made up with concrete of the same composition as for drain beds at the Contractors own expense; all as per Architects Specification		note
C	The contractor shall also ascertain whether or not there are any E.S.B. cables on the site and arrange for their removal so that it does not delay site progress. All, redundant site services/site services made redundant, for all utilities and services, will be removed as part of the contract.	1	item
Builders work in connection with all installation			
<u>Excavation</u>			
Excavating trenches to receive 2nr ducts not exceeding 250mm diameter, earthwork support to sides of trenches; include for excavating below ground water level; grading bottoms of excavations; backfilling with imported hardcore; disposal of surplus soil off site; All surplus materials to be disposed of off-site to a licenced waste disposal facility granted by the EPA under Section 40 of the Waste Management Act or by the Local Authority under the Waste Facility Permit Regulations			
D	Average depth 500 - 1000mm	20	m
<u>Extra over excavating trenches irrespective of depth</u>			
<u>Disposal</u>			
E	Ground water	1	item
F	Surface water	1	item
<u>Plain in-situ concrete bed and surround; minimum 150mm bed; Class 16/20; leanmix concrete backfill; as per Engineer's Drawing</u>			
<u>Beds and Surrounds</u>			
G	495 x 235mm; to 2nr 110mm duct	20	m
PVC Red marker tape; "Heptape" or equivalent			
H	Continuous strip; laid during trench backfill; 100mm above pipework	20	m

(60) SITE SERVICES (MAINLY ELECTRICAL) - PROVISION FOR POWER & DATA TO ASHP (Cont)			
	PVC Yellow marker tape; "Heptape" or equivalent		
A	Continuous strip; laid during trench backfill; 300mm above pipework	20	m
	<u>Ductwork; Eircom Duct</u>		
	110mm dia.; include for draw-wire		
B	Laid in trenches	40	m
C	<u>Extra over</u> for 90 degree bends	6	nr
	<u>Chambers</u>		
	Draw pit chamber; complete; excavating pits from stripped level 1000x1000x800mm deep internally; dispose of surplus soil; grading bottom; earthwork support; open bottom pit filled with 50mm coarse gravel for drainage; RC3 concrete base on 50mm blinding grade gen 3; Concrete roof slab grade C25 c/w opening for cover and frame; 225mm thick Class B engineering brickwork in english bond; Walls: 1000mm high with 50mm rebate for removable cover; include for openings for ducts; Heavy duty cast iron cover and frame to Engineer's Specification bedded in epoxy mortar; include for step irons; all pvc pipes to fall away from building and all pits should not waterlog; pipes to be buried 750mm below ground level; include for backfilling to sides of chamber where necessary; all in accordance with M & E Engineers Drawing		
D	Average depth not exceeding 1000mm	3	nr
	<u>Sundries</u>		
E	Allow for sealing all incoming service ductwork to prevent ingress of damp, dirt and vermin	1	item
F	Allow for clearance between Telecom ducts and ESB ducts and cables over 650 volts; of 300mm vertical clearance at crossings and 600mm lateral clearance in parallel trenches	1	item
G	Allow for clearance between ESB ducts and cables and other service ducts; 150mm vertical clearance at crossings and 300mm lateral clearance in parallel trenches	1	item
H	Provide for all necessary attendances on ESB to include liaising with ESB before, during and after installation of electrical services and providing and making available site data for their use	1	item
J	Provide markings/signage of ESB cables at locations as agreed with Local Engineering Officer and in accordance with ESB Specifications; as per Engineer's Drawing	1	item
K	Provide all necessary attendances and builders work in association with disconnecting and removing existing underground ESB supply; complete	1	item

(60) SITE SERVICES (MAINLY ELECTRICAL) - PROVISION FOR POWER & DATA TO ASHP (Cont)

COLLECTION

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(60) SITE SERVICES (MAINLY ELECTRICAL) - PROVISION FOR POWER & DATA TO ASHP
Carried to Summary

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - POWER TO PETROL INTERCEPTOR</u>			
<u>SECTIONAL COMPLETION</u>			
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item
<u>SITE SERVICES (MAINLY ELECTRICAL) - POWER TO PETROL INTERCEPTOR</u>			
General Information			
<u>Information</u>			
C	When pricing the following items the Contractor's attention is drawn to the location of the site. The Contractor should also visit and check the site. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.		note
D	Any un-authorised excavations below the required level shall be made up with concrete of the same composition as for drain beds at the Contractors own expense; all as per Architects Specification		note
E	The contractor shall also ascertain whether or not there are any E.S.B. cables on the site and arrange for their removal so that it does not delay site progress. All, redundant site services/site services made redundant, for all utilities and services, will be removed as part of the contract.	1	item
Builders work in connection with all installation			
<u>Excavation</u>			
Excavating trenches to receive 2nr ducts not exceeding 250mm diameter, earthwork support to sides of trenches; include for excavating below ground water level; grading bottoms of excavations; backfilling with imported hardcore; disposal of surplus soil off site; All surplus materials to be disposed of off-site to a licenced waste disposal facility granted by the EPA under Section 40 of the Waste Management Act or by the Local Authority under the Waste Facility Permit Regulations			
F	Average depth 500 - 1000mm	13	m
<u>Extra over excavating trenches irrespective of depth</u>			
<u>Disposal</u>			
G	Ground water	1	item

(60) SITE SERVICES (MAINLY ELECTRICAL) - POWER TO PETROL INTERCEPTOR (Cont)			
A	Surface water <u>Plain in-situ concrete bed and surround; minimum 150mm bed; Class 16/20; leanmix concrete backfill; as per Engineer's Drawing</u> Beds and Surrounds	1	item
B	575 x 275mm; to 2nr 150mm duct PVC Red marker tape; "Heptape" or equivalent	13	m
C	Continuous strip; laid during trench backfill; 100mm above pipework PVC Yellow marker tape; "Heptape" or equivalent	13	m
D	Continuous strip; laid during trench backfill; 300mm above pipework <u>Ductwork; uPVC duct; to ESB Specifiication; Red</u> 150mm dia.; include for draw-wire	13	m
E	Laid in trenches <u>Chambers</u> Draw pit chamber; complete; excavating pits from stripped level 1000x1000x800mm deep internally; dispose of surplus soil; grading bottom; earthwork support; open bottom pit filled with 50mm course gravel for drainage; RC3 concrete base on 50mm blinding grade gen 3; Concrete roof slab grade C25 c/w opening for cover and frame; 225mm thick Class B engineering brickwork in english bond; Walls: 1000mm high with 50mm rebate for removable cover; include for openings for ducts; Heavy duty cast iron cover and frame to Engineer's Specification bedded in epoxy mortar; include for step irons; all pvc pipes to fall away from building and all pits should not waterlog; pipes to be buried 750mm below ground level; include for backfilling to sides of chamber where necessary; all in accordance with M & E Engineers Drawing	26	m
F	Average depth not exceeding 1000mm Sundries	1	nr
G	Allow for sealing all incoming service ductwork to prevent ingress of damp, dirt and vermin	1	item
H	Allow for clearance between Telecom ducts and ESB ducts and cables over 650 volts; of 300mm vertical clearance at crossings and 600mm lateral clearance in parallel trenches	1	item
J	Allow for clearance between ESB ducts and cables and other service ducts; 150mm vertical clearance at crossings and 300mm lateral clearance in parallel trenches	1	item

