

CONSTRUCTION OF 6 NO UNIT'S SOCIAL HOUSING SCHEME

AT

AN GLASAN
(PHASE 2)
KILCAR
CO. DONEGAL

FOR

DONEGAL COUNTY COUNCIL
COUNTY HOUSE
LIFFORD
CO. DONEGAL

BILL OF QUANTITIES

Architects:

MacGabhann Architects Ltd.

Ballaghderg,
Letterkenny,
Co. Donegal.
F92 TA46

Quantity Surveyor:

Joseph Coyle Associates,

Chartered Quantity Surveyor,
Unit 7B Riverside Office Park,
Neil T Blaney Road,
Letterkenny,
Co. Donegal.
F92 XD9Y

Services Engineers

IPSUM Engineering Consultancy

Unit 4B Riverside Office Park
Neil T Blaney Road,
Letterkenny,
Co. Donegal.
F92 R928

Structural / Civil Engineers

DSM Consulting Engineers

Glenview Business Park
Donegal Road,
Ballybofey,
Co. Donegal

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BILL NO. 1

PRELIMINARIES

<u>PRELIMINARIES</u>				
<u>1. PRELIMINARY PARTICULARS</u>				
1.1. PROJECT, PARTIES AND CONSULTANTS				
<u>Name of project</u>				
A	Construction of 6 No. Unit Social Housing Scheme at An Glasan, (Phase 2), Kilcar, Co. Donegal; Project Reference 2507	1	Item	
<u>Location of the project</u>				
B	The location of the proposed works is within the site confines as shown on the Site Location Map at An Glasan, (Phase 2), Kilcar, Co. Donegal; Project Reference 2507	1	Item	
<u>Nature of project</u>				
C	The proposed works comprise the construction of one number, four x two bedroom apartment units (house type 19) and one semi-detached single storey block, comprising one x three bed dwelling unit and one x four bed dwelling unit and associated site works at An Glasan, (Phase 2), Kilcar, Co. Donegal; Project Reference 2507	1	Item	
<u>General description of the works</u>				
D	The proposed works comprise the construction of 5 no. social housing units and all associated external and site works at An Glasan, (Phase 2), Kilcar, Co. Donegal	1	Item	
E	The Works Programme are to be completed within 14 months of start date on site, with works anticipated to commence in Q3 2026.	1	Item	
F	The works are to be completed in one single phase.	1	Item	
<u>Name and address of the Employer</u>				
G	Donegal County Council, County House, Lifford, Co. Donegal.	1	Item	
<u>Name and address of the Employer's Representative</u>				
Sub Bill 1 - Preliminaries		To Collection €		
6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		1/1		

<u>PRELIMINARIES (Cont)</u>				
A	MacGabhann Architects, Ballaghderg, Letterkenny, Co. Donegal <u>Name and address of the Architect</u>	1	Item	
B	MacGabhann Architects, Ballaghderg, Letterkenny, Co. Donegal, F92 TA46 <u>Name and address of the Structural / Civil Engineer</u>	1	Item	
C	DSM Structural & Civil Engineers, Donegal Road, Ballybofey, Co. Donegal <u>Name and address of the Building Services Engineer</u>	1	Item	
D	IPSUM Consulting Engineers, Unit 2B Riverside Office Park, Neil Blaney Road, Letterkenny, Co. Donegal, F92 R928 <u>Name and address of the Quantity Surveyor</u>	1	Item	
E	Joseph Coyle Associates, Chartered Quantity Surveyors, Unit 7B Riverside Office Park, Neil Blaney Road, Letterkenny, Co. Donegal, F92 XD9Y <u>Project Supervisor - Design Process</u>	1	Item	
F	MacGabhann Architects, Ballaghderg, Letterkenny, Co. Donegal, F92 TA46 <u>Assigned Certifier</u>	1	Item	
G	MacGabhann Architects, Ballaghderg, Letterkenny, Co. Donegal, F92 TA46 <u>Consultants Generally</u>	1	Item	
H	The Employers Consultants and Clients representatives and any other Consultants appointed from time to time by the Employer will be empowered to visit the site and to supervise all or any of the work. The Contractor shall observe their instructions and directions with regard to same and collaborate with them fully to any extent that may be required, provided always that the Employers Representatives directions with regard to all or any of the work shall be final and binding	1	Item	
Sub Bill 1 - Preliminaries 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		1/2		To Collection €

<u>PRELIMINARIES (Cont)</u>				
<u>Clerk of Works</u>				
A	Neither the appointment nor the actions of a Clerk of Works or any supervisory representative shall in any way affect the responsibility of the Contractor and such Clerk of Works/Supervisory representative will have no power to authorise change orders of any kind	1	Item	
1.2. DESCRIPTION OF THE SITE				
<u>Boundaries of the site</u>				
B	The boundaries of the site are as indicated in the Works Requirements and/or in any additional information provided with this tender.	1	Item	
C	The location of the proposed works is within the confines of the site as shown on the site location map and also to the area outwith the site for drainage and connective works as shown on the drawings and specification. The working area for the contractor will be as shown on the Tender / Contract Drawings. The Contractor shall confine his operations and workmen to an area within the site without damaging any areas to be retained. Do not use the site for any purpose other than carrying out the works.	1	Item	
<u>Description of the site</u>				
D	The Site: The tenderer must visit and inspect the site prior to submitting his tender. Excavation, Filling, Site Clearance, as per Structural Engineers Specification; Topsoiling, Seeding, External Planting, Landscape Maintenance, Fencing as per details shown on Site Layout Drawing; Any landscaping must be carried out by a professional landscaper. Setting out as per DCC specifications A33/321	1	Item	
E	Contractor to ensure that existing pedestrian footpaths are protected and maintained for the duration of the works.	1	Item	
<u>Means of Access</u>				
Sub Bill 1 - Preliminaries		To Collection €		
6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		1/3		

<u>PRELIMINARIES (Cont)</u>				
A	The access to the site shall be off the main public road and through the entrance to phase 1 at An Glasan, Kilcar, Co. Donegal, as shown on the site layout location map. Any temporary access points should not create a significant risk to road users or adjacent land users. Access to the site for inspection purposes shall be at the contractors convenience. Obtain permission from owner of adjoining property if it is necessary to use that property for any purpose in connection with the Works. Indemnify the Employer against all charges arising there from.	1	Item	
B	The PSCS must undertake a risk assessment of any potential risks and communicate control measures to all persons accessing the site. They must also develop and implement a traffic management plan for vehicles accessing the site taking account of all road users including pedestrians / children.	1	Item	
C	The PSCS must implement measures to ensure that visitors to the site and on-site properties and neighbouring lands and third parties are not put at risk of injury or harm due to the construction works. The PSCS appointed shall be responsible for the security of the works area and materials, plant and equipment. The site must be secured at all times to prevent the inadvertent access of third parties.	1	Item	
	<u>Traffic Management and Restrictions on Access</u>			
D	The site opens directly from An Glasan (Phase 1) off the Towney Road at Kilcar, Co. Donegal. Adequate signage to be provided at site entrance. The contractor must ensure for the safety, from the movement of construction traffic from road users, adjacent residents, and pedestrians. A banks man should be on site at all times to manage and guide all construction traffic movements from and to the site.	1	Item	
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6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		1/4		

<u>PRELIMINARIES (Cont)</u>				
A	The Contractor will be required to keep the existing main road clean and free from dirt and mud at all times.	1	Item	
B	The Contractor shall ensure parking areas are provided within the site for construction vehicles. Parking vehicles in such a way as to impede traffic or cause a hazard to traffic or pedestrians using the public road is not permitted. No parking of construction vehicles to take place outside of site boundary. Parking of Contractor's and operatives' cars and other vehicles will be at the discretion of the Contractor and any expense of same will be borne by the Contractor.	1	Item	
C	A traffic management plan will be required for all site traffic accessing the site via the main road along the road and employees must have appropriate training in CSCS sign lighting and guarding.	1	Item	
D	Contractors should note that the access road is to be kept clean and free from construction traffic over the contract period. Outfall from foul sewers are connected to existing public sewer at the northern end of the site.	1	Item	
E	Construction traffic access and egress: A traffic management plan detailing how construction traffic will be managed entering the site must be prepared by the contractor. Large deliveries should be scheduled out-with peak times of residential activity i.e. 8:30 - 9:30 am, 2.30-5.30pm. Access for emergency vehicles must be maintained at all times. No parking of construction vehicles to take place outside of site hoarding/fencing and no parking should be allowed along existing estate (AN GLASAN - PHASE 1).	1	Item	

<u>PRELIMINARIES (Cont)</u>				
A	The existing entrances, roads and access routes shall be kept free and safe for use at all times. The Contractor's prices must include for the necessary programming of the Works to meet this requirement, especially with regard to the passage of his plant, material and work people to and from the Site	1	Item	
	<u>Adjacent or abutting buildings / properties</u>			
B	Adjacent buildings are as shown on the site layout drawings	1	Item	
C	Adjacent or abutting buildings are as indicated in the Works Requirements and/or in any additional information provided with this tender.	1	Item	
	<u>Existing services on, under or over the site and connection works to services</u>			
D	The Contractor shall fully acquaint themselves as to the exact location of all existing services. They shall contact the relevant utility provider and local authority in relation to power cables, gas pipes, telephone cables cable TV. routes, drains and watermains or the like in advance of any excavation or opening up work. Encountering foreseeable utilities in the ground on the site will not be a delay or compensation event.	1	Item	
E	Services known to exist are as shown on the site layout / services drawing	1	Item	
F	Tenderers are referred to Ipsum Consulting Engineers Ltd., Drawings for information on existing services	1	Item	
G	Refer to the Preliminary Safety and Health Plan	1	Item	
Sub Bill 1 - Preliminaries		To Collection €		
6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		1/6		

<u>PRELIMINARIES (Cont)</u>				
A	Works to existing live sewage lines, storm drainage pipes and Eircom and ESB services. Contractor must undertake on site checks and to liaise with ESB & Eir. Contractor must have adequate traffic management plan when working on a live carriage way and employees must have appropriate training in CSCS sign lighting and guarding.	1	Item	
B	All necessary connection fees and road opening fees with regard to ESB, Eir, Uisce Eireann and Public Lighting and also the cost of removal and rerouting of any overhead or underground utility infrastructure, if required, will be borne by Donegal County Council. The Tender sum is to include for all costs in connection with water & sewer connections inc. all fittings. The contractor is responsibility for coordinating timescale with all service providers e.g. Uisce Eireann, Roads and other agencies such as ESB, Public Lighting Designers/Providers, Eir and to ensure that all necessary licences, agreements and permission such as for water & sewer connections including road openings are in place prior to commencement of any works.	1	Item	
C	a. Water Installation: Allow for coordinating timescale with Uisce Eireann Service provider	1	Item	
D	b. ESB Networks: Allow for coordinating timescale with ESB Networks Service provider	1	Item	
E	c. Site lighting installation: Allow for coordinating timescale with Site Lighting service provider	1	Item	
F	d. Eir installation: Allow for coordinating timescale with Telephone Installation Service provider	1	Item	

<u>PRELIMINARIES (Cont)</u>				
A	Note: Contractor to design and install Temporary Works to protect existing 150mm dia. foul sewer, 900mm storm sewers / pipework and all associated manholes from damage throughout construction period. Prior to any works commencing on site the Contractor shall conduct an Air / water Test and CCTV Survey to this pipeline and manholes. On completion of the works the Contractor shall conduct an Air Test and CCTV Survey to this pipeline and manholes	1	Item	
	<u>Restrictions of Working Hours</u>			
B	The Contractor shall comply with any restrictions imposed by the Planning Permission or the Law.	1	Item	
C	Normal working hours are: 08.00 - 18.00 hrs Monday to Friday inclusive. No Saturday, Sunday or Public Holiday working hours are permitted. Any works undertaken outside working hours to be notified and times agreed with the Client, Donegal County Council.	1	Item	
D	At certain times it will/ may be necessary to reduce noise levels and restrict the use of plant, contractor shall liaise with the Employer's Representative to arrange suitable times for carrying out work in this regard	1	Item	
E	Subject to any provision to the contrary contained in the Contract, no work shall be carried out during the night or on Sundays without the permission in writing of the Employer's Representative save 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	
F	If there is any occasion when works must be carried out 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	
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at An Glasan, (phase 2), Kilcar				

<u>PRELIMINARIES (Cont)</u>				
A	The Contractor shall appoint a liaison officer for all necessary communications with the Client and local residents in the surrounding areas. 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 of the Works.	1	Item	
	<u>Visiting the site</u>			
B	The Contractor is advised to visit the site and ascertain all local conditions and restrictions likely to affect the execution of the Works. No claims arising from failure to do so will be considered.	1	Item	
C	The Contractor is advised to visit the site and ascertain the facilities of access thereto, the supply of labour and materials the district will afford, and the general conveniences of working, the nature, character, dimensions, levels and other features of the site, all existing buildings thereon, and all other things insofar as they may have any connection with or affect the full and proper execution of the Works. They will be deemed to have taken all of the above matters into account when tendering, and no claim for any payment will be allowed in consequence of the Contractor's failure to do this.	1	Item	
D	The site may be inspected by arrangement with the Employer's Representative.	1	Item	
	<u>Site Restrictions</u>			
E	The site must not be used for any purpose other than carrying out the Works	1	Item	
F	The Contractor shall consult the convenience of anybody who may be affected by the work, (including tenants existing tenants at Phase 1) 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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6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		1/9		

<u>PRELIMINARIES (Cont)</u>				
A	Existing River: All work near water to be planned carefully and in advance of any works commencing. All site preparation and construction must adhere to best practice and conform with the Inland Fisheries Ireland guidance 'Guidelines On Protection Of Fisheries During Construction Works In And Adjacent To Waters' (2016) as included in the Tender Information pack. The contractor should make particular reference to the following sections of the report: - Section 4 - Timing of Instream Waters, - Section 5 - Temporary Crossing Structures on Waters - Section 7 - Construction Impacts The existing watercourse river adjoining the site is to be protected throughout the construction works with a buffer protection zone formed by temporary hoarding prior to the installation of the permanent fencing as part of the construction works. The river is to be left fully intact and undisturbed at all times and clear of all builders rubble <u>Existing Ground Conditions</u>	1	Item	
B	Encountering on the site foreseeable ground conditions or man made obstructions in the ground will not be a delay or compensation event. Any relevant site investigation reports, archaeology and / or other reports issued with the tender do not form part of the Works Requirements.	1	Item	
C	Existing trees and shrubs along rivers edge to be protected and retained during construction works	1	Item	
D	There is the presence of the INVASIVE JAPANESE KNOTWEED, on and adjacent to the site; Existing knotweed to be treated by specialist Contractor as to be commissioned and organised by the Donegal County Council. The Contractor to facilitate the appointed specialist Contractor to carry out treatment works at the site. Noting the areas of Invasive Japanese Knotweed and Exclusion s zones as per Architects Drawing 2507/09.	1	Item	
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				To Collection €

<u>PRELIMINARIES (Cont)</u>				
1.3. DRAWINGS AND OTHER DOCUMENTS				
<u>Tender Drawings</u>				
A	The Pricing Document / Bill of Quantities has been prepared on the basis of the drawings and documents listed in the Volume A Works Requirements and Appendix of the BOQ	1	Item	
B	A list of the Architects construction drawings and specifications is included in Volume A of the Works Requirements and Appendix of the BOQ.	1	Item	
C	A list of the Civil/Structural Engineer's construction drawings and specifications is included in Volume A of the Works Requirements and Appendix of the BOQ.	1	Item	
D	A list of the Mechanical and Electrical Services Engineer's construction drawings and specifications is included in Volume A of the Works Requirements and Appendix of the BOQ.	1	Item	
E	Drawings, Copies; Copies of the Drawings, specification and other Contract documents additional to those provided for in the Conditions of Contract and stated in the Work Requirements shall be provided at the Contractor's expense. Keep one copy of all up to date Contract Documents on the Site including Employer's Representative's instructions and Contractor's documents for inspection by the Employer's Representative. Return all copies of Drawings, specifications etc. to the Employer's Representative on completion of the Works	1	Item	
<u>Tender Specifications</u>				
F	Materials and workmanship specifications are included in the Works Schedule and Architects Specification.	1	Item	
<u>Pricing Document</u>				
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at An Glasan, (phase 2), Kilcar				
			To Collection €	

<u>PRELIMINARIES (Cont)</u>				
A	The Pricing Document is measured in accordance with the Agreed Rules of Measurement ARM5. Should any significant departures from ARM5 occur within this Bill of Quantities, the tenderer will be notified in the description of the item concerned.	1	Item	
B	THIS PRICING DOCUMENT IS TO BE COMPLETED IN INK. ONLY THE RELEASED VERSION (IN PDF) AND ANY REGISTERED CHANGES THERETO WILL BE ACCEPTED IN FULFILLMENT OF THE TENDERERS PRICING DOCUMENT COMMITMENTS. Tenderers are reminded that the Buildsoft Global Estimating Version (.CBX) and Excel Version are issued as an assistance tool only.	1	Item	
C	This bill of Quantities is not a specification document. It has been prepared on the basis of the 'design' information that has been produced by the Employers various designers. If there is any discrepancy between the Bill of Quantities description and the aforementioned information, the Contractor should check with the Architect and seek clarification or confirmation before ordering any materials or putting any work in hand based solely on information contained in the Bill of Quantities.	1	Item	
D	This Bill of Quantities should be read in conjunction with the designers drawings and specifications to enquire the amounts reflect all things necessary to carry out the works in accordance with the true intent and meaning of such documents.	1	Item	
E	Tenderers should note that exportation from Global Estimating to Excel is limited to a maximum of a 254 characters for each pricing document description and therefore the tenderer cannot rely on the Excel or Global Estimating Pricing Document for accuracy of tender descriptions and therefore they will not be accepted.	1	Item	

<u>PRELIMINARIES (Cont)</u>				
A	This Pricing Document (Bill of Quantities - PDF version) will form part of the Contract Documents. No alterations or qualifications of any kind may be made by the Tenderer to the text thereof. 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 cost of complying with all conditions, obligations and liabilities described in the Public Works Contract for Minor Building Works Designed by the Employer and in the Specification shall be deemed to be spread over and included in the prices stated in this Pricing Document unless expressly the subject of the specified item.	1	Item	
C	THIS PRICING DOCUMENT MUST BE SUBMITTED WITH YOUR TENDER. All items must be priced in detail and all pages extended and totted, but should any item be left unpriced, it shall be deemed to be included in the prices for other items of the Works.	1	Item	
D	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	
E	Unbalanced Tenders will be dealt with in accordance with section 8.2 of the Instructions to Tenderers issued with this tender. 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	
F	Unpriced items, costs for items which are not priced shall be deemed to be included in the priced items in the Bill of Quantities will be dealt with in accordance with section 8.3 of the Instructions to Tenderers issued with this tender.	1	Item	

<u>PRELIMINARIES (Cont)</u>				
A	The Contractor shall keep one unpriced copy of the Pricing Document on the site of the Works and the Employer's Representative or his representatives shall at all reasonable times have access to it.	1	Item	
B	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	
C	The tendering contractor must comply with the rules set out in the Instructions to Tenderers when completing Volume C - Pricing Document.	1	Item	
D	To avoid long descriptions and 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	
E	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	
F	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	
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at An Glasan, (phase 2), Kilcar				
To Collection €				

<u>PRELIMINARIES (Cont)</u>				
A	If the Contractor wishes to propose an "equivalent" product to that specified, they must adhere to the following procedures:	1		
B	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	
C	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	
D	c) The ER's approval of the "equivalent" must be issued in writing prior to the works commencing on site	1	Item	
E	Provide for all customs and excise duties and import license fees. Individual Bill of Quantity items of work shall be priced exclusive of VAT	1	Item	
F	The Employer will not remunerate Tenderers for any expenses incurred in the preparation of tenders.	1	Item	
<u>Inconsistencies between Documents</u>				
G	In the event of there being an inconsistency between documents, the tenderer shall observe the order of precedence as set out in the Conditions of Contract (ref 1.4). In the event of there being an inconsistency between figured and scaled dimensions the figured dimensions shall prevail. All apparent inconsistencies shall be raised with and clarified by the Employer's Representative before the Contractor orders materials or commences work.	1	Item	
<u>2. CONTRACT</u>				
2.1. FORM, TYPE AND CONDITIONS OF CONTRACT.				
<u>FORM OF CONTRACT.</u>				
<u>2.1.a Public Works Contract</u>				
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<u>PRELIMINARIES (Cont)</u>				
A	The Form of Contract / Articles of Agreement and Conditions of Contract shall be the "Public Works Contract for Minor Building and Civil Engineering Works Designed by the Employer" (Document Reference PW-CF5 v 2.9, dated 25 November 2025), Office of Government Procurement, Department of Public Expenditure & Reform, Government Buildings, Upper Merrion Street, Dublin 2; NOTE: this is a FIXED PRICE contract. <u>2.1b. Schedule of clause headings</u> NOTE: A schedule of clause headings is as per the Conditions of Contract. Unless specifically itemised elsewhere in these Preliminaries, any costs for or in connection with any contractual requirements or obligations arising from these clauses and schedules should be included in the Tender Price.	1	Note	
B	Generally 2.2. Public Works Contract for Building Works Designed by the Employer <u>Items within the Tender and Schedule Part 1 & Part 2 refer:</u> NOTE: Tenderer's are to refer to information contained in the Form of Tender Schedule Part 1 & Part 2. Unless specifically itemised elsewhere in these Preliminaries, any costs for or in connection with any contractual requirements or obligations arising from Schedule Part 1 & Part 2 should be included in the Tender Price.		Item	
C	Generally 2.3. RISK OF QUANTITIES <u>The risk of quantities will remain with the Employer under Schedule Part 1 K Event 17 only where such a risk is not affected by another risk that has been passed to the Contractor elsewhere under Schedule Part 1 K</u>		Item	
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<u>PRELIMINARIES (Cont)</u>				
A	The Contractor shall include a cost herein if not included elsewhere for complying in all respects with this condition as described above.	1	Item	
2.4. COMPENSATION EVENTS				
<u>2.4a. Optional Compensation Events</u>				
B	Where an optional Compensation Event item has 'No' entered against it on Part 1, Schedule K, all costs associated with the Compensation Event shall be at the risk of the Contractor	1	Item	
<u>2.4b. Determining Cost of Compensation Events in accordance with Clause 4</u>				
C	Where the cost of performing additional or substituted work is determined in accordance with Clause 4.5, all sheets giving particulars of labour, materials and plant, as described in Clause 4.7, are to be signed by the Contractors Representative or Contractors Supervisor and the Employers Representative. Such signatures are only to be taken as certifying that the time, materials and plant are correct and shall not be held to justify a claim that the work shall be so charged or that it cannot be measured and priced otherwise.	1	Item	
2.5. CONTRACTOR'S LIABILITY				
<u>2.5a. Contractors liability for risk or injury to persons and property and for damage to the works</u>				
D	The contractor shall, subject to the any other provision on the contract, be liable for risk or injury to persons and property and for damage to the works and shall indemnify the Employer in accordance with the Contract.	1	Item	
<u>2.5b. Requirement of contractor to effect insurance</u>				
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at An Glasan, (phase 2), Kilcar				
To Collection €				

<u>PRELIMINARIES (Cont)</u>				
A	Provide for taking out and maintaining Public Liability Insurances, minimum indemnity limit: €6,500,000 for any one event, but this may be on an annual aggregate basis for products liability, collapse, vibration, subsistence, removal and weakening of supports and sudden and accidental pollution. Maximum excess for Public Liability: €10,000 in respect of property damage only. There shall be no excess for death, injury illness.	1	Item	
B	Provide for taking out and maintaining Employers Liability Insurance, minimum indemnity limit: €13,000,000 for any one event . There is no excess permitted for Employer's liability insurance.	1	Item	
C	Refer to Schedule Part 1 <u>2.5c. Where Employer intends to relieve Contractor of liability</u>	1	Item	
D	Refer to Schedule Part 1 - not required <u>2.5d. BOND</u>	1	Item	
E	Obtain a guarantee bond for 12.5% of the Contract Sum from an approved insurance company for the due and proper performance and completion of the Contract. Deposit the Bond with the Architect before commencing the works. (AMOUNT OF BOND TO BE IDENTIFIED SEPERATELY IN THE GENERAL SUMMARY PAGE. DO NOT DUPLICATE PRICING. IT IS A CONDITION OF TENDERING THAT THE RECOMMENDED TENDERER WILL CONFIRM IN WRITING WITH HIS TENDER THAT THEY ARE IN A POSITION TO OBTAIN A BOND WITHIN 10 DAYS OF BEING AWARDED THE CONTRACT. OTHERWISE THE TENDER WILL BE CONSIDERED INVALID.)	1	Item	
F	Refer to Schedule Part 1 <u>2.5e. BOND, CREDIT IF NOT REQUIRED</u>	1	Item	
G	The amount shown in the tender for the guarantee bond shall be deducted from the Contract Sum if the Architect / ER / Client decides that the guarantee bond is not required.	1	Item	
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<u>PRELIMINARIES (Cont)</u>				
<u>2.5f. TAX CLEARANCE</u>				
It will be a condition for the award of the contract that a firm must be able to produce promptly a C2 or taxclearance certificate. In the case of a non-resident a statement from the Revenue Commissioners will be required. Membership of the CIF pension/sick pay scheme is also a condition precedent to the award of this contract.				
1	Item			
2.6. LOCAL AUTHORITIES FEES AND CHARGES				
<u>2.6a. Consents, notices, taxes, fees and charges</u>				
The Contractor shall pay all costs in connection with obtaining any consents, complying with notices and shall pay taxes, fees and charges in respect of road openings, water connections, ESB connections and any other utility necessary, in connection therewith, other than those that the Employer undertakes to pay for in the Works Requirements.				
1	Item			
<u>2.6b. Consents, notices, taxes, fees and charges</u>				
Garda Regulations: Ascertain and comply with the Garda regulations effecting the execution of the works.				
1	Item			
<u>2.6c. Consents, notices, taxes, fees and charges</u>				
Local Authority Approval: Obtain approval from the local authority for the location of temporary entrances, hard standings and crossings required by the works. Comply with the requirements of the local Authority regarding their maintenance and reinstatement. Pay all necessary Local Authority charges				
1	Item			
<u>2.6d. Consents, notices, taxes, fees and charges</u>				
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<u>PRELIMINARIES (Cont)</u>				
A	Local Authority Permission: Obtain permission from the local authority for all temporary hoarding and fences. Pay all fees and comply with the requirements of the Local Authority.	1	Item	
2.7. OBLIGATIONS AND RESTRICTIONS IMPOSED BY THE EMPLOYER				
<u>2.7a. Access to and possession or use of the site</u>				
B	Provide for complying in all respects with the limitations of site access as shown on the Contract / Tender Drawings	1	Item	
<u>2.7b. Limitations of working space</u>				
C	The Contractor is to confine their operations to within the site, noting the site is accessible from an existing estate service road.	1	Item	
D	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, paths, grass areas or areas planted with shrubbery occasioned through negligence or non observance of this clause.	1	Item	
E	Where work is described as outside 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	

<u>PRELIMINARIES (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 same 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, telephone cables etc and for making good any damage done thereto, by reason of these Works, to the satisfaction of the Authority concerned	1	Item	
	<u>2.7c. The use or disposal of any material found on site</u>			
B	No materials found on the site may be re-used except those specifically listed here: none listed	1	Item	
C	No sand, ballast, gravel, coal or other useful material which 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 Architect, 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	
	<u>2.7d. Hoardings, fences, screens, temporary roofs;</u>			
	The Contractor shall provide suitable secure hoardings and maintain them in a safe and proper manner			
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<u>PRELIMINARIES (Cont)</u>				
Provide temporary fencing, hoardings, planked footways, temporary roofs, guard rails as may be necessary to protect the public and others, for the proper execution of the works and to prevent unauthorised entry or trespass beyond the boundaries of the site. The hoardings shall meet the requirements of the Local Authority. No name-board(s) may be displayed on the site without the consent of the Employer who shall have absolute control and discretion as to size, specification and location, etc. The Contractor shall not take photographs, write articles for publication or cause to be issued or displayed any advertisement about the Works or any product therein nor permit such acts by others, unless expressly authorised in writing by the Employer	1	Item		
The Contractor shall provide suitable secure hoardings complete with vehicular and pedestrian access points and maintain them in a safe and proper manner. The Contractor shall erect information signage to outer perimeter to inform public of the works, design to be provided by the Architect. No other name-board(s) may be displayed on the site without the consent of the Employer who shall have absolute control and discretion as to size, specification and location, etc.	1	Item		
<u>2.7e. Site Signage, temporary name boards and advertising rights</u>				
The Contractor shall provide suitable secure hoardings and maintain them in a safe and proper manner				

<u>PRELIMINARIES (Cont)</u>				
A	Site Signage Requirements: The contractor will be required to erect a 'Housing for All' project signboard to the hoarding adjoining the site entrance in accordance with the visual identity guidelines from the DHLGH and the HFA branding document as included in the tender information pack. The location of and extent of signage is to be agreed with Architect/DCC prior to production. Refer to Site Signage Detail 148. Contractor to ensure the signage installed is in Irish and English, there is no reference of this in the document from the department but it will be expected in a Gaeltacht area.	1	Item	
B	Provide all costs in connection with the supply and installation of a external site sign; approximate size of sign board 1220mm wide x 3300mm high comprising 2 nr 100 x 100mm x 4mm, RHS steel box section uprights, 75 x 44mm treated timber rails bolted to uprights and 2 nr 100 x 100mm timber stays set in and including concrete bases; 18mm Film faced plywood backing sign board with white painted background; sign board should include the project name, the Funders details and logo, Donegal County Council details and logo, Contractors Details and logo and details of all Project Design Team and logos. All to Architect's detailed design and Donegal County Council requirements and approval. All as per ARchitects Drawing 2508/14/ - Site Signage Detail	1	Item	
C	Directional Signage; Provide and erect temporary directional signage to identify the site and its access route	1	Item	
D	Advertisements shall not be displayed on the site without the consent of the Employer's Representative / DCC	1	Item	
E	All Site signage should be bi-lingual, As Gaeilge and in English	1	Item	
	<u>2.7f. Maintenance and protection of existing services on, under or over the site</u>			
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<u>PRELIMINARIES (Cont)</u>				
A	The Contractor shall do everything necessary to avoid damage to any services on, under or above the ground, which are put at risk by the execution of the Works. The Contractor shall protect and maintain all overground and underground services encountered during the execution of the Works. The Contractor is to make good any damage at their own expense and pay any costs or charges in connection there with.	1	Item	
B	Provide for maintaining the flow in all existing drain runs at all times	1	Item	
C	Provide for protecting and maintaining all services on, under or over the Site as indicated in the Works Requirements and/or in any additional survey or information provided with this tender	1	Item	
D	Provide for all costs involved in locating, protecting and working around existing services during the Works. Assume all excavations in this regard will be carried out by hand	1	Item	
E	During the construction phases of the project the Contractor is to provide method statements with respect to services tie ins, locations and the erection of hoardings and temporary security fencing, breakthrough/connections into the existing buildings 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	
F	The Contractor shall formulate a contingency plan to ensure an immediate emergency response by the relevant bodies in the event that any services are damaged. The contingency plan must be approved in advance by the Employer's Representative and will include the names and contact numbers to effect immediate responses to restore and maintain service	1	Item	

<u>PRELIMINARIES (Cont)</u>				
A	The Contractor will advise the relevant bodies, in advance of commencing excavation or opening up work, of the dates on which such service may be at risk. Where deemed necessary the Services Engineer, a representative of the relevant authority or an emergency crew as appropriate will be in attendance where any particular service is at risk	1	Item	
B	Provide all costs in connection with carrying out surveys of all existing site services, as any record drawings of existing services are provided for guidance only and must be verified by the Contractor on site by whatever investigative means necessary. The Contractor is deemed to have allowed for all such investigation and possible delays in commencement of his excavation and other allied works in his work programme.	1	Item	
	<u>2.7g. Execution or completion of the work in any specific order or in Sections or Phases</u>			
C	Provide for the programming of the Works and update when necessary the approved construction programme	1		
D	The Contractor shall agree the order of execution of his work with the Employer's Representative before the works commence. A meeting will be arranged before the commencement of the work to discuss these requirements to enable the Contractor to prepare a programme for the works for agreement with the Employer's Representative	1		
E	The Works are to be carried out in a single phase unless otherwise stated	1		
F	The Works Programme are to be completed within 12months of starting on site.	1	Item	

<u>PRELIMINARIES (Cont)</u>				
A	When the permanent heating installation is complete, tested and ready for operation, the Employer's Representative may grant permission to the Contractor to make arrangements 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 the 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 making good to the satisfaction of the Employer's Representative; should the Contractor elect to use the permanent heating installation for the purposes described above, this shall not affect nor diminish his responsibility to maintain suitable temperature and humidity levels	1	Item	
B	ALL COSTS ASSOCIATED WITH WORKS DEEMED BY THE TENDERING CONTRACTOR TO BE NECESSARY TO BE UNDERTAKEN OUTSIDE OF NORMAL WORKING HOURS (ie. EVENINGS, WEEKENDS, HOLIDAY PERIODS, ETC.) TO BE INCLUDED IN TENDERED RATES AND PRICES. NO ADDITIONAL CONTRACTORS CLAIMS WILL BE ALLOWED FOR THESE WORKS AND ANY WORKING HOURS CARRIED OUT OUTSIDE NORMAL WORKING HOURS. <u>2.7h. Maintenance of specific temperature and humidity levels</u>	1	Item	
C	The Contractor shall control the humidity of the Works (see also item for 'Drying the Works', sub-section 4v below) <u>2.7j. Temporary accommodation and facilities for the use of the Employer</u>	1	Item	
D	Contractor to submit proposals for location for site offices and welfare infrastructure for approval by Architect/DCC prior to commencement (suggested location shown on Architects Drawing 2508/09).	1	Item	
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<u>PRELIMINARIES (Cont)</u>				
A	The Contractor shall provide a lockable office on the site for the Employer's Personnel (Clerk of Works, Resident Engineer or Supervisory Representative) not less than 4.5 x 3.5 x 2.2m, substantially made, weatherproof, draught-proof and with adequate ventilation and heating. The office shall be furnished with a table, a drawing bench, a lockable drawer, chairs, shelves and presses. The Contractor shall provide fuel and light for the office. On completion, the office shall be removed and the site made good. The Contractor shall provide suitable separate sanitary convenience for the Employer's Personnel in an appropriate place on the site and to the approval of the Employer's Representative. This 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 deodorised.	1	Item	
B	Provide suitable temporary sheds, offices, messrooms, sanitary accommodation, drying room and other buildings required for the use of the Contractor's Personnel and remove on completion.	1	Item	
C	Provide suitable fully furnished office for the Contractor's Representative and Supervisor in charge of the works and remove on completion.	1	Item	
D	provide all costs incurred in complying with all enactments, regulations and working rules in respect of work people (including those employed by nominated sub contractors) employed in connection with the works on and away from the site	1	Item	
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<u>PRELIMINARIES (Cont)</u>				
A	Provide all costs in connection with the provision of temporary offices for the use of the Employers Representative, the Engineer, the Quantity Surveyors and/or the 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, desks with lock up drawers and chairs; drawing desks, storage racks, shelving, presses and filling cabinets; 2 nr computers; phones with 1 nr phones line; include for attendances. The office shall have a boarded floor, a cylinder latch on the door. 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 all costs in connection with the provision 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 12 nr persons and shall be complete with heating, power, lighting, meeting table for (for 12 nr persons), desk with lock up drawers, chairs; filling cabinet; include for attendances. The office shall have a boarded floor, a cylinder latch on the door. On completion the office 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	
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<u>PRELIMINARIES (Cont)</u>				
A	Provide all costs in connection with the provision within the temporary meeting room of 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. <u>2.7k. Telephone and fax for the use of the Employer</u>	1	Item	
B	Provide all necessary temporary voice and data communications systems for use of the Employer and pay all fees and charges in connection therewith. 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. Provide for two internet connected PC's for the ER site office. Provide for commercial office standard ink jet printer for ER site office (to print A3 size drawings) <u>2.7l. Project Supervisor Construction Stage</u>	1	Item	
C	The Schedule Part 1C states that the Contractor is to be appointed project supervisor for the construction stage, the Contractor shall include for all costs for and in connection therewith. (AMOUNT OF PSCS TO BE IDENTIFIED SEPERATELY IN THE GENERAL SUMMARY PAGE- do not duplicate pricing).	1	Item	
D	The Contractor shall include for complying with the Safety, Health & Welfare at Works Acts and Regulations current at the date of the tender.	1	Item	
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<u>PRELIMINARIES (Cont)</u>				
A	The Contractor shall in consideration of the acceptance of his tender and by way of collateral agreement to the Main Contract, provide the services of Project Supervisor Construction Stage (PSCS) within the meaning of the Safety, Health & Welfare at Works (Construction) Regulation. The cost of the provision of this service shall be deemed to be included in the Contract Sum/ Tender.	1	Item	
B	The Contractor shall comply with all Regulations, Restrictions, Limitations and Government, HSE, HSA & CIF Guidelines in relation to COVID-19	1	Item	
C	The contractor shall include for procuring and ensuring that the insurance cover required to be obtained and maintained by the Contractor pursuant to the Main Contract shall provide indemnity in respect of any claim for bodily injury or property damage which the contract may incur by reason of the performance of the function and duties of the Project Supervisor for the construction stage of the project.	1	Item	
D	The contractor shall include for providing all necessary information to enable the preparation and completion of the Safety File including drawings and specification to the full satisfaction of the Project Supervisor for the design process of the project	1	Item	
	<u>2.7m. Quality Assurance Procedures</u>			
E	The Contractor shall (unless included elsewhere in the Pricing Document) include for any costs for or in connection with the following, as required by the Work Requirements: inspections, following quality assurance procedures, items to be inspected or tested before delivery to the site, tests to be carried out, supplying and erecting samples.	1	Item	
	<u>2.7n. Damage and Nuisance, Adjoining Property</u>			