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - POWER TO PETROL INTERCEPTOR (Cont)</u>			
A	Provide for all necessary attendances on ESB to include liaising with ESB before, during and after installation of electrical services and providing and making available site data for their use	1	item
B	Provide markings/signage of ESB cables at locations as agreed with Local Engineering Officer and in accordance with ESB Specifications; as per Engineer's Drawing	1	item
C	Provide all necessary attendances and builders work in association with disconnecting and removing existing underground ESB supply; complete	1	item
Notes			
D	The tendering contractors are referred to ARM 4 supplement 2, Agreed Alternative Rules for the Measurement of Services Installations (Issue 1, 2013), used in the production of this section of the pricing document.		note
E	The following works are to be priced in accordance with the detailed design; performance specifications and scheme drawing numbers (list included in the Works Requirements) as prepared by Patrick McCaul Consulting Engineers.		note
F	Builders work in connection with the contract works such as cutting or drilling of holes, forming apertures, chases in walls, floors and ceilings will be carried out by the Works Specialist under the terms of the main contract. The Electrical Specialist shall be responsible for the correct marking out of all attendances, and all other cutting to be performed by the Works Specialist.		note
<u>ALTERNATIVE RULES FOR THE MEASUREMENT OF ELECTRICAL SERVICES</u>			
<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - POWER TO PETROL INTERCEPTOR</u>			
<u>System</u>			
Power to Petrol Interceptor installation, testing and commissioning; complete; The electrical contractor shall provide all wiring and power supplies associated with the oil/petrol interceptor as detailed on the drawings. The external tank shall be located remote from the building and the electrical contractor shall be required to provide control wiring from this external tank location to the oil/petrol interceptor control panel in the plant room; all in accordance with the Electrical Engineers Specification and Drawing 2860-E-14			
G	Petrol Interceptor Power Installation	1	item

(60) SITE SERVICES (MAINLY ELECTRICAL) - POWER TO PETROL INTERCEPTOR (Cont)			
<u>General Earthing and Bonding</u>			
General Earthing and Bonding; Design parameters as defined within I.S 10101: 2020 regulations; all in strict accordance with the Electrical Engineers Specification			
A	Generally	1	item
<u>General</u>			
Testing and commissioning; all in accordance with the Electrical Engineers specification documents and drawings			
B	Testing and commissioning; complete	1	item
Operating and maintenance manuals; all in accordance with the Electrical Engineers specification documents and drawings			
C	Operating and maintenance manuals; complete	1	nr
Working drawings; all in accordance with the Electrical Engineers specification documents and drawings			
D	Working drawings; complete	1	item
Co- ordination drawings; all in accordance with the Electrical Engineers specification documents and drawings			
E	Co- ordination drawings; complete	1	item
As built drawings; all in accordance with the Electrical Engineers specification documents and drawings			
F	As built drawings; complete	1	item
Identification plates, labels and the like; all in accordance with the Electrical Engineers specification documents and drawings			
G	Identification plates, labels and the like; complete	1	item

(60) SITE SERVICES (MAINLY ELECTRICAL) - POWER TO PETROL INTERCEPTOR (Cont)				
COLLECTION Page No. Siteworks/158 Page No. Siteworks/159 Page No. Siteworks/160 Page No. Siteworks/161 (60) SITE SERVICES (MAINLY ELECTRICAL) - POWER TO PETROL INTERCEPTOR Carried to Summary				

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - POWER TO EV</u>			
<u>SECTIONAL COMPLETION</u>			
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item
<u>SITE SERVICES (MAINLY ELECTRICAL) - EV</u>			
General Information			
<u>Information</u>			
C	When pricing the following items the Contractor's attention is drawn to the location of the site. The Contractor should also visit and check the site. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.		Note
D	Any un-authorised excavations below the required level shall be made up with concrete of the same composition as for drain beds at the Contractors own expense; all as per Architects Specification		Note
E	The contractor shall also ascertain whether or not there are any E.S.B. cables on the site and arrange for their removal so that it does not delay site progress. All, redundant site services/site services made redundant, for all utilities and services, will be removed as part of the contract.	1	item
Builders work in connection with all installation			
<u>Excavation</u>			
Excavating trenches to receive 2nr duct not exceeding 250mm diameter, earthwork support to sides of trenches; include for excavating below ground water level; grading bottoms of excavations; backfilling with imported hardcore; disposal of surplus soil off site; All surplus materials to be disposed of off-site to a licenced waste disposal facility granted by the EPA under Section 40 of the Waste Management Act or by the Local Authority under the Waste Facility Permit Regulations			
F	Average depth 500 - 1000mm	139	m
Disposal			
G	Ground water	1	item
H	Surface water	1	item

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - POWER TO EV (Cont)</u>			
<u>Plain in-situ concrete bed and surround; minimum 150mm bed; Class 16/20; leanmix concrete backfill; as per Engineer's Drawing</u>			
Beds and Surrounds			
A	675 x 375mm; to 1nr 150mm duct & 1nr 250mm duct	139	m
PVC Red marker tape; "Heptape" or equivalent			
B	Continuous strip; laid during trench backfill; 100mm above pipework	139	m
PVC Yellow marker tape; "Heptape" or equivalent			
C	Continuous strip; laid during trench backfill; 300mm above pipework	139	m
<u>Ductwork; uPVC duct; to ESB Specification; Red</u>			
150mm dia.; include for draw-wire			
D	Laid in trenches	139	m
<u>Ductwork; uPVC duct; to ESB Specification; Red</u>			
250mm dia.; include for draw-wire			
E	Laid in trenches	139	m
<u>EV Luci Pillars</u>			
EV Luci Pillar to Engineer's & ESB Specification; Luci pillars will be manufactured in glass reinforced plastic to fully comply with Electricity Supply Industry Specification ESI 37 and IS EN 60439-5. The same requirements are to be met as for distribution boards in terms of capacity, busbars etc.. The enclosure will have a minimum protection rating of IP64. Each mini-pillar will include: Quick-acting barlock and high security padlock. Set of isolator operating and locking off tools. Spare fuse tray with spare fuses. A 65 Watt switched, fused anti-condensation heater. This heater should incorporate thermostatic control for on and off control. Purpose-made base unit for cable entry. All minipillars will be painted against rusting (stove glass enamel). Colour to match standard manufacturers finish. After final painting treat interior with a cork based paint to reduce level of condensation by providing a thermal barrier between enclosure metalwork and internal air; include for associated concrete base; complete; disposal of excavated material off-site; level and compacting bottom of excavation; earthwork support; all to Engineer's Specification and Drawings			
F	EV Luci Pillar; include for cover and frame	1	nr

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - POWER TO EV (Cont)</u>				
<u>EV Luci Pillar Vault and VC2 Cover</u>				
EV Luci Pillar Vault and VC2 Cover; complete; with ESB Networks Approved Pre-Fabricated and Pre-cast minipillar caults and vault cover; Excavating pits from finished road level; making good surrounding areas where necessary; disposal of excavated material off-site; level and compacting bottom of excavation; earthwork support; 150mm thick 15N concrete base and surround; cover and frame to suit; include openings for ducts; step irons; cable bearers and brackets; all in accordance to ESB Network Standards				
A	850 x 850 x 900mm deep; include for cover and frame	1	nr	
<u>Chambers</u>				
Draw pit chamber; complete; excavating pits from stripped level 1000x1000x800mm deep internally; dispose of surplus soil; grading bottom; earthwork support; open bottom pit filled with 50mm coarse gravel for drainage; RC3 concrete base on 50mm blinding grade gen 3; Concrete roof slab grade C25 c/w opening for cover and frame; 225mm thick Class B engineering brickwork in english bond; Walls: 1000mm high with 50mm rebate for removable cover; include for openings for ducts; Heavy duty cast iron cover and frame to Engineer's Specification bedded in epoxy mortar; include for step irons; all pvc pipes to fall away from building and all pits should not waterlog; pipes to be buried 750mm below ground level; include for backfilling to sides of chamber where necessary; all in accordance with M & E Engineers Drawing				
B	Average depth not exceeding 1000mm	11	nr	
<u>Sundries</u>				
C	Allow for sealing all incoming service ductwork to prevent ingress of damp, dirt and vermin	1	item	
D	Allow for clearance between Telecom ducts and ESB ducts and cables over 650 volts; of 300mm vertical clearance at crossings and 600mm lateral clearance in parallel trenches	1	item	
E	Allow for clearance between ESB ducts and cables and other service ducts; 150mm vertical clearance at crossings and 300mm lateral clearance in parallel trenches	1	item	
F	Provide for all necessary attendances on ESB to include liaising with ESB before, during and after installation of electrical services and providing and making available site data for their use	1	item	
G	Provide markings/signage of ESB cables at locations as agreed with Local Engineering Officer and in accordance with ESB Specifications; as per Engineer's Drawing	1	item	
H	Provide all necessary attendances and builders work in association with disconnecting and removing existing underground ESB supply; complete	1	item	