<u>PRELIMINARIES (Cont)</u>				
A	Take all reasonable precautions to prevent damage to adjoining property and to avoid causing nuisance to adjoining occupants and to the public. Make good any damage caused to the adjoining property. The maximum permitted noise level is 85 dB. The Contractor shall provide 2Nr sound monitors on site for the duration of the Contract	1	Item	
	<u>2.7o. Damage to Roads</u>			
B	Maintain the existing roads, footpaths and paving during the Contract and make good any damage caused by site traffic or site operations.	1	Item	
	<u>2.7p. Nuisance Precautions, generally</u>			
C	Take adequate precautions to protect persons from damage or nuisance caused by water, smoke, dust, rubbish and otherwise.	1	Item	
	<u>2.7q. Permission, Adjoining Property:</u>			
D	Obtain permission from the Owner of the adjoining property if it is necessary to use that property for any purpose in connection with the Works. Indemnify the Employer against all charges arising therefrom. Contractor to liaise with the Employer and Neighbouring Contractor with regard to working around and moving site fencing along common boundary.	1	Item	
	<u>2.7r. Trespass:</u>			
E	take adequate precautions to prevent trespass on adjoining property by contractors or sub-contractor employees	1	Item	
	<u>2.7s. Testing</u>			

PRELIMINARIES (Cont)				
A	Air leakage pressure test to be carried out by independent and suitably qualified accredited air testspecialist. Test results must not exceed 0.6 airchanges per hour using a 50 pascal over-pressurisation and under-pressurisation test -5m3/hr/m2 of air leakage. Test to be carried out at the Contractors own expense. Architect to be advised in advance of the test to allow for Architect to attend test.	1	Item	
	<u>2.7t. Tax Clearance</u>			
B	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 C.2 Certificate). In the case of a nonresident, a statement from the Revenue Commissioners will be required	1	Item	
C	Furthermore, it will be the responsibility of the successful Contractor to ensure that any subcontractor employed by him on this contract, is in possession of a C.2 Certificate and to submit such certificate in each case for inspection on request.	1	Item	
D	For tax purposes, Contractors shall be deemed to be a "Subcontractor" in the context of requiring an RCT 47 (Relevant Payments Card) prior to the Client paying in full amounts certified as being due under the terms of the Contract. If the Client is not in possession of an RCT 47 for a Contractor, then it is obliged to deduct tax at the rate specified by the Revenue Commissioners from any payments made to the Contractor	1	Item	
E	The tenderer selected for award of the Contract will be required to submit a signed RCT 1 form, unless he has been granted a certificate by the Revenue Commissioners confirming the firms exemption from the need to submit a RCT 1. The original exemp0on cer0ficate shall be submitted to the client for examination	1	Item	
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<u>PRELIMINARIES (Cont)</u>				
A	Contractors shall present a valid Tax Clearance Certificate to the Client and sign an RCT 46 form (Relevant Contracts Tax - Application to Inspector of Taxes for a Relevant Payments Card) to allow for the issue of an RCT 47 to the Client	1	Item	
B	As an alternative to the presentation of a Tax Clearance Certificate, where the Contractor has notified to the tax office a bank account into which all relevant contracts payments are to be made, the Contractor may provide details of the bank account on the RCT 46 and sign same. All payments on the contract shall then be made into the nominated bank account	1	Item	
C	If a Contract is ongoing at the end of the tax year it will not be necessary for the Contractor to represent his Tax Clearance Certificate and sign a new RCT 46 if the Department already holds an RCT 47 for him. The Department will reapply to the Revenue Commissioners using and RCT 46A	1	Item	
<u>2.7u. CIF Pension Sick Pay Scheme</u>				
D	Membership of the CIF Pension/Sick Pay Scheme shall be a condition precedent to the award of this contract.	1	Item	
<u>2.7v. Bond (Schedule Part 1E)</u>				
E	A performance bond shall be required in favour of the Employer under this contract. Refer to Form of Tender and Schedule and items 2.5D and 2.5E and the General Summary of this Bill of Quantities.	1	Item	
<u>2.7w. Tendering</u>				
F	The lowest or any tender will not necessarily be accepted and no Contractor will be remunerated for any trouble or expense he may incur in the preparation of his tender.	1	Item	
<u>2.7x. Freedom of Information Act 1997</u>				

<u>PRELIMINARIES (Cont)</u>				
A	Information in relation to this tender may be made available on demand in accordance with Freedom of Information Act 1997	1	Item	
B	You are asked to consider if any of the information supplied by you in this (tender) should not be disclosed because of its sensitivity. If this is the case, you should, when providing the information, identify same and specify the reason for its sensitivity. The Employer will consult with you about sensitive information before making a decision on any Freedom of Information request received	1	Item	
C	If you consider none of the information supplied by you is sensitive, please make a statement to that effect. Such information may be released in response to a Freedom of Information request. <u>2.7y. Work by others engaged directly by the Employer</u>	1	Item	
D	not required <u>2.7z1. Building Control Regulations & Assigned Certifier</u>	1	Item	
E	For the purpose of the regulations all reference to Builder in the regulations shall be deemed to mean the Contractor. All development works must be designed and built in accordance with the Building Regulations.	1	Item	
F	The Contractor shall make provisions in his tender to facilitate all Contractor & builder requirements detailed under the Building Regulations and Code of Practice <u>2.7z2. Roles & Duties - Contractor Obligations</u>	1	Item	

<u>PRELIMINARIES (Cont)</u>				
A	a) The contractor shall undertake the role of 'Builder' as defined in BCAR and shall comply with the requirements of the 'Builder' as described in BCAR including the revised S.1.9 of 2014 (refer to the Code of Practice for Inspecting and Certifying Buildings and Works (available on websites of CIF, Engineers Ireland, ACEI, RIAI, Society of Chartered Surveyors). necessary and have regard to these in accordance with the requirements of the Building Regulations. The contractor as 'Builder' shall carry out the works in accordance with the plans and specifications of the professional design team, their specialists and sub-consultants as necessary and have regard to these in accordance with the requirements of the Building Regulations. The contractor shall comply with the requirements of the Preliminary Inspection Plan and Inspection Notification Framework as co-ordinated and agreed with the Assigned Certifier	1	Item	
B	b) All the obligations of the Contractor as set out in this document are and are to be included in the Tenders tender costs unless expressly stated otherwise in the Contract	1	Item	
C	c) Accept from the building owner (Employer) the assignment to build and supervise the works and sign the Undertaking of Builder statutory forms identified in the Commencement Notice	1	Item	
D	d) Plan and agree the execution, Inspection milestones, sequence and programme of works with the Assigned Certifier in advance of commencement of works	1	Item	
E	e) Give notice for any inspection as set out in the Inspection Notification Framework	1	Item	
F	f) The Contractor shall be responsible for all delays and cost as a result of late inspection notification or inspections which have to be repeated where works are not fully ready for inspection or unsatisfactory	1	Item	
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<u>PRELIMINARIES (Cont)</u>				
A	g) Ensure Competent Person(s) are assigned to oversee the general construction works and/or specialist works	1	Item	
B	h) Ensure that materials which they select and for which they are responsible comply with the requirements of the Building Regulations and the Construction Products Regulations	1	Item	
C	i) Provide written confirmations and supporting documentation at interim payment stages when requested to do so by the E.R. Where requested within 5 working days of a payment claim date the Contractor shall provide an ancillary certificate or test result for works for which payment is requested	1	Item	
D	j) Co-operate with the Assigned Certifier, through the E.R in the lodgement of supplementary documentation to the Building Control Authority during the course of the works and take careful note of the drawings, specifications and documents lodged with the Commencement Notice or as subsequently uploaded onto the on-line system as the works proceed	1	Item	
E	k) The contractors attention is drawn to the supplementary 'Building Control (Amendment) Regulation Guidance Note's included in the tender documents. The contractor is deemed to have included costs for all requirements there in. Said document does not supersede any obligations the contractor may have under the regulations, or costs associated with same	1	Item	

<u>PRELIMINARIES (Cont)</u>				
A	1) Tenderers are to note that all sub-contractors with a requirement to provide design ancillary certificates in compliance with the Building Control Regulations will be required to enter into a collateral warranty with the Employer. The contractor is to include herein for all costs associated with provision of said warranties. In the event that sub-contractors do not have sufficient PI insurances the contractor may apply for their works to be covered under the main contractors PI. This shall be subject to approval and acceptance of the ER	1	Item	
B	m) Please note that all references in the tender documents to 'Assigned Certifier' apply equally to any Ancillary Certifiers as may be required	1	Item	
<u>2.7z3. BCAR Certification</u>				
C	a) the Builder appointed by the Employer, shall give an undertaking to construct, to cooperate with the Assigned Certifier, and to sign the Certificate of Compliance on Completion as required under the Building Control Regulations	1	Item	
D	b) As part of this understanding, the Builder shall co-ordinate the Works of specialist subcontractors and designers and should ensure that Ancillary Certificates of compliance are provided	1	Item	
E	c) the Assigned Certifier and the Builder shall sign the Certificate of Compliance on Completion, supported by Ancillary Certificates from other members of the design team and by certificates from specialist sub-contractor	1	Item	
F	d) At Completion Stage, Sign the Certificate of Compliance (completion) with the Assigned Certifier, and fully cooperate and assist with any Completion procedure required	1	Item	
G	Commencement Stage	1	each	
H	a) Notice of Assignment of Builder by the Building Owner	1	Item	
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<u>PRELIMINARIES (Cont)</u>				
A	b) Form of Undertaking by the Builder	1	Item	
B	Construction Stage Inspection	1	each	
C	a) The Assigned certifier and other persons nominated to undertake necessary inspections will adopt an appropriate Inspection Plan which takes account of relevant factors for the builders work concerned	1	Item	
D	b) Co-operate fully with the Assigned Certifier, and assist with the formulation of the Inspection Plan and all times during the course of the works	1	Item	
E	c) Co-operate with the Assigned Certifier, through the E.R in the lodgement of supplementary documentation to the Building Control Authority during the course of the works and take careful note of the drawings, specifications and documents lodged with the Commencement Notice or as subsequently uploaded onto the on-line system as the works proceed	1	Item	
F	Inspection Notification Framework	1	each	
G	a) The Assigned Certifier shall, as part of the Inspection plan and before the commencement of work on site, agree with the Employer and the Builder an INF	1	Item	
H	b) The Contractor will identify all those elements in which the Contractor and our ancillary Certifiers are required to inspect, when they are to inspect, and if records are required. The Contractor will fully coordinate the Inspection Notification Framework within their tender program	1	Item	
J	Completion Stage	1	each	
K	a) At Completion Stage, Sign the Certificate of Compliance (completion) with the Assigned Certifier, and fully cooperate and assist with any Completion procedure required	1	Item	
<u>2.7z4. Survey</u>				

<u>PRELIMINARIES (Cont)</u>				
A	The Main Contractor is to include for a Dilapidation Survey of all public footpaths, road and pavements in advance of in advance of any Construction Works commencing on site. A full copy of this report will be issued to the Structural Engineer, The Architect and Donegal County Council for their records. The Contractor will be fully responsible for all costs of remedial works associated with any damage to these areas.			
	<u>2.7z5. Samples</u>			
B	The Main Contractor is to include the cost of providing all reasonable samples and the cost of carrying out all tests required together with any cost of supplying equipment for site testing and sampling shall be deemed to be included in the rats and scope of works quoted. Sub-Contrct packages will contain a similar requirement.	1	Item	
C	The Contractor shall supply, at his own expense, samples of all materials manufactured, articles and executed work with the Architect may request for approval before an option is give. Such approval shall not relieve th Contractor from responsibility of any defects.	1	Item	
D	Samples which have been installed in position may be retained as part of the works provided they have been approved by the Architect. Refer to and include for all samples outlined in Architects Specification Section A33.	1	Item	
E	The Contractor is to include for samples and mock ups as identified in the Service Engineers Tender Documents	1	Item	
	<u>2.7z6. Warranties / As-Built</u>			

<u>PRELIMINARIES (Cont)</u>				
A	On completion of the works, the contractor shall hand over a complete set of drawings in electronic format detailing the 'as-installed' installations that form part of the contract, together with test and commissioning certificates and confirmation that all works completed comply with all current regulations including all warranties as requested by the Employer/	1	Item	
B	Upon completion of the works the Contractors will be required to furnish the Employers Representative with a full set of 'As Built Drawings' complete in hard and soft copy format. This documentation is deemed to include all associated manuals, instructions, guarantees, etc. for inclusion in the Safety File.	1	Item	
<u>3. WORK BY OTHERS</u>				
<u>3.1. WORK BY PUBLIC BODIES</u>				
<u>Work by public bodies</u>				
C	The contractor shall include, as a lump sum, for the cost of any work to be undertaken by a Public Body in with the project	1	Item	
D	Work which is to be carried out by the Local Authority or Public Undertaking shall be so described and given as an item in the relevant section of this Pricing Document.	1	Item	
E	An item shall also be given to cover any on-costs and profit required by the contractor. This shall be treated as a Lump Sum.	1	Item	
<u>3.2. WORK BY OTHERS ENGAGED DIRECTLY BY THE EMPLOYER</u>				
<u>The following works shall be carried out by others directly engaged by the Employer</u>				
F	A description shall be given of work by others directly engaged by the Employer.	1	Item	
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<u>PRELIMINARIES (Cont)</u>				
A	Any attendance required.	1	Item	
	3.3. Work by Specialist Works Contractors, Work by Utility Providers and Work by Others Engaged Directly by the Employer			
	<u>3.3.1 Work by Specialist Works Contractors</u>			
B	None	1	Item	
C	Work which is required to be carried out by other specialists shall be measured in accordance with the appropriate requirements of these rules ARM5 unless an alternative method of including Specialist work is being used. Details of the alternative method shall be given	1	Item	
	<u>3.3.2 Work by Utility Providers</u>			
D	Work which is to be carried out by a Statutory Authority, Public Undertaking or Public or Private Utility Providers shall be so described and measured in accordance with the appropriate requirements of these Rules.	1	Item	
	<u>3.3.3 Work by others Engaged by the Employer</u>			
E	An item shall be provided for work by others directly engaged by the Employer. Any additional work required to be carried out by the Contractor shall be described and measured in accordance with the appropriate requirements of these Rules.	1	Item	
	<u>4. GENERAL FACILITIES AND OBLIGATIONS</u>			
	<u>4.A. SUPERVISION AND CO-ORDINATION OF THE WORKS</u>			
F	The Contractor shall ensure that there are at all times on the site sufficiently suitably qualified and experienced staff to supervise all work carried out and to advise and assist the Employer in taking possession of the Works.	1	Item	
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<u>PRELIMINARIES (Cont)</u>				
A	The contractor will be required to provide suitably experienced, skilled and qualified key personnel for the project as outlined below. All the key personnel are required to be fully competent to fulfil the assigned role. Such competency may be demonstrated by providing examples of previous experience (in that role) of work of a similar nature and size satisfactorily completed, and training/qualifications appropriate to that function.	1	Item	
B	Health and Safety Manager The Health & Safety Manager (who may be the same person as the Contracts Manager and/or foreman) must have: Externally accredited Health and Safety training and qualifications. At least 8 years dedicated experience in managing Health and Safety on construction projects of similar size, nature and will accept the role by signing a separate appointment model form	1	Item	
C	Project Supervisor Construction Stage (PSCS) The PSCS (who may be the same person as the foreman or Site Safety Officer) must have Externally accredited Health and Safety training and qualifications. At least 5 years experience in Managing Construction Projects/Works of a similar size, nature and complexity.	1	Item	
D	Site Foreman/Site Manager The Foreman must have: A construction trade qualification, At least 10 years experience in managing construction projects. This must include minimum 5 years experience in residential construction projects of similar size, nature and complexity, with experience in managing and supervising sub-contractors and having appropriate relevant health and safety training and experience.	1	Item	

<u>PRELIMINARIES (Cont)</u>				
A	Site Safety Officer The Site Safety Officer (who may be the same person as the Foreman or PSCS) must have: At least 5 years experience in the Building Trade, Either a degree/diploma or other equivalent H&S training or must have at least 3 years acting in the capacity of Site Safety Officer on major building construction projects.	1	Item	
B	The Contractor shall comply with all Regulations, Restrictions, Limitations and Government, HSE, HSA & CIF Guidelines in relation to COVID-19	1	Item	
C	The Contractor shall provide for the entire supervision and the coordination of the works in accordance with the contract.	1	Item	
4.B. PLANT, TOOLS AND VEHICLES				
D	The Contractor shall bring to site, install and remove on completion all plant, tools and vehicles required for the Works. The Contractor shall maintain all the foregoing plant, tools and vehicles for the duration of the Works.	1	Item	
E	All plant, tools, vehicles and equipment required for the execution of the works which shall comply with all applicable statutory requirements	1	Item	
F	Provide each week for the Employer's Representative a daily return of the number, type and capacity of all plant excluding hand tools and scaffolding, currently in operation on the works	1	Item	
4.C. SCAFFOLDING				
G	The Contractor shall bring to site, erect, adjust and remove on completion all scaffolding required for the Works. The Contractor shall maintain all scaffolding for the duration of the works.	1	Item	

<u>PRELIMINARIES (Cont)</u>				
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 Safety Health and Welfare at Work (Work at Height) Regulations 2013	1	Item	
	4.D. SITE ADMINISTRATION INCLUDING THE PROVISION AND KEEPING OF ALL STATUTORY RECORDS			
B	The Contractor shall be responsible for the entire administration of the site and the Works. The Contractor shall be responsible for the provision and keeping of all statutory records pertaining to the site and the Works.	1	Item	
C	The Contractor shall comply with all Regulations, Restrictions, Limitations and Government, HSE, HSA & CIF Guidelines in relation to COVID-19	1	Item	
	4.E. SECURITY AND PROVISION OF CLEARLY IDENTIFIABLE SITE PERIMETERS AND SURROUNDINGS			
D	The Contractor is to provide for clearly identifying the site perimeters and surroundings for the full duration of the work	1	Item	
E	The Contractor shall provide 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, in accordance with all statutory requirements	1	Item	
	4.F. PROVISIONS FOR THE 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			
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<u>PRELIMINARIES (Cont)</u>				
A	The Contractor shall provide for the protection of the public from site operations and shall provide arrangements for the protection of third parties and visitors to the site in accordance with all statutory requirements.	1	Item	
4.G. TRANSPORT FOR WORK PEOPLE				
B	The Contractor shall provide transport to and from the site and in and about the Works as necessary.	1	Item	
4.H. PROTECTING THE WORKS FROM INCLEMENT WEATHER				
C	The Contractor shall protect the Works against damage from inclement weather	1	Item	
D	The Contractor shall protect the Works and Factory/Tenant contents and existing finishes against damage from inclement weather taking into consideration the nature and the phasing of the works which will include replacing roof coverings and roof lights	1	Item	
4.I. WATER FOR THE WORKS				
E	The Contractor shall provide clean fresh water for use on the Works, and pay all costs and charges inconnection therewith, provide all temporary storage and plumbing services and clear away and make good on completion	1	Item	
4.J. TEMPORARY LIGHTING AND POWER FOR THE WORKS				
F	The Contractor shall provide electricity for use on the Works and pay all costs and charges in connection there with. All temporary installations are to be cleared away and made good on completion.	1	Item	
4.K. TEMPORARY ROADS, HARDSTANDINGS, CROSSING AND SIMILAR ITEMS				
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<u>PRELIMINARIES (Cont)</u>				
A	The Contractor shall provide all necessary temporary roads, entrances and gates, hard standings, crossings and the like, and shall maintain during the course of the Contract and remove and make good on completion 4.L. TEMPORARY ACCOMMODATION FOR THE USE OF THE CONTRACTOR	1	Item	
B	The Contractor shall provide and maintain all necessary temporary office accommodation for their use including an office for the Foreman or Site Agent in charge of the Works, with telephone, and remove and make good on completion. The Contractor shall provide suitable accommodation for the holding of site meetings with a table for up to 15 people and 15 chairs. The Contractor shall clear away and remove from site on completion any temporary accommodation and make good any areas disturbed. 4.M. TEMPORARY STORAGE AREAS	1	Item	
C	The Contractor shall provide watertight storage areas for materials and tools, including suitable and separate storage for dangerous materials or substances, in positions to be agreed with the Project Supervisor Construction Stage. The Contractor shall clear away and remove from site on completion any temporary storage facilities, make good any areas disturbed and deodorise the site where necessary. 4.N. TEMPORARY TELEPHONES FOR THE USE OF THE CONTRACTOR	1	Item	
D	The Contractor shall provide temporary telephone and fax for their own use and so that they may be contacted on the site and pay all costs and charges in connection therewith. 4.O. TRAFFIC REGULATIONS	1	Item	
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<u>PRELIMINARIES (Cont)</u>				
A	The Contractor shall ascertain and comply with any Traffic Regulations, Local Authority and or Garda Restrictions affecting the execution of the Works including any road closure, alternative route restrictions, the provision of signs and the effects of parking restrictions. The Contractor shall pay all costs and charges in connection there with.	1	Item	
4.P. WELFARE FACILITIES FOR WORK PEOPLE				
B	Welfare facilities for work people shall be in compliance with the Safety, Health and Welfare atWork (Construction) current Regulations	1	Item	
4.Q. SAFETY, HEALTH AND WELFARE AT WORK PROVISIONS				
C	The Contractor shall comply with all Health and Safety at Work provisions as required under the contract. In accordance with the Agreed Rules of Measurement, the following are listed separately:	1	Item	
D	The Contractor shall provide for: The operation of the requirements of the 'Safe Pass' and 'Construction Skills Certificates' schemes, Safety officers and all safety supervisors, first-aiders, inspectors and certifiers required, Tests and certificates on plant and equipment, Safety signs and signals, Provision of personal protective clothing and personal protective equipment, Provision and maintenance of emergency routes and exits and designated personnel responsible for emergency procedures, Energy distribution installations, Temporary fire detection and fire fighting systems, Maintenance of appropriate working conditions and work stations, Provision and maintenance of on-site traffic routes, Provision of first aid equipment and first aid room as appropriate	1	Item	

<u>PRELIMINARIES (Cont)</u>				
A	The Contractor shall comply with all Regulations, Restrictions, Limitations and Government, HSE, HSA & CIF Guidelines in relation to COVID-19	1	Item	
	4.R. DISBURSEMENTS ARISING FROM THE EMPLOYMENT OF WORKPEOPLE			
B	The Contractor shall comply with all the 'Pay and Conditions of Employment' clauses in the Form of Contract.	1	Item	
	4.S. MAINTENANCE OF PUBLIC AND PRIVATE ROADS			
C	The Contractor shall record the condition of any public or private roads and footpaths adjacent to the site insofar as affected by the Works. The Contractor shall repair and make good any of these roads and footpaths damaged as a result of the works.	1	Item	
	4.T. REMOVING RUBBISH, PROTECTIVE CASINGS AND COVERINGS AND CLEANING THE WORKS ON COMPLETION			
D	The Contractor shall from time to time as it accumulates remove any rubbish, protective casings and coverings and the like, and on completion of the works remove all plant, surplus materials and rubbish from the premises and leave them in a clean and proper state throughout. Skips shall be properly protected against wind dispersal of materials and be clearly marked to avoid creation of a hazard either by day or night. They shall be removed and replaced whenever filled.	1	Item	
	4.U. COMPLIANCE WITH WASTE MANAGEMENT STATUTORY REQUIREMENTS			

<u>PRELIMINARIES (Cont)</u>				
A	The Contractor shall include for complying with all waste management statutory requirements and costs of complying with the Waste Management (licensing) Regulations 2004 and Waste Management (Landfill Levy) Regulations 2008, and shall include for all levies and charges in connection therewith. Prior to commencement on site, the Contractor shall submit a Waste Management Plan for removal, disposal and management of all waste arising from demolitions, for the written approval of the Employer's Representative. Such plan shall include, inter alia: list of wastes and quantities likely to arise as a result of the demolition works, into the following categories: (1) Non-hazardous, non re-usable wastes, (2) Hazardous wastes, including asbestos, (3) Non-hazardous, recyclable / re-usable waste. The Contractor shall supply the following, (a) Details, including name and address of all proposed waste removal contractors, including a copy of each contractor's waste collection permit, (b) Details (address) of disposal / recovery locations, authorised in accordance with the Waste Management Acts, (c) A method statement for the removal and disposal of asbestos-containing materials, if any	1	Item	
B	The Contractor is to comply with all current legislation and guidelines governing the disposal of all materials, plant, equipment, products, finishes, completions etc. from the site. Any claims arising from proper disposal of waste from the site for the project shall not be entertained.	1	Item	
C	The Contractor is to comply with all current legislation and guidelines governing the disposal of all materials, plant, equipment, products, finishes, completions etc. from the site. Any claims arising from proper disposal of waste from the site for the project shall not be entertained. 4.V. DRYING THE WORKS	1	Item	
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<u>PRELIMINARIES (Cont)</u>				
A	The Contractor shall provide for all equipment and fuel for drying and controlling the humidity of the building. The heating plant may be used for this purpose but if so used the Contractor shall pay for all fuel used and have the installation tested and recommissioned and shall hand it over in perfect condition on Substantial Completion of the work. 4.W. 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	1	Item	
B	The Contractor shall provide all necessary items and remove on completion 4.X. CONTROL OF NOISE, POLLUTION AND COMPLIANCE WITH STATUTORY OBLIGATIONS	1	Item	
C	The Contractor shall comply with all statutory obligations in relation to the control of noise and pollution. The Contractor shall take all necessary precautions to avoid the dispersal of dust and pollution to other areas within the property not directly involved with construction works. The Contractor is to install, maintain for the duration of the Works and remove on completion, all dust proof screens necessary or as required for the Works. The Contractor shall be deemed to have ascertained all local conditions and restrictions likely to affect the execution of the Works in this regard. 4.Y. PROTECTION OF THE WORKS	1	Item	
D	The Contractor shall provide for protecting the completed Works from any damage whatsoever including providing, maintaining and subsequently removing any necessary protective casings or the like and shall leave the Works clean, undamaged and fit for immediate occupation to the satisfaction of the Employer's Representative.	1	Item	
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<u>PRELIMINARIES (Cont)</u>				
A	In accordance with the rules of the method of measurement for the Works, protection items for all buildings should be priced against the Trade Sections listed hereunder: Protection of the individual floor finishes has not been listed out separately but should be priced against the floor, wall and ceiling finishing Trade Section; Demolition and Alterations; Excavation and Earthwork; Concrete Work; Brickwork and Blockwork; Stonework; Roofing, Cladding and Waterproofing; Woodwork; Steelwork; ; Metalwork; Mechanical & Lift Installations; Electrical Installations; Floor, Wall and Ceiling Finishings; Glazing; Painting and Decorating; Drainage; Surface Pavings, Fencing and Landscaping; Fittings, Equipment and Furniture; Specific protections required N/A; Any other general facilities and obligations - N/A <u>Site Security</u>	1	Item	
B	The Contractor shall note that the cost of any site security required for the duration of the works will be borne by the Contractor. Generally provide for safe guarding the works, materials, and pant against damage, theft, trespass and interference, etc., including the provision of all necessary lighting etc. for the security of the works and protection of the public.	1	Item	
C	It is important that the works are properly secured at night and at weekends. The CONtrcot is to ensure that no unauthorised persons are allowed on site at any time. Provide shelter and heat for any watchmen so required.	1	Item	
D	4.Z. MATERIAL			
E	Material Returns; Provide each week for the Employer's Representative a daily return showing the quantity, description and source of materials brought on or off site	1	Item	
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<u>PRELIMINARIES (Cont)</u>				
A	Manufacturers' Certificates; Provide in respect of Work's items manufacturers certificates of compliance with standard when requested by the Employer's Representative and provide him promptly with particulars about the mode, place and time of manufacture, the source of supply and the performance capabilities of these items as Spec A33.120	1	Item	
B	Quality Assurance; Establish quality assurance procedures as required by the Works Requirements including procedures for establishing quality assurance systems for the main contractor and subcontractors. The quality assurance procedures should be reflected in appropriate quality assurance plans submitted to the Employers Representative and provide him with copies of all reports prepared in accordance with those procedures	1	Item	
C	Quality Assurance; Establish quality assurance procedures as required by the Works Requirements including procedures for establishing quality assurance systems for the main contractor and subcontractors. The quality assurance procedures should be reflected in appropriate quality assurance plans submitted to the Employers Representative and provide him with copies of all reports prepared in accordance with those procedures	1	Item	
D	Quality Assurance; Establish quality assurance procedures as required by the Works Requirements including procedures for establishing quality assurance systems for the main contractor and subcontractors. The quality assurance procedures should be reflected in appropriate quality assurance plans submitted to the Employers Representative and provide him with copies of all reports prepared in accordance with those procedures	1	Item	
4.AA. LABOUR				

<u>PRELIMINARIES (Cont)</u>				
A	Provide for all costs in respect of labour including costs of, for example; Social Welfare Acts, Conditions of Employment Acts Insurance, (Intermittent Employment) Act, Holiday (Employers) Act, Redundancy Payments Acts, Industrial Training Acts, Factories Act (Safety, Health and Welfare) Building Regulations, Travelling time, expenses, fares, transport, Guaranteed time, Non-Productive overtime and other expenses in Connection with overtime Incentive and bonus payments, Construction Industry Pension and Sick Pay Scheme, Country Money, SOLAS Levy, Working Rule Agreement, Safety Policy on Site	1	Item	
B	Labour Returns; Give the Employer's Representative each week a daily return of the number and description of tradesmen and general labourers employed on the Works including those employed by sub-contractors listed separately Keep proper records in accordance with subclause 5.3.3.(5) and keep available for inspection by the Employer	1	Item	
C	Construction Industry Pension and Sick Pay Schemes; The successful tenderer must be fully paid up member of the Construction Industry pension and sick pay schemes. A tenderer asked to do so shall promptly submit contribution receipts or other evidence of membership acceptable to the Employer. Any tenderer unable to provide such evidence may be deemed to have withdrawn his tender. The contractor shall remain in membership of the schemes for the duration of the contract	1	Item	
4.BB. OPERATION AND MAINTENANCE MANUAL				

<u>PRELIMINARIES (Cont)</u>				
A	The Contractor shall provide all manuals, certificates, maintenance contracts etc. to the Employer at Practical Completion of the Works for all aspects of the Contract to 'As Installed' drawings. These shall be marked up, amended, etc. by the Contractor to detail all work as it is, installed and shall, together with two sets of prints and one set of softcopy drawings, in electronic form on CD Rom to AutoCAD 2013 format and PDF, be included in the Operation and Maintenance Manual	1	Item	
B	The M&E engineering installations shall be fully tested, including records sheets and completion / commissioning certificates. Valves/Circuits are to be labelled and charts provided	1	Item	
C	The Contractor shall take suitable records of all tests and on completion of each test shall provide duplicate copies of the test report to the Consulting Engineer	1	Item	
D	The Operation and Maintenance Manual shall be bound and all information typed within it. It shall consist of, but shall not be limited to: Introduction, Health & Safety, General description of installed services by Contractor, Maintenance Procedures, Equipment & Plant Schedules, Guarantees, warranties and maintenance agreements: obtain from suppliers, subcontractors and manufacturers. Details/manufacturers data for installed equipment, CE Certs for all installed materials/equipment, Completion Certs and Commissioning Reports, 'As Installed' Drawings	1	Item	
4.CC. TESTING				
<u>Contractor shall be responsible for the cost of all testing, laboratory reports, professional geologist reports and delivering of the samples/blocks to the laboratories</u>				
Quality Assurance and Testing (Where not contained in the Specifications):				

<u>PRELIMINARIES (Cont)</u>				
A	a. Tests: see clause 8.4 The contractor carry out all necessary tests including the following tests from a reputable and independent source/laboratory in the presence of the Employer's Representative and at appropriate stages during the course of construction of the works as per Donegal County Council Specification Details e.g.:	1	Item	
B	Test Suite A; Simplified Petrography (preparation, examination, imaging and report) 1 no. thermal block pre-start, 1 no. rising wall block pre-start, 1 no. 215 x 100 x 440mm block pre-start; 3 no.	1	Item	
C	Test Suite B; Detailed Thin Section Petrography (thin section preparation, examination, imaging and report) 1 no. thermal block pre-start, 1 no. rising wall block pre-start, 1 no. 215 x 100 x 440mm block pre-start; 3 no.	1	Item	
D	Test Suite C; SEM-EDX (examination & imaging - min. 3 fields of view)) 1 no. thermal block pre-start, 1 no. rising wall block pre-start, 1 no. 215 x 100 x 440mm block pre-start; 3 no.	1	Item	
E	Physical tests; (Compressive Strength Tests) 3 no. blocks pre-start and 3 no. blocks mid construction; 6 no.	1	Item	
F	Chemical Tests; (Cement Content, Total Sulphur Content, Acid Soluble Sulphates, Water Soluble Sulphates and Oxidisable Sulphides) 3 no. blocks pre-start; 3 no.	1	Item	
G	Professional Geologist Report; Professional Geologist Report - 1 no. report pre-start; 1 no.	1	Item	
H	Concrete tests including slumps, strength and weight	1	Item	
J	Bitmac Samples tests	1	Item	
K	Quality Standards/Control as per DCC Specification A33, The Contractor is required to engage a qualified and competent land surveyor for Setting Out, please refer to Clause A33/120 and also to Clause A37/120 "As Built Drawings"	1	Item	
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<u>PRELIMINARIES (Cont)</u>				
A	BER testing as per DCC specification A40/400	1	Item	
B	Radon testing as per DCC specification P30/560	1	Item	
C	Spillage Test refer to Testing of Aggregates	1	Item	
D	Testing of Aggregates used for Bound and Unbound Material (Inspection / Certification / Testing): The EU Construction Products Regulations require an initial and ongoing inspection of the quarry and the factory production control system and approved by a notified factory production control Certification Body. All aggregates must be assessed and tested by accredited laboratories. The results of the above assessments and testing have to be reviewed by a Professional Geologist qualifying as a Competent Person. Compliance with the test requirements of the following relevant standards and suitability for use in the following products is required : ITT Series 500, 600 and 800 unbound fill materials. SR21:2016 Annex E Guidance on the use of I.S.EN 13242:2002 + A1:2016 aggregates for unbound and hydraulically bound materials. S.R. 16 Guidance on the use of I.S. EN 12620:2002 Aggregates for concrete products. S.R. 17 Guidance on the use of I.S.EN 13043 :2002 Aggregates for bituminous bound aggregate products. S.R. 18 Aggregates for Mortar. Masonry Blockwork Testing; Blockwork Testing ; Refer TO Engineers Specification	1	Item	
E	The Contractor will be responsible for the cost of all testing, laboratory reports, professional geologist reports and delivering of samples / blocks to the laboratories	1	Item	