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - POWER TO EV (Cont)</u>				
Notes				
A	The tendering contractors are referred to ARM 4 supplement 2, Agreed Alternative Rules for the Measurement of Services Installations (Issue 1, 2013), used in the production of this section of the pricing document.		note	
B	The following works are to be priced in accordance with the detailed design; performance specifications and scheme drawing numbers (list included in the Works Requirements) as prepared by Patrick McCaul Consulting Engineers.		note	
C	Builders work in connection with the contract works such as cutting or drilling of holes, forming apertures, chases in walls, floors and ceilings will be carried out by the Works Specialist under the terms of the main contract. The Electrical Specialist shall be responsible for the correct marking out of all attendances, and all other cutting to be performed by the Works Specialist.		note	
<u>ALTERNATIVE RULES FOR THE MEASUREMENT OF ELECTRICAL SERVICES</u>				
<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - POWER TO EV CHARGERS</u>				
<u>System</u>				
Power to EV Charging installation, testing and commissioning; complete; The Electrical contractor shall provide an Electric Vehicle Charging point for use by electric plug in vehicles at one location in the car park as indicated on the contract drawings. The contractor shall also install ducting to 20% of the car parking spaces in the development; all underground electrical services cables shall be within ducts; separate underground service ducts shall be provided as part of the builders works element; all in accordance with the Electrical Engineers Specification and Drawing 2860-E-14, 2860-E-15				
D	EV Charging Power Installation	1	item	
<u>Equipment</u>				
Mini Pillars; supply and installation; complete; Stainless Steel; Rated for IP67; Vandal resistant; Double doors; Lockable; Dark Green in finish; Incorporate plinth and bottom entry/exit section for cabling; Louvre Filter Kit to prevent ingress of dust; Incorporate LED light and internal light switch; Gland plate to ensure enclosure is watertight - Cable entry/exit; c/w integral distribution board (eCar charging); include for all PVC cables, bush bar system, TP&N's, MCCB's, MCB's, RCBO's; HOA switches, CTU's, open/closed contactors; remote keyswitches, timeclocks, metering, surge protection, earth terminal bar; Labels: Traffolyte, black on white, screw on type; all in accordance with the Electrical Specification				
E	Mini Pillar c/w Integral distribution board (Ref: MP1)	1	nr	

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - POWER TO EV (Cont)</u>			
EV dual charger and pedestal; 22KW electric double car charger; supply and installation (including wiring); complete; all in accordance with the Electrical Specification			
A	Electrical Vehicle Dual Charger, complete	1	nr
<u>Accessories associated with terminal equipment</u>			
Isolator Switch; supply and installation (including wiring); complete; surface mounting; include for all accessories and fixings; c/w galvanised steel back boxes; include for all accessories and fixings; all in strict accordance with the Electrical Specification and Drawing 2860-E-15			
B	TPN Isolator 160AMP	1	nr
<u>Mains and Sub-mains cables</u>			
Supply and Installation of sub-mains cable from Main Distribution Board MLVS; Sub-mains distribution outside the building shall be via XLPE/LSF/SWA armoured cables laid in underground ducts; cables shall be terminated at both ends; all in strict accordance with the Electrical Specification Section (61) and Drawing 2860-E-15			
C	Submains; MLVS to EV Changing Mini Pillar; 1 x 5c 35sq.mm XLPE/LSF/SWA	1	item
<u>Final Circuits</u>			
Final Circuits; cable installation (including wiring), Complete; Final circuits shall be fed from local sub-distribution boards; Circuits shall be wired with insulated 3c 10mm2 XPLE/LSF/SWA + CPC cables laid in under ground ducts; cables shall be terminated at both ends; all in strict accordance with the Electrical Project Particular Specification Section (62) and Drawing 2860-E-14			
Final Circuits - E-Car Charge mini pillar			
D	EV charger; Three Phase; 63amp MCB	1	nr
E	EV charger; Three Phase; 63amp MCB (Future installation)	7	nr
<u>General Earthing and Bonding</u>			
General Earthing and Bonding; Design parameters as defined within I.S 10101: 2020 regulations; all in strict accordance with the Electrical Engineers Specification			
F	Generally	1	item

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - POWER TO EV (Cont)</u>			
<u>General</u>			
Testing and commissioning; all in accordance with the Electrical Engineers specification documents and drawings			
A	Testing and commissioning; complete	1	item
Operating and maintenance manuals; all in accordance with the Electrical Engineers specification documents and drawings			
B	Operating and maintenance manuals; complete	1	nr
Working drawings; all in accordance with the Electrical Engineers specification documents and drawings			
C	Working drawings; complete	1	item
Co- ordination drawings; all in accordance with the Electrical Engineers specification documents and drawings			
D	Co- ordination drawings; complete	1	item
As built drawings; all in accordance with the Electrical Engineers specification documents and drawings			
E	As built drawings; complete	1	item
Identification plates, labels and the like; all in accordance with the Electrical Engineers specification documents and drawings			
F	Identification plates, labels and the like; complete	1	item

(60) SITE SERVICES (MAINLY ELECTRICAL) - POWER TO EV (Cont)

COLLECTION

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**(60) SITE SERVICES (MAINLY ELECTRICAL) - POWER TO EV
Carried to Summary**

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - ELECTRICAL VEHICLE CHARGER BASE</u>			
<u>SECTIONAL COMPLETION</u>			
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item
<u>ELECTRICAL VEHICLE CHARGER BASE</u>			
<u>EXCAVATION AND EARTHWORK</u>			
General Information			
<u>Information</u>			
C	The contractor should consult with the Architect and must visit the site to ascertain the extent of the works involved under this section. No variations will be approved for works that ought to have been apparent to the contractor after a site inspection and review of the Architects drawings and specifications	1	item
Excavation			
<u>Excavation</u>			
To reduce levels			
D	Isolated pits (8nr)	2	m3
<u>Working Space</u>			
Isolated pits: excavations (8nr)			
E	Depth not exceeding 2.00m; backfilling trenches with clause 808 hardcore	11	m2
<u>Disposal</u>			
Water			
F	Surface	1	item
G	Ground	1	item

(60) SITE SERVICES (MAINLY ELECTRICAL) - ELECTRICAL VEHICLE CHARGER BASE (Cont)

A	Excavated material; All surplus materials to be disposed of off-site to a licenced waste disposal facility granted by the EPA under Section 40 of the Waste Management Act or by the Local Authority under the Waste Facility Permit Regulations	2	m3		
	Disposal Off-site				
	Filling with hardcore to be obtained offsite; sub-base material shall comply with clause 808; depositing in 150mm layers maximum thickness; compacting; compliant with Annex E of SR 21, free from pyrite and macarsite as per Engineer's specification				
B	To make up levels	1	m3		
	Average thickness not exceeding 250mm				
	Surface treatments				
C	Leveling and compacting; blinding with quarry dust	4	m2		
	Horizontal; 50mm thick; to hardcore				
	<u>CONCRETE WORK</u>				
D	In-situ Concrete	1	nr		
	Concrete cubes for testing				
	Provide for making concrete cubes from freshly mixed concrete; transporting and testing cubes; all as per details in Engineer's Concrete Specification				
E	Size 150 x 150 x 150mm	1	m3		
	Grade C16/20 S3				
	Blinding				
F	Generally; poured on or against earth or unblinded hardcore	1	m3		
	In-situ Concrete; Reinforced				
	Grade C28/35				
F	Beds	1	m3		
	Generally; Reinforced				

(60) SITE SERVICES (MAINLY ELECTRICAL) - ELECTRICAL VEHICLE CHARGER BASE (Cont)				
Sundries				
<u>Surface Finishes</u>				
Brushed finish to wet concrete				
A	Grading to falls	4	m2	
Reinforcement				
<u>Fabric</u>				
Reference A393; 350mm side laps; 350mm end laps				
B	Horizontal	4	m2	
Formwork				
<u>Formwork Generally</u>				
Edges of beds/slabs; finish to be as per Engineer's Specification				
C	Height or width not exceeding 250mm	24	m	
Other Items; forming recesses in concrete so wires can feed up to the Electrical Vehicle charger; as per Engineer's Drawing				
D	Generally	8	nr	
<u>FITTINGS</u>				
Fittings Equipment and Furniture				
<u>EV CHARGER GUARDING; Stainless steel guarding; Manufacturer: Submit proposals; Product reference: Submit proposals; Material/ Finish/ Colour: 316 grade stainless steel; length: 750mm; Height above ground: 900mm; 50mm dia. stainless steel tubular rail to structural engineers details; shop painted to selected RAL colour; 60 x 60mm stainless steel vertical upright T section to structural engineers details; 60 x 60mm stainless steel T bar welded to upright to structural engineers details; shop painted to selected RAL colour; Method of setting guardings: Set guardings in holes: 300 x 300 x 300mm deep completely filled with C23/30 concrete; include for all excavation, disposal, backfilling and fixings etc; As per M&E Specification and Drawing</u>				
Fittings; EV Charger Guarding				
E	Generally	2	nr	