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<u>PRELIMINARIES (Cont)</u>				
A	30 no blocks in total to be tested - 15 no blocks should be taken from the depot of the supplier in advance of commencement, 15 no blocks should be taken during the build and tested. If the Contractor changes supplier, 30 no further tests will be required at the Contractor's own cost	1	Item	
B	Donegal County Council must approve the laboratories to be used and the professional geologist, the professional geologist must carry a minimum of €2.6 Million PI Insurance Simplified Petrography	1	Item	
C	Preparation, examination, imaging and report on 1 no thermal block pre-start, 1 no rising wall block pre-start. 1 no 215 x 100 x 440mm block pre-start, 1 no thermal block mid construction, 1 no rising wall block mid construction and 1 no 215 x 100 x 450mm block mid construction Detailed Thin Section Petrography	1	Item	
D	Thin Section Preparation, examination, imaging and report on 1 no thermal block pre-start, 1 no rising wall block pre-start, 1 no 215 x 100 x 440mm block pre-start, 1 no thermal block mid construction, 1 no rising wall block mid construction and 1 no 215 x 100 x 450mm block mid construction SEM-EDX	1	Item	
E	Examination and imaging - min 3 fields of view, 1 no thermal block pre-start, 1 no rising wall block pre-start, 1 no 215 x 100 x 440mm block pre-start, 1 no thermal block mid construction, 1 no rising wall block mid construction and 1 no 215 x 100 x 450mm block mid construction Physical Tests	1	Item	
F	Compressive Strength Tests; 3 no blocks pre-start and 3 no blocks mid construction	1	Item	

<u>PRELIMINARIES (Cont)</u>				
Chemical Tests				
A	Cement Content, Total Sulphur Content, Acid Soluble Sulphates, Water Soluble Sulphates and Oxidisable Sulphides; 3 no blocks pre-start and 3 no blocks mid construction	1	Item	
Professional Geologist Report				
B	Professional Geologist Report; 13 no report pre-start and 1 no report mid construction	1	Item	
Aggregates for concrete and concrete products, performance requirements in addition to the performance requirement in current Irish Standards				
C	The Main Contractor is to include for all cost associated with additional performance requirement for all aggregates used in concrete and concrete products as outlined in the Tender Specifications. Contractor to arrange for testing of all aggregates to be used in concrete and concrete products by an accredited laboratory with a professional geologist, to demonstrate compliance of all aggregate types, with the requirement of I.S. EN 12620:2002+A1:2008 and SR 16 and the above performance requirements. Professional Geologist shall confirm (without caveats) the following: "The aggregate used in concrete and concrete products are suitable for the proposed end use, being concrete and concrete products and comply with the requirements of I.S. EN 12620:2002+A1:2008 and SR 16 and the above performance requirements"	1	Item	
Unbound Granular Aggregates (Fill) for use under concrete floors and footpaths				

<u>PRELIMINARIES (Cont)</u>				
A	The Main Contractor is to include for all cost associated with additional performance requirement for all Unbound Granular aggregates (Fill) for use under concrete floor and footpaths as outlined in the Tender Specifications. On completion of the geological , chemical and petrographic assessment, the professional geologist must provide a comprehensive conclusion. The conclusion of the professional geologist shall confirm (without caveats) the following: "The Unbound granular aggregate (Fill) is suitable for use under concrete floor and footpaths and comply with the requirements of I.S. EN 13242:2002+A1:2007 and SR 21:2014 + A1:2016" Certificate with test results and report from an independent professional geologist to demonstrate compliance with these specification requirements shall be provided by the Contractor to the Employer in advance of delivery of any A.R. 21 Annex E Aggregate to site. Drainage and Water Mains Testing	1	Item	
B	CCTV survey records of all sewer and surface water drainage pipe works	1	Item	
C	Pressure tests of water supply mains and internal water supply piping for the buildings and main sewer lines	1	Item	
D	Existing Surface Water Drainage; General clearance; clean and power jet all existing storm water drainage and manholes at An Glasan Phase 1, all to final discharge manhole	1	Item	
E	Existing Surface Water Drainage; General clearance; provide a cctv survey of all existing storm water drainage and manholes at An Glasan Phase 1, all to final discharge manhole	1	Item	
F	Existing Foul Water Drainage; General clearance; clean and power jet all existing foul water drainage and manholes at An Glasan Phase 1, all to final discharge manhole	1	Item	

<u>PRELIMINARIES (Cont)</u>				
A	Existing Foul Water Drainage; General clearance; provide a cctv survey of all existing foul water drainage and manholes at An Glasan Phase 1, all to final discharge manhole	1	Item	
	AIR TIGHTNESS AND THERMAL CONTINUITY TESTING			
B	Contractor will be responsible for the cost associated with air tightness / air pressure testing and certification in accordance with Architects specification	1	Item	
C	Donegal County Councils requirements to achieve air tightness and thermal continuity; Refer to Specification A40.50, 100, 110, 110A, 130, 140, 150 160, 200 & 300 refers	1	Item	
D	Thermal Conductivity including the specified u-values for this project as per DCC Specification A40 (Requirements to Achieve Air Tightness and Thermal Continuity). Please also refer to M.& E. Specification	1	Item	
E	Airtightness including air permeability pressure testing as per DCC specification A40/100	1	Item	
F	Air leakage pressure test to be carried out by independent and suitably qualified accredited air test specialist. Test results must not exceed 0.6 airchanges per hour using a 50 pascal over-pressurisation and under-pressurisation test -5m3/hr/m2 of air leakage. Test to be carried out at the Contractors own expense. Architect to be advised in advance of the test to allow for Architect to attend test.	1	Item	
	BUILDING ENERGY RATING (BER) CERTIFICATION			
G	Contractor will be responsible for the cost associated with BER testing and certification in accordance with Architects specification	1	Item	
H	BER Testing as Specification A40.400	1	Item	

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<u>PRELIMINARIES (Cont)</u>				
SOUND / ACOUSTIC TESTING				
A	Contractor will be responsible for the cost associated with Sound / Acoustic Testing and certification in accordance with Architects specification	1	Item	
B	Sound / Acoustic Testing as Specification A40.401	1	Item	
VENTILATION TESTING				
C	Contractor will be responsible for the cost associated with Ventilation Testing and certification in accordance with Architects specification	1	Item	
D	Ventilation Testing as per Architects Specification	1	Item	
RADON TESTING				
E	Contractor will be responsible for the cost associated with Radon Testing and certification in accordance with Architects specification	1	Item	
F	RADON Testing as per Architects Specification P30.560	1	Item	
CBR / LOAD BEARING PLATE TESTING				
G	Contractor will be responsible for the cost associated with Load Bearing Plate Tests in accordance with the Civil & Structural Engineers Specification. Include all mobilisation of testing Engineer and Equipment	1	Item	
H	PLATE BEARING Testing as per Civil / Structural Engineers Specification	1	Item	
HYDRANT FLOW TESTING				
J	Contractor will be responsible for the cost associated with Hydrant Flow Tests in accordance with the Architects Specification A.50. Hydrant flow test to fire hydrants to meet DCC fire departments requirements	1	Item	
K	Hydrant Flow Testing as per Architects Specification A50	1	Item	
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<u>PRELIMINARIES (Cont)</u>				
GENERAL TESTING				
A	Contractor will be responsible for the cost associated with any other testing as outlined in the tender specification	1	Item	
SUNDRIES				
B	The Contractor to include for any other items necessary to complete the works			
C	--	1	Item	
D	--	1	Item	
E	--	1	Item	
4.DD. PROGRAMME				
F	IT IS A CONDITION OF TENDERING THAT THE CONTRACTOR SHALL SUBMIT WITH THEIR TENDER A DETAILED PROGRAMME FOR THE WORKS AND METHOD STATEMENTS OUTLINING HOW THE WORKS ARE TO BE CARRIED OUT .	1	Item	
G	Prepare a detailed programme in bar chart form for the completion of the works within the Contract period. The programme submitted must be a detailed programme containing, among other things, such information as labour force requirements, including that for subcontractors, material delivery schedules, material ordering schedules information flow requirements, list of proposed domestic subcontractors and suppliers etc.	1	Item	
H	This programme must be submitted prior to the placing of the contract and will be viewed as an essential part of and reflect the programme submitted with the overall tender. Provide the fully contract compliant programme before the start date	1	Item	

<u>PRELIMINARIES (Cont)</u>				
A	Upon the signing of the contract this programme will become a part thereof, and must be rigidly adhered to	1	Item	
B	Submission of this programme will not relieve the contractor of his obligations to notify and apply in writing for instruction, as required by the Conditions of Contract	1	Item	
C	Programme, Copies to the Architect; Provide eight copies of the programme for the Employer's representative within one week of the date of the issue of the Letter of acceptance of the tender. Keep one further copy available for inspection in the site office	1	Item	
D	Programme, Updating; Provide for the cost of all reviews and updates of the programme when the most recent version submitted does not correspond with actual or reasonably projected progress or the Contractor's obligations and when so directed by the Employer's Representative at monthly intervals, and modify to take account of circumstances which have affected the programme. Provide two copies of the revised and updated programme to the Employer's representative	1	Item	
4.EE. PROGRESS RECORDS				
E	Provide an up-to-date record progress reports at monthly intervals in accordance with the contract conditions and as set out in the Works Requirements. Display progress on the site office copy of the progress chart	1	Item	
4.FF. PROGRESS MEETINGS				

<u>PRELIMINARIES (Cont)</u>				
A The Contractor's Representative, or a responsible official from his organisation, shall attend progress meetings which will be held at monthly/fortnightly (as appropriate to the stage of the works) intervals and any other special meetings called by either the Employer's representative or the Contractor's Representative to discuss particular issues. Inform such sub-contractors and suppliers as are necessary that their attendance at progress meetings shall be required	1	Item		
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PRELIMINARIES**Carried to Summary**

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BILL NO. 2

BUILDING WORKS – HOUSE TYPE 19

<u>(19) SUBSTRUCTURE</u>				
<u>EXCAVATING AND EARTHWORK</u>				
Excavation				
A	Work in this element comprises			
B	All descriptions are to be read with the drawings and specification (see separate document) referred to in the Bills of Quantities; All workmanship clauses and those of a general nature are deemed to be included	Note		
C	Design, detailing and construction of temporary works is the sole responsibility of the Contractor. Include for any temporary works costs associated with the substructure within the rates below.	Note		
D	Allow for protection to existing hard surfaces outside the boundary of the site. Any damage to public areas by the Contractor to be reinstated at the expense of the Contractor.	Note		
E	Temporary diversions of existing services installations to facilitate the construction of the works are not measured. The Contractor is deemed to have included within his rates for all costs associated with temporary diversions/service relocations that are required in order to complete the works	Note		
F	Rock is defined as any materials met within excavation which is of such size or position that it can only be removed by means of wedges, special plant or explosives.	Note		
G	The Contractor shall allow for all double handling of excavated material, fill material, concrete and all materials as necessary to complete the works in accordance with the Engineers drawings and specification.	Note		
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<u>(19) SUBSTRUCTURE (Cont)</u>				
<u>(Cont) EXCAVATING AND EARTHWORK</u>				
<u>(Cont) Excavation</u>				
A	The Contractor is deemed to have visited the site prior to tendering and fully acquainted himself with all conditions affecting the execution of the works including local conditions, access to the site and to the works and all other matters that may affect his tender. The Contractor will be deemed to have included for all costs arising from the foregoing in his tender.		Note	
	Excavating foundation trenches to receive trench fill concrete; starting from reduced level			
B	between 2.00 and 4.00 metres depth	68	m3	
	Excavating foundation trenches; starting from reduced level			
C	not exceeding 2 m deep	74	m3	
D	<u>extra over</u> for excavating around existing services; crossing excavations; foul and storm drainage runs	1	Item	
E	<u>extra over</u> breaking out existing; rock	10	m3	
	Disposal of excavated material;			
F	Off site	142	m3	
	Disposal of water			
G	Ground	1	Item	
H	Surface	1	Item	
	Working space excavations			
J	To faces of excavation; maximum depth less than or equal to 1.0m, distance between opposing faces not exceeding 2.0m	104	m2	
	Filling; hardcore ; imported to beds; average thickness Filling; T1 Fill; all in accordance with the Structural Engineer's specification and drawings; in layers not exceeding 150mm; compacted with vibrating roller			
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<u>(19) SUBSTRUCTURE (Cont)</u>				
<u>(Cont) EXCAVATING AND EARTHWORK</u>				
(Cont) Filling; hardcore ; imported to beds; average thickness Filling; T1 Fill; all in accordance with the Structural Engineer's specification and ...				
A	Not exceeding 0.25m	40	m3	
Filling; hardcore ; imported to beds; average thickness Filling; T2 Permeable Fill as SR21; 2014 + A1: 2016 Annex E all in accordance with the Structural Engineer's specification and drawings; in layers not exceeding 150mm				
B	Not exceeding 0.25m	36	m3	
Filling; hardcore ; imported to excavations; average thickness Filling; T2 Permeable Fill as SR21; 2014 + A1: 2016 Annex E all in accordance with the Structural Engineer's specification and drawings; in layers not exceeding 150mm				
C	Exceeding 0.25m	16	m3	
Surface treatments				
D	Blinding filling T3 with sand; 50mm thick	126	m2	
E	Compacting bottom of excavations	228	m2	
F	Compacting T1 Fill with vibrating roller	126	m2	
<u>CONCRETE WORK</u>				
IN-SITU CONCRETE				
<u>Trench Fill Concrete; GRADE C15</u>				
Leanmix trenchfill concrete down to firm bearing strata, poured on or against earth, entire trench to be filled with concrete; include all additional labour and material for concrete trench fill works being combined with excavation operations				
G	to foundation trenches; 1.0 - 2.0 metre deep	68	m3	
<u>PLAIN CONCRETE TO BS8500 & IS EN 206, GRADE C16/20</u>				
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<u>(19) SUBSTRUCTURE (Cont)</u>				
<u>(Cont) CONCRETE WORK</u>				
<u>(Cont) IN-SITU CONCRETE</u>				
<u>(Cont) PLAIN CONCRETE TO BS8500 & IS EN 206, GRADE C16/20</u>				
Blinding				
A	generally; poured on or against earth/ broken rock or unblinded hardcore	7	m3	
Cavity Fill; Not exceeding 300mm thick				
B	holes (provisional)	4	m3	
Sundries; filling holes				
C	holes (provisional)	5	m3	
<u>REINFORCED CONCRETE TO BS8500 & IS EN 206, GRADE C32/40</u>				
Foundations				
D	generally	49	m3	
Threshold sill				
E	cross sectional area not exceeding 0.10m2	1	m3	
<u>REINFORCEMENT</u>				
Reinforcement bars; Hot rolled plain round mild steel; all in compliance with BS EN 10138 and BS 4449:2005 and 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 bending schedules, drawings and Specification:				
<i>Fabric; reference A393; 300mm side laps, 400mm end laps</i>				
F	Horizontal; in foundations; to top and bottom of foundations	249	m2	
<u>FORMWORK</u>				

<u>(19) SUBSTRUCTURE (Cont)</u>				
<u>(Cont) CONCRETE WORK</u>				
<u>(Cont) IN-SITU CONCRETE</u>				
<u>(Cont) FORMWORK</u>				
Formwork; sawn surface finish to concrete ; Class F1 finish; rough finish to comply with EN 1992-1-1:2004; all in strict accordance with the Engineers Specification				
<i>Sides of foundations; at discretion of Contractor</i>				
A	exceeding 250mm and not exceeding 500mm	208	m	
B	<u>extra over</u> for all additional labour and material in forming steps in foundations per detail on drawing 1966/T01/101	6	nr	
<u>Sundries</u>				
Tamping; to tops of foundations				
C	horizontal; to falls and cross falls	121	m2	
PRECAST CONCRETE				
<u>Precast concrete; pre-tensioned lintels; mix grade 30N/mm2; 20 aggregate; smooth finish; bedding and pointing in Group 1 mortar as Engineers Specification 9.0</u>				
D	Lintels; 100mm wide x 150mm high	15	m	
<u>Precast concrete; door threshold; mix grade 30N/mm2; 20 aggregate; smooth finish; bedding and pointing in Group 1 mortar as Engineers Specification 9.0; asll as per Architecst Drawing 2508/110</u>				
E	Door Threshold; 90mm wide x 60mm high	10	m	
F	Door Threshold; 65mm wide x 55mm high	3	m	
<u>Precast concrete floor slabs</u>				

<u>(19) SUBSTRUCTURE (Cont)</u>				
<u>(Cont) CONCRETE WORK</u>				
<u>(Cont) PRECAST CONCRETE</u>				
<u>(Cont) Precast concrete floor slabs</u>				
Contractor designed; precast concrete floor slabs with a live load of 2.5KN/m ² ; span less than or equal to 5.00m including filled ends to all units; filling with mortar between the units; for approval prior to manufacture, all calculations to be submitted to the structural engineer a minimum of 3 weeks prior to manufacture; all in accordance with the Architects and Structural Engineers specifications 9.0, 9.1 & 9.1.1; all as per Engineers Drawing 1966/T01/004				
A	200mm thick	167	m2	
B	<u>Extra over</u> last for grouting floor units	167	m2	
<u>BRICKWORK & BLOCKWORK</u>				
Solid blockwork, to IS EN 771-3 and in accordance with IS EN ISO 9001; Quality Management System and (EU) No 305/2011, standard blocks dense aggregate 440mm x 100mm x 215mm units; 13N/mm ² solid compressive strength, bedded in Class M12 mortar; stretcher bond; all in accordance with Engineers Specification Section 6.0 and Engineers Drawings 1966/T01/004				
<u>Walls in trenches;</u>				
C	Thickness 215mm	20	m2	
D	Thickness 350mm	70	m2	
E	Thickness 465mm	31	m2	
F	Thickness 565mm	21	m2	
<u>Skins of Hollow Walls in trenches;</u>				
G	Thickness 100mm	70	m2	

<u>(19) SUBSTRUCTURE (Cont)</u>				
<u>(Cont) BRICKWORK & BLOCKWORK</u>				
Solid blockwork, thermal standard blocks to BS EN 771-4, 440mm x 100mm x 215mm units; 13N/mm ² compressive strength, bedded in Class M6 mortar; stretcher bond; all in accordance with Engineers drawings and Specification 6.0 and Architects Specification				
<u>Skins of Hollow Walls</u>				
A	Thickness 100mm	25	m2	
B	Thickness 215mm	7	m2	
<u>Walls</u>				
C	Thickness 100mm	10	m2	
D	Thickness 215mm	5	m2	
BRICKWORK / BLOCKWORK; GENERAL SUNDRIES				
<u>Ancillaries to Brickwork / Blockwork</u>				
Forming cavities Arch Spec (F30:151); 150mm cavity to external walls; 110mm partial fill insulation board foil faced on both sides with 40mm air cavity with and including wall ties at max. 900mm horizontal centres and max. 450mm vertical centres to tie inner and outer leaf walls as per the Architect specification				
E	Internal cavity walls; 150mm thick	4	m2	
Forming cavities Arch Spec (F30:200); 150mm cavity to internal walls; 150mm Stone-wool, semi-rigid full fill cavity wall insulation and including wall ties at max. 900mm horizontal centres and max. 450mm vertical centres to tie inner and outer leaf walls as per the Architect specification				
F	External cavity walls; 150mm thick	16	m2	
Damp proof course Arch Spec (F30.320) as per drawings and specification				
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<u>(19) SUBSTRUCTURE (Cont)</u>				
(Cont) BRICKWORK & BLOCKWORK				
(Cont) BRICKWORK / BLOCKWORK; GENERAL SUNDRIES				
(Cont) Ancillaries to Brickwork / Blockwork				
(Cont) Damp proof course Arch Spec (F30.320) as per drawings and specification				
A	horizontal; 100mm wide; at internal partition walls	25	m	
B	horizontal; 225mm wide; at internal partition walls	20	m	
C	horizontal; 150mm wide; at door thresholds	10	m	
D	horizontal; 225mm wide	31	m	
E	horizontal; 100mm wide	177	m	
F	horizontal; exceeding 300mm wide; 600mm girth; stepped dpc at external wall	115	m2	
ROOFING, CLADDING AND WATERPROOFING - Mastic Asphalt, Waterproofing and Gas proof Non-Metal flexible Coverings				
G	IMPORTANT: The radon Membrane will be laid in two phases. The first phase will be laying of 'EASY LOAD' Radon DPC across internal and external walls with min 300mm laps left for taping of second phase of radon barrier. All laps of radon DPC carried through walls must be protected for the entire duration of works until second phase of radon barrier is installed	1	Item	
H	Laps must be protected using a durable board ripped wide enough to protect laps e.g. 19mm plywood.	1	Item	

<u>(19) SUBSTRUCTURE (Cont)</u>				
<u>(Cont) BRICKWORK & BLOCKWORK</u>				
<u>(Cont) BRICKWORK / BLOCKWORK; GENERAL SUNDRIES</u>				
<u>(Cont) Ancillaries to Brickwork / Blockwork</u>				
<u>(Cont) ROOFING, CLADDING AND WATERPROOFING - Mastic Asphalt, Waterproofing and Gas proof Non-Metal flexible...</u>				
<i>Radon barrier Arch Spec (J40.110-375); including overlaps and sealing with sealant tape; (no allowance made in measurement for laps) laid in strict accordance with the manufacturer's instructions, all as per the architects and engineers specification and details; all joints and accessories to be sealed in accordance with manufacturers specification</i>				
Over 300mm wide to horizontal floors	158	m2		
<u>extra over</u> for all internal and external corners fitted with preformed radon corner assemblies throughout as per Architects specification F30/491	72	nr		
<i>'Easy Load' Radon DPC stepped detail across cavity at external walls; allow minimum 300mm across slab to allow for taping to primary barrier; installed by specialist; all in strict accordance with Architect's Drawings and Specification F30/360;</i>				
Over 300mm wide stepped over walls; girth 1200mm; as per Architects Drawings 2508/101	84	m2		
Over 300mm wide stepped over walls; girth 1165mm; as per Architects Drawings 2508/102	36	m2		
Over 300mm wide stepped over walls; girth 1850mm; as per Architects Drawings 2508/103 & 2508/104	29	m2		
<i>Xtra load GRm seld adhesive radon DPC J40-180, installed at finished floor level under door threshold and extended down over external leaf, lap and seal with 'Easy Load DPC'</i>				
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<u>(19) SUBSTRUCTURE (Cont)</u>				
(Cont) BRICKWORK & BLOCKWORK				
(Cont) BRICKWORK / BLOCKWORK; GENERAL SUNDRIES				
(Cont) Ancillaries to Brickwork / Blockwork				
(Cont) ROOFING, CLADDING AND WATERPROOFING - Mastic Asphalt, Waterproofing and Gas proof Non-Metal flexible...				
A	Over 300mm wide; stepped over walls at door threshold; girth 375mm; as per Architects Drawings 2508/106	4	m2	
	<i>Radon barrier Arch Spec (J40.110-375); including overlaps and sealing with sealant tape; including overlaps & sealing with sealant tape; (no allowance made in measurement for laps) laid in strict accordance with the manufacturer's instructions, all as per the architects and engineers specification J40 - 140A and details</i>			
B	<u>Extra Over</u> for Testing Spec (P30.560-910);			
C	Contractor to allow for the testing of the integrity of all radon barriers by a specialist independent third party. Testing to be carried out on completion of the radon barrier and sump installation and prior to the covering up. Methodology to be used is the injection of highly visible non-toxic tracer smoke to the underside of the radon barrier under pressure. No degree of visible smoke leakage through the barrier is considered acceptable	1	Item	
D	Contractor to allow for radon gas testing at substantial completion at set out by the Radiological Protection Institute to determine radon levels and if sump activation is required. If radon levels are detected over and above 180 Bq/m3 - the contractor must carry out all rectification works at their own expense	1	Item	
	<i>Fibre reinforced air tightness liquid paint as per the specification</i>			
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<u>(19) SUBSTRUCTURE (Cont)</u>				
(Cont) BRICKWORK & BLOCKWORK				
(Cont) BRICKWORK / BLOCKWORK; GENERAL SUNDRIES				
(Cont) Ancillaries to Brickwork / Blockwork				
(Cont) ROOFING, CLADDING AND WATERPROOFING - Mastic Asphalt, Waterproofing and Gas proof Non-Metal flexible...				
A	not exceeding 300mm wide; at junction with wall and floor; all in strict accordance with Architect's Drawings and Specification A40/125; <i>Radon sump; "Easy Sump" by Necoflex Ltd or equivalent; bedding in lean mix concrete with 110mm outlets/inlets</i>	139	m	
B	square 600mm x 600mm	2	nr	
C	<u>extra over</u> ; 100mm "Easi-Sump" cap link or "Equivalent" at ground level; allow for forming sinking in elsewhere measured hardcore and 150mm concrete surround; set flush to finished pavement <i>Radon pipework and fittings; by Necoflex Ltd or equivalent; bedding in lean mix concrete</i>	2	nr	
D	110mm diameter pipework in trenches laid in position	14	m	
E	<u>Extra over</u> last for radon vent	2	nr	
F	<u>Extra over</u> last for radon collars with butyl seal to top hat	10	nr	
G	<u>extra over</u> ; forming or cutting holes for 110mm diameter pipes in 465mm cavity block wall	2	nr	
H	<u>extra over</u> ; forming or cutting holes for 110mm diameter pipes in 300mm blockwork wall Door and Threshold as per spec L20/421; 2no. layers of 25mm Thermal Threshold board spec A40-110; as per Architect's Drawing 2508/106	2	nr	

<u>(19) SUBSTRUCTURE (Cont)</u>				
(Cont) BRICKWORK & BLOCKWORK				
(Cont) BRICKWORK / BLOCKWORK; GENERAL SUNDRIES				
(Cont) Ancillaries to Brickwork / Blockwork				
(Cont) Door and Threshold as per spec L20/421; 2no. layers of 25mm Thermal Threshold board spec A40-110; as per Architect's Drawing...				
A	Overall 50mm thick, In 2 x 25mm layers x 310mm wide	10	m	
B	Extra over for Self Adhesive Air tightness sealing tape. Seal Thermal board to frame -A40/130; 100mm wide	10	m	
C	Extra over for Self Adhesive Air tightness sealing tape. Seal Thermal board to screed -A40/130; 100mm wide	10	m	
INSULATION				
150mm thick CFC/HCFC free rigid polyisocyanurate (PIR) core between low emissivity foil facings manufactured using a blowing agent that has zero ozone depletion potential (ODP) The insulation shall have a minimum independently certified thermal conductivity of 0.022 W/mK and must have a current IAB (Irish Agreement Board) or BBA (British Board of Agreement) certificate; fixed in strict accordance with the manufacturers written instructions; as Architects drawing details and specification				
Floor insulation				
D	150mm thick, horizontally, to ground floor	166	m2	
E	50mm thick; 125mm high, vertically, to ground floor	140	m	
F	50mm thick, horizontally, to first floor	166	m2	
G	50mm thick, 150mm high, vertically, to first floor	140	m	

<u>(19) SUBSTRUCTURE (Cont)</u>				
<u>(Cont) BRICKWORK & BLOCKWORK</u>				
Tanking Arch Spec (J40.180) on S2 primer damp proof membrane / tanking membrane; no allowance in measurement for laps; fixing in strict accordance with the manufacturers recommendation; as Architects drawings and specification				
A	vertical; exceeding 300mm wide to masonry	44.76	m2	
B	corner fillets	9.60	m	
C	sealing to edges		m	
GCP Protection drainage board; to tanking membranes; fixing in strict accordance with the manufacturers recommendations; as Architects drawings and specification				
D	vertical; exceeding 300mm wide to tanking membrane	44.76	m2	
<u>DRAINAGE - Below Ground</u>				
Excavating trenches: pipes less than or equal to but not exceeding 250mm nominal diameter				
E	average depth 500mm - 1000mm: backfilling with hardcore, compacting in layers	14	m	
Disposal				
F	Surface water; generally	1	Item	
G	Ground water; generally	1	Item	
Plain in-situ concrete to BS 5328, designed mix grade 20N/mm2, 20mm aggregate				
H	Beds and surrounds; 500 x 400 to 110mm nominal diameter pipe	22	m	
Upvc Pipes SN8, per Engineers specification 9.10				
J	110 nominal size; in trenches; within the building	14	m	

<u>(19) SUBSTRUCTURE (Cont)</u>				
<u>(Cont) DRAINAGE - Below Ground</u>				
<u>(Cont) Upvc Pipes SN8, per Engineers specification 9.10</u>				
A	110 nominal size; vertical with adjustable clip to ensure adequate seal; within the building	23	m	
B	<u>Extra over</u> for long radius bends; 90 degree	2	nr	
C	<u>Extra over</u> for bends; 90 degree	2	nr	
D	<u>Extra over</u> for bends; 45 degree	4	nr	
E	<u>Extra over</u> for splay junctions	2	nr	
F	<u>Extra over</u> for reducer 110-38mm	6	nr	

(19) SUBSTRUCTURE (Cont)**COLLECTION**

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**(19) SUBSTRUCTURE
Carried to Summary**

<u>(21) EXTERNAL WALLS</u>				
<u>NOTES TO CONTRACTOR</u>				
A	1. The Contractor is to include in their rates for all works as described in the Architects Specification.	1	Item	
B	2. The Contractor is to include in their rates for all documents to be provided by the trade contractor/subcontractor/suppliers in relation to guarantee, warranties, specification, durability etc.	1	Item	
C	3. The Contractor is to include in their rates for all protection as required for the works.	1	Item	
D	4. The Contractor is to include in their rates for all cutting and waste as necessary to complete the works.	1	Item	
E	5. The Contractor is to include in their rates for all samples and mock ups as required in the Architects Specification.	1	Item	
F	6. Design, detailing and execution of fixings are the sole responsibility of the Contractor.	1	Item	
G	7. It is the Contractor's responsibility to verify or determine all dimensions and levels required prior to commencement of construction or production of fabrication drawings.	1	Item	
H	8. The Contractor is to include for all air seals, acoustic seals, intumescent seals etc. as required.	1	Item	
<u>CONCRETE WORK</u>				
<u>IN-SITU CONCRETE</u>				

<u>(21) EXTERNAL WALLS (Cont)</u>				
<u>(Cont) CONCRETE WORK</u>				
<u>(Cont) IN-SITU CONCRETE</u>				
Form concrete infill to back of window cill comprising C30/37 concrete in new blockwork walls; include for all formwork, reinforcement, concrete. etc. as required; provide all temporary propping and structural support as necessary; making good existing structure and finishes including concrete and formwork; leave ready to receive wall finish; all in accordance with Engineers and Architects Approval				
A	concrete to back of window cill, 100mm wide x 150mm high x 1800mm long; as per Architects Detail on Drawing 2508/124	12	nr	
B	concrete to back of window cill, 100mm wide x 150mm high x 900mm long; as per Architects Detail on Drawing 2508/124	1	nr	
C	concretel to back of window cill, 100mm wide x 150mm high x 675mm long; as per Architects Detail on Drawing 2508/124	3	nr	
D	concretel to back of window cill, 100mm wide x 150mm high x 1500mm long; as per Architects Detail on Drawing 2508/124	2	nr	
E	concretel to back of window cill, 100mm wide x 150mm high x 2450mm long; as per Architects Detail on Drawing 2508/124	1	nr	
F	concretel to back of window cill, 100mm wide x 150mm high x 850mm long; as per Architects Detail on Drawing 2508/124	3	nr	
G	concretel to back of window cill, 100mm wide x 150mm high x 2150mm long; as per Architects Detail on Drawing 2508/124	1	nr	
H	concretel to back of window cill, 100mm wide x 150mm high x 900mm long; as per Architects Detail on Drawing 2508/124	4	nr	

<u>(21) EXTERNAL WALLS (Cont)</u>				
<u>(Cont) CONCRETE WORK</u>				
<u>(Cont) IN-SITU CONCRETE</u>				
Form concrete pad stone C30/37 in new blockwork walls; include for all formwork, reinforcement, concrete. etc. as required; provide all temporary propping and structural support as necessary; making good existing structure and finishes including concrete and formwork to reveals and soffit and at all abutments; leave ready to receive wall finish; all in accordance with Engineers and Architects Approval				
A	concrete padstone 440mm long x 100mm wide x 215mm deep; as per Strcutural Engineers Drawings 1966/T01/005 & 1966/T01/006	35	nr	
<u>PRECAST CONCRETE</u>				
Precast concrete lintel: prestressed standard or stock pattern units: plain rectangular section: bedding in gauged mortar; minimum bearing as per Engineers Specification				
B	Lintels; 100mm wide x 65mm high x 1200mm long (L1)	1	nr	
C	Lintels; 100mm wide x 65mm high x 1075mm long (L1)	2	nr	
D	Lintels; 100mm wide x 150mm high x 1075mm long (L2)	6	nr	
E	Lintels; 100mm wide x 150mm high x 1300mm long (L2)	10	nr	
F	Lintels; 100mm wide x 150mm high x 1450mm long (L2)	4	nr	
G	Lintels; 100mm wide x 150mm high x 1900mm long (L2)	7	nr	
H	Lintels; 100mm wide x 150mm high x 2200mm long (L2)	10	nr	
J	Lintels; 100mm wide x 150mm high x 3100mm long (L2)	2	nr	
K	Lintels; 100mm wide x 150mm high x 3650mm long (L2)	1	nr	
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<u>(21) EXTERNAL WALLS (Cont)</u>				
<u>(Cont) CONCRETE WORK</u>				
<u>(Cont) PRECAST CONCRETE</u>				
<u>(Cont) Precast concrete lintel:</u>				
<u>prestressed standard or stock pattern</u>				
<u>units: plain rectangular section: bedding</u>				
<u>in gauged mortar; minimum bearing as...</u>				
A	Lintels; 100mm wide x 215mm high x 2400mm long (L3)	9	nr	
B	Lintels; 100mm wide x 215mm high x 3850mm long (L3)	2	nr	
C	Lintels; 215mm wide x 215mm high x 2400mm long (L4)	4	nr	
<u>Precast Concrete window cill; profile to match Architect's drawing; samples to be approved by Architect; seated, rebated, weathered and throated; set in gauge mortar on DPC; minimum bearing both sides as per Engineers specification; complete as per Architect's Specification F30 / 720</u>				
D	Cills; standard 100mm face cill, 265mm wide x 150mm high x 875mm long	3	nr	
E	Cills; standard 100mm face cill, 265mm wide x 150mm high x 1100mm long	5	nr	
F	Cills; standard 100mm face cill, 265mm wide x 150mm high x 1250mm long	2	nr	
G	Cills; standard 100mm face cill, 265mm wide x 150mm high x 1700mm long	3	nr	
H	Cills; standard 100mm face cill, 265mm wide x 150mm high x 2000mm long	12	nr	
J	<u>extra over</u> for mitred cutting and fair jointing	4	nr	
<u>Concrete thresholds Arch Spec (F30.730-760) and sealing Arch Spec (J40.298); surface finished smooth; pre-tensioned units; reinforced with 2nr 16mm high yield steel bars; bedding and pointing in cement mortar (1:3)</u>				
K	Thresholds; 150mm wide x 150mm high x 1050mm long; weathered with drip	5	nr	

<u>(21) EXTERNAL WALLS (Cont)</u>				
(Cont) CONCRETE WORK				
(Cont) PRECAST CONCRETE				
(Cont) Concrete thresholds Arch Spec (F30.730-760) and sealing Arch Spec (J40.298); surface finished smooth; pre-tensioned units; reinforced with...				
A	Thresholds; 150mm wide x 150mm high x 1500mm long; weathered with drip	3	nr	
<u>STRUCTURAL</u>				
STEELWORK				
Fabricated; weldable steel; Grade S355; CE Marked; constructed in accordance with IS EN 10025 and IS EN 10210; hot dip galvanised; all in accordance with the Structural Engineers Drawings and Specification				
B	Fabricated members; B1 - beams; 152 x 152 x 23 UB fixed to padstone	0.14	tonne	
C	nr of lengths in last	2	nr	
D	fittings	0.07	tonne	
E	Fabricated members; B2 - beams; 178 x 102 x 19 UB fixed to padstone	0.18	tonne	
F	nr of lengths in last	4	nr	
G	fittings	0.04	tonne	
H	Fabricated members; B3 - beams; 200 x 102 x 23 UB fixed to padstone	0.22	tonne	
J	nr of lengths in last	5	nr	
K	fittings	0.04	tonne	
L	Fabricated members; B4 - beams; 203 x 133 x 25 UB fixed to padstone	0.16	tonne	
M	nr of lengths in last	2	nr	
N	fittings	0.03	tonne	
P	Fabricated members; B5 - beams; 254 x 102 x 28 UB fixed to padstone	0.16	tonne	
Q	nr of lengths in last	1	nr	
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<u>(21) EXTERNAL WALLS (Cont)</u>			
<u>(Cont) STRUCTURAL</u>			
<u>(Cont) STEELWORK</u>			
<u>(Cont) Fabricated; weldable steel; Grade S355; CE Marked; constructed in accordance with IS EN 10025 and IS EN 10210; hot dip galvanised; all...</u>			
A	fittings	0.03	tonne
B	Fabricated members; B6 - beams; 203 x 203 x 46 UB fixed to padstone	0.16	tonne
C	nr of lengths in last	1	nr
D	fittings	0.03	tonne
E	Fittings; Ancon SDB wall ties at 225mm centres fixed to B1 and L4 with M10 bolts as per Engineers Detail on Drawing S77	30	Nr
<u>Site welding</u>			
F	Site welding; allow for all site welding necessary to erect all the foregoing steelwork	1	Item
G	Contractor designed; design, detail, fabricate and make all necessary welded or bolted connections between steel members for the foregoing steelwork	1	Item
<u>BRICKWORK AND BLOCKWORK</u>			
<u>BLOCKWORK</u>			
<u>Solid Concrete Blocks; compressive strength 13N/mm²; mortar mix designated as M6 above DPC and M12 below DPC; half lap stretcher bond; including bedding, including all control joints; including all necessary cutting; all as per Engineers Drawings and Specification and installed to Manufacturers Recommendations</u>			
H	External Cavity Walls; 100mm thick	1148	m ²
J	External Cavity Walls; 215mm thick	103	m ²
K	Internal cavity walls; 100mm thick	203	m ²
L	Internal cavity walls; 215mm thick	24	m ²

<u>(21) EXTERNAL WALLS (Cont)</u>				
<u>(Cont) BRICKWORK AND BLOCKWORK</u>				
<u>(Cont) BLOCKWORK</u>				
<u>(Cont) Solid Concrete Blocks; compressive strength 13N/mm²; mortar mix designated as M6 above DPC and M12 below DPC; half lap stretcher bond; including...</u>				
A	Extra over last for forming vents in 350mm cavity wall	8	nr	
<u>Solid blockwork, thermal standard blocks to BS EN 771-4, 440mm x 100mm x 215mm units; 13N/mm² compressive strength, bedded in Class M6 mortar; stretcher bond; all in accordance with Engineers drawings and Specification</u>				
B	100mm Roadstone Thermal blocks or equivalent; refer Architects Details	250	m	
C	215mm Roadstone Thermal blocks or equivalent; refer Architects Details	31	m	
<u>ANCILLARIES TO BRICKWORK/BLOCKWORK</u>				
<u>Forming cavities Arch Spec (F30:151); 150mm cavity to external walls; 110mm partial fill insulation board foil faced on both sides with 40mm air cavity with and including wall ties at max. 900mm horizontal centres and max. 450mm vertical centres to tie inner and outer leaf walls as per the Architect specification</u>				
D	Forming Cavities; between new walls; 150mm wide cavity as per Architects Detail	607	m ²	
E	Extra over; insulation to back of window cill as per Architects Drawing	44	m	
F	Extra over; 40mm thick closer insulation to window jambs as per Architects Drawing	160	m	
<u>Forming cavities Arch Spec (F30:200); 150mm cavity to internal walls; 150mm Stone-wool, semi-rigid full fill cavity wall insulation and including wall ties at max. 900mm horizontal centres and max. 450mm vertical centres to tie inner and outer leaf walls as per the Architect specification</u>				
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<u>(21) EXTERNAL WALLS (Cont)</u>				
<u>(Cont) BRICKWORK AND BLOCKWORK</u>				
<u>(Cont) ANCILLARIES TO BRICKWORK/BLOCKWORK</u>				
<u>(Cont) Forming cavities Arch Spec (F30:200); 150mm cavity to internal walls; 150mm Stone-wool, semi-rigid full fill cavity wall insulation and including...</u>				
	95	m2		
Internal cavity walls; 150mm thick				
<u>Cavity closer Arch Spec (P10.445); proprietary fire rated cavity barrier in accordance with the Architects and Engineers specification</u>				
A	59	m		
Cavity closer to top of wall; horizontally; 150mm wide				
B	47	m		
Cavity closer to top of wall; sloping; 150mm wide				
<u>Cavity closer Arch Spec (F30.180); to suit sills in accordance with the Architects and Engineers specification</u>				
C	44	m		
Cavity closer to sills; horizontally; 15 x 200mm wide				
<u>Cavity closer Arch Spec (F30.151A); to suit thresholds in accordance with the Architects and Engineers specification</u>				
D	10	m		
Cavity closer to thresholds; horizontally; 50 x 300mm wide				
<u>Cavity closer Arch Spec (F30:180); proprietary cavity closer to suit jambs and heads 150mm min. R-Value of 4.29 m2 k/w in accordance with the Architects and Engineers specification</u>				
E	183	m		
Cavity closer to jambs and heads; vertical/horizontally; 150mm wide				
<u>Cavity fire stop Arch Spec (P10.446); acoustic cavity barrier to party walls including dip in accordance with the Architects and Engineers specification</u>				
F	50	m		
Cavity fire stop; sloping; 200mm x 200mm wide				
<u>Damp proof course Arch Spec (F30.320) as per drawings and specification</u>				

<u>(21) EXTERNAL WALLS (Cont)</u>				
<u>(Cont) BRICKWORK AND BLOCKWORK</u>				
<u>(Cont) ANCILLARIES TO BRICKWORK/BLOCKWORK</u>				
<u>(Cont) Damp proof course Arch Spec (F30.320) as per drawings and specification</u>				
	horizontal; exceeding 300mm wide	111	m2	
A	vertical; not exceeding 300mm wide	134	m	
B	Stepped cavity tray Spec (F30.380A)	64	m2	
C	300mm - 450mm wide; vertical; all as per Architects detail (jambs windows and doors)	183	m	
D	girth 600mm - 750mm wide; horizontal; all as per Architects detail (Top of Party Wall)	20	m	
<u>Designed joints; masonry control joints; 10mm wide movement joint with compressible filler (13mm polyethylene foam strip with a bond breaker) with 2-part polysulphide sealant to blockwork in external walls with locations agrees with the Architect; with and including 300mm long stainless steel wall ties place at 25mm either side of the joint with ties placed at 450mm centres; all ties to have a debonding sleeve one end - Ancon PPS or equal and approved; all in accordance with Engineers specification 5</u>				
E	Design joints; 10 x 100mm wide	60	m	
<u>Joint reinforcement as Engineers Section 5.4 and drawing detail JOD-XX-ZZ-DR-S-700-0.31</u>				
F	joint reinforcement to 100mm wide walls	312	m	
<u>Cavity barriers; proprietary cavity barriers formed using single units taped together compression fitted within the cavity; min. 10mm/15mm compression to comply with TGD part m/ TGD part B requirements; all in accordance with the Architects specification</u>				
G	Cavity barriers; 250 wide x 150mm deep horizontally	80	m	

<u>(21) EXTERNAL WALLS (Cont)</u>				
<u>(Cont) BRICKWORK AND BLOCKWORK</u>				
<u>(Cont) ANCILLARIES TO BRICKWORK/BLOCKWORK</u>				
<u>(Cont) Cavity barriers; proprietary cavity barriers formed using single units taped together compression fitted within the cavity; min. 10mm/15mm compression...</u>				
A	Cavity barriers; 250 wide x 150mm deep vertically	33	m	
<u>Weepholes Arch Spec (F30.131); fixing in strict accordance with with manufacturers recommendations</u>				
B	fixing in position	341	nr	
<u>Vents in External Walls; Aluminium; to include insect proof screen; fixed back to masonry/concrete wall; including all fixings, framing, sealing as required; all as per Architects Specification</u>				
C	215 x 65mm	8	nr	
<u>Fire Barriers</u>				
150 x 150mm fire rated cavity stop barrier; rockwool cavity firestop barrier; Ref: Rockwool or "Equivalent"; Material - rockwool with built-in DPC layer; mechanically fastened with Rockwool SP fixing brackets at 150mm c/c's within cavity; set horizontally between outer leaf of cavity and & upper floor slabs within external wall envelope, to B.S.476 Part 20; 60/60 minute integrity/insulation fire rating; installed in accordance with manufacturers instructions; as per Architects Specification, profile as detailed on Architects section details:				
D	Screw fixed in cavity, between skins of blockwork; 150mm thick to suit 150mm wide cavity, horizontally	80	m	

<u>(21) EXTERNAL WALLS (Cont)</u> <u>(Cont) BRICKWORK AND BLOCKWORK</u> <u>(Cont) ANCILLARIES TO BRICKWORK/BLOCKWORK</u> <u>(Cont) Fire Barriers</u> 150 x 150mm fire rated cavity stop barrier; rockwool cavity firestop barrier ; Ref: Rockwool or "Equivalent"; Material - rockwool with built-in DPC layer; mechanically fastened with Rockwool SP fixing brackets at 150mm c/c's within cavity; set vertically between outer leaf of cavity and & upper floor slabs within external wall envelope, to B.S.476 Part 20; 60/60 minute integrity/ insulation fire rating; installed in accordance with manufacturers instructions; as per Architects Specification, profile as detailed on Architects section details: A Screw fixed in cavity, between skins of blockwork; 100mm thick to suit 200mm wide cavity, vertically <u>ROOFING, CLADDING AND WATERPROOFING</u> <u>MASTIC ASPHALT, WATERPROOF AND GAS PROOF NON-METAL FLEXIBLE SHEET COVERINGS</u> <u>Insulation; Kingspan K3 or other equal and approved, 50mm thick rigid wall insulation board foil faced on both sides with a minimum thermal resistance of not less than 2.90m²K/W; all in accordance with the architects and engineers specification</u> Insulation to sills; 140mm high <u>Thermal treshold boards Arch Spec (A40.110), 2nr 25mm thick rigid wall board to Architects detail T-05; all in accordance with the architects specification</u> Thermal board to threshols; 150mm high <u>AIR TIGHTNESS</u>	33 39 8	m m m		
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<u>(21) EXTERNAL WALLS (Cont)</u>				
<u>(Cont) AIR TIGHTNESS</u>				
The Contractor is to include for achieving air tightness required by the Architect as per the Specification. All airtightness barriers, tapes and accessories must be used to ensure the required air permeability is achieved; Contractor is to include for all sealing of joints to all floors, intermediate concrete floors, walls, windows, doors, electrical sockets and switch boxes, openings, penetration and junctions, etc; The contractor is to bear all costs associated with air tightness works, testing and any remedial works; all in strict accordance with the Architects Specification A40				
A	Air tightness; to entire building	1	Item	
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<u>(21) EXTERNAL WALLS (Cont)</u> COLLECTION Page No. 2/1 Page No. 2/2 Page No. 2/3 Page No. 2/4 Page No. 2/5 Page No. 2/6 Page No. 2/7 Page No. 2/8 Page No. 2/9 Page No. 2/10 Page No. 2/11 Page No. 2/12 (21) EXTERNAL WALLS Carried to Summary				
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(22) INTERNAL WALLS, PARTITIONS

<u>(22) INTERNAL WALLS, PARTITIONS</u>			
<u>CONCRETE WORK</u>			
IN-SITU CONCRETE			
Form concrete lintel C32/40 in new blockwork walls; include for all formwork, reinforcement, concrete. etc. as required; provide all temporary propping and structural support as necessary; making good existing structure and finishes including concrete and formwork to reveals and soffit and at all abutments; leave ready to receive wall finish; all in accordance with Engineers and Architects Approval			
A	100mm wide x 65mm high x 1400mm long (L1)	16	nr
B	100mm wide x 65mm high x 1720mm long (L1)	3	nr
C	100mm wide x 150mm high x 1600mm long (L2)	2	nr
D	100mm wide x 215mm high x 1400mm long (L3)	5	nr
E	215mm wide x 215mm high x 1000mm long (L4)	5	nr
<u>BRICKWORK AND BLOCKWORK</u>			
BLOCKWORK			
Solid Concrete Blocks; compressive strength 13N/mm ² ; mortar mix designated as M6 above DPC and M12 below DPC; half lap stretcher bond; including bedding, including all control joints; including all necessary cutting; all as per Engineers Drawings and Specification and installed to Manufacturers Recommendations			
F	Walls; 100mm thick (Ground Floor Walls)	134	m2
G	Extra over for special blocks; 100mm Thermal blocks; refer Architects Detail	41	m
H	Walls; 100mm thick (First Floor Walls)	141	m2
J	Extra over for special blocks; 100mm Thermal blocks; refer Architects Detail	47	m

(22) INTERNAL WALLS, PARTITIONS

<u>(22) INTERNAL WALLS, PARTITIONS (Cont)</u>			
<u>(Cont) BRICKWORK AND BLOCKWORK</u>			
<u>(Cont) BLOCKWORK</u>			
<u>(Cont) Solid Concrete Blocks; compressive strength 13N/mm2; mortar mix designated as M6 above DPC and M12 below DPC; half lap stretcher bond; including...</u>			
A	Walls; 215mm thick (Ground Floor Walls)	9	m2
B	<u>Extra over</u> for special blocks; 100mm Thermal blocks; refer Architects Detail	4	m
C	Walls; 215mm thick (First Floor Walls)	5	m2
D	<u>Extra over</u> for special blocks; 100mm Thermal blocks; refer Architects Detail	4	m
<u>BRICKWORK AND BLOCKWORK</u>			
<u>BLOCKWORK</u>			
<u>Solid Concrete Blocks; compressive strength 13N/mm2; mortar mix designated as M6 above DPC and M12 below DPC; half lap stretcher bond; including bedding, including all control joints; including all necessary cutting; all as per Engineers Drawings and Specification and installed to Manufacturers Recommendations</u>			
E	Walls 100mm thick (Ground Floor Walls)	135	m2
F	Walls 100mm thick (First Floor Walls)	141	m2
G	<u>Extra over</u> for special blocks 100mm Thermal blocks; refer Architects Detail TBC	276	m
H	<u>Extra over</u> for special blocks 215mm Thermal blocks; refer Architects Detail TBC	4	m
J	Labours on blockwork	1	Item
<u>FLOOR, WALL AND CEILING FINISHINGS</u>			

<u>(22) INTERNAL WALLS, PARTITIONS (Cont)</u>				
<u>(Cont) FLOOR, WALL AND CEILING FINISHINGS</u>				
Boxing out of service zone for ventilation ducts; full height timber stud framing; including head and sole plates; one layer of 12.5mm Wallboard Type A k10/401 plasterboard to one side; joints taped and filled; including "Isover APR 1200" roll insulation or similar approved; packed between studs; joints to be butted with no gaps including 3mm thick skim coat to plasterboard base; including all necessary sealants, acoustic sealants, etc. to all junctions as required; including all angle, intersections, abutments, fair ends, etc; including all deflection heads, fire strips, channels, noggins, grounds for services, etc; all as per Architect's drawings, specification and Manufacturer's Instructions				
A	Service zone for ventilation; exceeding 300mm wide; vertical; full height	12	m2	
B	Access panel 300mm x 300mm	4	nr	
Boxing out manifold; timber stud framing with plywood encasement painted to match wall finish including removable cover complete; all as per Architect's drawings, specification and Manufacturer's Instructions				
C	Manifold Encasement; 510mm wide x 400mm high x 175mm deep as per Architects Drawing	8	Nr	

<u>(22) INTERNAL WALLS, PARTITIONS (Cont)</u> COLLECTION Page No. 3/1 Page No. 3/2 Page No. 3/3 (22) INTERNAL WALLS, PARTITIONS Carried to Summary				
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<u>(23) FLOORS, GALLERIES / UPPER FLOORS</u>				
<u>NOTE</u>				
A	All descriptions are to be read with the specification (see separate document) referred to in the Bills of Quantities; All workmanship clauses and those of a general nature are deemed to be included		Note	
<u>AS PER THE STRUCTURAL ENGINEERS DRAWINGS AND SPECIFICATION</u>				
<u>CONCRETE WORK - Precast concrete floor slabs</u>				
Contractor designed; precast concrete floor slabs with a live load of 1.5KN/m ² ; span less than or equal to 5.00m including filled ends to all units; filling with mortar between the units; for approval prior to manufacture, all calculations to be submitted to the structural engineer a minimum of 3 weeks prior to manufacture; all in accordance with the Engineers Specifications 4.2.16				
B	200mm thick; to flats	154	m ²	
C	200mm thick; to balconies	17	m ²	
D	<u>Extra over</u> last for grouting floor units	171	m	
<u>WOODWORK; Ironmongery, Accessories and Sundries as Engineers Specification 7</u>				
Galvanised lateral restraint straps to wall plate at 1200mm centres, screw fixed to reinforced concrete/blockwork; as per the architects drawings and specification				
E	1400mm long x 30mm wide x 5mm thick	100	nr	
Air tightness Arch Spec (A40:100-401); air tight vapour control membrane fixed to underside of rafters, all joints to be fully taped and any penetrations to the membrane to be sealed; all in accordance with the architects and engineers specification				
F	exceeding 300mm wide; to wrap the hollowcore floor slabs	120	m ²	
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<u>(23) FLOORS, GALLERIES / UPPER FLOORS (Cont)</u> <u>(Cont) WOODWORK; Ironmongery, Accessories and Sundries as Engineers Specification 7</u> Plasterable Air tightness tape Arch Spec (A40.120) (to seal vapour control layer to inner leaf, all joints to be fully taped and any penetrations to the membrane to be sealed; all in accordance with the architects and engineers specification A not exceeding 300mm wide	160	m		
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(23) FLOORS, GALLERIES / UPPER FLOORS (Cont) COLLECTION Page No. 4/1 Page No. 4/2 (23) FLOORS, GALLERIES / UPPER FLOORS Carried to Summary				
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<u>(24) STAIRS, RAMPS INCLUDING FINISHES</u> <u>CONCRETE WORK - Precast concrete stairs and landing; All descriptions are to be read with the specification (see separate document) referred to in the Bills of Quantities; All workmanship clauses and those of a general nature are deemed to be included</u> Stairs, contractor designed precast concrete stairs and landing; optimal 305mm going and 20 equal risers; contractors specialist to provide shop drawings of stairs, balustrading/handrail details including details of all junctions for approval prior to manufacture; calculations for precast concrete stairs and landing to be submitted to the structural engineers a minimum of 3 weeks prior to manufacture; all in accordance with the Engineers Drawings and Specification Section 4 A Composite item: 'U' shaped leg staircase with 19nr steps and 20nr risers and 3nr landings; as the structural engineers drawings 1966/T01/106 and 107; includ all supporting steelwork	1	nr		
Sub Bill 2 - Building Works - Housing Unit Type 19 6 No. Housing Units for Dongeal CoCo at An Glasan, (phase 2), Kilcar			To Collection €	

(24) STAIRS, RAMPS INCLUDING FINISHES (Cont) COLLECTION Page No. 5/1 (24) STAIRS, RAMPS INCLUDING FINISHES Carried to Summary				
Sub Bill 2 - Building Works - Housing Unit Type 19 6 No. Housing Units for Dongeal CoCo at An Glasan, (phase 2), Kilcar				

<u>(27) ROOF STRUCTURE</u>				
<u>NOTES: GENERALLY</u>				
A	1. The Contractor is responsible for the design of the Roof Trusses. No claims will be entertained Post Tender for additional works to this element.	1	Item	
<u>PITCHED ROOF; WOODWORK</u>				
<u>STRUCTURAL AND FIRST FIXINGS</u>				
<u>Pitched Roof Trusses; contractor designed ; complete to the Structural Engineer's Specification grade C24 timber; fixed to block work inner leaf on timber wall plate/joist hanger; pressure impregnated with an approved preservative; timber members to be butt jointed; including all galvanised timber fixings bolts, nails, screws, connectors, proprietary truss clips/plates, bolts, joist hangers, timber packing peices; all as per Architect's and Engineer's specification Section 10</u>				
Trusses; Prefabricated Roof Trusses to Manufacturers Design and Details				
B	Prefabricated Roof Trusses to Manufacturers Design and Detail; contractor designed pitched roof trusses; Trusses span approximate size 7200mm with 600mm overhang to both sides and approximate 2800mm height to apex	69	nr	
C	Prefabricated Roof Trusses to Manufacturers Design and Detail; contractor designed pitched roof trusses; Raised Tie roof truss with rafter legs approximately 2550mm long; span approximate size 7200mm with 600mm overhang to both sides and approximate 2800mm height to apex	9	nr	
D	Prefabricated Roof Trusses to Manufacturers Design and Detail; contractor designed pitched roof trusses; Stub roof truss span approximate size 4700mm with 600mm overhang to both sides and approximate 2800mm height to apex	16	nr	
E	Simpson Strong tie or equal and approved truss clips	328	nr	
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<u>(27) ROOF STRUCTURE (Cont)</u>				
<u>(Cont) PITCHED ROOF; WOODWORK</u>				
<u>(Cont) STRUCTURAL AND FIRST FIXINGS</u>				
(Cont) Pitched Roof Trusses; contractor designed; complete to the Structural Engineer's Specification grade C24 timber; fixed to block work inner leaf...				
(Cont) Trusses; Prefabricated Roof Trusses to Manufacturers Design and Details				
A	Contractor Specialist Design Cost	1	Item	
Carcassing pitched roofs; bracing				
B	Wall Plate; 100mm x 75mm wall plates nailed using 4mm nails at 600mm ctrs to blockwork and strapped to inner blockwork leaf at 1800mm ctrs using 75mm x 50mm x 2.5mm thick mild steel straps all as per Engineers detail	47	m	
C	Wall Plate; 100mm x 75mm wall plates bolted to steel beam using 8mm bolts at 900mm ctrs to steel beam all as per Engineers detail	9	m	
D	225 x 44mm roof joists; shot fire to masonry	4	m	
E	225 x 44mm roof joists, fixed to timber	14	m	
F	150 x 44mm rafters, fixed to timber	149	m	
G	225 x 44mm valley rafters, fixed to timber	14	m	
H	150 x 50mm joists for decking in attic, screw fixed to timber	120	m	
J	100 x 44mm packers to trusses, fixed to timber/masonry	56	m	
K	100 x 25mm binders to trusses, fixed to timber	360	m	
L	172 x 22mm fascia backing board, fixed to timber	39	m	
M	225 x 18mm valley board with 75 x 50mm tilting fillets, fixed to timber	14	m	
N	38 x 50mm soffit supports, fixed to masonry	88	m	
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<u>(27) ROOF STRUCTURE (Cont)</u>				
<u>(Cont) PITCHED ROOF; WOODWORK</u>				
<u>(Cont) STRUCTURAL AND FIRST FIXINGS</u>				
<u>(Cont) Pitched Roof Trusses; contractor designed; complete to the Structural Engineer's Specification grade C24 timber; fixed to block work inner leaf...</u>				
<u>(Cont) Carcassing pitched roofs; bracing</u>				
A	75 x 50mm tilting fillet with - 1 labour, fixed to timber	39	m	
B	75 x 44mm tilting framed supports in canopy, fixed to steel	38	m	
C	100 x 44mm framed supports in canopy, fixed to masonry	19	m	
Carcassing pitched roofs; trimmers				
D	Trimmer pieces around opes for attic hatch; all as per Architects detail	12	m	
<u>BOARDING AND SECOND FIXINGS</u>				
<u>uPVC Fascia board; on and including support 22mm thick timber support framing and grounds G20/245 with silicone mastic sealant in colour to match fascia; including all necessary proprietary vents, fixtures and fittings; fixing in accordance with manufacturer's recommendations; all as per Architect's Specification K13/150</u>				
E	Fascia boarding; fascia boarding as per architects details on drawing all as per Architect Drawing	49	m	
<u>Marine plywood sheeting; WBP bonded; 19mm thick; including spreader beams as required; all as per Architect's and Engineer's specification</u>				
F	Boarding and Sheeting; floors; exceeding 300mm wide; to water tank (PROVISIONAL)	15	m2	
G	Boarding and Sheeting; floors; exceeding 300mm wide; attic walkway (PROVISIONAL)	36	m2	
<u>IRONMONGERY, ACCESSORIES AND SUNDRIES</u>				

<u>(27) ROOF STRUCTURE (Cont)</u>				
(Cont) PITCHED ROOF; WOODWORK				
(Cont) IRONMONGERY, ACCESSORIES AND SUNDRIES				
<u>Galvanised holding down straps to wall plate at 1200mm centres, screw fixed to wall plate and to inner leaf of blockwork as per standard house construction details; as per the architects drawings and specification</u>				
A	1200mm long x 30mm wide x 5mm thick	50	nr	
<u>Galvanised lateral restraint straps to wall plate at 1200mm centres, screw fixed to cover 4nr trusses with 150 x 50mm noggins in place as per standard house construction details; as per the architects drawings and specification</u>				
B	1400mm long x 30mm wide x 5mm thick to gables	30	nr	
<u>Galvanised mild steel framing anchors, hangers etc; fixed to masonry/timber; as per the architects drawings and specification</u>				
C	Galvanised joist hangers to suit 44 x 225mm	32	nr	
<u>Galvanised mild steel framing anchors, hangers etc; fixed to masonry/timber; as per the architects drawings and specification</u>				
D	Galvanised joist hangers to suit 44 x 150mm	48	nr	
E	Galvanised metallic lathing 150mm wide to wallplate	47	m	

<u>(27) ROOF STRUCTURE (Cont)</u>				
(Cont) PITCHED ROOF; WOODWORK				
(Cont) IRONMONGERY, ACCESSORIES AND SUNDRIES				
Attic Insulation; "Rockwool / Knauf" or similar approved ceiling insulation; 350mm Thick laid in two layers 150mm thick insulation fitted between joists and 200mm above joists; including cutting and packing around members through same; insulation to be tightly fitted and to connect up with the insulation in the wall cavity; supplied and installed all in strict accordance with manufacturer's instructions; in strict accordance with the Architects drawings and specification P10/115				
A	Insulation; 350mm thick overall; refer Architects Detail 2508/130	189	m2	
Insulation; "Kingspan Thermapitch TP10" or equivalent and approved ;high denisty insulation securely fixed between rafters to extend 600mm from line of wall plate; including cutting and packing around members through same; insulation to be tightly fitted and to connect up with the insulation in the wall cavity; supplied and installed all in strict accordance with manufacturer's instructions; in strict accordance with the Architects drawings and specification P10/120				
B	Insulation; 50mm thick; refer Architects Detail Detail 2508/130	30	m2	

<u>(27) ROOF STRUCTURE (Cont)</u> COLLECTION Page No. 6/1 Page No. 6/2 Page No. 6/3 Page No. 6/4 Page No. 6/5 (27) ROOF STRUCTURE Carried to Summary				
Sub Bill 2 - Building Works - Housing Unit Type 19 6 No. Housing Units for Dongeal CoCo at An Glasan, (phase 2), Kilcar				

<u>(28) FRAME</u>				
<u>NOTE</u>				
A	All descriptions are to be read with the specification (see separate document) referred to in the Bills of Quantities; All workmanship clauses and those of a general nature are deemed to be included		Note	
<u>CONCRETE WORK - Precast concrete padstones</u>				
concrete padstones; surface finished smooth; pre-tensioned units; reinforced with 2nr 16mm high yield steel bars; bedding and pointing in cement mortar (1:3); as Engineers Specification 4				
B	Padstones; 450mm long x 215mm high x 100mm wide	42	nr	
<u>AS PER THE STRUCTURAL ENGINEERS DRAWINGS AND SPECIFICATION</u>				
<u>STRUCTURAL: Steelwork as per Engineers specification 7</u>				
Manufacturer / Contractor Designed Lintels by Keystone of Equivalent; complete to the Structural Engineer's Specification Section 7.0; For Tendering Allow for X/K-150 Lintel; All as per Architect's and Engineer's Drawings and Specification				
<u>Keystone or equivalent, Manufacturer Designed Lintel to Manufacturers Design and Details</u>				
C	Straight Lintel; 3600mm in length; onto padstones	1	nr	
D	Corner Lintel; 4400mm in length (2970 / 1430mm); onto padstones	4	nr	
E	<u>Extra over</u> last for Corner Post to Suit Lintel	4	nr	
F	Contractor Specialist Design Cost	1	Item	
Sub Bill 2 - Building Works - Housing Unit Type 19 6 No. Housing Units for Dongeal CoCo at An Glasan, (phase 2), Kilcar				
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(28) FRAME (Cont)			
(Cont) STRUCTURAL: Steelwork as per Engineers specification 7			
Fabricated galvanised structural steel; weld able structural steel grade S355; BS EN 10025/BS 4360 and BS 4848 with all fabrication and detailing to comply with BS 5950, welds ground smooth; bolted site connections with grade 8.8 bolts to BS 5950; shot blast steelwork to BS 4232; galvanising to BS 729 with a minimum coating weight of 700g/m2, small areas of galvanised steel 40 mIcrons may be repaired by zinc rich paint; all preparation of steel to be carried out off-site prior to installation on-site; all structural design calculations and fabrication drawings to be forwarded to the structural engineer for approval prior to manufacture			
<u>Fabricated beams</u>			
A	203 x 102 UB 23; universal section; GALVANISED; not exceeding 25kg/m; over balcony recess - B3	1.00	t
B	nr lenghts in last	2	nr
C	fittings	0.02	t
D	203 x 102 UB 23; universal section; GALVANISED; not exceeding 25kg/m; over balcony recess - B1	1.00	t
E	nr lenghts in last	1	nr
F	fittings	0.02	t
G	203 x 203 UB 46; universal section: exceeding 25kg/m; at staircase - B6	1.00	t
H	nr lenghts in last	2	nr
J	fittings	0.03	t
K	203 x 102 UB 23; universal section: exceeding 23kg/m; at staircase - B3	1.00	t
L	nr lenghts in last	2	nr
M	fittings	0.02	t
Sub Bill 2 - Building Works - Housing Unit Type 19 6 No. Housing Units for Dongeal CoCo at An Glasan, (phase 2), Kilcar		To Collection €	

<u>(28) FRAME (Cont)</u>				
<u>(Cont) STRUCTURAL: Steelwork as per Engineers specification 7</u>				
(Cont) Fabricated galvanised structural steel; weld able structural steel grade S355; BS EN 10025/BS 4360 and BS 4848 with all fabrication and detailing...				
<u>(Cont) Fabricated beams</u>				
A	178 x 102 UB 19; universal section: not exceeding 25kg/m; lintels at door openings - B2	1.00	t	
B	nr lenghts in last	3	nr	
C	fittings	0.05	t	
<u>PAINTING</u>				
INTUMESCENT PAINT; 30 MINUTE FIRE RESISTANT PAINT TO EXPOSED STEEL STRUCTURE; include all preparation, hot blasting and priming; primer to be 100microns DFT interpolate high build ALKYD zinc phosphate; application in accordance with manufacturers written instructions; all in accordance with Architects Specification M61/100; INTumescent dry film thickness(dft) test required as per M61/410				
D	girth exceeding 300mm	19	m2	

<u>(28) FRAME (Cont)</u> COLLECTION Page No. 7/1 Page No. 7/2 Page No. 7/3 (28) FRAME Carried to Summary				
Sub Bill 2 - Building Works - Housing Unit Type 19 6 No. Housing Units for Dongeal CoCo at An Glasan, (phase 2), Kilcar				

(31) EXTERNAL WALL COMPLETIONS

<u>(31) EXTERNAL WALL COMPLETIONS</u>				
<u>NOTES TO CONTRACTOR</u>				
A	1. The Contractor is to include in their rates for all works as described in the Architects Specification.	1	Item	
B	2. The Contractor is to include in their rates for all documents to be provided by the trade contractor/subcontractor/suppliers in relation to guarantee, warranties, specification, durability etc.	1	Item	
C	3. The Contractor is to include in their rates for all protection as required for the works.	1	Item	
D	4. The Contractor is to include in their rates for all cutting and waste as necessary to complete the works.	1	Item	
E	5. The Contractor is to include in their rates for all samples and mock ups as required in the Architects Specification.	1	Item	
F	6. Design, detailing and execution of fixings are the sole responsibility of the Contractor.	1	Item	
G	7. It is the Contractor's responsibility to verify or determine all dimensions and levels required prior to commencement of construction or production of fabrication drawings.	1	Item	
H	8. The Contractor is to include for all air seals, acoustic seals, intumescent seals etc. as required.	1	Item	
J	9. The contractor shall include in the rates for all pressed aluminium cills, flashings, mastic pointing, EPDMs etc in accordance with the Architects detail drawings and specification. These items are not measured as separate items.	1	Item	

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6 No. Housing Units for Dongeal CoCo
at An Glasan, (phase 2), Kilcar

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<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u>				
<u>(Cont) NOTES TO CONTRACTOR</u>				
A	10. The contractor shall be responsible for all secondary steelwork necessary for the installation of the Windows, Curtain Walling and External Doors. For the avoidance of doubt, all secondary steelwork necessary for fixing the windows etc to the primary structure should be included by the main contractor.	1	Item	
B	11. The contractors attention is drawn to the requirements for air tightness as outlined in the Architect's Specification. All costs associated with ensuring the building achieves the required airtightness including the provision of all tests etc as outlined to be included by the contractor.	1	Item	
C	12. Mastic pointing to be included in the rates to inside and outside of windows	1	Item	
<u>WOODWORK</u>				
<u>BOARDING AND SECOND FIXING</u>				
<u>Softwood window cill board; 19mm softwood window cill board with pencil rounded edges, drilled, plugged and screw fixed on 15mm softwood grounds pressure impregnated with an approved preservative; plugged, screwed, countersinking and flush pelleting; silicone mastic seal between window and cill; complete as per Architect's Specification P20 / 115</u>				
D	Second Fixings; window boards; 200mm wide x 19mm thick; pencil rounded; refer Architectes Detail DRG 2507/124	45	m	
<u>Thermal break cill board; 15mm x 200mm, drilled, plugged and screw fixed to concrete infill to back of cill; pressure impregnated with an approved preservative; plugged, screwed, countersinking and flush pelleting; complete as per Architect's Specification A40/110A</u>				
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<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u>				
<u>(Cont) WOODWORK</u>				
<u>(Cont) BOARDING AND SECOND FIXING</u>				
<u>(Cont) Thermal break cill board; 15mm x 200mm, drilled, plugged and screw fixed to concrete infill to back of cill; pressure impregnated with an...</u>				
A	Second Fixings thermal break board; 200mm wide x 15mm thick; refer Architectes Detail 2507/124	45	m	
<u>Thermal break door threshold board; 2 x 25mm thick, drilled, plugged and screw fixed to concrete block; pressure impregnated with an approved preservative; plugged, screwed, countersinking and flush pelleting; complete as per Architect's Specification A40/110</u>				
B	Second Fixings thermal break board; 200mm wide x 25mm thick; refer Architectes Detail 2507/106	7.20	m	
<u>Softwood timber slip to match window finish, fixed back to SHS corner post; 8mm softwood timber slip board, drilled, plugged and screw fixed, on 15mm insulation board; plugged, screwed, countersinking and flush pelleting; silicone mastic seal between SHS and timber slips; complete as per Architect's Specification A40 110 and A40/130</u>				
C	Second Fixings; Internal window slips; 65mm wide x 8mm thick; Mitred joints; refer Architectes Detail DRG 2507/128	7.24	m	
<u>Composite Item; Thermal break insulation board; 15mm x 135mm, drilled, plugged and screw fixed to SHS corner post; pressure impregnated with an approved preservative; plugged, screwed, countersinking and flush pelleting; Aluminium Corner Flashing to window manufacturer to match colour of window; full surface adhesive sealing tape to lap both window frames; complete as per Architect's Specification A40/110A, A40/162</u>				
D	Second Fixings; External thermal break board; 135mm wide x 15mm thick; refer Architectes Detail 2507/128	7.24	m	