(60) SITE SERVICES (MAINLY ELECTRICAL) - ELECTRICAL VEHICLE CHARGER BASE (Cont)

COLLECTION

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**(60) SITE SERVICES (MAINLY ELECTRICAL) - ELECTRICAL VEHICLE CHARGER BASE
Carried to Summary**

(60) SITE SERVICES (MAINLY ELECTRICAL) - EARTHING SYSTEM & LIGHTNING PROTECTION**SECTIONAL COMPLETION**

A Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever

1 item

B Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections

1 item

EARTHING SYSTEM & LIGHTNING PROTECTION SERVICES**General Information**Information

C When pricing the following items the Contractor's attention is drawn to the location of the site. The Contractor should also visit and check the site. No claims on the grounds of want of knowledge in respect of the above will be entertained whatsoever.

note

D Any un-authorised excavations below the required level shall be made up with concrete of the same composition as for drain beds at the Contractors own expense; all as per Architects Specification

note

E Tendering Contractor to note that all excavated material is to be disposed on-site and regraded / levelled. Contractor to include within the below rates for all works associated with disposal of the excavated material on-site as directed by the ER and all regrading / levelling works as directed. Contractor to determine if temporary spoil heaps will be required based on their own sequencing of the works - if temporary spoil heaps are required all costs associated with same are to be included within the rate.

item

Builders work in connection with all installationExcavation

F Excavating trenches to receive 1nr duct not exceeding 250mm diameter, earthwork support to sides of trenches; include for excavating below ground water level; grading bottoms of excavations; backfilling with imported hardcore; disposal of surplus soil off site; All surplus materials to be disposed of off-site to a licenced waste disposal facility granted by the EPA under Section 40 of the Waste Management Act or by the Local Authority under the Waste Facility Permit Regulations

G Average depth not exceeding 1000mm

12 m

(60) SITE SERVICES (MAINLY ELECTRICAL) - EARTHING SYSTEM & LIGHTNING PROTECTION (Cont)			
	<u>Sand bed and surround; to Engineer's Specification</u>		
	Beds and Surrounds		
A	450 x 450mm; to 150mm diameter duct	12	m
	PVC Red marker tape; "Heptape" or equivalent		
B	Continuous strip; laid during trench backfill; 100mm above pipework	12	m
	PVC Yellow marker tape; "Heptape" or equivalent		
C	Continuous strip; laid during trench backfill; 300mm above pipework	12	m
	<u>Ductwork; uPVC duct; to ESB Specification; Red</u>		
	150mm dia.; include for 10mm diameter draw-rope		
D	Laid in trenches	12	m
	<u>Extra over</u> pipework runs for:		
E	connection to earthing pits	12	nr
F	long radius bends	12	nr
	<u>Chambers</u>		
	Lightning earth pits c/w integral test point; approx size 300 x 300 x 300mm deep; concrete manhole by Furse or equivalent; including rod to clamp tape plus test link, driving stud and earth rods; include all necessary excavations; dispose of surplus soil; grading bottom; earthwork support; concrete where necessary; formwork; opening for ducting; including heavy duty cover lid; all in strict accordance with M & E Engineer's Specification and Drawing		
G	Generally	12	nr
	MECHANICAL INSTALLATIONS		
	<u>System; Site services installation; Lightning Protection Installation; 25x3mm lightning conductor tapes connected to earth pits (earth pits measured elsewhere); complete; as per Engineer's Specification and Drawing</u>		
	Lightning Protection Installation		
H	Generally	1	item

<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - EARTHING SYSTEM & LIGHTNING PROTECTION (Cont)</u>			
Notes			
A	The tendering contractors are referred to ARM 4 supplement 2, Agreed Alternative Rules for the Measurement of Services Installations (Issue 1, 2013), used in the production of this section of the pricing document.		note
B	The following works are to be priced in accordance with the detailed design; performance specifications and scheme drawing numbers (list included in the Works Requirements) as prepared by Patrick McCaul Consulting Engineers.		note
C	Builders work in connection with the contract works such as cutting or drilling of holes, forming apertures, chases in walls, floors and ceilings will be carried out by the Works Specialist under the terms of the main contract. The Electrical Specialist shall be responsible for the correct marking out of all attendances, and all other cutting to be performed by the Works Specialist.		note
<u>ALTERNATIVE RULES FOR THE MEASUREMENT OF MECHANICAL INSTALLATIONS</u>			
<u>(60) SITE SERVICES (MAINLY ELECTRICAL) - SITE LIGHTNING PROTECTION</u>			
<u>System</u>			
Site Lightning Protection Installation; installation; testing and commissioning; complete; The Contractor shall include for the supply, installation, testing, commissioning and certification of a complete Lightning Protection System as indicated on drawings and specified; The system shall comply with IS EN 62305 1-4; all in strict accordance with the Electrical General Specifications, Project Particular Specification Section 65 and Drawings 2860-E-11			
D	Site Lightning Protection	1	item
<u>Fittings</u>			
Earthing Points; supply and installation; complete; Earth rod: minimum 16mm diameter steel core copper bonded earth rods; c/w earth plate, connectors, clamps, rods installed 600mm below ground level; all in accordance with the Electrical Specification Section (65)			
E	Earth Points	11	nr
<u>Mains and Sub-mains cables</u>			
Copper Conductor tape; supply and installation; complete; 25x3mm lightning conductor tapes connecting and interconnecting earth rods; installed 750mm below ground level; c/w connectors, clamps; all in accordance with the Electrical Specification Section (65)			
F	Copper conductor tape to earth pits	1	item

(60) SITE SERVICES (MAINLY ELECTRICAL) - EARTHING SYSTEM & LIGHTNING PROTECTION (Cont)				
	Earth conductor cable; supply and installation complete; Cable size 75mm ² copper conductor cable; buried bare underground; from test point to earth pits; all in accordance with the Electrical Specification Section (65)			
A	Earth conductor cable	1	item	
	<u>General Earthing and Bonding</u>			
	General Earthing and Bonding; Design parameters as defined within I.S 10101: 2020 regulations; all in strict accordance with the Electrical Specification			
B	General Earthing & Bonding; complete	1	item	
	<u>General</u>			
	Testing and commissioning; all in accordance with Engineers Specification			
C	Testing and commissioning	1	item	
	Operating and maintenance manuals; all in accordance with Engineers Specification			
D	Operating and maintenance manuals	1	item	
	Working drawings; all in accordance with Engineers Specification			
E	Working drawings	1	item	
	Co-ordination drawings; all in accordance with Engineers Specification			
F	Co-ordination drawings	1	item	
	As built drawings; all in accordance with Engineers Specification			
G	As built drawings	1	item	
	Identification plates, labels and the like; all in accordance with Engineers Specification			
H	Identification plates, labels and the like	1	item	

(60) SITE SERVICES (MAINLY ELECTRICAL) - EARTHING SYSTEM & LIGHTNING PROTECTION (Cont)			
(60) SITE SERVICES (MAINLY ELECTRICAL) - SITE EARTHING & BONDING			
<u>System</u>			
Earthing and Bonding installation; testing and commissioning; The contractor shall undertake to effectively earth the whole of the electrical installation in accordance with the NSAI I.S. 10101:2020. Main equipotential earth bonding should be provided from each of the following items, as a minimum, to the main earthing bar: Incoming Water Main, Incoming Gas Main, Metal drainage pipes, Structural Steelwork, Main Heating Pipework, Main Ventilation Ductwork, Lightning Protection System, Comms Rooms, Supplementary earth bonding shall be carried out on extraneous metal parts at the following locations: Metallic Wireways and Containment, Suspended Ceiling Grids, Wash Hand Basins, Showers, Sinks, WC's, Cleaners Sinks, Catering equipment, Metal worktops, Plantroom Pipework (e.g. across pumps, valves, vessels, etc.); all in strict accordance with the Electrical Engineers Specification Section 68; Project Particular Specification and Drawings 2860-E-15			
A	Earthing and Bonding	1	item
<u>Fittings</u>			
Earthing points; c/w inspection box; lattice copper earthing mat; in accordance with I.S 10101:2020; complete; all in strict accordance with the Electrical Specification			
B	Earthing Points	1	nr
<u>Mains and Sub-mains cables</u>			
Main earth conductor cable; supply and installation complete; 1 core 95mm ² LSZH earth cable; Design parameters as defined within I.S 10101: 2020 regulations; all in strict accordance with the Electrical Specification			
C	From Earth terminal bar to earthing matt	1	item
<u>General Earthing and Bonding</u>			
General Earthing and Bonding; Design parameters as defined within I.S 10101: 2020 regulations; all in strict accordance with the Electrical Specification			
D	General earthing and bonding, complete	1	item
<u>General</u>			
Testing and commissioning; all in accordance with Engineers Specification			
E	Testing and commissioning	1	item

(60) SITE SERVICES (MAINLY ELECTRICAL) - EARTHING SYSTEM & LIGHTNING PROTECTION (Cont)				
	Operating and maintenance manuals; all in accordance with Engineers Specification			
A	Operating and maintenance manuals	1	item	
	Working drawings; all in accordance with Engineers Specification			
B	Working drawings	1	item	
	Co-ordination drawings; all in accordance with Engineers Specification			
C	Co-ordination drawings	1	item	
	As built drawings; all in accordance with Engineers Specification			
D	As built drawings	1	item	
	Identification plates, labels and the like; all in accordance with Engineers Specification			
E	Identification plates, labels and the like	1	item	

(60) SITE SERVICES (MAINLY ELECTRICAL) - EARTHING SYSTEM & LIGHTNING PROTECTION (Cont)				
COLLECTION Page No. Siteworks/174 Page No. Siteworks/175 Page No. Siteworks/176 Page No. Siteworks/177 Page No. Siteworks/178 Page No. Siteworks/179 (60) SITE SERVICES (MAINLY ELECTRICAL) - EARTHING SYSTEM & LIGHTNING PROTECTION Carried to Summary				
20420 - Carrick On Shannon CS August 2026 SFR115/Issue1/190207				

<u>(70) SITE FITTINGS</u>				
<u>SECTIONAL COMPLETION</u>				
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item	
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item	
<u>FITTINGS</u>				
Fittings Equipment and Furniture				
<u>Signage; Road Sign & Posts; signs to Engineer's Specification; fixing to steel post using fasteners to Engineer's specification; include for plastic cap at top of post; posts to be 88.9x5mm galvanised CHS x 4000mm long; mild steel with hot dip galvanised finish; galvanised steel secured by collar and bolts; set in 450mm x 450mm x 850mm deep concrete base; C20/25 concrete surround to sign post; on lean-mix concrete to good ground; backfilling with Clause 804 hardcore; including all excavation of pits; disposal of surplus material off-site compacting and levelling to bottom of excavation; as per Engineer's Drawing C-004 and Specification</u>				
Fittings; Signage				
C	Stop sign (RUS 027); sign mounted on 1nr pole	3	nr	
D	Disabled Person Parking Bay sign (F204); sign mounted on 1nr pole	4	nr	
E	Bicycle Parking sign (F 206); sign mounted on 1nr pole	4	nr	
F	No Right Turn sign (RUS 012); sign mounted on 1nr pole	1	nr	
G	No Left Turn sign (RUS 013); sign mounted on 1nr pole	1	nr	
H	Parking Permitted (RUS 018); sign mounted on 1nr pole	1	nr	
J	Speed limit sign (RUS 044); sign mounted on 1nr pole	1	nr	
K	Pedestrians Warning sign (W 140); sign mounted on 1nr pole	1	nr	

(70) SITE FITTINGS (Cont)				
<u>Free-standing external architectural signage systems; Description: Wayfinding signage as per drawing; System performance: Ss 40 10 25/290 Design life; Ss 40 10 25/260 Wind actions; System manufacturer: Contractor's choice; Sign type: Wayfinding; Posts: Aluminium alloy posts; Manufacturer: Contractor's choice; Standard: To BS EN 1317-5; Posts; Type: End; Size and profile: 50 mm x 50 mm square; Length: 1200 mm; Post top: Post tops; Post base: Flat; Finish as delivered; Worked finish: Polished; Applied finish: Powder coated to BS 6496; Colour: RAL 9006; Post foundations: Ss 20 05 15 70 Reinforced concrete pad and strip foundation systems; Fixings: Bolt fixed into concrete pad foundation; Execution: Ss 40 10 25/695 Provision of system samples, prototypes and mock-ups; Ss 40 10 25/670 Posts set in concrete; System completion: Ss 40 10 25/810 Inspection of external signs; Ss 40 10 25/830 Documentation for external signage; System performance: See Ss 40 10 25/260 Wind actions in Ss 40 10 25 30 Fixed external signage systems; See Ss 40 10 25/290 Design life in Ss 40 10 25 30 Fixed external signage systems.; posts to be set into concrete foundations 450mm x 450mm x 850mm deep overall; include excavation, disposal, earthwork supports, concrete, formwork etc; all to Architect's Drawing 4005 and Specification Ss 40 10 25 32</u> Fittings; Signage				
A	Direction Signage; 1850mm wide x 2400mm high above ground; 2no. posts; 5no. panels; as per Architects Drawing TD-0401 <u>Protective rail systems; Description: External Door Guards; System performance: Ss 25 60 05/205 Design submittals Guardings; Ss 25 15 60/250 Accessibility; System manufacturer: Submit Proposals; Standards: BS EN 12453:2017; Certification: CE mark & DoP; Products: 50x25mm rectangular stainless steel guarding with mounted door stop at low level. Guarding fixes below ground level to substructure to engineers design and specification. Execution: Sample to be approved; include for excavation; disposal; concrete base; mesh reinforcement; formwork; fixings; As per Architecture Specification Ss 25 16 94 65.</u> Fittings; External Door Guards	1	nr	
B	Size: 700mm long x 900mm high <u>BOLLARDS; Stainless Steel Bollard with cast stainless steel collar & cap; The contrasting colour to pipe to be 100mm high powder coated; 316 grade stainless steel; pipe to be 114mm diameter with a 3mm thickness; 900mm overground level and 300mm underground level; powder coat finish to selected colour; bollards to be DDA complaint for visually impaired; Concrete foundations: fixed bollards - 500 x 500 x 300mm; Method of fixing: Anti Ram Root, 300 mm below ground, set in concrete base; include for excavation; disposal; concrete base; formwork; fixings; As per Architects Specification and drawing TD-0401 & TD-0402</u> Fittings; Bollards	8	nr	
C	Approx size: 1200mm high (900mm above ground and 300mm below ground); 114mm diameter	17	nr	

<u>(70) SITE FITTINGS (Cont)</u>				
A	Stainless steel cycle stands; Description: Bike Stands; Manufacturer: Submit proposals; Stand type: Cycle; Number of stands: Refer to drawing; Base: Base plate bolted to 400 x 400 x 400 mm concrete base 100 mm below paving surface. Base to Engineer's design and specification; Finish as delivered: 1K/2K satin-polished to BS EN 10088-2; Verification; Submittals: CE Mark Declaration of Performance; Timing: Before placement of orders; include for concrete foundations, excavation, backfilling and fittings; As per Architects Specification Pr 40 30 21 84 and drawing Fittings; Bike Stands Generally	80	nr	
	Flagpole to Architect's Specification; Manufacturer: Contractor's choice; Product reference: Contractor's choice; 7m high conical anti-vandal aluminium internal halyard flagpoles; set at min 2m apart; 114/60mm c/w sleeve; to be fitted with counterweight; internal halyard wuth door and key; flagpole to be painted to selected colour; finial's to be included; include for all excavation, disposal, hardcore, concrete, formwork, working space, reinforcement, surround and backfilling; complete; all as per Architects Specification & Drawings TD-0401 Fittings; Flagpole 7000mm high			
B		4	nr	