<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u>				
<u>METALWORK</u>				
NON-STRUCTURAL				
Composite items; standard windows; Double Glazed High Performce Aluminium Clad Timber Windows; finish to Architects selected RAL; fixed in accordance with specialist sub-contractors detail; contractor to include for the supply and fitting of all units and is responsible for accuratlely measuring structural opes prior to ordering; all windows to be mastic sealed on completion; to achieve an overall U-value of 1.3W/m2k or better (relating to whole window including frame);opening sections to be inward opening,tilt and turn to allow for cleaning from inside dwelling; all bathrooms/wcs to be provided with a smooth, non patterned, obscure glass finish; window manufactures flashing trim clipped into bottom of frame; safety glass to all windows within 800mm of finished floor level; all first floor windows to be fitted with safety restrictors to limit opening angle of window; including all drip flashings and ironmongery; including all fixings, grounds, straps, mastic joints seals, intumescent strip with smoke seals, etc all as per Window Schedules, Specification L10-410 and L20				
A	1800mm wide x 1910mm high; as per Architects specification and Drawing Schedule 2507/22 (Window Type W01)	3	nr	
B	1800mm wide x 1310mm high; as per Architects specification and Drawing Schedule 2507/22 (Window Type W02)	4	nr	
C	1800mm wide x 1180mm high; as per Architects specification and Drawing Schedule 2507/22 (Window Type W03)	3	nr	
D	900mm wide x 1310mm high; as per Architects specification and Drawing Schedule 2507/22 (Window Type W04)	1	nr	
E	675mm wide x 1180mm high; as per Architects specification and Drawing Schedule 2507/22 (Window Type W05)	3	nr	
Sub Bill 2 - Building Works - Housing Unit Type 19 6 No. Housing Units for Dongeal CoCo at An Glasan, (phase 2), Kilcar		8/4		To Collection €

(31) EXTERNAL WALL COMPLETIONS

<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u>				
<u>(Cont) METALWORK</u>				
<u>(Cont) NON-STRUCTURAL</u>				
<u>(Cont) Composite items; standard windows;</u>				
<u>Double Glazed High Performce Aluminium</u>				
<u>Clad Timber Windows; finish to Architects</u>				
<u>selected RAL; fixed in accordance...</u>				
A	1500mm wide x 1310mm high; as per Architects specification and Drawing Schedule 2507/22 (Window Type W06)	2	nr	
B	2450mm wide x 1810mm high; as per Architects specification and Drawing Schedule 2507/22 (Window Type W07)	1	nr	
C	850mm wide x 1810mm high; as per Architects specification and Drawing Schedule 2507/22 (Window Type W08)	4	nr	
D	2150mm wide x 1810mm high; as per Architects specification and Drawing Schedule 2507/22 (Window Type W09)	3	nr	
E	900mm wide x 1810mm high; as per Architects specification and Drawing Schedule 2507/22 (Window Type W10)	2	nr	
F	900mm wide x 1510mm high; as per Architects specification and Drawing Schedule 2507/22 (Window Type W11)	1	nr	
G	<u>Extra over</u> for Window manufacturers flashing trim clipped into frame	38.93	m	
H	<u>Extra over</u> for Window manufacturers corner flashing trim to SHS frame, include full-surface adhesive sealing tape to lap both window frames,clipped into frame, colour to match windows	14.48	m	
J	<u>Extra over</u> for seal joint between wall and window frame with suitable Airtightness Tape; not exceeding 300mm wide; refer Architects Specification A40/130	159.55	m	
K	<u>Extra over</u> for fixing brackets to support windows to specialist sub-contractors detail back to primary structure	1	Item	

<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u>				
<u>(Cont) METALWORK</u>				
<u>(Cont) NON-STRUCTURAL</u>				
Composite Items; door and frame sets; External Door; Double Glazed Alu Clad composite timber doors including all associated ironmongery and threshold; finish to Architects selected RAL; fixed in accordance with specialist sub-contractors detail; contractor to include for the supply and fitting of all units and is responsible for accurately measuring structural opes prior to ordering; all windows to be mastic sealed on completion; to achieve an overall U-value of 1.3W/m2k or better (relating to whole unit); complete including head channels; trims, flashings, seals; threshold, all fixings, straps, mastic joints seals, intumescent strip with smoke seal, etc; etc all as per Door Schedule, Specification L20-421????				
A	Screen and single door set; overall set size, 1500mm wide x 2110mm high comprising single door inward opening with 1 Nr. fixed side screen with safety glass; RAL 7044; complete, including head channels; ironmongery; ready for openable internal fire escape; aluminium trims; door signage; seals; threshold; all as required; complete as per Architects Specification and Schedule Drawing 2507/21 (Door Type ED01)	2	nr	
B	Single door set; overall set size: 1050mm wide x 2110mm high comprising single door inward opening with 1 Nr. fixed pane / vision panel with safety glass; RAL 7044; complete, including head channels; ironmongery; ready for openable internal fire escape; aluminium trims; door signage; seals; threshold; all as required; complete as per Architects Specification and Schedule Drawing 2507/21 (Door Type ED02)	4	nr	
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(31) EXTERNAL WALL COMPLETIONS

<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u>				
<u>(Cont) METALWORK</u>				
<u>(Cont) NON-STRUCTURAL</u>				
(Cont) Composite Items; door and frame sets; External Door; Double Glazed Alu Clad composite timber doors including all associated ironmongery and...				
A	Screen and single door set; overall set size, 1500mm wide x 2110mm high comprising single door inward opening with 1 Nr. fixed pane / vision panel with safety glass; together with 1 Nr. fixed side screen with safety glass; RAL 7044; complete, including head channels; ironmongery; ready for openable internal fire escape; aluminium trims; door signage; seals; threshold; all as required; complete as per Architects Specification and Schedule Drawing 2508/21 (Door Type ED03)	1	nr	
B	Extra over for seal joint between wall and door frame with suitable Airtightness Tape; not exceeding 300mm wide; refer Architects Specification A40/130 <u>METALWORK; Ironmongery, Accessories and Sundries</u> Ironmongery Arch Spec (P21.130) refer to Ironmongery schedule by KCC or equivalent ; in accordance with the architects drawings and specification <i>Apartment Stairwell Entrance doors</i>	51.13	m	
C	Hinges By Door Manufacture; Catalogue Nr. KZ-K01/VAR	4	nr	
D	Dormakaba Cam Action Overhead Door Closer Push Side Door Leaf / Pull Side Transom Fixing c/w Backcheck & Delayed Action. Contur Cover. 40932523301; Catalogue Nr.KDTS93G/CON/SIL	1	nr	
E	Tigris ® Premium, Patented Single Cylinder 45 to BS EN1303:2015 grade ①⑥ ①B①C⑥B/C. Masterkeyed Keys; Catalogue Nr. KC-9501/MK2K/SNP	1	nr	
F	Solenoid Sash Lock, Euro Pierced; Catalogue Nr. KEL-560-65/SSS	1	nr	
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<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u>				
<u>(Cont) METALWORK</u>				
<u>(Cont) NON-STRUCTURAL</u>				
(Cont) METALWORK; Ironmongery, Accessories and Sundries				
(Cont) Ironmongery Arch Spec (P21.130) refer to Ironmongery schedule by KCC or equivalent; in accordance with the architects drawings and...				
A	Lever on Round Rose & Escutcheon set, for use with KEL-560, KEL-561. Set contains lever handles, 2 euro SET 1 profile escutcheons and a blind rose; Catalogue Nr. KEL-60-0319/SSS	2	nr	
B	6M Connector Cable for use with electric locks; Catalogue Nr. KEL-EA218/GRY	1	nr	
C	Abloy Concealed Mortice Fixing Armoured Door Loop; Catalogue Nr. KEL-EA280/BCP	1	nr	
D	KCC Boxed Power Supply Unit, 12VDC lamp; Catalogue Nr. KAC-PS1A-12VS/WHT	1	nr	
E	Electronic Digital Keypad; Catalogue Nr. KAC-ACT10/GRY	1	nr	
F	KCC Press to Exit Button. Narrow Profile, Gloss White Plastic, Surface Mounted; Catalogue Nr. KEA-ARCHRXE- PTE/WHT	1	nr	
G	KCC Emergency Door Release Unit, Green Plastic, Surface Mounted; Catalogue Nr. KEA--BG1/GRN	1	nr	
<u>PAINTING AND DECORATING</u>				
<u>PAINTING</u>				
INTUMESCENT PAINT; 30 MINUTE FIRE RESISTANT PAINT TO EXPOSED STEEL STRUCTURE; include all preparation, hot blasting and priming; primer to be 100microns DFT interpolate high build ALKYD zinc phosphate; application in accordance with manufacturers written instructions; all in accordance with Architects Specification M61/100; INTumescent dry film thickness(dft) test required as per M61/410				
H	girth exceeding 300mm	3	m2	

<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u>				
<u>(Cont) PAINTING AND DECORATING</u>				
<u>(Cont) PAINTING</u>				
Painting; "High Gloss Finish" or equivalent to plaster base; colour to be selected by Architect; 1nr primer coat, 1nr undercoat and 2nr finishing coat; including all preparation work as required to existing surfaces i.e. patching, filling etc.; including working around existing services, ducts, pipes, penetrations, sockets etc; as required; complete as per Architect's Specification Section M60/130 and Drawings and Installed to Manufacturers Recommendations				
A	Second fixings; window boards; 300mm wide x 19mm thick; pencil rounded; refer Architectes Detail	45	m	
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(31) EXTERNAL WALL COMPLETIONS (Cont)

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(31) EXTERNAL WALL COMPLETIONS
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<u>(32) INTERNAL COMPLETIONS</u>				
<u>NOTES TO CONTRACTOR</u>				
A	1. All timbers shall be pressure impregnated with an approved preservative ; All rates are to include for secret fixings, holes, mortices etc. All sizes are indicative only and site measurements must be taken.		Note	
	2. All joinery sizes to be confirmed on site before manufacture		Note	
	3. The Contractor shall provide evidence, in the form of a product conformity certificate, test report or engineering assessment that each fire door supplied will comply with the specified requirements for fire resistance if tested in accordance with B.S. 476 : Part 22. Such certification must cover door and frame materials , glass and glazing materials and installation, essential and ancillary ironmongery, hinges and seals etc.		Note	
	4. All descriptions are to be read with the specification (see separate document) referred to in the Bills of Quantities; All workmanship clauses and those of a general nature are deemed to be included		Note	
<u>WOODWORK; Boarding and Second Fixings</u>				
Softwood Arch Spec (P20.110-115) with one coat timber primer; in accordance with the architects drawings and specification				
B	19 x 19m quadrant	10	m	
C	69 x 18mm architrave	256	m	
<u>WOODWORK; Composite Items</u>				
Internal doors Arch Spec (L20.239-850) ; tongue and grove effect smooth moulded FD30 solid core flush doors tested to BS EN 1634- 1: 2014 and painted with one coat timber primer; in accordance with the architects drawings T-30-7 and specification				
D	Door Type D01; 950 x 2110; NFR	10	nr	
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<u>(32) INTERNAL COMPLETIONS (Cont)</u>				
<u>(Cont) WOODWORK; Composite Items</u>				
(Cont) Internal doors Arch Spec (L20.239-850); tongue and groove effect smooth moulded FD30 solid core flush doors tested to BS EN 1634- 1: 2014...				
A	Door Type D03; 950 x 2110; FR20	10	nr	
B	Door Type D04; 800 x 2110; NFR	1	nr	
C	Door Type D05; 950 x 2110; FR30	2	nr	
Door framing and door stop Arch Spec (L20.330 and P20.110); solid core timber framing, hardwood edges and lipping throughout including top and bottom; fixed to structure with 6mm diameter galvanised steel frame fixings at 600mm centres with heads countersinking and flush pelleting; one coat of primer /sealer				
D	132 x 45mm door frames, labours - 3	128	m	
<u>WOODWORK; Ironmongery, Accessories and Sundries</u>				
Ironmongery Arch Spec (P21.130) refer to Ironmongery schedule; in accordance with the architects drawings and specification				
<u>Internal Doors</u>				
E	KH-14104R/SCP; Frisco Steel Bearing Butt Hinge	63	nr	
F	KD-9200N/SSS; KCC Architectural Slimline Cam Action Slide Channel Door Closer to hEN1154 grade ③⑧(④/②)①①③	31	nr	
G	KL-1905RAR/SSS; KCC Heavy Duty Modular Mortice Latch c/w Anti-Rattle Adjustable Strike Plate to hEN12209 grade ③x⑤①①①F-B ①②① and Certifire CF5234	32	nr	
H	KL-1904RAR/SSS; KCC Heavy Duty Modular Bathroom Lock c/w Anti-Rattle Adjustable Strike Plate to hEN12209 grade ③x⑤①①①F-B G②① and Certifire CF5234	4	nr	
J	KF-2001/SSS; KCC Tubular Stainless Steel 304 19mm Unsprung Rose Lever Handle on Rose to BS EN1906:2012 grade ④⑦-B①④①U	42	nr	
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<u>(32) INTERNAL COMPLETIONS (Cont)</u>				
<u>(Cont) WOODWORK; Ironmongery, Accessories and Sundries</u>				
<u>(Cont) Ironmongery Arch Spec (P21.130) refer to Ironmongery schedule; in accordance with the architects drawings and...</u>				
<u>(Cont) Internal Doors</u>				
A	KA-9501/SSS; KCC Floor Mounted Door Stop	21	nr	
B	KA- FS1900IN/1/WHT Fire Rated Interdens Based Intumescent KCC Lock Protector, 1mm, White	10	nr	
C	KA-FS502R/BLK Flexfire Fire Rated Graphite Based Intumescent Hingeplate Protector, 2mm, Black, Self Adhesive	60	nr	
D	KF-1111A/SSS; KCC Grade 304 Stainless Steel Accessible Thumbturn & Release No Indicator	4	nr	
E	KA-9920R/1/SSS; KCC Lever Action Flush Bolt, Grade 304 Stainless Steel. W19 x L205. Radius Corner	6	nr	
F	KA-9950/SSS; KCC Sprung Loaded Dust Excluding Socket	3	nr	
<u>PAINTING AND DECORATING: Painting Woodwork</u>				
<u>Prime and paint Arch Spec (M60.130) knot and seal, painting with one coat primer, I coat undercoat and I coat high gloss paint; as per architects drawings and specification</u>				
G	doors exceeding 300mm wide, internal	219	m2	
H	not exceeding 300mm wide, internal	256	m	

(32) INTERNAL COMPLETIONS (Cont)

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**(32) INTERNAL COMPLETIONS
Carried to Summary**

(34) STAIRS COMPLETION

<u>(34) STAIRS COMPLETION</u>				
<u>NOTES TO CONTRACTOR</u>				
A	1. The Contractor is to include in their rates for all works as described in the Architects Specification.	1	Item	
B	2. The Contractor is to include in their rates for all documents to be provided by the trade contractor/subcontractor/suppliers in relation to guarantee, warranties, specification, durability etc.	1	Item	
C	3. The Contractor is to include in their rates for all protection as required for the works.	1	Item	
D	4. The Contractor is to include in their rates for all cutting and waste as necessary to complete the works.	1	Item	
E	5. The Contractor is to include in their rates for all samples and mock ups as required in the Architects Specification.	1	Item	
F	6. Design, detailing and execution of fixings are the sole responsibility of the Contractor.	1	Item	
G	7. It is the Contractor's responsibility to verify or determine all dimensions and levels required prior to commencement of construction or production of fabrication drawings.	1	Item	
H	8. The Contractor is to include for all air seals, acoustic seals, intumescent seals etc. as required.	1	Item	
J	9. The contractor shall include in the rates for all pressed aluminium cills, flashings, mastic pointing, EPDMs etc in accordance with the Architects detail drawings and specification. These items are not measured as separate items.	1	Item	

<u>(34) STAIRS COMPLETION (Cont)</u>				
<u>(Cont) NOTES TO CONTRACTOR</u>				
A	10. The contractor shall be responsible for all secondary steelwork necessary for the installation of the Windows, Curtain Walling and External Doors. For the avoidance of doubt, all secondary steelwork necessary for fixing the windows etc to the primary structure should be included by the main contractor.	1	Item	
B	11. The contractors attention is drawn to the requirements for air tightness as outlined in the Architect's Specification. All costs associated with ensuring the building achieves the required airtightness including the provision of all tests etc as outlined to be included by the contractor.	1	Item	
C	12. Mastic pointing to be included in the rates to inside and outside of windows	1	Item	
<u>METALWORK - Non-Structural</u>				
Balustrades with handrail; (guarding to top landing)				
Polyester powder coated balustrades and handrail Arch Spec (L30.280) 100mm x 12mm flat rail to top/bottom and framework with 70mm x 6mm balustrades at 95mm centres fixed to precast stairs; all framework to be in accordance with Guarding requirements in TGB Part K (Minimum height 1125-1350mm); with handrail with stainless steel low carbon steel brackets with round reception piece to include cover capping piece with powder coated brackets/angles to match flat bar balustrade; all as detailed on architects drawings 2507/14 & 2508/144 and specification, and Engineers Specification Section 11;				
D	Horizontal balustrades and handrail minimum 1125mm high, fixed to plastered blockwork walls and floors; all as detailed on architects drawings and specification	2	m	
Handrail to wall				
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(34) STAIRS COMPLETION (Cont)				
(Cont) METALWORK - Non-Structural				
(Cont) Handrail to wall				
50mm stainless steel (brushed finish) tubular handrail with stainless steel brackets, 950mm high over stairs, steps and landings, Arch Spec (L30.580) 50mm diameter handrail with steel brackets with round reception piece to include cover capping piece with powder coated brackets/angles to match balustrade; all as detailed on architects drawings 2508/144 and specification; fixed to plastered blockwork				
A	Horizontal handrail; all as detailed on architects drawings and specification	15	m	
B	Raking handrail; all as detailed on architects drawings and specification	10	m	
C	Bends/ramp	2	nr	
D	Ends	2	nr	
External Balustrades with handrail				
Polyester powder coated selected Arch Spec (L30.280) colour from standard RAL colours, mild steel 100mm x 12mm flat rail to top/bottom/end/edge rails framework rails, infilled with 75mm x 12mm flat vertical balustrades at 100mm centres, 1875mm high set 1125mm above finished balcony floor level; fixed walls and to precast concrete floor with flat steel upright as detail J & K, Engineers drg 1966/T01/106; all framework to be in accordance with Guarding requirements in TGB Part K (Minimum height 1350mm); all as detailed on architects drawing 2507/14 and elevation drawings and specification and Engineers Drawing 1966/T01/005, Detail J & K and Specification Section 11				
E	Horizontal balustrades and handrail, fixed to walls and floors; all as detailed on architects drawings and specification;	7	m	
F	in number locations	2	nr	
WOODWORK; Boarding and Second Fixings				
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(34) STAIRS COMPLETION (Cont)				
(Cont) METALWORK - Non-Structural				
(Cont) WOODWORK; Boarding and Second Fixings				
<u>MDF with one coat timber primer; in accordance with the architects drawings 2508/144 and specification</u>				
A	275 x 32mm capping boards; screw fixed to top of guard rail; as per architects drawing 2507/144; horizontal	4	m	
B	275 x 32mm capping boards; screw fixed to top of guard rail; as per architects drawing 2507/144; laid to rake include fair mitred joints	1	m	
C	15 x 15mm square beading below overhang of capping; screw fixed to underside of capping; as per architects drawing 2507/144; horizontal	8	m	
D	15 x 15mm square beading below overhang of capping; screw fixed to underside of capping;; as per architects drawing 2507/144; raking include fair mitres	2	m	
PAINTING AND DECORATING: Painting Metalwork				
<u>Prime and paint Arch Spec (M60.140); painting with one coat primer, I coat undercoat and two coats high gloss paint; as per architects drawings and specification</u>				
E	balustrading to stairs exceeding 300mm wide, internal	6	m2	
F	balustrading to handrail to stairs void not exceeding 300mm wide, internalairs/void exceeding 300mm wide, handrail to stairs/void not exceeding 300mm wide, internal	25	m	
<u>Prime and paint Arch Spec (M60.130) knot and seal, painting with one coat primer, I coat undercoat and I coat high gloss paint; as per architects drawings and specification</u>				
G	not exceeding 300mm wide, internal	4	m	
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(34) STAIRS COMPLETION (Cont)

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(34) STAIRS COMPLETION
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<u>(41) WALL FINISHES EXTERNALLY</u>				
<u>FLOOR, WALL AND CEILING FINISHES: In-situ Finishes</u>				
Pre-coloured render system with silicone resin based render finish; Wood float finish render; 26mm thick; scud, render, float and wood float finish in cement, lime and sand mortar; undercoat 16mm thick (1:1:6); wood float finish coat 10mm thick (1:1:4.5) fixed back to concrete / blockwork wall background; including all preparation works required; including all stainless steel stop beads, angle bead, expansion beads, overhead drip beads, bell cast projections, etc, as required; installed to Manufacturer's Instructions and all in accordance with the Architect's Drawings and Specification M20/160				
A	walls exceeding 300mm wide	506	m2	
B	<u>extra over</u> for bitumen impregnated sharking felt backing strip, 120mm girth behind expanding metal and for expamet or equivalent, stainless steel expanded metal lath, 120mm girth at eaves detail, see Architects Drawing 2507/136 & 2507/137	30	m	
C	<u>extra over</u> for stop bead at top of blockwork at eaves detail, see Architects Drawing 2507/129	49	m	
D	walls plinth exceeding 300mm wide	31	m2	
E	walls reveals not exceeding 300mm wide; incl stop bead at windows	160	m	
Beam casing; beams to be encased with 75 x 50mm timber studwork fixed to steelwork and lined one side with 18mm WBP exterior plywood and stainless steel EML mesh reinforcement; al				
F	exceeding 300mm wide	5	m2	
Sundries beads Arch Spec (M20.636); all in accordance with the Architects drawings and specification				
G	bellcast beads to plinth	86	m	

(41) WALL FINISHES EXTERNALLY

<u>(41) WALL FINISHES EXTERNALLY (Cont)</u>				
<u>(Cont) FLOOR, WALL AND CEILING FINISHES:</u>				
<u>In-situ Finishes</u>				
(Cont) Sundries beads Arch Spec (M20.636) ; all in accordance with the Architects drawings and specification				
A	angle beads to reveals	160	m	
B	angle beads to corners	50	m	
C	movement beads to expansion joints	60	m	
D	stop beads	160	m	
<u>PAINTING AND DECORATING: Painting externally</u>				
Painting externally Arch Spec (M60.170), prepare and paint one coat primer, two coats finish coats to rendered blockwork walls externally; all in accordance with the Architects drawings and specification				
E	walls exceeding 300mm wide	506	m2	
F	walls plinth exceeding 300mm wide	31	m2	
G	walls reveals not exceeding 300mm wide	160	m	
Painting externally Arch Spec (M60.171), prepare and paint one coat primer, two coats finish coats to rendered blockwork walls externally; all in accordance with the Architects drawings and specification				
H	not exceeding 300mm wide - to window cills	44	m	

(41) WALL FINISHES EXTERNALLY (Cont)

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(41) WALL FINISHES EXTERNALLY
Carried to Summary

(42) WALL FINISHES INTERNALLY

<u>(42) WALL FINISHES INTERNALLY</u>				
<u>FLOOR, WALL AND CEILING FINISHES: In-situ Finishes</u>				
Wall plaster and skim Arch Spec (M20.131 and 200); prepare and plaster, trowelled smooth; all in accordance with the Architects drawings and specification				
A	walls exceeding 300mm wide	1005	m2	
B	extra over for scud coat to walls exceeding 300mm wide	1005	m2	
C	extra over last for walls exceeding 300mm wide Arch Spec (M20.140)	50	m2	
D	walls reveals not exceeding 300mm wide	204	m	
Plasterboard wall; one layer of 12.5mm Gypsum plasterboard Arch Spec (K10.401), plaster Arch Spec (M20.280) one coat gypsum bonding and 3mm skim plaster, trowelled smooth; all in accordance with the Architects drawings and specification				
E	walls exceeding 300mm wide	10	m2	
Beam casing; beams to be encased with 75 x 50mm timber studwork fixed to steelwork and lined one side with 18mm grade interior plywood and galvanised steel EML mesh reinforcement				
F	exceeding 300mm wide	20	m2	
Sundries Arch Spec (M20.630); galvanised steel accessories; Gyproc or equal and approved				
G	angle beads; fixing with plaster dabs	247	m	
<u>FLOOR, WALL AND CEILING FINISHES: Tiled</u>				
Wall tiling Arch Spec (M40.115); tiling to Bathrooms and Toilets, 150 x 150 x 5.5mm tiles including BAL-WP1 TANKING SYSTEM; including BAL-CTF3 adhesive, 2mm joints including grouting with BAL MICROFLEX WALL GROUT; all in accordance with the Architects drawings and specification				
H	walls exceeding 300mm wide	31	m2	
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(42) WALL FINISHES INTERNALLY (Cont)			
(Cont) FLOOR, WALL AND CEILING FINISHES:			
Tiled			
(Cont) Wall tiling Arch Spec (M40.115); tiling to Bathrooms and Toilets, 150 x 150 x 5.5mm tiles including BAL-WP1 TANKING SYSTEM; ...			
A	walls not exceeding 300mm wide	6	m
B	<u>Extra over</u> last for mastic sealant	28	m
C	<u>Extra over</u> last for uPVC trims to suit tiles	41	m
Wall tanking Arch Spec (J40.300); fixing in strict accordance with the manufacturers recommendations			
D	walls exceeding 300mm wide	34	m2
Wall tiling Arch Spec (M40.110); tiling to Kitchens, 150 x 150 x 5.5mm tiles including BAL-WP1 TANKING SYSTEM; including BALCTF3 adhesive, 2mm joints including grouting with BAL MICROFLEX WALL GROUT; all in accordance with the Architects drawings and specification			
E	walls exceeding 300mm wide	19	m2
F	walls not exceeding 300mm wide	12	m
G	<u>Extra over</u> last for mastic sealant	41	m
H	<u>Extra over</u> last for uPVC trims to suit tiles	52	m
<u>PAINTING AND DECORATING: Painting Walls</u>			
Painting internally Arch Spec (M60.115); prepare and paint one coat sealer, three full coats of emulsion paint to internal plastered blockwork walls, plasterboard and skim; preparation to be apply stabilising primer and colour to be selected by the Architect; all in accordance with the Architects drawings and specification			
J	walls exceeding 300mm wide	657	m2
K	walls reveals not exceeding 300mm wide	135	m
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<u>(42) WALL FINISHES INTERNALLY (Cont)</u>				
<u>(Cont) PAINTING AND DECORATING: Painting Walls</u>				
Painting internally Arch Spec (M60.121); prepare and paint one coat sealer, three full coats of vinyl silk emulsion paint to internal plastered blockwork walls, plasterboard and skim; preparation to be apply stabilising primer and colour to be selected by the Architect; all in accordance with the Architects drawings and specification				
A	walls exceeding 300mm wide	348	m2	
B	walls reveals not exceeding 300mm wide	68	m	
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(42) WALL FINISHES INTERNALLY (Cont)

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**(42) WALL FINISHES INTERNALLY
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<u>(43) FLOOR FINISHES</u>				
<u>NOTES TO CONTRACTOR</u>				
A	1. The Contractor shall be entirely responsible for ensuring that the surface of floor screeds and floor slabs to receive all floor finishings will be sufficiently level to avoid the necessity for levelling compounds. Should it arise that it becomes necessary to spread levelling compound prior to laying the flooring, the cost of this work will be deemed to be included in the floor finishes rates	1	Item	
B	2. Contractor is to note the layout of the floor finishes and the junctions between each finish. No claim will be entertained for setting out curves, splaying cutting etc.	1	Item	
<u>ROOFING, CLADDING AND WATERPROOFING</u>				
FLOOR, WALL AND CEILING FINISHES: Surface Finishes				
<u>Floor screed Arch Spec (M10.115/120-650); cement and sand levelling screed to precast concrete floor units with reinforcement for crack control to engineers details, trowelled smooth; all in accordance with the Architects drawings and specification</u>				
C	85mm thick, exceeding 300mm wide to ground floor	166	m2	
D	70mm thick, exceeding 300mm wide to first floor	162	m2	
E	70mm thick, exceeding 300mm wide to landing first floor	10	m2	
F	85mm thick, exceeding 300mm wide to balcony first floor	14	m2	
<u>Separation layer Arch Spec (M10.290-295); 500gauge polythene separation layer as required</u>				
G	exceeding 300mm wide	352	m2	

<u>(43) FLOOR FINISHES (Cont)</u>				
<u>(Cont) ROOFING, CLADDING AND WATERPROOFING</u>				
<u>(Cont) FLOOR, WALL AND CEILING FINISHES:</u>				
Surface Finishes				
Floor screed Arch Spec (M50.460) latex self levelling to sand/cement screed, trowelled smooth; all in accordance with the Architects drawings and specification				
A	5-10mm thick; level or to falls only not exceeding 15 degrees; from horizontal	158	m2	
MASTIC ASPHALT, WATERPROOF AND GAS PROOF NON-METAL FLEXIBLE SHEET COVERINGS				
Floor insulation Arch Spec (M10.290-295); Kingspan or other equal and approved, floor insulation board foil faced on both sides; all in accordance with the architects and engineers specification				
B	25mm thick, not exceeding 300mm high to perimeter	375	m	
Floor insulation Arch Spec (M10.295); Kingspan or other equal and approved, one layer of 50mm thick rigid floor insulation board foil faced on both sides laid on PC floor slabs; all in accordance with the architects and engineers specification				
C	50mm thick, exceeding 300mm wide	162	m2	
Acoustic separating floor system Arch Spec (K11.110-990), dressed up the walls and fixed in strict accordance with the manufacturers recommendations				
D	exceeding 300mm high	162	m2	
<u>WOODWORK</u>				
BOARDING AND SECOND FIXINGS				

<u>(43) FLOOR FINISHES (Cont)</u>				
<u>(Cont) WOODWORK</u>				
<u>(Cont) BOARDING AND SECOND FIXINGS</u>				
Door saddle board; wrought unless otherwise stated; pressure impregnated with an approved preservative; plugged, screwed, countersinking and flush pelling; fixed to and including softwood backgrounds as required; complete all as per Architects Drawing and Specification and installed as per Manufacturer's Recommendations				
A	Second fixings; like items; door saddles; 900mm long (PROVISIONAL)	23	nr	
Skirting; Softwood; fully cut and fixed / screwed and pelleted at 400mm centres or as required; fixing to concrete / drylining / metal studwork / blockwork walls at required centres; fixed on treated timber grounds as required; including drilling, plugging, counter sinking, flush pelling, screwing and mortices etc; including all rebates, chamfered edges etc.; seal gap between skiting and floor with sealant Z22/111; all in accordance with the Architect's Drawings and Specification P20/110				
B	Second fixings; skirtings; 150mm x 18mm thick	297	m	
<u>FLOOR, WALL AND CEILING FINISHES</u>				
<u>FLEXIBLE SHEET FINISHES</u>				
Selected Vinyl; "Forbo Surestep Original" or equivalent; Slip Rating - R10; including all seams, adhesives, accessories, smoothing/levelling compound, primer, finishings as required; including mastic sealant at abutments; including all floor / edge trims as required to be supplied and fitted in strict accordance with manufacturers written instructions; colour 172782 Seagreen to be confirmed by Architect; complete as per Architect's Drawings and Specification M50/160				
C	Floors; exceeding 300mm wide (Bathrooms)	19	m2	
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<u>(43) FLOOR FINISHES (Cont)</u>				
<u>(Cont) FLOOR, WALL AND CEILING FINISHES</u>				
<u>(Cont) FLEXIBLE SHEET FINISHES</u>				
<u>Self coved skirting in bathroom area Arch Spec (M50.775), including cover formed angles and capping</u>				
A	Extra over for self coved - Coving to skirting; girth 150mm - 300mm; as per Specification M50/775	38	m	
<u>Selected Vinyl; "Forbo Surestep wood" or equivalent; Slip Rating - R10; including all seams, adhesives, accessories, smoothing/levelling compound, primer, finishings as required; including mastic sealant at abutments; including all floor / edge trims as required to be supplied and fitted in strict accordance with manufacturers written instructions; colour 18802 Elegant Oak to be confirmed by Architect; complete as per Architect's Drawings and Specification M50/150</u>				
B	Floors; exceeding 300mm wide (Kitchens)	139	m2	
C	Coving to skirting; girth 150mm - 300mm	129	m	
<u>TILE,SLAB AND MOSAIC FINISHES</u>				
<u>Floor Tiles; "Pilkingtons Tiles Limited, H. R, Johnson Limited; submit min. 3 no proposals" or equal or approved; Slip Resistance R11; Colour to be selected by Architect from full range; 300mm x 300mm x 8mm thick with 2mm grout colour to be selected; joint thickness 2mm laid on concrete slab; including all trims, grouting, movement joints, adhesives, accessories, smoothing/levelling compound as required; to be supplied and fitted in strict accordance with manufacturers written instructions, all as Architect's Drawing and Specification M40/117</u>				
D	Floors; exceeding 300mm wide; 300mm x 300mm x 8mm thick	15	m2	
<u>MASTIC ASPHALT AND WATERPROOF NON-METAL FLEXIBLE SHEET COVERINGS</u>				

<u>(43) FLOOR FINISHES (Cont)</u>				
<u>(Cont) FLOOR, WALL AND CEILING FINISHES</u>				
<u>(Cont) MASTIC ASPHALT AND WATERPROOF NON-METAL FLEXIBLE SHEET COVERINGS</u>				
<u>Tanking; BAL-WP1 COATING or similar approved; applied strictly in accordance with the manufacturers instructions; no allowance in measurement for laps; including all fixings, underlays, tape etc; complete as per Architect's Specification M40/520</u>				
A	Tanking; horizontal; exceeding 300mm wide (PROVISIONAL)	19	m2	
<u>PAINTING AND DECORATING</u>				
<u>PAINTING</u>				
<u>Paint to timber base; colour tbc; one coat approved primer applied before fixing member; two undercoats; one finishing coat; as Architect's Drawings and Specification</u>				
B	Second fixings; Skirting; girth not exceeding 300mm	331	m	
<u>Seal joint between wall and floor air barriers with fibre reinforced airtight liquid paint as Architect's Drawings and Specification A40/125</u>				
C	Sealants; seal joint between wall and floor air barriers girth not exceeding 300mm as per Architects detail on drawing TD-01	331	m	

<u>(43) FLOOR FINISHES (Cont)</u> COLLECTION Page No. 13/1 Page No. 13/2 Page No. 13/3 Page No. 13/4 Page No. 13/5 (43) FLOOR FINISHES Carried to Summary				
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<u>(44) STAIR FINISHES</u>				
<u>NOTES TO CONTRACTOR</u>				
A	1. The Contractor is to include in their rates for all works as described in the Architects Specification.	1	Item	
B	2. The Contractor is to include in their rates for all documents to be provided by the trade contractor/subcontractor/suppliers in relation to guarantee, warranties, specification, durability etc.	1	Item	
C	3. The Contractor is to include in their rates for all protection as required for the works.	1	Item	
D	4. The Contractor is to include in their rates for all cutting and waste as necessary to complete the works.	1	Item	
E	5. The Contractor is to include in their rates for all samples and mock ups as required in the Architects Specification.	1	Item	
F	6. Design, detailing and execution of fixings are the sole responsibility of the Contractor.	1	Item	
G	7. It is the Contractor's responsibility to verify or determine all dimensions and levels required prior to commencement of construction or production of fabrication drawings.	1	Item	
H	8. The Contractor is to include for all air seals, acoustic seals, intumescent seals etc. as required.	1	Item	
<u>WOODWORK</u>				
Boarding and Second Fixings				