<u>(70) SITE FITTINGS (Cont)</u>				
COLLECTION				
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(70) SITE FITTINGS Carried to Summary				
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<u>(80) LANDSCAPING</u>			
<u>SECTIONAL COMPLETION</u>			
A	Contractor to note that all works in this project are being completed in Sections as per Proposed Site Plan drawings - 20-36-TD-0131 Proposed Site Plan Phase 1, 20-36-TD-0132 Proposed Site Plan Phase 2, 20-36-TD-0133 Proposed Site Plan Phase 3 & 20-36-TD-0134 Proposed Site Plan Phase 4; Contractor to take cognisance when pricing the items included in this element as all measurement / items included herein is for the complete Works; no claims on the grounds of want of knowledge will be entertained whatsoever	1	item
B	Contractor must include either in this item or within their rates within this element for the Works to be completed in Sections	1	item
<u>EXCAVATION AND EARTHWORK</u>			
Filling with pea gravel to Raised Planters as drainage layer; profile shown in Architects Soft Landscape Detail Drawing; deepest at treepit edges; compacting; as per Architects Soft Landscape Drawing and Specification			
To make up levels			
C	Average thickness not exceeding 250mm	1	m3
Filling with granular fill material to be obtained off-site to Raised Planters; T2 Stone in compliance with IS EN 13242 and SR21 2014 & A1 2016 installed and compacted in layers in accordance with IS888:2016; depositing in 150mm layers maximum thickness; compacting			
To make up levels			
D	Average thickness not exceeding 250mm	3	m3
<u>Surface Treatments</u>			
Blinding filling; sand; compacting			
E	Generally; 50mm thick	8	m2
<u>SURFACE PAVING, FENCING AND LANDSCAPING</u>			
<u>Grassing and Planting</u>			
<u>Topsoil</u>			
Obtained from off site; as per Landscape Architect's specification Ref. Q28; rate to include for system outline section of Q28, products section of Q28 and execution section of Q28 unless detailed in separate measurement below			
F	Filling to a finished depth of 200mm; to grass areas	966	m2

<u>(80) LANDSCAPING (Cont)</u>					
Obtained from on site; as per Landscape Architect's specification Ref. Q28; rate to include for system outline section of Q28, products section of Q28 and execution section of Q28 unless detailed in seperate measurement below					
A	Filling to a finished depth of 450mm; to planting	447	m2		
B	Filling to a finished depth of 1000mm; to trees	13	m2		
<u>CULTIVATION; Compacted topsoil: Break up to full depth; Cultivation: Loosen, aerate and break up soil into particles of 2-8 mm; Depth: 250mm; Timing: Within a few days before planting; Weather and ground conditions: Suitably dry; Surface: Leave regular and even; Levels: 25 mm above adjoining paving or kerbs and minimum 150 mm below dpc of adjoining buildings; Undesirable material brought to the surface: Remove visible weeds, roots and large stones with any dimension exceeding 50 mm; Soil within root spread of trees and shrubs to be retained: Do not dig or cultivate; As per Architects Landscape Specification</u>					
Surface of top soil filling; to grassed and planting areas					
C	Depth: 250mm; generally	1,426	m2		
<u>GRADING; Topsoil condition: Reasonably dry and workable; Contours: Smooth and flowing, with falls for adequate drainage; Hollows and ridges: Not permitted; Finished levels after settlement: 25 mm above adjoining paving, kerbs, manholes etc; Blade grading: May be used to adjust topsoil levels provided depth of topsoil is nowhere less than 150 mm; Give notice: If required levels cannot be achieved by movement of existing soil; As per Architects Landscape Specification</u>					
Grading; to grassed and planting areas					
D	Generally	1,426	m2		
<u>GRADING SUBSOIL; General: Grade to smooth flowing contours to achieve specified finished levels of topsoil; Areas of thicker topsoil: Excavate locally; As per Architects Landscape Specification</u>					
Grading subsoil; to grassed and planting areas					
E	Generally	1,426	m2		

(80) LANDSCAPING (Cont)				
<u>SUBSOIL SURFACE PREPARATION; General: Excavate and/ or place fill to required profiles and levels, as section D20; Loosening: Light and noncohesive subsoils: When ground conditions are reasonably dry, loosen thoroughly to a depth of 300 mm; Stiff clay and cohesive subsoils: When ground conditions are reasonably dry, loosen thoroughly to a depth of 450 mm; Rock and chalk subgrades: Lightly scarify to promote free drainage; Stones: Immediately before spreading topsoil, remove stones larger than 75 mm; Remove debris and builders rubble; Note that much of the existing soil is fill material for a partially completed, previous development on site; As per Architects Landscape Specification</u> Subsoil surface preparation; to grassed and planting areas				
A	Generally <u>Seeding</u> GRASS SEED FOR ALL GRASSED AREAS; Supplier: Contractor's choice; Mixture reference: Submit proposals for high quality product / component appropriate to the use / location and fit for purpose; Application rate: 20-35 g/m2; SEED MIXTURE FOR ROAD VERGES - WILD FLOWER SEED; Supplier: Contractor's choice; Mixture reference: Submit proposals for high quality product / component appropriate to the use / location and fit for purpose; Origin (as defined in the National Plant Specification): Native Irish; Application rate: 5-10 g/m2; QUALITY OF SEED FOR ALL GRASSED AND PLANTED AREAS; Freshness: Produced for the current growing season; Certification: Blue label certified varieties; Standard: EC purity and germination regulations; Official Seed Testing Station certificate of germination, purity and composition: Submit when requested; Samples of mixtures: Submit when requested; As per Architects Landscape Specification	1,426	m2	
B	Generally WEED CONTROL FOR INVASIVE NON-NATIVE WEEDS; Locations: All planting areas; General: Prevent weeds from seeding and perennial weeds from becoming established, by hoeing and cultivating. Kill off any regrowth with suitable systemic herbicide before mulching; As per Architects Landscape Specification	1,426	m2	
C	Generally <u>FERTILIZER FOR ALL GRASSED AREAS; Types: Apply both: Superphosphate with a minimum of 18% water soluble phosphoric acid; A sulphate of ammonia with a minimum of 20% nitrogen; Application: Before final cultivation and three to five days before seeding/turfing; Coverage: Spread evenly, each type at 70 g/m2, in transverse directions; As per Architects Landscape Specification</u> Fertilizer; to grassed and planting areas	1,426	m2	
D	Generally	1,426	m2	

<u>(80) LANDSCAPING (Cont)</u>					
A	Generally	FINAL CULTIVATION; Timing: After grading and fertilizing; Seed bed: Reduce to fine, firm tilth with good crumb structure; Depth: 25 mm; Surface preparation: Rake to a true, even surface, friable and lightly firmed but not over compacted; Remove surface stones/earth clods exceeding: General areas: 20 mm; Fine lawn areas: 10 mm; Adjacent levels: Extend cultivation into existing adjacent grassed areas sufficient to ensure full marrying in of levels; As per Architects Landscape Specification Q30	1,426	m2	
	Generally	Final Cultivation; to grassed and planting areas			
B	Generally	Surface applications; MULCHING PLANTING BEDS; Material: Fine grade bark mulch; Purity: Free of pests, disease, fungus and weeds; Recycled content: Contractor's choice; Preparation: Clear all weeds. Water soil thoroughly; Coverage: 75 mm depth; Finished level of mulch: 30 mm below adjacent grassed or paved areas; As per Architects Landscape Specification	460	m2	
	Generally	Applying loose mulch to all shrub planting			
C	Generally	Surface applications; MULCH MATTING/ GEOTEXTILE FABRIC TO SHRUB PLANTING; Manufacturer: Contractor's choice; Product reference: Submit proposals for high quality product / component appropriate to the use / location and fit for purpose; Type: Jute; Recycled content: Contractor's choice; Timing: Lay before planting; Watering: Water soil thoroughly before laying; Laying: In close contact with soil surface. Lap or butt joints as recommended by manufacturer, with no gaps; Planting: Cut neat slits or flaps. Refit closely around plant stems; Overlay: Mulching planting beds; As per Architects Landscape Specification	460	m2	
	Generally	Mipex Layer			
D	Generally	Woodland Screen Planting; excavate to 480mm depth and backfill with 450mm multi-purpose grade topsoil; supply & plant the following Native Transplant mix as set out in the drawings and in accordance with the spacing stated for each; include for all soil preparation, cultivation, manure, most peat; include for all excavation, disposal, backfilling, drainage; all in accordance with Architects Drawing	107	nr	
	Generally	Woodland Screen Planting; Alnus glutinosa, b/r 1+2 90-120cm feathered			
E	Generally	Woodland Screen Planting; Betula pendula, b/r 1+2 90-120cm feathered	80	nr	
	Generally				