<u>(44) STAIR FINISHES (Cont)</u>				
<u>(Cont) WOODWORK</u>				
<u>(Cont) Boarding and Second Fixings</u>				
Skirting; Softwood; fully cut and fixed / screwed and pelleted at 400mm centres or as required; fixing to concrete/ drylining / metal studwork / blockwork walls at required centres; fixed on treated timber grounds as required; including drilling, plugging, counter sinking, flush pelling, screwing and mortices etc; including all rebates, chamfered edges etc.; seal gap between skirting and floor with sealant Z22/111; all in accordance with the Architect's Drawings and Specification P20/110				
A	Second fixings; skirtings; 150mm x 18mm thick; to stairwells and landings	34	m	
B	15mm x 150mm to profile of steps & risers fixed to precast concrete stair detail	22	m	
C	15mm x 300mm to step/riser string detail; fixed to precast concrete stair detail	11	m	
<u>FLOOR, WALL & CEILING FINISHES</u>				
<u>FLOOR, WALL AND CEILING FINISHES: Surface Finishes</u>				
Floor screed Arch Spec (M10.120-650); cement and sand levelling screed to precast concrete floor units with reinforcement for crack control to engineers details, trowelled smooth; all in accordance with the Architects drawings and specification				
D	85mm thick, exceeding 300mm wide to ground/first floor	22	m2	
E	85mm thick, exceeding 300mm wide to landing	10	m2	
Separation layer Arch Spec (M10.290-295); 500gauge polythene separation layer as required				
F	exceeding 300mm wide	32	m2	

<u>(44) STAIR FINISHES (Cont)</u>				
<u>(Cont) FLOOR, WALL & CEILING FINISHES</u>				
<u>(Cont) FLOOR, WALL AND CEILING FINISHES:</u>				
<u>Surface Finishes</u>				
<u>Floor screed Arch Spec (M50.460) latex self levelling to sand/cement screed, trowelled smooth; all in accordance with the Architects drawings and specification</u>				
A	5-10mm thick; level or to falls only not exceeding 15 degrees; from horizontal	22	m2	
B	5-10mm thick; level or to falls only not exceeding 15 degrees; from horizontal to landing	10	m2	
<u>FLEXIBLE SHEET FINISHES</u>				
<u>Non-slip vinyl Arch Spec (M50.155); Forbo Surestep original, R10; selected colour; 2mm thick</u>				
C	exceeding 300mm wide to ground & First floor	16	m2	
D	exceeding 300mm wide to landing	11	m2	
E	steps as stair detail	28	m	
F	riser as stair detail	29	m	
G	step nosings Arch Spec (L30.590) as stair detail Drawing 2508/143	28	m	
<u>Heavy duty matwell system and framing Arch Spec (M40.120), recess and set frame into screed, selected colour; fixing in strict accordance with the manufacturers recommendations</u>				
H	exceeding 300mm wide to ground floors	3	m2	
<u>IN-SITU FINISHES</u>				
<u>Wall plaster Arch Spec (M20.110 and 200); prepare and plaster one coat 12mm cement, lime and sand (1:1:5-6) and final coat 3mm gypsum skim plaster, trowelled smooth; all in accordance with the Architects drawings and specification</u>				
J	Stairs exceeding 300mm wide	103	m2	

<u>(44) STAIR FINISHES (Cont)</u>				
<u>(Cont) FLOOR, WALL & CEILING FINISHES</u>				
<u>(Cont) IN-SITU FINISHES</u>				
Sundries Arch Spec (M20.630); galvanised steel accessories; Gyproc or equal and approved				
A	angle beads; fixing with plaster dabs	18	m	
<u>PAINTING AND DECORATING</u>				
Painting Stairs; Painting internally Arch Spec (M60.115); prepare and paint one coat sealer, three full coats of emulsion paint to internal plastered blockwork walls, plasterboard and skim; preparation to be apply stabilising primer and colour to be selected by the Architect; all in accordance with the Architects drawings and specification				
B	stairs exceeding 300mm wide	103	m2	
Painting Woodwork; Prime and paint Arch Spec (M60.122); prepare and paint varnish satin finish to softwood; as per architects drawings and specification				
C	not exceeding 300mm wide, internal	67	m	

(44) STAIR FINISHES (Cont)

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(44) STAIR FINISHES
Carried to Summary

(45) CEILING FINISHES

<u>(45) CEILING FINISHES</u>				
<u>NOTES TO CONTRACTOR</u>				
A	1. The Contractor is to include in their rates for all works as described in the Architects Specification.	1	Item	
B	2. The Contractor is to include in their rates for all documents to be provided by the trade contractor/subcontractor/suppliers in relation to guarantee, warranties, specification, durability etc.	1	Item	
C	3. The Contractor is to include in their rates for all protection as required for the works.	1	Item	
D	4. The Contractor is to include in their rates for all cutting and waste as necessary to complete the works.	1	Item	
E	5. The Contractor is to include in their rates for all samples and mock ups as required in the Architects Specification.	1	Item	
F	6. Design, detailing and execution of fixings are the sole responsibility of the Contractor.	1	Item	
G	7. It is the Contractor's responsibility to verify or determine all dimensions and levels required prior to commencement of construction or production of fabrication drawings.	1	Item	
H	8. The Contractor is to include for all air seals, acoustic seals, intumescent seals etc. as required.	1	Item	
<u>WOODWORK</u>				
Boarding and Second Fixings; Softwood Arch Spec (P20.110) with one coat timber primer; in accordance with the architects drawings and specification				
J	18 x 94mm trim,	12	m	
<u>ROOFING, CLADDING AND WATERPROOFING</u>				

<u>(45) CEILING FINISHES (Cont)</u>				
<u>(Cont) ROOFING, CLADDING AND WATERPROOFING</u>				
	Ceiling insulation Arch Spec (P10.115); two layers of 200mm thick mineral wool (Quilted) insulation laid between joists and to the depth of the ceiling joist; all in accordance with the architects and engineers specification			
A	400mm thick, exceeding 300mm wide	170	m2	
	Ceiling insulation Arch Spec (P10.115); three layers of 100mm thick mineral wool (Quilted) insulation laid between joists and to the depth of the ceiling joist; all in accordance with the architects and engineers specification			
B	300mm thick, exceeding 300mm wide to balcony recesses	18	m2	
	Air tightness Arch Spec (A40:100-401); air tight vapour control membrane fixed to underside of rafters, all joints to be fully taped and any penetrations to the membrane to be sealed; all in accordance with the architects and engineers specification			
C	exceeding 300mm wide	188	m2	
D	extra over for airtightness tape to be returned down wall and taped to wall using a plasterable airtightness tape (A40/120)s per Architects drawing 2508/132	189	m	
E	exceeding 300mm wide; to wrap the end of hollowcore floor slabs as architects detail on Drawing 2508/116	181	m2	
	Plasterable Air tightness tape Arch Spec (A40.120) (to seal vapour control layer to inner leaf, all joints to be fully taped and any penetrations to the membrane to be sealed; all in accordance with the architects and engineers specification			
F	not exceeding 300mm wide	189	m	

<u>(45) CEILING FINISHES (Cont)</u>				
<u>(Cont) ROOFING, CLADDING AND WATERPROOFING</u>				
	Insulated fire rated airtight loft access attic hatch (minimum E20 fire resistance) Arch Spec (K10-430A), include 10mm hick plasterboard lining to opening, suitable mastic sealing around perimeter of opening, fitted with draft strips to perimeter; Hatch to achieve minimum U Value 0.35W/m2K; complete all in accordance with the architects and engineers specification all in accordance with the architects drawings 2508/122 and engineers specification			
A	650mm x 520mm	3	nr	
	Insulated airtight loft access attic hatch Arch Spec (K10-430A), include 10mm hick plasterboard lining to opening, suitable mastic sealing around perimeter of opening, fitted with draft strips to perimeter; Hatch to achieve minimum U Value 0.35W/m2K; complete all in accordance with the architects and engineers specification all in accordance with the architects drawings 2508/120 and engineers specification			
B	650mm x 520mm	1	nr	
	Testing and Certification of air tightness vapour control membrane and taping Arch Spec (A40.100-400); all in accordance with the architects and engineers specification			
C	Testing and Certification of air tightness vapour control membrane and taping; 2nr air permeable tests per building	1	item	
	Testing and Certification of sound insulation Arch Spec (A40.401) as per TGD Part E with party walls; all in accordance with the architects and engineers specification; 2nr sound tests per building			
D	Testing and Certification of sound insulation	1	item	
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To Collection €				

<u>(45) CEILING FINISHES (Cont)</u>				
<u>FLOOR, WALL AND CEILING FINISHES:</u>				
<u>Ceilings</u>				
MF ceiling fixed to underside hollowcore floor slab; plasterboard ceiling; one layer of 12.5mm Gypsum plasterboard Arch Spec (K10.401) screw fixed to underside of easi joists at 400 centres with plaster Arch Spec (M20.280) one coat gypsum bonding and 3mm skim plaster, trowelled smooth; all in accordance with the Architects drawings and specification				
A	ceilings exceeding 300mm wide to stairwell; plasterboard Type A - Arch(K10.401) and plaster	11	m2	
MF ceiling fixed to underside hollowcore floor slab; plasterboard ceiling; one layer of 15mm Gypsum plasterboard Arch Spec (K10.401) screw fixed to underside of easi joists at 400 centres with plaster Arch Spec (M20.280) one coat gypsum bonding and 3mm skim plaster, trowelled smooth; all in accordance with the Architects drawings and specification				
B	ceilings exceeding 300mm wide; plasterboard Type A - Arch(K10.401) and plaster	80	m2	
C	ceilings exceeding 300mm wide to stairwell; plasterboard Arch(K10.401) and plaster	11	m2	
D	extra over for all additional labour and material in forming flush band to Acoustic ceiling tiles	11	m	
E	extra over for all additional labour and material in seal junction with wall plaster - M20/270 and plasterboard ceiling with flexible sealant; see architects drawing 2508/114	297	m	

<u>(45) CEILING FINISHES (Cont)</u>				
<u>(Cont) FLOOR, WALL AND CEILING FINISHES:</u>				
<u>Ceilings</u>				
MF ceiling fixed to underside hollowcore floor slab; plasterboard ceiling; one layer of 15mm Gypsum plasterboard Arch Spec (K10.401) screw fixed to underside of easi joists at 400 centres with plaster Arch Spec (M20.280) one coat gypsum bonding and 3mm skim plaster, trowelled smooth; all in accordance with the Architects drawings and specification				
A	ceilings exceeding 300mm wide; 15mm Moisture resistant plasterboard Type H1 - Arch(K10.404) and plaster	71	m2	
MF ceiling fixed to underside hollowcore floor slab; plasterboard ceiling; one layer of 12.5mm Class C Acoustic Gypsum plasterboard Arch Spec (K10.408) screw fixed to underside of easi joists at 400 centres with plaster Arch Spec (M20.280) one coat gypsum bonding and 3mm skim plaster, trowelled smooth; all in accordance with the Architects drawings and specification				
B	ceilings exceeding 300mm wide to stairwell; plasterboard Arch(K10.408) and plaster	11	m2	
C	<u>extra over</u> for all additional labour and material in laying to slope	2	m2	
D	<u>extra over</u> for all additional labour and material in forming flush band at junction of Acoustic ceiling board	11	m	
Plasterboard ceiling; one layer of 15mm Gypsum Fireline plasterboard Arch Spec (K10.406) screw fixed to underside of joists at 400 centres with plaster Arch Spec M20.280) one coat gypsum bonding and 3mm skim plaster, trowelled smooth; all in accordance with the Architects drawings and specification				
E	ceilings exceeding 300mm wide; 12.5mm Fireline plasterboard - Type F Arch Spec (K10.406), plaster	71	m2	
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<u>(45) CEILING FINISHES (Cont)</u>				
<u>(Cont) FLOOR, WALL AND CEILING FINISHES:</u>				
<u>Ceilings</u>				
(Cont) Plasterboard ceiling; one layer of 15mm Gypsum Fireline plasterboard Arch Spec (K10.406) screw fixed to underside of joists at 400 centres with...				
A	Trimming Opes; 10mm plasterboard to access hatch opening; refer Architects Deatil on Drawing	4	m	
Plasterboard ceiling; one layer of 15mm Gypsum Fireline MR plasterboard Arch Spec (K10.407) screw fixed to underside of joists at 400 centres with plaster Arch Spec M20.280) one coat gypsum bonding and 3mm skim plaster, trowelled smooth; all in accordance with the Architects drawings and specification				
B	ceilings exceeding 300mm wide; 12.5mm Fireline plasterboard - Type F & H1 Arch Spec (K10.407), plaster	73	m2	
C	ceilings exceeding 300mm wide to stairwell; plasterboard Arch(K10.407) and plaster	5	m2	
MF ceiling fixed to underside hollowcore floor slab; one layer of Proprietary boarded ceiling; one layer of Exterior cement board or other equal and approved Arch Spec (K11-320), fixed, jointed and taped to manufacturers requirements, screw fixed to underside of easi joists at 400 centres with plaster Arch Spec M20.160) external render system, trowelled smooth; all in accordance with the Architects drawings and specification				
D	ceilings exceeding 300mm wide; to stairwell entrance	5	m2	
E	ceilings exceeding 300mm wide; to ground floor apartment entrance	14	m2	

<u>(45) CEILING FINISHES (Cont)</u>				
<u>(Cont) FLOOR, WALL AND CEILING FINISHES:</u>				
<u>Ceilings</u>				
Proprietary boarded ceiling; two layers of Exterior cement board or other equal and approved Arch Spec (K11-320), fixed, jointed and taped to manufacturers requirements, screw fixed to underside of joists at 400 centres with plaster Arch Spec M20.160) external render system, trowelled smooth; all in accordance with the Architects drawings and specification				
A	ceilings exceeding 300mm wide; to first floor balconies	35	m2	
Acoustic ceiling; one layer of 12.5mm Class c Acoustic board Arch Spec (K10.408) fixed to underside of joists at 400 centres with plaster Arch Spec (M20.280) one coat gypsum bonding and 3mm skim plaster, trowelled smooth; all in accordance with the Architects drawings and specification				
B	ceilings exceeding 300mm wide to stairwell	27	m2	
Acoustic glass mineral roll Arch Spec (K10.432), 50mm thick; all in accordance with the architects detail T-27/28				
C	ceilings exceeding 300mm wide to stairwell	16	m2	
Stone-wool, semi rigid, insulation Arch Spec (F30-200), 200mm thick; all in accordance with the architects detail 2508/119				
D	ceilings exceeding 300mm wide to stairwell entrance	4	m2	
<u>PAINTING AND DECORATING</u>				
<u>PAINTING</u>				

<u>(45) CEILING FINISHES (Cont)</u>				
<u>(Cont) PAINTING AND DECORATING</u>				
<u>(Cont) PAINTING</u>				
<u>Painting; "matt emulsion" or equivalent to plaster base; colour to be selected by Architect; 1nr primer coat, 1nr undercoat and 2nr finishing coat; including all preparation work as required to existing surfaces i.e. patching, filling etc.; including working around existing services, ducts, pipes, penetrations, sockets etc; as required; complete as per Architect's Specification Section M60/110 and Drawings and Installed to Manufacturers Recommendations</u>				
A	Ceilings; to plasterboard ceiling	367	m2	
<u>Painting Woodwork; Prime and paint Arch Spec (M60.130) knot and seal, painting with one coat primer, 1 coat undercoat and 1 coat high gloss paint; including all preparation work as required to existing surfaces i.e. patching, filling etc.; including working around existing services, ducts, pipes, penetrations, sockets etc; as required; complete as per Architect's Specification Section M60/110 and Drawings and Installed to Manufacturers Recommendations</u>				
B	doors exceeding 300mm wide, internal	4	m2	
C	not exceeding 300mm wide, internal	12	m	

(45) CEILING FINISHES (Cont)**COLLECTION**

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(45) CEILING FINISHES
Carried to Summary

<u>(47) ROOF FINISHES</u>				
<u>NOTE</u>				
A	All descriptions are to be read with the specification (see separate document) referred to in the Bills of Quantities;		Note	
<u>FLOOR, WALL AND CEILING FINISHES: Surface Finishes</u>				
Floor screed Arch Spec (M10.115-650); cement and sand levelling screed to precast concrete floor units with reinforcement for crack control to engineers details, trowelled smooth; all in accordance with the Architects drawings and specification				
B	85mm thick, exceeding 300mm wide to balcony first floor	16	m2	
C	600mm x 600mm x 50mm concrete paving laid onto support pedestals Arch Spec (Q24-121/122) exceeding 300mm wide	16	m2	
Powder coated aluminium metal Decking systems with ridges and slip resistant surface; on and including raised metal supports				
D	200mm wide x 50mm boards laid onto adjustable support pedestals; all as per Arch Spec (Q55-100); exceeding 300mm wide	16	m2	
<u>ROOFING, CLADDING AND WATERPROOFING - Mastic Asphalt, Waterproofing and Gas proof Non-Metal flexible Coverings</u>				
Flat roof covering Arch Spec (J42-110-950); Sika Trocal 'SGmA' single ply roofing sheet type S, mechanically fixed screed; fixing in strict accordance with the manufacturers recommendations; all in accordance with the architects specification -J42/310A				
E	Horizontal, exceeding 300mm wide	16	m2	
F	<u>Extra over</u> for dressing up face of wall; girth 300mm	17	m	

(47) ROOF FINISHES (Cont)				
(Cont) ROOFING, CLADDING AND WATERPROOFING - Mastic Asphalt, Waterproofing and Gas proof Non-Metal flexible...				
Door and Threshold as per spec L20/421; 2no. layers of 25mm Thermal Threshold board spec A40-110; as per Architect's Drawing 2508/106				
A	Overall 50mm thick, In 2 x 25mm layers x 310mm wide	3	m	
B	Extra over for Self Adhesive Air tightness sealing tape. Seal Thermal board to frame -A40/130; 100mm wide	3	m	
C	Extra over for Self Adhesive Air tightness sealing tape. Seal Thermal board to screed -A40/130; 100mm wide	3	m	
D	Extra over for Full Surface Adhesive sealing tape installed at finished floor level under door threshold and extended down over external leaf -A40/162; 300mm girth, three times bent	3	m	
Flat roof covering; Trocal laminated metal sheet Type S or equivalent, comprising 0.6mm thick galvanised sheet metal, laminated one side with 0.8mm thick Trocal type S, on and including Trocal DS-PE vapour barrier, to roof deck (deck elsewhere measured) fixing in strict accordance with the manufactures recommendations; all in accordance with the architects specification				
E	upstand/downstand flashing	17	m	
Proprietary moulded PVC Rainwater outlet with UV resistant polypropylene leaf guard installed to manufacturers specifications and detail				
F	Harmer or equivalent AV200 with 50mm spigot -J42/310A; 100mm diameter outlet	2	nr	
G	connection to downpipe	2	nr	
<u>ROOFING, CLADDING AND WATERPROOFING - Slate and Tile Coverings</u>				

<u>(47) ROOF FINISHES (Cont)</u>				
<u>(Cont) ROOFING, CLADDING AND WATERPROOFING - Slate and Tile Coverings</u>				
	Sloping roof covering Arch Spec (H61.105-840); 600mm x 300mm fibre cement slates with 110mm head lap fixed using 2nr cedral copper nails and 1nr cedral copper crampion/disc rivet per slate to 50mm x 35mm pressure impregnated timber battens and 50mm x 50mm counter battens at 245mm centres on overlapping breathable tape jointed membrane laid on rafters with 150mm horizontal laps all as detailed on; all in accordance with the architects specification			
A	Sloping, exceeding 300mm wide	320	m2	
B	Eaves, triple course	49	m	
C	Eaves carrier Spec (H61.370)	49	m	
D	Eaves ventilation roll and vent Spec (H61.360-365)	49	m	
E	Verges, one and half slate course	30	m	
F	<u>Extra over</u> last for Proprietary slate dry verge edge trim system with downward leg Arch Spec (H61.405) fixed to each slating batten in accordance with the manufacturers recommendations; all in accordance with the architects specification	30	m	
G	Ridge capping tile Arch Spec (H61.710); including ventilated ridge roll in accordance with manufacturers recommendations; all in accordance with the architects specification	35	m	
H	Slate vent Arch Spec (H61.840)	20	nr	
J	Rafter Ventilator; In-line Roof Slope Ventilators to suit truss centres to provide continuous eaves ventilation; complete including all fixings; refer architects detail on drawing 2508/132 and Specification Section H61 /365	49	m	

(47) ROOF FINISHES (Cont)				
(Cont) ROOFING, CLADDING AND WATERPROOFING - Slate and Tile Coverings				
(Cont) Sloping roof covering Arch Spec (H61.105-840); 600mm x 300mm fibre cement slates with 110mm head lap fixed using 2nr cedral copper nails and 1nr...				
A	Fascia Ventilator; Fix Cedral over-fascia ventilators or equivalent and approved to top of fascia board; CFV25 for the equivalent of a 25mm continuous gap; complete including all fixings; refer architects detail and Specification Section H61 / 365; refer architects detail on drawing 2508/132	49	m	
B	Proprietary Eaves Support Carrier; UST12 Eaves Carrier Cedral or similar approved; bridge the rafters and provide support for the roofing felt complete including all fixings; refer architects Specification Section H61 / 370 refer architects detail on drawing 2508/132 Eaves insulation Arch Spec (P10.120) rigid cavity insulation 0.022w/mK; all in accordance with the architects specification and architects detail on drawing 2508/132	49	m	
C	Horizontal, not exceeding 300mm wide; 50mm thick to extend 600mm from line of wall plate	49	m	
D	Supply and install rigid insulation with min R Value of 3.0m2K/m2 - F30/151, to ensure gap between wall plate and rafter ventilator is complete with filled; 150 x 150mm, include cutting to slope of roof Rafter ventilator Arch Spec (H61.360) to provide min 50mm unobstructed airflow; all in accordance with the architects specification	49	m	
E	Horizontal/sloping Over fascia vent Arch Spec (H61.365) ventilation to roof space; all in accordance with the architects specification	79	m	
F	Horizontal	49	m	
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<u>(47) ROOF FINISHES (Cont)</u>				
<u>(Cont) ROOFING, CLADDING AND WATERPROOFING - Slate and Tile Coverings</u>				
Composite item fascia and soffit Arch Spec (K13.150-370) to timber fascia board, silicone mastic sealant in colour to match fascia board with soffit boarding fixed to timber; all in accordance with the architects specification				
A	Fascia and soffit	79	m	
B	Spandril ends	6	nr	
Mineral fibre quilt "Tile Batten Barrier" fire, acoustic, thermal barrier over roofing felt and fixed between battens in accordance with manufactures instructions and all in accordance with Architects Specification P10/441				
<u>Tile Batten Barrier; sloping to pitched roof</u>				
C	350mm wide x 50mm high cavity; fire stop acoustic barrier as per Architects Detail on Drawing 2508/131 & 138	25	m	
<u>Closing cavities; vertical full height at party wall</u>				
D	150mm x 150mm cavity; fire stop acoustic cavity closer as per Architects Detail on Drawing 2508/131 & 138	36	m	
Rock Fibre board with aluminium facing both sides "Soffit Barrier" fire, acoustic, thermal barrier cut to fit tightly in fascia soffit and void at all party wall locations; in accordance with manufactures instructions and all in accordance with Architects Specification P10/443				
<u>Soffit Barrier;</u>				
E	150mm deep x 350mm wide x 300mm high cavity; (cut to fit tightly in fascia soffit void at all party wall locations); fire stop acoustic cavity closer; as per Architects Detail on Drawing 2508/131 & 138	6	nr	
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<u>(47) ROOF FINISHES (Cont)</u>				
<u>(Cont) ROOFING, CLADDING AND WATERPROOFING - Slate and Tile Coverings</u>				
T -Barrier Pitched Roof; fire, acoustic, thermal barrier packed tightly over party wall and under roofing felt; vertical / sloping proprietary cavity barriers to be compression fitted within 50mm max. cavity (min10mm/15mm compression) to comply with TGD Part 8; at all party wall locations; in accordance with manufactures instructions and all in accordance with Architects Specification P10/442				
<u>Closing cavities; sloping to pitched roof</u>				
A	350mm wide soffit barrier at party wall cavity closer; as per Architects Detail on Drawing 2508/131 & 138	25	m	
<u>ROOFING, CLADDING AND WATERPROOFING - Flexible Sheet Metal Coverings</u>				
Lead valley Arch Spec (H70.230-970) Code 6, fixing in strict accordance with the manufacturers recommendations; all in accordance with the architects specification				
B	600mm girth as detailed	15	m	
Lead cover flashing Arch Spec (H71.230-970) Code 4, fixing in strict accordance with the manufacturers recommendations; all in accordance with the architects specification				
C	250mm horizontal girth as detailed	17	m	
<u>DRAINAGE - Disposal Above Ground Rainwater Disposal</u>				
Downpipes Arch Spec (R10.270-920) uPVC 80mm diameter downpipes, selected colour, fixing in strict accordance with the manufacturers recommendations; all in accordance with the architects specification				
D	80mm diameter; fixed to masonry wall, vertical	54	m	
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<u>(47) ROOF FINISHES (Cont)</u>				
<u>(Cont) DRAINAGE - Disposal Above Ground</u>				
<u>Rainwater Disposal</u>				
(Cont) Downpipes Arch Spec (R10.270-920)				
uPVC 80mm diameter downpipes, selected colour, fixing in strict accordance with the manufacturers recommendations; all...				
A	Extra over last for forming opening in balcony/screed for 80mm pipework	2	nr	
B	Extra over last for swan necks, formed with 2nr 45 degree bends and pipework	8	nr	
C	Extra over last for shoes	8	nr	
Gutters Arch Spec (R10.280-920) uPVC 100mm half round guttering, selected colour, fixing in strict accordance with the manufacturers recommendations; all in accordance with the architects specification				
D	125mm wide; fixed to upvc/timber fascia, horizontal	49	m	
E	Extra over last for 80mm diameter outlets	8	nr	
F	Extra over last for stop ends	12	nr	

<u>(47) ROOF FINISHES (Cont)</u> COLLECTION Page No. 16/1 Page No. 16/2 Page No. 16/3 Page No. 16/4 Page No. 16/5 Page No. 16/6 Page No. 16/7 (47) ROOF FINISHES Carried to Summary				
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(59) MECHANICAL INSTALLATION

<u>(59) MECHANICAL INSTALLATION</u>				
<u>NOTES TO CONTRACTOR</u>				
A	1.The Contractor is deemed to have satisfied themselves of the full scope of services works as outlined in the Service Engineers tender documentation. The contractor is deemed to have fully priced for these works accordingly.	1	Item	
B	2. The Contractor will be responsible for establishing nominated sub-contractors requirements in relation to all builders work to allow its timely incorporation into the works. The responsibility lies with the Main Contractor to establish/co-ordinate what builders work will be required and to include for same within the services costs below. The contractor will be required to submit to the design team a full builders work schedule including marked up floor plans highlighting opes required prior to undertaking the works.	1	Item	
C	3. All openings in walls/ floor/roofs to be firestopped and sealed accordingly and must be certified on completion to the satisfaction of the Architect and Consulting Engineer; Fire proofing around ducts, pipework, cable tray & trunking within service risers shall be the responsibility of the main contractor.	1	Item	
D	4. All firestopping must achieve required rating.	1	Item	
E	5. The contractors are to include for installing lintels above pipe penetrations	1	Item	
F	6. The contractors are to include for all grounds and caddy bars as required	1	Item	
G	7. Contractors are referred to the Mechanical Drawings and Specifications for this Apartment type	1	item	
H	8. Work in this element comprises Mechanical services together with associated attendances and builders works	1	item	

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<u>(59) MECHANICAL INSTALLATION (Cont)</u>				
<u>(Cont) NOTES TO CONTRACTOR</u>				
A	9.All descriptions are to be read with the specification (see separate document) referred to in the Bills of Quantities; All workmanship clauses and those of a general nature are deemed to be included	1	item	
B	10.Contractors are referred to the Mechanical drawings and Specifications for this building type and note that the Mechanical Installation shall comply with current regulations	1	item	
<u>MECHANICAL INSTALLATIONS General Items</u>				
C	Liaising with Irish Water/DCC Installation for supply to buildings	1	Item	
<u>HEATING VENTILATION AND AIR-CONDITIONING</u>				
Services pipework; pre-insulated copper pipe system as drawings				
D	Pipes 28mm	160	m	
E	Extra; bends	48	nr	
F	Extra; tees	16	nr	
G	Extra; reducing tees 28mm x 28mm x 22mm	16	nr	
H	Extra; isolating valve	8	nr	
J	Extra; S T R valve	8	nr	
K	Extra; safety valve discharge to drain at low level via tundish	4	nr	
L	Extra; discharge from tundish to external	4	nr	
M	Extra; bent connectors to manifold	8	nr	
N	Extra; bent connectors to cylinder	8	nr	
P	Pipes 22mm	344	m	
Q	Extra; bends	96	nr	
R	Extra; tees	32	nr	
S	Extra; reducing tees 22mm x 22mm x 15mm	40	nr	
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(59) MECHANICAL INSTALLATION

<u>(59) MECHANICAL INSTALLATION (Cont)</u>			
<u>(Cont) HEATING VENTILATION AND AIR-CONDITIONING</u>			
(Cont) Services pipework; pre-insulated copper pipe system as drawings			
A	Extra; isolating valve	48	nr
B	Extra; S T R valve	12	nr
C	Extra; two port motorised control valve	8	nr
D	Extra; three port motorised control valve	8	nr
E	Extra; three port motorised control DP valve	4	nr
F	Extra; double regulating valve	4	nr
G	Extra; drain cock	4	nr
H	Extra; pressure reducing valve	4	nr
J	Extra; non return valve	4	nr
K	Extra; air reducing valve	4	nr
L	Extra; automatic air valve	4	nr
M	Extra; E V valve	4	nr
N	Extra; flow switch	4	nr
P	Extra; thermostat	8	nr
Q	Extra; manometer	4	nr
R	Extra; single circulating pump	8	nr
S	Extra; discharge pipe externally at low level	8	nr
T	Pipes 15mm	288	m
U	Extra; bends	128	nr
V	Extra; tees	48	nr
Heating Manifold			
W	flow and return as drawings; complete with 4 port mixing valve, pump and pre-wired control panel, sensors and thermostats as Mechanical Specification	8	nr
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<u>(59) MECHANICAL INSTALLATION (Cont)</u>				
<u>(Cont) HEATING VENTILATION AND AIR-CONDITIONING</u>				
Underfloor heating layout as Ground and First Floor drawings				
A	Ground Floor area served for Zone 1	2	nr	
B	Number in last	2	nr	
C	Ground Floor area served for Zone 2	2	nr	
D	Number in last	2	nr	
E	Ground Floor area served for Zone 3	2	nr	
F	Number in last	2	nr	
G	Ground Floor area served for Zone 4	2	nr	
H	Number in last	2	nr	
J	First Floor area served for Zone 1	2	nr	
K	Number in last	2	nr	
L	First Floor area served for Zone 2	2	nr	
M	Number in last	2	nr	
N	First Floor area served for Zone 3	2	nr	
P	Number in last	2	nr	
Q	First Floor area served for Zone 4	2	nr	
R	Number in last	2	nr	
Air source heat pump				
S	740mm x 884mm x 388mm; Mechanical specification ref: ASHP 01, outdoor unit as Daikin Altherma 3 R F 06DV; fixed to concrete plinth complete with anti-vibration mountings and anti-condensate drainage	4	nr	
T	Extra; galvanised metal cover with door as Arch Detail	4	nr	
U	600mm x 610mm x 2025mm; Mechanical specification ref: EAHP 01, indoor unit as Nine F730; fixed to cement sand screed	4	nr	
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<u>(59) MECHANICAL INSTALLATION (Cont)</u>				
<u>(Cont) HEATING VENTILATION AND AIR-CONDITIONING</u>				
Pre-plumbed indoor heat pump packaged cylinder, factory insulated and enclosed with a minimum of 50 insulation Daikin Altherma 3 R F, Complete with built in heat exchanger, pump, hot water tank, expansion vessel and controls				
A	600mm x 595mm x 625mm; as Daikin Altherma 3 R F 08S18D- 6V(G)/D9W(G)	4	nr	
Insulation				
B	pipework; 15mm nominal diameter; 25mm cover	288	m	
C	pipework; 22mm nominal diameter; 25mm cover	344	m	
D	pipework; 28mm nominal diameter; 25mm cover	160	m	
Amount for testing and commissioning				
E	generally; Mechanical Specification refers	1	Item	
<u>WATER SERVICES INSTALLATIONS</u>				
Services pipework: medium density polyethylene HDPE blue to BS EN 12201 and IS 135; fitting and joints to BS 7874, BS EN 681 and BS EN 682				
<u>Pipes; couplers in the running length; fixing in supports as Mechanical specification</u>				
F	Pipes 28mm	48	m	
G	Extra; bends	40	nr	
H	Extra; tees	8	nr	
J	Extra; reducing tees 28mm x 28mm x 22mm	16	nr	
K	Extra; straight connection 28mm x 28mm x 22mm	16	nr	
L	Extra; HDPE to copper adaptor	8	nr	

<u>(59) MECHANICAL INSTALLATION (Cont)</u>				
<u>(Cont) WATER SERVICES INSTALLATIONS</u>				
(Cont) Services pipework: medium density polyethylene HDPE blue to BS EN 12201 and IS 135; fitting and joints to BS 7874, BS EN 681 and BS EN...				
(Cont) Pipes; couplers in the running length; fixing in supports as Mechanical specification				
A	Extra; isolating valve	48	nr	
B	Extra; non-return valve	4	nr	
C	Extra; stop cock	8	nr	
D	Extra; stop cock	4	nr	
E	Extra; stop value	8	nr	
F	Extra; safety valve	4	nr	
G	Extra; pressure reducing value	8	nr	
H	Extra; regulating/check value	8	nr	
J	Extra; straight connectors to water tank	8	nr	
K	Extra; straight connectors to cylinder	8	nr	
L	Pipes 22mm	352	m	
M	Extra; bends	96	nr	
N	Extra; reducing tees 22mm x 22mm x 15mm	40	nr	
P	Extra; tees	48	nr	
Q	Extra; isolating valve	32	nr	
R	Extra; straight connectors to bath/sink	24	nr	
S	Extra; straight connection 22mm x 22mm x 15mm	16	nr	
T	Pipes 15mm	168	m	
U	Extra; bends	72	nr	
V	Extra; isolating value	40	nr	
W	Extra; straight connectors to wc/whb	40	nr	

<u>(59) MECHANICAL INSTALLATION (Cont)</u>				
<u>(Cont) WATER SERVICES INSTALLATIONS</u>				
(Cont) Services pipework: medium density polyethylene HDPE blue to BS EN 12201 and IS 135; fitting and joints to BS 7874, BS EN 681 and BS EN...				
<u>Pre-insulated water storage tank; 227 litre capacity complete with drip tray; as Mechanical equipment</u>				
A	ref. coffin tank 1216mm x 545mm x 475mm; with connection for 22mm mains water supply, two 22mm cold water service and feed to cylinder and 54mm overflow with insect proofscreen	4	nr	
B	Ball valves; BS 1212 Pattern 1; plastic float for high pressure; joints to pipes	4	nr	
<u>Pipes; couplers in the running length; fixing in supports as Mechanical specification</u>				
C	22mm; inlet with flange and backnut; fixing to plastic cistern; silencer pipes; metallic backing plate	4	nr	
<u>Expansion vessel</u>				
D	10 Litre complete with control kit; joint to pipes	4	nr	
<u>Water booster pump; Salamander</u>				
E	type WRAS approved for potable services; 0.5 flow (kg/s); joint to pipes	4	nr	
<u>Wall mounted electric vented water heater</u>				
F	15 Litres; FBM Eco or equivalent; joint to pipes	4	nr	
<u>Insulation</u>				
G	pipework; 15mm nominal diameter; 25mm cover	168	m	
H	pipework; 22mm nominal diameter; 25mm cover	352	m	
J	pipework; 28mm nominal diameter; 25mm cover	48	m	

<u>(59) MECHANICAL INSTALLATION (Cont)</u>			
<u>(Cont) WATER SERVICES INSTALLATIONS</u>			
(Cont) Services pipework: medium density polyethylene HDPE blue to BS EN 12201 and IS 135; fitting and joints to BS 7874, BS EN 681 and BS EN...			
<u>Amount for testing and commissioning</u>			
A	generally; Mechanical Specification refers	1	Item
<u>VENTILATION</u>			
Ventilation Services Layout as Mechanical drawings			
<u>Duct</u>			
B	204mm x 60mm diameter, horizontal	72	m
C	204mm x 60mm diameter, vertical	38	m
D	bends; 204mm x 60mm	16	nr
E	flexible ductwork connection to ceiling extract grille	38	nr
F	connection to vertical duct	8	nr
G	ductwork connection to wall extract grille	8	nr
H	cooker hood extract fan; as Mechanical equipment	4	nr
<u>Continuous mechanical ventilation unit as Mechanical drawings</u>			
J	exhaust heat pump ventilation manifold; as Mechanical equipment	4	nr
K	ref. PV01; permanent ventilation grille; as Mechanical equipment	12	nr
L	Ventilation valves and grille; as Mechanical equipment	12	nr
M	ref. CEF 01; central extract unit; fixing to underside of hollowcore slab; as Mechanical equipment	4	nr
N	ref. EG01; general extract unit; as Mechanical equipment	8	nr
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<u>(59) MECHANICAL INSTALLATION (Cont)</u>				
<u>(Cont) VENTILATION</u>				
(Cont) Ventilation Services Layout as Mechanical drawings				
<u>(Cont) Continuous mechanical ventilation unit as Mechanical drawings</u>				
A	ref. RVT01; roof vent tile; as Mechanical equipment	8	nr	
<u>External wall louvre</u>				
B	ref. EWL 01; to suit 206mm x 60mm; fixing to backgrounds requiring plugging; as Mechanical equipment	8	nr	
C	ref. EWL 02; to suit 206mm x 60mm; fixing to backgrounds requiring plugging; as Mechanical equipment	2	nr	
D	external grille; type WD-EF or WG-RF, extruded aluminium; fixing to backgrounds requiring plugging	8	nr	
<u>Fire rated ceiling air value</u>				
E	on flexible ducting to suit 204mm x 60mm; firefly fire rated ceiling air values; Tenmat or equivalent; attach to ducting to mounting ring	8	nr	
F	ref. FD; to suit 125mm diameter ductwork	8	nr	
<u>Amount for testing and commissioning</u>				
G	generally; Mechanical Specification refers	1	Item	
<u>SOILS & WASTES SERVICES INSTALLATION</u>				
Plastic pipework, Grey pipes; round, push fit ring seal joints, fixing in polypropylene supports at maximum 600mm centres				
H	32mm nominal size, clipping into position, plugging to plastered	32	m	
J	Branches	2	nr	
K	Bends	16	nr	
L	Branch connection to 110mm soil stack; boss adaptor	4	nr	
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<u>(59) MECHANICAL INSTALLATION (Cont)</u>				
<u>(Cont) SOILS & WASTES SERVICES INSTALLATION</u>				
(Cont) Plastic pipework, Grey pipes; round, push fit ring seal joints, fixing in polypropylene supports at maximum 600mm...				
A	42mm nominal size, clipping into position, plugging to plastered blockwork	16	m	
B	Branches	4	nr	
C	Bends	8	nr	
D	connection to 110mm soil stack; boss adaptor	2	nr	
E	builders upstand 110mm	4	nr	
F	reducer 110-38mm	4	nr	
G	32mm nominal size, clipping into position, plugging to plastered blockwork	24	m	
H	Branches	16	nr	
J	Bends	4	nr	
K	connection to 110mm soil stack; boss adaptor	4	nr	
L	54mm nominal size, clipping into position, plugging to plastered blockwork	16	m	
M	Boss adaptor to cold water tank	4	nr	
N	Boss adaptor to drip tray	4	nr	
P	38mm nominal size, clipping into position, plugging to plastered blockwork	24	m	
Q	Bends	16	nr	
R	Branches	4	nr	
S	connection to 110mm soil stack; boss adaptor	4	nr	
T	110mm nominal size, clipping into position, plugging to rendered blockwork	32	m	
U	Bends	16	nr	
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(59) MECHANICAL INSTALLATION (Cont)				
(Cont) SOILS & WASTES SERVICES INSTALLATION				
(Cont) Plastic pipework, Grey pipes; round, push fit ring seal joints, fixing in polypropylene supports at maximum 600mm...				
A	Branches	8	nr	
B	Ventilating cowl	4	nr	
C	Branch connection to 110mm soil stack; boss adaptor	4	nr	
D	Connection to 110mm drain pipe; upvc adaptor	4	nr	
Floor Drain				
E	Harmer 304 grade stainless steel shower drain; 100mm x 100mm Casoria or equivalent; 50mm connector for upvc pipe; setting in screed	4	nr	
Fire Collar PFC Corofil or equivalent and approved, sealing with fire sealant				
F	55mm, service penetrations; intumescent pipe wraps to provide 1 hour fire resistance	60	nr	
G	110mm, service penetrations; intumescent pipe wraps to provide 1 hour fire resistance	8	nr	
MISCELLANEOUS				
H	Amount for Supply & Installation of complete above ground soils and wastes system serving canteen and bathrooms as per mechanical series drawings, to include coordination of connection to existing sils and waste branch	1	Item	
J	Amount for Supply & Installation of complete above ground soils and wastes system serving bathrooms as per mechanical series drawings, to include coordination of connection to existing sils and waste branch	1	Item	
K	Amount for new labelling, cleaning eyes etc for all new S&W above	1	Item	
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<u>(59) MECHANICAL INSTALLATION (Cont)</u>				
<u>(Cont) SOILS & WASTES SERVICES INSTALLATION</u>				
<u>(Cont) MISCELLANEOUS</u>				
A	Amount for connection of sanitary ware	1	Item	
B	Amount for labelling, testing and commissioning	1	Item	
<u>EXTERNAL WATER MAIN</u>				
External Mains Water from Water Meters to Dwelling & To all appliances as per Services Engineers Drawing				
C	Generally; Mechanical Specification refers	1	Item	
<u>GENERAL ITEMS & SUNDRIES</u>				
<u>MECHANICAL SUB-CONTRACOTOR PRELIMINARIES</u>				
D	Amount for preliminaries	1	Item	
E	Amount for validation and verification	1	Item	
Testing and Commissioning				
F	Install, test and commission Water services installations to comply with BS 8558:2011 and BS EN 806, water supply by laws and equipment manufacturers recommendations	1	Item	
G	Install, the entire installation to comply with CIBSE Technical Memoranda TM 13, (Minimising Risk of Legionnaires Disease)	1	Item	
H	Install, test and commission Dry Riser installations with 12 bar water pressure test and equipment manufacturers recommendations	1	Item	
As fitted Drawings, Operating and Maintenance Manuals & Drawings				
J	Generally; Mechanical Specification refers	1	Item	
Operating and Maintenance Manuals				

<u>(59) MECHANICAL INSTALLATION (Cont)</u>				
<u>(Cont) GENERAL ITEMS & SUNDRIES</u>				
<u>(Cont) Operating and Maintenance Manuals</u>				
A	Amount for safety file & PSCS support to Main Contractor	1	Item	
B	generally; Mechanical Specification refers	1	Item	
Site Working Drawings				
C	Amount for co-ordination drawings	1	Item	
D	Amount for builders work drawings	1	Item	
E	generally; Mechanical Specification refers	1	Item	
Demonstration on Mechanical Systems to Client				
F	generally; Mechanical Specification refers	1	Item	
G	Amount for client demonstrations at Practical Completion	1	Item	
BER Test				
H	generally; Mechanical Specification; The Contractor is to have a regard to the air permeability tests as noted in the specification section, prior to the completion; forward copy of the test results to the architect refers	1	Item	
<u>BUILDERS WORK IN CONNECTION WITH MECHANICAL SERVICES</u>				
BUILDERS WORK (REFER TO SERVICES ENGINEERS DRAWINGS AND SCHEDULE)				
<u>Concrete plinth for heat pump; incl excavation, compaction, disposal surplus excavated material, 25N concrete, reinforcement, temporary formwork, making good on completion</u>				
J	900mm x 600mm x 150mm high <u>Chases</u>	1	Item	

<u>(59) MECHANICAL INSTALLATION (Cont)</u>				
<u>(Cont) BUILDERS WORK IN CONNECTION WITH MECHANICAL SERVICES</u>				
<u>(Cont) BUILDERS WORK (REFER TO SERVICES ENGINEERS DRAWINGS AND SCHEDULE)</u>				
<u>(Cont) Chases</u>				
A	50mm x 50mm nominal size; in blockwork wall; making good	128	m	
B	Fibre Reinforced airtight liquid paint; A40/125, to be applied to all internal blockwork walls at service penetrations and to seal all chases in masonry prior to installation of M&E Services; as per Architects specification and Drawing 2508/111	128	m	
<u>Forming or cutting holes for; pipes or ducts; insert grounds/trimmers as necessary; fire proofing with pipe wraps, fire batts, fire sealant etc; making good structure disturbed</u>				
C	not exceeding 55mm; in 100mm blockwork wall; fit pipe sleeve with intumescent collar, 1 hour fire proofing	60	nr	
D	not exceeding 55mm; in 350mm cavity blockwork wall; fit pipe sleeve, 1 hour fire proofing	36	nr	
E	110mm; in 200mm timber floor; fit Geberit pipe sleeve with intumescent collar, 1 hour fire proofing	8	nr	
F	110mm; in 350mm cavity blockwork wall; fit pipe sleeve and seal, 1 hour fire proofing	36	nr	
G	125mm; in 350mm cavity blockwork wall; fit pipe sleeve and seal, 1 hour fire proofing	4	nr	
H	100mm; in 465mm cavity blockwork wall; fit pipe sleeve and seal, 1 hour fire proofing	4	nr	
J	Fibre Reinforced airtight liquid paint; A40/125, to be applied to all internal blockwork walls at service penetrations and to seal all chases in masonry prior to installation of M&E Services	148	nr	

<u>(59) MECHANICAL INSTALLATION (Cont)</u>				
<u>(Cont) BUILDERS WORK IN CONNECTION WITH MECHANICAL SERVICES</u>				
<u>(Cont) BUILDERS WORK (REFER TO SERVICES ENGINEERS DRAWINGS AND SCHEDULE)</u>				
<u>Holes; mortices; chases and the like, cutting or forming for concealed pipes 50mm nominal size; providing grounds; fire proofing with pipe wraps, fire batts, fire sealant etc; making good structure disturbed</u>				
A	fitting, equipment and control gear point, 1 hour fire proofing	36	nr	
B	opening in 100mm wall; 400mm x 600mm; build in reinforced precast concrete lintels over, 1 hour fire proofing	8	nr	
C	opening in 350mm cavity wall; 400mm x 600mm; seal sides of opening with slates; build in reinforced precast concrete lintels over, 1 hour fire proofing	4	nr	
D	Fibre Reinforced airtight liquid paint; A40/125, to be applied to all internal blockwork walls at service penetrations and to seal all chases in masonry prior to installation of M&E Services	48	nr	
<u>GENERAL</u>				
E	Contractor is to include here for builders works associated with the Mechanical Services. The Contractor is to liaise directly with their own Specialist Sub-Contractors with regards to the provision of all builders work required for the electrical installation; no claims will be entertained in respect of omissions or oversights on behalf of either party. Include backfilling services opes with 60 minute fire rated rockwool ablative coated fire batt or equivalent; proprietary fire sealant to both sides of opes to Architect's approval; making good existing structure on completion.	1	Item	

(59) MECHANICAL INSTALLATION (Cont)**COLLECTION**

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**(59) MECHANICAL INSTALLATION
Carried to Summary**

<u>(69) ELECTRICAL INSTALLATION</u>				
<u>NOTES TO CONTRACTOR</u>				
A	1.The Contractor is deemed to have satisfied themselves of the full scope of services works as outlined in the Service Engineers tender documentation. The contractor is deemed to have fully priced for these works accordingly.	Item		
B	2. The Contractor will be responsible for establishing nominated sub-contractors requirements in relation to all builders work to allow its timely incorporation into the works. The responsibility lies with the Main Contractor to establish/co-ordinate what builders work will be required and to include for same within the services costs below. The contractor will be required to submit to the design team a full builders work schedule including marked up floor plans highlighting opes required prior to undertaking the works.	Item		
C	3. All openings in walls/ floor/roofs to be firestopped and sealed accordingly and must be certified on completion to the satisfaction of the Architect and Consulting Engineer; Fire proofing around ducts, pipework, cable tray & trunking within service risers shall be the responsibility of the main contractor.	Item		
D	4. All firestopping must achieve required rating.	Item		
E	5. The contractors are to include for installing lintels above pipe penetrations	Item		
F	6. The contractors are to include for all grounds and caddy bars as required	Item		
G	7. Contractors are referred to the Electrical Drawings and Specifications for this Apartment type			
H	8. Electrical services together with associated attendances and builders works	Note		
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<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) NOTES TO CONTRACTOR</u>				
A	9. All descriptions are to be read with the specification (see separate document) referred to in the Bills of Quantities; All workmanship clauses and those of a general nature are deemed to be included		Note	
B	10. Contractors are referred to the Electrical drawings and Specifications for this building type and note that the Electrical Installation shall comply with "National Rules for Electrical Installations" IS 10101 2020 5th Edition		Note	
<u>ELECTRICAL INSTALLATIONS</u>				
General				
C	Liasing with ESB Networks Installation for supply to buildings	1	Item	
Equipment and control gear				
D	as detailed on Schematic drawing; complete	5	nr	
Consumer control unit, 1 hour fire proofing				
E	as detailed on Schematic drawing; complete with 10,16,20,32 amp fuses, RCBO, MCB residual current devices with AFDD isolators; setting consumer control unit; setting consumer control unit	4	nr	
F	Communal area as detailed on Schematic drawing; complete with 10,15,20,32 amp fuses, RCBO, MCB residual current devices with AFDD isolators; setting consumer control unit with fire rated cover Spec	1	nr	
G	ESB Meter; including Hager Meter Tail Unit ref MCU10101 within the External ESB Electric Meter Box, provide 16mm ² LSF/LSF singles connecting Switchfuse with the consumer unit and 16mm ² tails from Swtchfuse for Final Connection to Electric Meter by the ESB.	5	nr	
LIGHTING INSTALLATION				
<u>Conduit; heavy grade rigid PVC</u>				

<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) ELECTRICAL INSTALLATIONS</u>				
<u>(Cont) LIGHTING INSTALLATION</u>				
<u>(Cont) Conduit; heavy grade rigid PVC</u>				
A	20 fixing with saddles; plugging; concealed	944	m	
<u>PVC insulated and sheathed cables to IS201-4:2015 LSZH as Electrical Specification colour coded for identification</u>				
B	1.5mm ² 201-4 T&E insulated cable to IS 273 & BS 8436; drawn into conduits	944	m	
C	1.5mm ² 201-4 T&E insulated cable to IS 273 & BS 8436; fixed to timber	728	m	
<u>Switches; single pole, flush pattern as detailed on drawings</u>				
D	10 amp rated capacity; one way - single pole; fixing in position	21	nr	
E	10 amp rated capacity; one way switch pull cord - single pole; fixing in position	5	nr	
F	10 amp rated capacity; two way - single pole; fixing in position	28	nr	
G	10 amp rated capacity; one way illuminated manual switch - single pole (per drg note B); fixing in position	2	nr	
H	10 amp rated capacity; intermediate, switch - single pole; fixing in position	1	nr	
J	360 degree ceiling mounted programmable PIR detector; Luxomat PD4N-1C-FC or equivalent	4	nr	
<u>Pendant light fitting as drawings</u>				
K	cord drop not exceeding 300, 150mm pendant set complete with LED light, 13W, 2700K	25	nr	
<u>Ceiling mounted light fitting as drawings</u>				

<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) ELECTRICAL INSTALLATIONS</u>				
<u>(Cont) LIGHTING INSTALLATION</u>				
<u>(Cont) Ceiling mounted light fitting as drawings</u>				
A	IP65 rated circular luminaire complete with 15W, 1340lumens, 150 lm/cctw lumen efficacy, 50,000hours as per ROBUS GOLF SLIM LED or equivalent	8	nr	
B	IP65 rated circular luminaire complete with 8W, 960lumens, 4000K LED, 115 lm/W, 50,000hours as per ANNSELL SLEEK or equivalent	4	nr	
C	IP44 rated linear luminaire complete with 20.2W, 2550lumens, 126 lm/cctw lumen efficacy, 50,000hours as per SPEEDBEAM or equivalent	4	nr	
D	IP20 rated wall mounted, circular luminaire complete with 15.4W, 2426lumens, 157.6lm/W luminous efficacy, 4,000LED c/w INTEGRAL EMERGENCY & PIR SENSOR in common stairwell	7	nr	
E	IP44 rated linear luminaire complete with 20.2W, 2550lumens, 126lm/cctw lumen efficacy, 50,000hours as per SPEEDBEAM or equivalent in attic space	4	nr	
<u>Wall mounted light fitting as drawings</u>				
F	IP65 rated circular luminaire complete with 14.3W, 1340lumens, 150lm/cctw lumen efficacy, 50,000hours as per ROBUS GOLF SLIM LED or equivalent	4	nr	
G	IP65 rated circular luminaire complete with 8W, 960lumens, 4000K LED, 115lm/W, 50,000hours as per ANNSELL SLEEK or equivalent	2	nr	
<u>Bulkhead luminaire as drawings</u>				
H	IP65 rated, wall mounted, bulkhead luminaire, 1050lms, 14.3w, 4000k LED or equivalent	4	nr	
J	IP65 rated wall mounted, bulkhead luminaire, 1050lms, 14.3w, 4000k LED (LUMINAIRE TO HAVE VEGA BLACK EYE TRIM ATTACHED) or equivalent	2	nr	
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<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) ELECTRICAL INSTALLATIONS</u>				
<u>(Cont) LIGHTING INSTALLATION</u>				
<u>(Cont) Bulkhead luminaire as drawings</u>				
A	IP65 rated, wall mounted, bulkhead luminaire, 1050lms, 14.3w, 4000k LED c/w 3 hour emergency pack or equivalent to communal stairs	1	nr	
<u>Shaver Light</u>				
B	Wall mounted energy saving shaver light complete with SHAVER SOCKET	4	nr	
<u>Maintained Emergency Exit Signs</u>				
C	Maintained Emergency Exit Sign c/w LED STRIP, Type 1 or Type 2 Legend c/w wall/ceiling Mounting Kit as necessary, refer to Ipsum Luminaire Schedule for detail or equivalent	1	nr	
<u>POWER INSTALLATION</u>				
<u>Conduit; heavy grade rigid PVC</u>				
D	20 fixing with saddles; plugging; concealed	2945	m	
<u>PVC insulated and sheathed cables to IS201-4:2015 LSZH as Electrical Specification colour coded for identification</u>				
E	2.5mm ² 201-4T&E insulated cable to IS 273 & BS 8436; drawn into conduits; to power	1136	m	
F	2.5mm ² 201-4T&E insulated cable to IS 273 & BS 8436; fixed to timber; to power	812	m	
G	2.5mm ² 201- XLPE/SWA/LS, insulated cable to IS 273 & BS 8436 with LSOH pliable aluminium screened cables shall have a full sized CPC; drawn into conduits; to heating, appliances etc	1428	m	
H	6.0mm ² 201-4T&E insulated cable to IS 273 & BS 8436 with LSOH pliable aluminium screened cables shall have a full sized CPC; drawn into conduits; to cooker and oven	95	m	

<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) ELECTRICAL INSTALLATIONS</u>				
<u>(Cont) POWER INSTALLATION</u>				
<u>(Cont) PVC insulated and sheathed cables to IS201-4:2015 LSZH as Electrical Specification colour coded for identificat...</u>				
A	3 core cable Silflex control cables; drawn into conduit; to heating	286	m	
B	1.5mm ² 201-4T&E insulated cable to IS 273 & BS 8436; drawn into conduits; to 2-port motorised valves	16	m	
<u>Switched socket outlets: as Drawings</u>				
C	32 amp rated capacity; double pole switch outlets with neon indicator engraved HOB/OVEN; fixing to backgrounds requiring plugging	8	nr	
D	HOB/OVEN low level connection unit; fixing to backgrounds requiring plugging	8	nr	
E	13 amp rated capacity; unswitched socket outlet; fixing to backgrounds requiring plugging	16	nr	
F	13 amp rated capacity; unswitched socket outlet; fixing to backgrounds requiring plugging associated with Frost Watch Heater in the attic space (Small Power Notes 6)	4	nr	
G	13 amp rated capacity; twin switched socket outlet; fixing to backgrounds requiring plugging	64	nr	
H	32 amp IP rated capacity; local isolator SP&N; fixing to backgrounds requiring plugging	4	nr	
J	20 amp rated capacity; double pole switched fuse spur; fixing to backgrounds requiring plugging	17	nr	
K	20 amp rated capacity; double pole switched fuse spur; fixing to backgrounds requiring plugging; for electric heater panel in communal stairs	1	nr	
Sub Bill 2 - Building Works - Housing Unit Type 19 6 No. Housing Units for Dongeal CoCo at An Glasan, (phase 2), Kilcar				
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<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) ELECTRICAL INSTALLATIONS</u>				
<u>(Cont) POWER INSTALLATION</u>				
<u>(Cont) Switched socket outlets: as Drawings</u>				
A	switched fused connection unit plus neon and flex; fixing to backgrounds requiring plugging	4	nr	
B	unswitched fused connection unit plus neon and flex; fixing to backgrounds requiring plugging in communal stairs	4	nr	
C	unswitched fused connection unit plus neon and flex; fixing to backgrounds requiring plugging	6	nr	
<u>Fittings and Accessories as Drawings</u>				
D	Quad TV/FM DAB/SATX2 quadplexer with EIR secondary & RJ45 outlet c/w 47mm deep back box; fixing in position	4	nr	
E	EIR MASTER/Secondary telephone outlet point; fixing in position, include 2 no 25mm diameter conduits and 2 no CT100 co-axial cables as per note 2 Small Power Notes	8	nr	
F	Room thermostats; fixing in position	16	nr	
G	CMEV Ventilation unit mounted in attic; fixing in position	4	nr	
H	2-Port Motorised Control Valve (Supplied by Mechanical Contractor); fixing in position	8	nr	
J	Indoor Heat Pump Unit (Supplied by Mechanical Contractor); fixing in position	4	nr	
K	MVHR Fault Indicator Switch located at High Level; fixing in position	4	nr	
L	Electric Panel Heater - 2000W	1	nr	
<u>EMERGENCY LIGHTING INSTALLATION</u>				
<u>Conduit; heavy grade rigid PVC</u>				
M	20 fixing with saddles; plugging; concealed	122	m	

<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) ELECTRICAL INSTALLATIONS</u>				
<u>(Cont) EMERGENCY LIGHTING INSTALLATION</u>				
<u>Conduit; metal</u>				
A	20 fixing with saddles; plugging; concealed	122	m	
<u>PVC insulated and sheathed cables as Electrical Specification colour coded for identification</u>				
B	'1.5mm ² PH120'e' Fire Alarm Cable; drawn into conduits	122	m	
<u>Emergency Lighting</u>				
C	AE-surface mounted IP65, LED bulkhead luminaire 285mm dia., IL rating 4000K, adjustable microwave sensor c/w and battery pack to provide maintained operation for 3 hours; fixing in position	11	nr	
D	BE-surface mounted IP65, LED bulkhead luminaire 285mm dia., IL rating 4000K, adjustable microwave sensor c/w and battery pack to provide maintained operation for 3 hours; fixing in position	1	nr	
E	IP44, surface mounted passive infrared presence detector c/w 6m dia detection at 2.5m; fixing in position	2	nr	
F	external PIR sensor, black or white finish to suit, sealed to IP55 (min); fixing in position	1	nr	
G	900lm high output surface mounted IP67 luminaire c/w 6x1.5W LED white moulded polycarbonate body, prismatic diffuser and integral relay and battery pack to provide maintained operation for 3 hours; fixing in position	2	nr	
H	<u>Extra over</u> last for ELTU	2	nr	
<u>FIRE ALARM INSTALLATION</u>				
<u>Conduit; heavy grade rigid PVC</u>				
J	20 fixing with saddles; plugging; concealed	336	m	

<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) ELECTRICAL INSTALLATIONS</u>				
<u>(Cont) FIRE ALARM INSTALLATION</u>				
<u>PVC insulated and sheathed cables as Electrical Specification, colour coded for identification</u>				
A	fire resistant cables to IS3218;2013; drawn into conduit	336	m	
B	fire resistant cables to IS3218;2013; to timber	245	m	
<u>Detectors as Electrical Specification</u>				
C	Thermally Enhanced Optical Smoke Alarm (Mains/Battery Back-up-interconnected); fixing in position	12	nr	
D	Thermally Enhanced Ionisation Smoke Alarm (Mains/Battery Back-up-interconnected); fixing in position	8	nr	
E	Heat Alarm (Mains/Battery Back-up-interconnected); fixing in position	4	nr	
F	Fire Alarm Control Switch (Test, Locate & Silence)	4	nr	
G	Fire alarm base sounder beacon base; sound level adjustable up to 90 dB(A) combined smoke detector; fixing in position	4	nr	
H	Remote led indicator for smoke detector in the roof space; fixing in position	4	nr	
<u>Control Switch as Electrical Specification</u>				
J	Hard wired control switch; interconnected; fixing in position; Aico Ei1529RC or equivalent	4	nr	
K	Relay bases, main powdered; fixing in position; Aico Ei128R or equivalent	4	nr	
<u>Fittings and Accessories as Drawings</u>				
L	Fire alarm panel c/w isolator - locakable in on and off position; fixing in position	1	nr	
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<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) ELECTRICAL INSTALLATIONS</u>				
<u>(Cont) FIRE ALARM INSTALLATION</u>				
<u>(Cont) Fittings and Accessories as Drawings</u>				
A	smoke detector; fixing in position	2	nr	
B	heat detector; fixing in position	2	nr	
C	break glass unit (Fully resettable via key operation) - Ip67 units to be installed in wet areas; fixing in position	2	nr	
D	dashed symbol indicate items within the service void/roof space c/w remote LED indicator; fixing in position	2	nr	
E	interface unit - 230V units to installed; fixing in position	1	nr	
F	Fire alarm flashing beacon; fixing in position	2	nr	
G	Fire alarm flashing key switch; fixing in position	1	nr	
H	ELTU; fixing in position	2	nr	
FIRE ALARM INSTALLATION (common Stairwell)				
<u>Conduit; Galvanised Steel Conduit</u>				
J	20 fixing with saddles; plugging; concealed	56	m	
<u>PH120 enhanced fire alarm cable, insulated and sheathed cables as Electrical Specification colour coded for identification</u>				
K	fire resistant cables to IS3218;2024; drawn into conduit	56	m	
<u>Detectors as Electrical Specification</u>				
L	Combined Smoke Detector, Flashing LED Beacon & Sounder); fixing in position	3	nr	
M	Combined Heat Detector, Flashing LED Beacon & Sounder); fixing in position	2	nr	
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<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) ELECTRICAL INSTALLATIONS</u>				
<u>(Cont) FIRE ALARM INSTALLATION (common Stairwell)</u>				
<u>(Cont) Detectors as Electrical Specification</u>				
A	Remote led indicator for smoke detector in the roof space; fixing in position	1	nr	
B	Ceiling Void smoke detector in the roof space, Linked to Ceiling Mounted LED Remote Indicator; fixing in position	1	nr	
C	IP rated Combined Sounder and Flashing Beacon; fixing in position	1	nr	
D	Manual Call Point c/w Protective Hinged Cover; fixing in position	1	nr	
E	Disabled Refuge Control Panel; fixing in position	1	nr	
F	Disabled Refuge Call Point/Outstation; fixing in position	1	nr	
<u>Fittings and Accessories as Drawings</u>				
G	Addressable One Loop Fire alarm panel (OPEN PROTOCOL)c/w isolator - locakable in on and off position; fixing in position	1	nr	
H	Fire Alarm Relay Module; fixing in position	1	nr	
J	Green coloured break glass unit for fire alarm installation; fixing in position	1	nr	
DOOR ACCESS				
<u>Conduit; galvanised steel conduit</u>				
K	20 fixing with saddles; plugging; concealed	20	m	
<u>PVC insulated and sheathed cables as Electrical Specification colour coded for identification</u>				
L	'RD415 NHXMH' Fire Alarm Cable; drawn into conduits	20	m	

<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) ELECTRICAL INSTALLATIONS</u>				
<u>(Cont) DOOR ACCESS</u>				
<u>(Cont) PVC insulated and sheathed cables as Electrical Specification colour coded for identification</u>				
A	'RD415 NHXMH' Fire Alarm Cable; fixed to timber	20	m	
B	Wired Door Chime c/w Transformer	4	nr	
C	Non-Illuminated Wired Door Chime Push Button	4	nr	
D	Door entry control unit c/w power supply unit; local 13amp switched connection unit battery back up and key switch; fixing in position	1	nr	
<u>Fittings and Accessories as Drawings</u>				
E	IP Rated Vandal Resistant Audio Intercom Unit c/w Keypad	1	nr	
F	Access Control Audio Handset c/w Door Release Button	2	nr	
G	Door/Gate access control unit c/w power supply unit , local 13amp switched connection unit battery back up and key switch; fixing in position	1	nr	
<u>HEATING CONTROL INSTALLATION</u>				
<u>Contractors are referred to the Electrical Drawings and Specification</u>				
<u>Conduit; heavy grade rigid PVC</u>				
H	20 fixing with saddles; plugging; concealed	399	m	
<u>PVC insulated and sheathed cables as Electrical Specification colour coded for identification</u>				
J	600 volt XPLE insulated cable to IS 273 & BS 8436 with LSOH pliable aluminium screened cables shall have a full sized CPC; drawn into conduit	39	m	
<u>Fittings and Accessories as Drawings</u>				

<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) ELECTRICAL INSTALLATIONS</u>				
<u>(Cont) HEATING CONTROL INSTALLATION</u>				
<u>(Cont) Fittings and Accessories as Drawings</u>				
A	Air source heat pump controller complete; fixing in position	4	nr	
B	24 volt programmable room stst installed within zone; fixing to backgrouds requiring plugging	20	nr	
C	Thermostats underfloor; fixing in position	4	nr	
D	24 volt telestatic heads; fixing in position	4	nr	
E	Actuator in 2-port value; fixing in position	4	nr	
F	Booster pump set; fixing in position	4	nr	
G	motorised control value; fixing in position	4	nr	
H	Pump relay Unit 240V-24V; fixing in position	4	nr	
J	Water temperature sensor; clamp included; fixing in position	4	nr	
K	Wiring centre connection unit	4	nr	
L	Wiring to thermostats	20	nr	
M	Wiring to pre-plumbed cylinder	4	nr	
N	Wiring to A.S.H.P controller	4	nr	
P	Wiring to heating maniflod	4	nr	
Q	External isolator; IP65 rotary switch pattern; fixing to backgrouds requiring plugging	4	nr	
<u>Cold watcher heater</u>				
R	0.5kW in attic space complete with integral wall mounting/floor standing bracket and electrical connection; clipping to pipework	4	nr	

<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) ELECTRICAL INSTALLATIONS</u>				
TELEVISION INSTALLATION				
<u>Conduit; heavy grade rigid PVC</u>				
A	20 fixing with saddles; plugging; concealed	50	m	
<u>PVC insulated and sheathed cables as Electrical Specification colour coded for identification</u>				
B	Co-axial CT/WF 100 and WF125 cables; drawn into conduit	50	m	
C	13 amp rated capacity; double outlets with dual earth terminals and outboard raockers; fixing to backgrounds requiring plugging	4	nr	
D	TV outlet; fixing to backgrounds requiring plugging	4	nr	
E	V outlet; Quad TV/FM DAB/SATX2 Quadplexer; fixing to backgrounds requiring plugging	4	nr	
F	TV signal booster; TV amplifier; fixing to backgrounds requiring plugging	4	nr	
DATA AND TELEPHONE INSTALLATION				
<u>General</u>				
G	EIR installation costs including supply to buildings and all connection fees	4	nr	
<u>Conduit; heavy grade rigid PVC</u>				
H	20 fixing with saddles; plugging; concealed	90	m	
<u>PVC insulated and sheathed cables as Electrical Specification colour coded for identification</u>				
J	Cat 6E LSF cables; drawn into conduit	90	m	
<u>Fittings and Accessories as Drawings</u>				

<u>(69) ELECTRICAL INSTALLATION (Cont)</u>			
<u>(Cont) ELECTRICAL INSTALLATIONS</u>			
<u>(Cont) DATA AND TELEPHONE INSTALLATION</u>			
<u>(Cont) Fittings and Accessories as Drawings</u>			
A	Eircom external termination unit as detailed; Network Terminating Unit and cable sleeve include; fixing to backgrounds requiring plugging	5	nr
B	Incoming service location; fixing to backgrounds requiring plugging	8	nr
C	Telephone point; fixing to backgrounds requiring plugging	4	nr
D	Dual box; fixing to backgrounds requiring plugging	4	nr
<u>GENERAL ITEMS & SUNDRIES</u>			
<u>ELECTRICAL SUB-CONTRACTOR PRELIMINARIES</u>			
E	Amount for preliminaries	1	Item
F	Amount for validation and verification	1	Item
G	Amount for attendances on ESB personnel and conforming to current ESB metering requirements.	1	Item
<u>Earthing and Bonding</u>			
H	Supply and install, test and commission a complete earthing and bonding system in accordance with the Electric Supply Company requirements, BS 7430; the ECTI wiring regulations, this Specification and Drawings	1	Item
<u>Main Equipotential Bonding</u>			
J	Tank and cold water pipes, 4nr	1	Item
K	Heating flow and return pipes, 4nr	1	Item
L	Hot water service pipes, 4nr	1	Item
M	Distribution boards, 5nr	1	Item

<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) GENERAL ITEMS & SUNDRIES</u>				
<u>(Cont) Main Equipotential Bonding</u>				
A	Eircom equipment (In addition to main equipotential bonding, a separate cream LSF/copper sheathed earth cable is required) lightning protection systems, 4nr	1	Item	
Supplementary Bonding				
B	Bonding of toilets; service pipes and the like; bonding of wash basins, associated hot and cold service pipes and the like; 4nr	1	Item	
C	Bonding of showers, associated hot and cold service pipes and the like; 4nr	1	Item	
D	Bonding of sinks, associated hot and cold service pipes and the like; 4nr	1	Item	
Cable Fixings and Terminations				
E	Generally	1	Item	
Labelling				
F	Generally	1	Item	
Testing, Commissioning & Handover				
G	Generally; Electrical Specification refers	1	Item	
H	Install, the entire installation to comply with CIBSE Technical Memoranda TM 13, (Minimising Risk of Legionnaires Disease)	1	Item	
J	Install, test and commission Dry Riser installations with 12 bar water pressure test and equipment manufacturers recommendations	1	Item	
K	Pre-Commission - Generally	1	Item	
L	Commissioning - Generally	1	Item	
M	Implementation - Generally	1	Item	
N	Completion Certification - Generally	1	Item	
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<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) GENERAL ITEMS & SUNDRIES</u>				
As fitted Drawings, Operating and Maintenance Manuals & Drawings				
A	Generally; Electrical Specification refers	1	Item	
Operating and Maintenance Manuals				
B	Amount for safety file & PSCS support to Main Contractor	1	Item	
C	Generally; Electrical Specification refers	1	Item	
Site Working Drawings				
D	Amount for co-ordination drawings	1	Item	
E	Amount for builders work drawings	1	Item	
F	Generally; Electrical Specification refers	1	Item	
Demonstration on Electrical Systems to Client				
G	Generally; Electrical Specification refers	1	Item	
H	Amount for client demonstrations at Practical Completion	1	Item	
BER Test				
J	Generally; Electrical Specification refers; The Contractor is to have a regard to the air permeability tests as noted in the specification section, prior to the completion; forward copy of the test results to the architect refers	1	Item	
<u>BUILDERS WORK IN CONNECTION WITH ELECTRICAL SERVICES</u>				
BUILDERS WORK (REFER TO SERVICES ENGINEERS DRAWINGS AND SCHEDULE)				
<u>Chases</u>				
K	50mm x 50mm nominal size; in blockwork wall; making good	1450	m	
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<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) BUILDERS WORK IN CONNECTION WITH ELECTRICAL SERVICES</u>				
<u>(Cont) BUILDERS WORK (REFER TO SERVICES ENGINEERS DRAWINGS AND SCHEDULE)</u>				
<u>(Cont) Chases</u>				
A	Fibre Reinforced airtight liquid paint; A40/125, to be applied to all internal blockwork walls at service penetrations and to seal all chases in masonry prior to installation of M&E Services; as per Architects specification and Drawing 2508/111	1450	m	
<u>Forming or cutting holes for; cables or ducting; insert grounds/trimmers as necessary; fire proofing with fire pads, cable warps, batts and fire sealant; making good structure disturbed</u>				
B	not exceeding 55mm; in 100mm blockwork wall; 1 hour fire proofing	160	nr	
C	not exceeding 55mm; in 350mm cavity blockwork wall; 1 hour fire proofing	30	nr	
<u>Marking positions of holes, mortices and chases</u>				
D	electrical services installation	1	Item	
E	fire alarm installation	1	Item	
F	telephone installation	1	Item	
<u>Holes; mortices; chases and the like, cutting or forming for concealed conduit 50mm nominal size; providing grounds; fire proofing with fire pads, cable warps, batts and fire sealant; making good structure disturbed</u>				
G	lighting points; 1 hour fire proofing	100	nr	
H	socket points; 1 hour fire proofing	314	nr	
J	fitting, equipment and control gear points; 1 hour fire proofing	100	nr	
K	power points; 1 hour fire proofing	160	nr	