<u>(80) LANDSCAPING (Cont)</u>				
A	Woodland Screen Planting; <i>Corylus avellana</i> , b/r 1+1 60-90cm, 10%, Generally	54	nr	
B	Woodland Screen Planting; <i>Crataegus monogyna</i> , b/r 1+1 60-90cm Generally	54	nr	
C	Woodland Screen Planting; <i>Ilex aquifolium</i> , cg 2L 40-50cm Generally	54	nr	
D	Woodland Screen Planting; <i>Prunus spinosa</i> , b/r 1+0 60-90cm Generally	27	nr	
E	Woodland Screen Planting; <i>Pinus sylvestris</i> , cg 5L 40-60cm, Generally	54	nr	
F	Woodland Screen Planting; <i>Salix caprea</i> , b/r 0+1 60-120cm Generally	54	nr	
G	Woodland Screen Planting; <i>Quercus petraea</i> , b/r 1+2 90-120cm feathered Generally	27	nr	
H	Woodland Screen Planting; <i>Viburnum opulus</i> , b/r 1+1 60-90cm Generally	27	nr	
	<u>Groundcover Sensory Mix; excavate to 480mm depth and backfill with 450mm multi-purpose grade topsoil; supply & plant the following shrub mix as set out in the drawings and in accordance with the spacing stated for each; include for all soil preparation, cultivation, manure, most peat; include for all excavation, disposal, backfilling, drainage; all in accordance with Architects Drawing</u>			
J	Groundcover Sensory Mix; <i>Hydrangea quercifolia</i> , cg 5L Generally	129	nr	
K	Groundcover Sensory Mix; <i>Lonicera pileata</i> , cg 2L Generally	258	nr	
L	Groundcover Sensory Mix; <i>Osmanthus heterophyllus</i> 'Goshiki', cg 2L Generally	172	nr	

<u>(80) LANDSCAPING (Cont)</u>				
	Groundcover Sensory Mix; Pittosporum tenuifolium 'Irene Patterson', cg 5L			
A	Generally	129	nr	
	Groundcover Sensory Mix; Pittosporum tenuifolium 'Tom Thumb', cg 5L			
B	Generally	172	nr	
	Groundcover Sensory Mix; Spiraea japonica, cg 2L			
C	Generally	172	nr	
	Groundcover Sensory Mix; Achillea filipendulina, cg 2L			
D	Generally	258	nr	
	Groundcover Sensory Mix; Achillea millefolium 'alba', cg 2L			
E	Generally	258	nr	
	Groundcover Sensory Mix; Erigeron karvinskianus, cg 2L			
F	Generally	344	nr	
	Groundcover Sensory Mix; Pennisetum villosum, cg 2L			
G	Generally	258		
	Groundcover Sensory Mix; Lavandula angustifolia, cg 2L			
H	Generally	258		
	Groundcover Sensory Mix; Calamagrostis acutiflora, cg 2L			
J	Generally	258		

<u>(80) LANDSCAPING (Cont)</u>					
Trees; supply & plant the following structure tree planting as set out on the drawings; TREE PITS; Sizes: 75 mm deeper than root system and wide enough to accommodate roots when fully spread; Sloping ground: Maintain horizontal bases and vertical sides with no less than minimum depth throughout; Pit bottoms: With slightly raised centre. Break up to a depth of 150 mm; Treatment: Soil ameliorant and well rotted animal manure and compost worked into pit bottoms; Pit sides: Scarify; Backfilling material: Tree backfilling material; Accessories: Root barrier; TREE PIT ROOT BARRIERS; Locations: To all new trees proposed on Architects landscape drawing; Manufacturer: "Greenleaf Arborsystem or equivalent approved, Agreement certified manufacturer; Product reference: "Reroot 1000" linear pavement protection for the trees proposed for the public pavements "Root Director Modular root protection system" for all trees proposed in the open space areas; Depth of top of root barrier below finished soil level: Flush; Installation: With sides vertical; TREE PIT ACCESSORIES Locations: All tree pits; Manufacturer: Ageement certified. Contractor's choice; Product reference: Submit proposals for high quality product / component appropriate to the use / location and fit for purpose; Type: Perforated plastics irrigation pipe, 50 mm diameter, in circle above and around sides of rootball, with plastics cap. "Greenleaf Arborsystem Root Rain Metro" or equivalent approved, irrigation system will be fitted to all new trees to facilitate watering during the first growing season and during any excessively dry periods thereafter; TREE PIT DRAINAGE; Depth of excavation: Increase from specified size to allow for aggregate layer, with base slightly falling to outlet; Aggregate layer: Clean gravel or broken stone, with no fines, graded 40 to 20 mm; Depth: 200 mm; Drainage pipes: Type: Perforated plastics; Diameter: 80 mm; Position: Lay around perimeter of pit within aggregate layer; Discharge: Connect to soakaway or road gully. Refer to the architectural drawings; Geotextile filter; Manufacturer: Contractor's choice; Product reference: Submit proposals for high quality product / component appropriate to the use / location and fit for purpose; Position: Lay over aggregate before installing tree or backfill; Completed pits: Test for free drainage before planting; As per Landscape Architects Specification					
A	Generally	7	nr		
	Semi-Mature Trees; Betula pendula, rb 14 - 16cmg				
B	Generally	2	nr		
	Semi-Mature Trees; Prunus avium (wild Cherry), rb 18-20cmg				
C	Generally	4	nr		
	Semi-Mature Trees; Sorbus aucuparia, rb 14-16 cmg				

<u>(80) LANDSCAPING (Cont)</u>				
<u>Hedgegrows; excavate to 480mm depth and backfill with 450mm multi-purpose grade topsoil; supply & plant the following Hedgegrow mix as set out in the drawings and in accordance with the spacing stated for each; include for all soil preparation, cultivation, manure, most peat; include for all excavation, disposal, backfilling, drainage; all in accordance with Landscape Architect's Specification</u> Pittosporum 'Irene Patterson' cg 2L				
A	Generally	42	m	
<u>Sundries</u> FENCING SUPPORT FOR NEW HEDGES; Type: Timber post and general pattern wire mesh; Height: 600 mm; Timing: Before planting hedge; Support: Lightly secure hedge plants to fence wires at appropriate intervals; including for excavation for foundations; include for concrete foundations for posts; As per Landscape Architects Specification				
B	Generally	42	m	
STAKING FOR ALL TREES; Staking: Position first stake appropriate distance from tree on windward side and drive vertically at least 300 mm into bottom of pit before planting; Drive second stake similar distance from opposite side of tree; Backfilling: Consolidate material around stake; Height of stakes: Cut to approximately 900 mm above ground level or as appropriate for particular tree being supplied; Double staking to be used in all areas; Ties: Cushioned and adjustable ties; Tying: Secure tree firmly but not rigidly to stake with at least two ties within 25 mm of top of stake or to cross member f double staking; As per Landscape Architects Specification				
C	Generally	13	nr	
TREE GUARDS: Manufacturer: Agreement certified supplier; Product reference: submit proposals; Material: Steel tree guard, in ductile cast iron; Finish: Galvanised and polyester powder coated; Colour: neutral; Size: 450mm diameter or to suit 800 X 800 mm tree grille; Accessories/ Special requirements: The tree grille is to be slotted or installed into a galvanised steel support frame, the castings are to be secured by the tree guard and corner locating points; Method of fixing: Bolted to tree grille frame with 300mm hooked galvanised steel anchors as applicable; as per Landscape Architect's Specification				
D	Generally	13	nr	
Membrane to Engineer's Specification; Geotextile membrane to planters; include for all necessary laps and joints; to manufacturers instructions; as per Engineer's Specification & Drawings				
E	Horizontal	16	m2	

<u>(80) LANDSCAPING (Cont)</u>					
	Membrane to Engineer's Specification; Waterproof liner to planters; include for all necessary laps and joints; to manufacturers instructions; as per Engineer's Specification & Drawings				
A	Horizontal	16	m2		
B	Vertical	6	m2		
	Membrane to Engineer's Specification; Floccell drainage mat or equivalent to planters; include for all necessary laps and joints; to manufacturers instructions; as per Engineer's Specification & Drawings				
C	Horizontal	16	m2		
	<u>Maintenance for defects liability period; as per Architect's Specification</u>				
	MAINTENANCE; Duration: one year including defects period of soft landscaping: Carry out the operations in the following clauses from completion of planting until the end of the rectification period. Frequency of maintenance visits: Allow for monthly during growing season unless agreed otherwise in the agreed maintenance schedule.				
D	Generally	1	item		
	FAILURES OF PLANTING; Defects due to materials or workmanship not in accordance with the Contract: Plants/ trees/shrubs that have failed to thrive. Exclusions: Theft or malicious damage after completion. Rectification: Replace with equivalent plants/ trees/ shrubs. Replacements: To match size of adjacent or nearby plants of same species or match original specification, whichever is the greater. Timing of making good: In accordance with an agreed defects rectification programme.				
E	Generally	1	item		
	CLEANLINESS; Soil and arisings: Remove from hard surfaces and grassed areas. General: Leave the works in a clean tidy condition at completion and after any maintenance operations.				
F	Generally	1	item		

<u>(80) LANDSCAPING (Cont)</u>				
PLANTING MAINTENANCE GENERALLY; Weed control: Maintain weed free area around each tree and shrub. Diameter (minimum): The larger of 1 m or the surface of original planting pit. Keep planting beds clear of weeds: By maintaining full thickness of mulch. Planted areas: Fork over beds as necessary to keep soil loose, with gentle cambers and no hollows. Take care not to reduce depth or effect of mulch. Precautions: Ensure that trees and shrubs are not damaged by use of mowers, nylon filament rotary cutters and similar powered tools. Staking: Check condition of stakes, ties, guys and guards. Broken or missing items: Replace. Rubbing: Prevent. Ties: Adjust to accommodate growth. Damage to bark: Cut back neatly with sharp knife. Prevent further damage. Frequency of checks: Every three months. Firming up: Gently firm loosened soil around trees/ shrubs. Straighten leaning trees/ shrubs. Trees: Spray crown when in leaf during warm weather. Timing: After dusk. Watering: Contractor's choice.				
A	Generally	1	item	
PLANTING MAINTENANCE - FERTILIZER; Time of year: March or April. Fertilizer: Organic. Manufacturer: Contractor's choice. Product reference: Submit proposals. Application: Evenly spread, carefully incorporating below mulch materials. Application rate: To manufacturer's recommendations.				
B	Generally	1	item	
PLANTING MAINTENANCE - PRUNING; General: Prune to promote healthy growth and natural shape. Dead, dying, diseased wood and suckers: Remove. Timing: As appropriate to the species. Trees: Favour a single central leading shoot. Arisings: Remove.				
C	Generally	1	item	
MAINTENANCE INSTRUCTIONS; General: Before end of the maintenance period, submit printed instructions recommending procedures to be established by the Employer for maintenance of the planting work for one full year: Provide a schedule of any ongoing maintenance problems experienced during the defects liability period				
D	Generally	1	item	
FINAL MULCHING; Timing: At end of the maintenance period. Watering: Ensure that soil is thoroughly moistened prior to remulching, applying water where necessary. Planting beds: Remulch. Depth (minimum): 50 mm. Trees: Remulch. Depth (minimum): 50 mm.				
E	Generally	1	item	

(80) LANDSCAPING (Cont)

COLLECTION

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TOTAL AMOUNT CARRIED TO GENERAL SUMMARY				
Siteworks/1 - Siteworks/195.				

GENERAL SUMMARY

				€	
	<u>GENERAL SUMMARY</u>				
	Amount for:				
A	PRELIMINARIES				
B	MAIN EXTENSION				
C	EXISTING BUILDING				
D	SITEWORKS				
E	Total (excluding VAT)			€	
F	Provide for: entering into a bond with an approved Insurance Company which will become bound jointly and severally with the Contractor in a sum equal to 12.5% of the contract sum; paying all premiums and expenses arising; complying with all conditions of the bond; lodging the bond with the Architect	Item			
	<u>PROJECT SUPERVISOR</u>				
G	Provide for all costs in respect of: The appointment of project supervisor for the Construction Stage. We agree to nominate a suitably qualified person to provide the required services and have included for all costs associated with the provision of such services to fulfill the function and perform on behalf of the Employer the duties of the Project Supervisor for the Construction Stage as set out in paragraphs 6 & 7 of the safety, Health and Welfare at Works Construction Regulations 2013; complying with the Conditions of the Collateral Agreement including any additional insurance costs (Exclusive of Value Added Tax)	Item			
	TOTAL AMOUNT OF TENDER (EXCLUDING VAT)				
	FORWARD TO FORM OF TENDER			€	

APPENDIX A - VAT SCHEDULE

SCHEDULE OF WORKS ITEMS SUBJECT TO VAT AT RATES OTHER THAN SPECIAL BUILDING RATE					
(13.5%)					
<u>Notes</u>					
1. Please list separately the items included in the tender amount (including M&E Items) that are liable for VAT at rates other than the special building rate (13.5%) i.e. 23% to allow for the calculation of the Employer's total VAT outlay on the contract.		Note			
2. The Employer reserves the right to seek advice from the Revenue Commissioners on the accuracy of the VAT allocations shown and, in the event of a dispute, the opinion of the Revenue Commissioners on the VAT rate appropriate to any item of work shall be final.		Note			
3. Where the cost of any items are VAT exempt or zero rated zero rated for VAT purposes the relevant items shall be itemised and the amount of the liability at this rate shall be clearly identified		Note			
4. This schedule is for information purposes only and should not be carried forward to the General summary and will therefore not be included in the Tender amount.		Note			

<u>Ref</u>	<u>Description</u>	<u>Unit</u>	<u>Amount Subject to VAT at rates other than 13.5% €</u>	<u>VAT Percentage Amount e.g. 23% %</u>	<u>Amount of VAT €</u>
	<u>Please See Below Example on How the Schedule is to be Filled Out (For information Purposes Only)</u>	Note			
	<u>The following example should not form any part of the Tenderers calculation</u>	Note			
	<u>Example</u>				
	Light Fittings	Item	€10,000.00	23.00%	€2,300.00
	<u>Works Items</u>				
A					
B		Item			
C		Item			
D		Item			
E		Item			
F		Item			
G		Item			
H		Item			
I		Item			
J		Item			
K		Item			
L		Item			
M		Item			
N		Item			

<u>Ref</u>	<u>Description</u>	<u>Unit</u>	<u>Amount Subject to VAT at rates other than 13.5% €</u>	<u>VAT Percentage Amount e.g. 23% %</u>	<u>Amount of VAT €</u>
	<u>Works Items</u>				
A		Item			
B		Item			
C		Item			
D		Item			
E		Item			
F		Item			
G		Item			
H		Item			
I		Item			
J		Item			
K		Item			
L		Item			
M		Item			
N		Item			
O		Item			
P		Item			
Q		Item			
R		Item			
S		Item			
T		Item			
U		Item			
V		Item			

<u>Ref</u>	<u>Description</u>	<u>Unit</u>	<u>Amount Subject to VAT at rates other than 13.5% €</u>	<u>VAT Percentage Amount e.g. 23% %</u>	<u>Amount of VAT €</u>
	<u>Works Items</u>				
A		Item			
B		Item			
C		Item			
D		Item			
E		Item			
F		Item			
G		Item			
H		Item			
I		Item			
J		Item			
K		Item			
L		Item			
M		Item			
N		Item			
O		Item			
P		Item			
Q		Item			
R		Item			
S		Item			
T		Item			
U		Item			
V		Item			



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General Summary	Pages 1 - 1

Appendix A – VAT Schedule

Please check that no page is missing or in duplicate.

Contractor's Name :

Address :
.....

Date :

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August 2026



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