<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) BUILDERS WORK IN CONNECTION WITH ELECTRICAL SERVICES</u>				
<u>(Cont) BUILDERS WORK (REFER TO SERVICES ENGINEERS DRAWINGS AND SCHEDULE)</u>				
<u>(Cont) Holes; mortices; chases and the like, cutting or forming for concealed conduit 50mm nominal size; providing grounds; fire proofing with fire...</u>				
A	Fibre Reinforced airtight liquid paint; A40/125, to be applied to all internal blockwork walls at service penetrations and to seal all chases in masonry prior to installation of M&E Services	674	nr	
<u>Flush mounted white electric meter ESB standard with hinged door and meter box key included; to opening</u>				
B	508mm x 402mm x 155mm	4	nr	
C	Fibre Reinforced airtight liquid paint; A40/125, to be applied to all internal blockwork walls at service penetrations and to seal all chases in masonry prior to installation of M&E Services	4	nr	
<u>GENERAL</u>				
D	Contractor is to include here for builders works associated with the Electrical Services. The Contractor is to liaise directly with their own Specialist Sub-Contractors with regards to the provision of all builders work required for the electrical installation; no claims will be entertained in respect of omissions or oversights on behalf of either party. Include backfilling services opes with 60 minute fire rated rockwool abalative coated fire batt or equivalent; proprietary fire sealant to both sides of opes to Architect's approval; making good existing structure on completion.	1	Item	

(69) ELECTRICAL INSTALLATION (Cont)**COLLECTION**

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**(69) ELECTRICAL INSTALLATION
Carried to Summary**

<u>(74) SANITARY FITTINGS</u>				
<u>FITTINGS</u>				
FITTINGS, EQUIPMENT AND FURNITURE				
<u>WC; "Villeroy & Boch / Ideal Standard"</u> <u>close coupled WC pan including seat and</u> <u>cover or equivalent; include for all</u> <u>necessary fixings and accessories, fixed</u> <u>to floor and wall as required installed</u> <u>in accordance with Manufacturer's</u> <u>Recommendations; as per Architect's</u> <u>Drawings and Specification N13/100</u>				
A	Fittings; sanitary; WC complete; SANDRINGHAM 21 Close-coupled open bowl 370x660x400 mm, Washdown in white glossy finish, horizontal outlet, E896301; SANDRINGHAM 21 Toilet cistern 385x190x390 mm in white glossy finish 6/4 L dual flush, E896601; MULTI SUITES - FINISHED PRODUCTS Sandwich seat 365x445x40 mm in white glossy finish, E131701; supply	4	nr	
B	Fittings; sanitary; WC complete; SANDRINGHAM 21 Close-coupled open bowl 370x660x400 mm, Washdown in white glossy finish, horizontal outlet, E896301; SANDRINGHAM 21 Toilet cistern 385x190x390 mm in white glossy finish 6/4 L dual flush, E896601; MULTI SUITES - FINISHED PRODUCTS Sandwich seat 365x445x40 mm in white glossy finish, E131701; fix	4	nr	
<u>WHB; "Villeroy & Boch / Ideal Standard"</u> <u>wash and basin and pedestal or equal</u> <u>approved; including all traps, wastes,</u> <u>plugs, fixings and accessories; fixed to</u> <u>floor and wall as required installed in</u> <u>accordance with Manufacturer's</u> <u>Recommendations; as per Architect's</u> <u>Drawings and Specifictions</u>				
C	Fittings; sanitary; WHB complete, SANDRINGHAM 21 Basin 550x460x175 mm in white glossy finish, 1 tap hole, with overflow, E894901; SANDRINGHAM 21 Full pedestal 167x164x690 mm in white glossy finish, E897601; MULTI SUITES - FINISHED PRODUCTS Click-Clack waste in chrome finish, with overflow, S8803AA ; supply	4	nr	
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<u>(74) SANITARY FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) FITTINGS, EQUIPMENT AND FURNITURE</u>				
<u>(Cont) WHB; "Villeroy & Boch / Ideal Standard" wash and basin and pedestal or equal approved; including all traps, wastes, plugs, fixings and...</u>				
A	Fittings; sanitary; WHB complete, SANDRINGHAM 21 Basin 550x460x175 mm in white glossy finish, 1 tap hole, with overflow, E894901; SANDRINGHAM 21 Full pedestal 167x164x690 mm in white glossy finish, E897601; SANDRINGHAM SL 21 Basin mixer 50x140x136 mm, 104 mm spout projection in chrome finish, 5l/min (3 bar), no waste EasyFix, EPD, SmartShine, B3307AA; MULTI SUITES - FINISHED PRODUCTS Click-Clack waste in chrome finish, with overflow, S8803AA ; fix	4	nr	
<u>WHB Tap; "Villeroy & Boch / Ideal Standard" or equivalent; include for all necessary fixings and accessories, fixed to whb as required installed in accordance with Manufacturer's Recommendations; as per Architect's Drawings and Specification N13/100</u>				
B	Fittings; sanitary; WHB taps complete; SANDRINGHAM SL 21 Basin mixer 50x140x136 mm, 104 mm spout projection in chrome finish, 5l/min (3 bar), no waste EasyFix, EPD, SmartShine, B3307AA; supply	4	nr	
C	Fittings; sanitary; WHB taps complete; SANDRINGHAM SL 21 Basin mixer 50x140x136 mm, 104 mm spout projection in chrome finish, 5l/min (3 bar), no waste EasyFix, EPD, SmartShine, B3307AA; fix	4	nr	
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<u>(74) SANITARY FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) FITTINGS, EQUIPMENT AND FURNITURE</u>				
<u>Bath; "Villeroy & Boch / Ideal Standard"</u> <u>or equivalent; 1795 x 700; ref E152201</u> <u>CONCEPT Regular bath 700 mm in white</u> <u>glossy finish; ref E479801, UNILUX Bath</u> <u>front panel 1795x16x524 mm in white</u> <u>glossy finish Detergent resistant,</u> <u>Light resistant; single lever bath mixer</u> <u>tap: 170cm x 75cm bath (150litre capacity</u> <u>) pop up waste overflow ; including all</u> <u>traps, wastes, plugs, fixings, side</u> <u>panels, slip resisting floor surface and</u> <u>accessories; fixed to floor and wall as</u> <u>required installed in accordance with</u> <u>Manufacturer's Recommendations; as per</u> <u>Architect's Drawings and Specifications</u>				
A	Fittings; sanitary; Bath; supply	1	nr	
B	Fittings; sanitary; Bath; fix	1	nr	
<u>Bath; "Villeroy & Boch / Ideal Standard"</u> <u>or equivalent; 1690 x 700; ref E258001,</u> <u>TEMPO Regular bath 1690x700x540 mm in</u> <u>white glossy finish, no tap hole, with</u> <u>overflow, no waste; ref E319401, UNILUX </u> <u>Bath front panel 1695x16x524 mm in white</u> <u>glossy finish Detergent resistant,</u> <u>Light</u> <u>resistant; single lever bath mixer tap:</u> <u>170cm x 75cm bath (150litre capacity) pop</u> <u>up waste overflow ; including all traps,</u> <u>wastes, plugs, fixings, side panels, slip</u> <u>resisting floor surface and accessories;</u> <u>fixed to floor and wall as required</u> <u>installed in accordance with</u> <u>Manufacturer's Recommendations; as per</u> <u>Architect's Drawings and Specifications</u>				
C	Fittings; sanitary; Bath; supply	1	nr	
D	Fittings; sanitary; Bath; fix	1	nr	

<u>(74) SANITARY FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) FITTINGS, EQUIPMENT AND FURNITURE</u>				
Shower head and taps to baths; "Villeroy & Boch / Ideal Standard" or equivalent; MULTI SUITES - FINISHED PRODUCTS in chrome finish, E1486AA; SANDRINGHAM SL 21 Rim mounted bath & shower mixer 231x149x70 mm, 112 mm spout projection in chrome finish, 15 l/min (3 bar) SmartShine, B3310AA; including fixings and accessories; installed in accordance with Manufacturer's Recommendations; as per Architect's Drawings and Specifications				
A	Fittings; sanitary; Bath & Shower Mixer complete; supply	2	nr	
B	Fittings; sanitary; Bath & Shower Mixer complete; fix	2	nr	
Shower/Bath Screen; "Villeroy & Boch / Ideal Standard" or equivalent; CONNECT 2 Bath screen 800x50x1410 mm in bright silver finish, Ref T9923EO; include for all necessary fixings, seals and accessories; installed in accordance with Manufacturer's Recommendations; as per Architect's Drawings and Specifications				
C	Fittings; sanitary; shower/bath screen; supply	2	nr	
D	Fittings; sanitary; shower/bath screen; fix	2	nr	
Shower head; "Villeroy & Boch / Ideal Standard" or equivalent; including fixings and accessories; installed in accordance with Manufacturer's Recommendations; as per Architect's Drawings and Specifications				
E	Fittings; sanitary; Shower Mixer complete; CERATHERM T25 Exposed shower mixer 315x99x70 mm in chrome finish, 8 l/min (3 bar) Thermostatic function, Water & Energy savings, Safety stop, Smart Shine, ref A7205AA; supply	2	nr	

<u>(74) SANITARY FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) FITTINGS, EQUIPMENT AND FURNITURE</u>				
<u>(Cont) Shower head; "Villeroy & Boch / Ideal Standard" or equivalent; including fixings and accessories; installed in accordance with...</u>				
A	Thermostatic function, Water & Energy savings, Safety stop, Smart Shine, ref A7205AA; fix	2	nr	
<u>Shower Unit with "Villeroy & Boch / Ideal Standard" or equivalent; including fixings, fixtures and accessories; installed in accordance with Manufacturer's Recommendations; as per Architect's Drawings and Specifications</u>				
B	Fittings; sanitary; Shower Tray; SIMPLICITY Square shower tray 810x810x40 mm in white glossy finish, with waste Accessible design, ref L508701; supply	2	nr	
C	Fittings; sanitary; Shower Tray; SIMPLICITY Square shower tray 810x810x40 mm in white glossy finish, with waste Accessible design, ref L508701; fix	2	nr	
<u>Shower room pack Arch Spec (N13.106); fixed to masonry/tile wall including all fixings and brackets as necessary all as per Architects Drawings, Specification and installed as per Manufacturer's Recommendations</u>				
D	Fittings; sanitary; Shower Room Pack ; supply	4	nr	
E	Fittings; sanitary; Shower Room Pack; fix	4	nr	
<u>Mirror; 600mm x 450mm with 4 number chrome head mirror screws including all fixings and brackets as necessary all as per Architects Drawings, Specification and installed as per Manufacturer's Recommendations</u>				
F	Fittings; sanitary; Mirror; supply	4	nr	
G	Fittings; sanitary; Mirror; fix	4	nr	
Sub Bill 2 - Building Works - Housing Unit Type 19 6 No. Housing Units for Dongeal CoCo at An Glasan, (phase 2), Kilcar		19/5		To Collection €

<u>(74) SANITARY FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) FITTINGS, EQUIPMENT AND FURNITURE</u>				
<u>Bathroom Fittings; including all fixings and brackets as necessary all as per Architects Drawings, Specification and installed as per Manufacturer's Recommendations</u>				
A	Rail 1 - CONTOUR 21 107x800x848 mm in white finish DOC M compliant, Core elements from Aluminum; S6360AC; supply	12	nr	
B	Rail 1 - CONTOUR 21 107x800x848 mm in white finish DOC M compliant, Core elements from Aluminum; S6360AC; fit	12	nr	
C	Rail 2 horizontal - CONTOUR 21 Grab rail 600 mm in white finish; S0853AC; supply	4	nr	
D	Rail 2 horizontal - CONTOUR 21 Grab rail 600 mm in white finish; S0853AC; fit	4	nr	
E	Rail 3 vertical - CONTOUR 21 Grab rail 600 mm in white finish; S0853AC; supply	20	nr	
F	Rail 3 vertical - CONTOUR 21 Grab rail 600 mm in white finish; S0853AC; fit	20	nr	
G	Rail 4 horizontal - CONTOUR 21 Grab rail 485 mm in white finish; S0854AC; supply	8	nr	
H	Rail 4 horizontal - CONTOUR 21 Grab rail 485 mm in white finish; S0854AC; fit	8	nr	
<u>Bathroom Fittings; including all fixings and brackets as necessary all as per Architects Drawings, Specification and installed as per Manufacturer's Recommendations</u>				
J	Fittings; sanitary; Towel rail; 450mm fixed to masonry; supply	4	nr	
K	Fittings; sanitary; Towel rail; 450mm fixed to masonry; fix	4	nr	
L	Fittings; sanitary; Ceramic soap dish with bracket and holder; 450mm fixed to masonry; supply	4	nr	
Sub Bill 2 - Building Works - Housing Unit Type 19 6 No. Housing Units for Dongeal CoCo at An Glasan, (phase 2), Kilcar		19/6	To Collection €	

<u>(74) SANITARY FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) FITTINGS, EQUIPMENT AND FURNITURE</u>				
<u>(Cont) Bathroom Fittings; including all</u>				
<u>fixings and brackets as necessary all as</u>				
<u>per Architects Drawings, Specification</u>				
<u>and installed as per...</u>				
A	Fittings; sanitary; Ceramic soap dish with bracket and holder; 450mm fixed to masonry; fix	4	nr	
B	Fittings; sanitary; Toilet roll holder; 450mm fixed to masonry; supply	4	nr	
C	Fittings; sanitary; Toilet roll holder; 450mm fixed to masonry; fix	4	nr	
BWIC WITH SANITARY WARE				
<u>The Contractor is to provide the</u>				
<u>following builders work in connection</u>				
<u>with sanitary ware</u>				
Sundries				
D	all necessary temporary fixing of sanitary fixings in position and the removal and re-fixing to suit other trades. Fixing rates to include for fixing to blockwork, concrete, studs or purpose made cabinets	1	Item	
E	co-ordinating with sub-contractor for all instances where the connection of supplies or wastes and the fixing of the fittings must process as a single operation	1	Item	
F	sealing junction of sanitary fittings and background with mastic sealant	1	Item	
G	fixing grounds to support sanitary fittings as required	1	Item	
Sub Bill 2 - Building Works - Housing Unit Type 19				
6 No. Housing Units for Dongeal CoCo				
at An Glasan, (phase 2), Kilcar				
19/7				To Collection €

<u>(74) SANITARY FITTINGS (Cont)</u> COLLECTION Page No. 19/1 Page No. 19/2 Page No. 19/3 Page No. 19/4 Page No. 19/5 Page No. 19/6 Page No. 19/7 (74) SANITARY FITTINGS Carried to Summary				
Sub Bill 2 - Building Works - Housing Unit Type 19 6 No. Housing Units for Dongeal CoCo at An Glasan, (phase 2), Kilcar				

<u>(79) BUILDING FITTINGS</u>				
<u>FITTINGS</u>				
MANIFOLD CUPBOARDS				
<u>Manifold cupboard; formica veneered plywood backs, front, sides, base and top</u>				
A	800 x 350 x 750; lockable doors; fixing to blockwork backgrounds	4	nr	
NUMBER PLATES				
<u>Special purpose letter box Spec, number plate to be 2mm brushed stainless steel, grade 304, black acrylic numbers with stainless steel fixings; architects drawing 2507/149</u>				
B	Supply and install number plate to each house/apartment type; 150 x 100mm	4	nr	
LETTER BOXES				
<u>Special purpose letter box Spec (P21.300) ; architects drawing 2507/149</u>				
C	Supply and install letter box to each house/apartment type; wall mounted letter box to be high density polypropylene or equivalent, weather resistant top flap and drop down opening, 2 no keys to be supplied, fixings to be stainless steel; 410 x 260mm	4	nr	
KITCHEN UNITS;				
<u>APARTMENT 1; Equipment - Domestic kitchen Arch Spec (N10-150-780) in accordance with the Architects drawing 2507/26, 2507/27 & 2507/28</u>				

<u>(79) BUILDING FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) KITCHEN UNITS;</u>				
<u>(Cont) APARTMENT 1; Equipment - Domestic kitchen Arch Spec (N10-150-780) in accordance with the Architects drawing 2507/26, 2507/27 &...</u>				
Kitchen; Base and Wall Units; to be deisgn to BS 6222 and as per Architects Specification N10/150; contractor to submit kitchen layouts, samples and colours for architects approval including post formed plastic laminate counter top to selected colour or equal approved; comprising of 4 Nr high level cupboards with cooker extract; 1Nr 600mm base unit (Drawers), 6Nr 600mm base units, 2Nr openings for appliances; including cutlery divider, including stainless steel sink unit; including all required ironmongery; including 100mm plinth under unit to accomodate services; including frame, sub-frame, fixings, plywood as required; all timber to be moisture resistant; stainless steel sink with single bowl, drainer, mixer tap and plug; including mastic pointing between wall finish and framing; complete as per Architects Drawings 2507/26, 2507/27 & 2507/28 and Specification N10/150 <i>Elevation A, B, C, D - Flat</i>				
A	SBU, 600mm wide x 600mm deep x 900mm high	3	nr	
B	CBU, 1200/850mm wide x 600mm deep x 900mm high	1	nr	
C	SBDU, 600mm wide x 600mm deep x 900mm high	1	nr	
D	STU, 600mm wide x 600mm deep x 2110mm high	1	nr	
E	DWU, 1200mm wide x 300mm deep x 750mm high	1	nr	
F	SWU 600mm wide x 300mm deep x 750mm high	1	nr	
G	Cooker space 600mm wide x 600mm deep x 900mm high	1	nr	
Sub Bill 2 - Building Works - Housing Unit Type 19		To Collection €		
6 No. Housing Units for Dongeal CoCo		20/2		
at An Glasan, (phase 2), Kilcar				

<u>(79) BUILDING FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) KITCHEN UNITS;</u>				
<u>(Cont) APARTMENT 1; Equipment - Domestic kitchen Arch Spec (N10-150-780) in accordance with the Architects drawing 2507/26, 2507/27 &...</u>				
<u>(Cont) Kitchen; Base and Wall Units; to be deisgn to BS 6222 and as per Architects Specification N10/150; contractor to submit kitchen...</u>				
A	Cooker hood extract with 600mm wide x 600mm deep;	1	nr	
B	Washing machine under worktop with 600mm wide x 600mm deep x 900mm high	1	nr	
C	Dishwasher under worktop with 600mm wide x 600mm deep x 900mm high	1	nr	
D	Fridge space 600mm wide x 600mm deep x 2110mm high	1	nr	
E	<u>Extra over</u> last for gable ends low level 600 x 900mm high	5	nr	
F	<u>Extra over</u> last for gable ends low level 600 x 2100mm high	2	nr	
G	Stainless steel sink as M&E Engineers Schedule; Franke Ascona ASX 651 1.5 sink with reversible bowl, silk steel). Single-lever basin mixer with click cartridge, waste, with flow restricted to 5 litres of water per minute at 3 bar pressure. EcoFlow 5 litre/min flow regulator aerator outlet	1	nr	
	<i>Worktop in accordance with the Architects specification</i>			
H	600mm wide x 2400mm long		nr	
J	600mm wide x 2650mm long		nr	
K	<u>Extra over</u> last for cutting opening for sink	1	nr	
L	600mm wide x 1200mm long		nr	

<u>(79) BUILDING FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) KITCHEN UNITS;</u>				
APARTMENT 2; Equipment - Domestic kitchen Arch Spec (N10-150-780) in accordance with the Architects drawing 2507/26, 2507/27 & 2507/28				
Kitchen; Base and Wall Units; to be deisgn to BS 6222 and as per Architects Specification N10/150; contractor to submit kitchen layouts, samples and colours for architects approval including post formed plastic laminate counter top to selected colour or equal approved; comprising of 4 Nr high level cupboards with cooker extract; 1Nr 600mm base unit (Drawers), 6Nr 600mm base units, 2Nr openings for appliances; including cutlery divider, including stainless steel sink unit; including all required ironmongery; including 100mm plinth under unit to accomodate services; including frame, sub-frame, fixings, plywood as required; all timber to be moisture resistant; stainless steel sink with single bowl, drainer, mixer tap and plug; including mastic pointing between wall finish and framing; complete as per Architects Drawing 2508/27 and Specification N10/150				
<i>Elevation A, B, C, D - Flat</i>				
A	SBU, 600mm wide x 600mm deep x 900mm high	2	nr	
B	CBU, 1100/850mm wide x 600mm deep x 900mm high	1	nr	
C	SBDU, 600mm wide x 600mm deep x 900mm high	1	nr	
D	STU, 500mm wide x 600mm deep x 2110mm high	1	nr	
E	DWU, 1200mm wide x 300mm deep x 750mm high	1	nr	
F	Cooker space 600mm wide x 600mm deep x 900mm high	1	nr	
G	Cooker hood extract with 600mm wide x 600mm deep;	1	nr	
Sub Bill 2 - Building Works - Housing Unit Type 19 6 No. Housing Units for Dongeal CoCo at An Glasan, (phase 2), Kilcar		20/4		To Collection €

<u>(79) BUILDING FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) KITCHEN UNITS;</u>				
<u>(Cont) APARTMENT 2; Equipment - Domestic kitchen Arch Spec (N10-150-780) in accordance with the Architects drawing 2507/26, 2507/27 &...</u>				
<u>(Cont) Kitchen; Base and Wall Units; to be deisgn to BS 6222 and as per Architects Specification N10/150; contractor to submit kitchen...</u>				
A	Washing machine under worktop with 600mm wide x 600mm deep x 900mm high	1	nr	
B	Dishwasher under worktop with 600mm wide x 600mm deep x 900mm high	1	nr	
C	Fridge space 600mm wide x 600mm deep x 2110mm high	1	nr	
D	<u>Extra over</u> last for gable ends low level 600 x 900mm high	4	nr	
E	<u>Extra over</u> last for gable ends low level 600 x 2100mm high	2	nr	
F	Stainless steel sink as M&E Engineers Schedule; Franke Ascona ASX 651 1.5 sink with reversible bowl, silk steel). Single-lever basin mixer with click cartridge, waste, with flow restricted to 5 litres of water per minute at 3 bar pressure. EcoFlow 5 litre/min flow regulator aerator outlet	1	nr	
	<i>Worktop in accordance with the Architects specification</i>			
G	600mm wide x 1700mm long	1	nr	
H	600mm wide x 2650mm long	1	nr	
J	<u>Extra over</u> last for cutting opening for sink	1	nr	
<u>APARTMENT 3; Equipment - Domestic kitchen Arch Spec (N10-150-780) in accordance with the Architects drawing 2507/26, 2507/27 & 2507/28</u>				

<u>(79) BUILDING FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) KITCHEN UNITS;</u>				
<u>(Cont) APARTMENT 3; Equipment - Domestic</u>				
<u>kitchen Arch Spec (N10-150-780) in</u>				
<u>accordance with the Architects drawing</u>				
<u>2507/26, 2507/27 &...</u>				
Kitchen; Base and Wall Units; to be deisgn to BS 6222 and as per Architects Specification N10/150; contractor to submit kitchen layouts, samples and colours for architects approval including post formed plastic laminate counter top to selected colour or equal approved; comprising of high level cupboards with cooker extract; 600mm base unit (Drawers), 600mm base units, openings for appliances; including cutlery divider, including stainless steel sink unit; including all required ironmongery; including 100mm plinth under unit to accomodate services; including frame, sub-frame, fixings, plywood as required; all timber to be moisture resistant; stainless steel sink with single bowl, drainer, mixer tap and plug; including mastic pointing between wall finish and framing; complete as per Architects Drawing 2508/27 and Specification N10/150 <i>Elevation A, B, C, D - Flat</i>				
A	SBU, 600mm wide x 600mm deep x 900mm high	2	nr	
B	CBU, 1000/850mm wide x 600mm deep x 900mm high	1	nr	
C	SBDU, 600mm wide x 600mm deep x 900mm high	1	nr	
D	DTU, 900mm wide x 600mm deep x 2110mm high	1	nr	
E	DWU, 1200mm wide x 300mm deep x 750mm high	2	nr	
F	CWU, 60mm wide x 300mm deep x 750mm high	1	nr	
G	SWU, 60mm wide x 300mm deep x 750mm high	1	nr	
H	Cooker space 600mm wide x 600mm deep x 900mm high	1	nr	
Sub Bill 2 - Building Works - Housing Unit Type 19		To Collection €		
6 No. Housing Units for Dongeal CoCo		20/6		
at An Glasan, (phase 2), Kilcar				

<u>(79) BUILDING FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) KITCHEN UNITS;</u>				
<u>(Cont) APARTMENT 3; Equipment - Domestic kitchen Arch Spec (N10-150-780) in accordance with the Architects drawing 2507/26, 2507/27 &...</u>				
<u>(Cont) Kitchen; Base and Wall Units; to be deisgn to BS 6222 and as per Architects Specification N10/150; contractor to submit kitchen...</u>				
A	Cooker hood extract with 600mm wide x 600mm deep;	1	nr	
B	Washing machine under worktop with 600mm wide x 600mm deep x 900mm high	1	nr	
C	Dishwasher under worktop with 600mm wide x 600mm deep x 900mm high	1	nr	
D	Fridge space 900mm wide x 600mm deep x 2110mm high	1	nr	
E	<u>Extra over</u> last for gable ends low level 600 x 900mm high	5	nr	
F	<u>Extra over</u> last for gable ends low level 600 x 2100mm high	2	nr	
G	Stainless steel sink as M&E Engineers Schedule; Franke Ascona ASX 651 1.5 sink with reversible bowl, silk steel). Single-lever basin mixer with click cartridge, waste, with flow restricted to 5 litres of water per minute at 3 bar pressure. EcoFlow 5 litre/min flow regulator aerator outlet <i>Worktop in accordance with the Architects specification</i>	1	nr	
H	600mm wide x 2800mm long	1	nr	
J	600mm wide x 2050mm long	1	nr	
K	<u>Extra over</u> last for cutting opening for sink	1	nr	
<u>APARTMENT 4; Equipment - Domestic kitchen Arch Spec (N10-150-780) in accordance with the Architects drawing 2507/26, 2507/27 & 2507/28</u>				

<u>(79) BUILDING FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) KITCHEN UNITS;</u>				
<u>(Cont) APARTMENT 4; Equipment - Domestic</u>				
<u>kitchen Arch Spec (N10-150-780) in</u>				
<u>accordance with the Architects drawing</u>				
<u>2507/26, 2507/27 &...</u>				
Kitchen; Base and Wall Units; to be deisgn to BS 6222 and as per Architects Specification N10/150; contractor to submit kitchen layouts, samples and colours for architects approval including post formed plastic laminate counter top to selected colour or equal approved; comprising of 4 Nr high level cupboards with cooker extract; 1Nr 600mm base unit (Drawers), 6Nr 600mm base units, 2Nr openings for appliances; including cutlery divider, including stainless steel sink unit; including all required ironmongery; including 100mm plinth under unit to accomodate services; including frame, sub-frame, fixings, plywood as required; all timber to be moisture resistant; stainless steel sink with single bowl, drainer, mixer tap and plug; including mastic pointing between wall finish and framing; complete as per Architects Drawing 2508/27 and Specification N10/150 <i>Elevation A, B, C, D - Flat</i>				
A	SBU, 600mm wide x 600mm deep x 900mm high	2	nr	
B	CBU, 1015/900mm wide x 600mm deep x 900mm high	1	nr	
C	CBU, 900/900mm wide x 600mm deep x 900mm high	1	nr	
D	SBDU, 600mm wide x 600mm deep x 900mm high	1	nr	
E	STU, 600mm wide x 600mm deep x 2110mm high	3	nr	
F	SWU, 600mm wide x 300mm deep x 750mm high	1	nr	
G	DWU, 1200mm wide x 300mm deep x 750mm high	1	nr	
Sub Bill 2 - Building Works - Housing Unit Type 19		To Collection €		
6 No. Housing Units for Dongeal CoCo		20/8		
at An Glasan, (phase 2), Kilcar				

<u>(79) BUILDING FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) KITCHEN UNITS;</u>				
<u>(Cont) APARTMENT 4; Equipment - Domestic kitchen Arch Spec (N10-150-780) in accordance with the Architects drawing 2507/26, 2507/27 &...</u>				
<u>(Cont) Kitchen; Base and Wall Units; to be deisgn to BS 6222 and as per Architects Specification N10/150; contractor to submit kitchen...</u>				
A	Cooker space 600mm wide x 600mm deep x 900mm high	1	nr	
B	Cooker hood extract with 600mm wide x 600mm deep;	1	nr	
C	Washing machine under worktop with 600mm wide x 600mm deep x 900mm high	1	nr	
D	Dishwasher under worktop with 600mm wide x 600mm deep x 900mm high	1	nr	
E	Fridge space 600mm wide x 600mm deep x 2110mm high	1	nr	
F	<u>Extra over</u> last for gable ends low level 600 x 900mm high	5	nr	
G	<u>Extra over</u> last for gable ends high level 600 x 2100mm high	4	nr	
H	Stainless steel sink as M&E Engineers Schedule; Franke Ascona ASX 651 1.5 sink with reversible bowl, silk steel). Single-lever basin mixer with click cartridge, waste, with flow restricted to 5 litres of water per minute at 3 bar pressure. EcoFlow 5 litre/min flow regulator aerator outlet	1	nr	
<i>Worktop in accordance with the Architects specification</i>				
J	600mm wide x 2100mm long	1	nr	
K	600mm wide x 3415mm long	1	nr	
L	600mm wide x 1800mm long	1	nr	
M	<u>Extra over</u> last for cutting opening for sink	1	nr	

<u>(79) BUILDING FITTINGS (Cont)</u> <u>(Cont) FITTINGS</u> BUILT IN STORAGE Store shelving;1.0 metre wide, Storage area to be provided with deep slatted shelving in 75 x 19 mm red deal slats on red deal supports and brackets, painted finish. - Stores on ground floor units to be shelved after installation of Internal Heat Pump and related M&E works as per Mechanical and Electrical Engineers recommendation. - Stores to Shelves to be provided at five levels with highest shelf at 1.8 meters above floor level and tall open storage for ironing board, floor brush etc; fixed back to partitions/ blockwork; including all grounds as required; including all fittings and fixtures; all as per Architect's Specification N10/152 A Furniture, furnishings; shelving; Shelving (PROVISIONAL) WARDROBES APARTMENT 1; FITTED BUILT IN WARDROBE (As indicated on drawings); Manufacturer: to be approved detailed wardrobe layouts, samples, and colours to be supplied for approval before placing order; Full length floor to ceiling wardrobe units; All carcasses and panel sheet material to be manufactured from high density, fine surface 18mm MFC core board to EN 312. Each wardrobe should contain a 450 mm width of 6 shelves and two 30 mm deep proprietary chromed steel hanging rails and brackets; Doors to be from 25mm MDF painted finish with dampened action, hold open hinges, three per leaf; Wardrobe; contractor to submit layouts, samples and colours for architects approval as per Architects Specification N10/151; All carcasses and panel sheet material to be manufactured from high density, fine surface 18mm MFC core board to EN 312; all as per Architect's specification and Wardrobe Details drawing	4	nr		
Sub Bill 2 - Building Works - Housing Unit 6 No. Housing Units for Dongeal CoCo at An Glasan, (phase 2), Kilcar	Type 19 20/10		To Collection €	

<u>(79) BUILDING FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) WARDROBES</u>				
<u>(Cont) APARTMENT 1; FITTED BUILT IN WARDROBE (As indicated on drawings); Manufacturer: to be approved detailed wardrobe layouts, samples, and colours...</u>				
A	Furniture, furnishings; wardrobe; overall size 2000mm long x 2500mm high x 600mm deep; wardrobe to Bedroom 1	1	nr	
B	Furniture, furnishings; wardrobe; overall size 2100mm long x 2500mm high x 600mm deep; wardrobe to Bedroom 2	1	nr	
<u>APARTMENT 2; FITTED BUILT IN WARDROBE (As indicated on drawings); Manufacturer: to be approved detailed wardrobe layouts, samples, and colours to be supplied for approval before placing order; Full length floor to ceiling wardrobe units; All carcasses and panel sheet material to be manufactured from high density, fine surface 18mm MFC core board to EN 312. Each wardrobe should contain a 450 mm width of 6 shelves and two 30 mm deep proprietary chromed steel hanging rails and brackets; Doors to be from 25mm MDF painted finish with dampened action, hold open hinges, three per leaf; Wardrobe; contractor to submit layouts, samples and colours for architects approval as per Architects Specification N10/151; All carcasses and panel sheet material to be manufactured from high density, fine surface 18mm MFC core board to EN 312; all as per Architect's specification and Wardrobe Details drawing</u>				
C	Furniture, furnishings; wardrobe; overall size 2800mm long x 2500mm high x 600mm deep; wardrobe to Bedroom 1	1	nr	
D	Furniture, furnishings; wardrobe; overall size 1500mm long x 2500mm high x 600mm deep; wardrobe to Bedroom 2	1	nr	
Sub Bill 2 - Building Works - Housing Unit Type 19 6 No. Housing Units for Dongeal CoCo at An Glasan, (phase 2), Kilcar				To Collection €

<u>(79) BUILDING FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) WARDROBES</u>				
APARTMENT 3; FITTED BUILT IN WARDROBE (As indicated on drawings); Manufacturer: to be approved detailed wardrobe layouts, samples, and colours to be supplied for approval before placing order; Full length floor to ceiling wardrobe units; All carcasses and panel sheet material to be manufactured from high density, fine surface 18mm MFC core board to EN 312. Each wardrobe should contain a 450 mm width of 6 shelves and two 30 mm deep proprietary chromed steel hanging rails and brackets; Doors to be from 25mm MDF painted finish with dampened action, hold open hinges, three per leaf; Wardrobe; contractor to submit layouts, samples and colours for architects approval as per Architects Specification N10/151; All carcasses and panel sheet material to be manufactured from high density, fine surface 18mm MFC core board to EN 312; all as per Architect's specification and Wardrobe Details drawing				
A	Furniture, furnishings; wardrobe; overall size 2000mm long x 2500mm high x 600mm deep; wardrobe to Bedroom 1	1	nr	
B	Furniture, furnishings; wardrobe; overall size 1500mm long x 2500mm high x 600mm deep; wardrobe to Bedroom 2	1	nr	
Sub Bill 2 - Building Works - Housing Unit Type 19 6 No. Housing Units for Dongeal CoCo at An Glasan, (phase 2), Kilcar				
To Collection €				

<u>(79) BUILDING FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) WARDROBES</u>				
APARTMENT 4; FITTED BUILT IN WARDROBE (As indicated on drawings); Manufacturer: to be approved detailed wardrobe layouts, samples, and colours to be supplied for approval before placing order; Full length floor to ceiling wardrobe units; All carcasses and panel sheet material to be manufactured from high density, fine surface 18mm MFC core board to EN 312. Each wardrobe should contain a 450 mm width of 6 shelves and two 30 mm deep proprietary chromed steel hanging rails and brackets; Doors to be from 25mm MDF painted finish with dampened action, hold open hinges, three per leaf; Wardrobe; contractor to submit layouts, samples and colours for architects approval as per Architects Specification N10/151; All carcasses and panel sheet material to be manufactured from high density, fine surface 18mm MFC core board to EN 312; all as per Architect's specification and Wardrobe Details drawing				
A	Furniture, furnishings; wardrobe; overall size 3200mm long x 2500mm high x 600mm deep; wardrobe to Bedroom 1	1	nr	
B	Furniture, furnishings; wardrobe; overall size 1500mm long x 2500mm high x 600mm deep; wardrobe to Bedroom 2	1	nr	
Sub Bill 2 - Building Works - Housing Unit Type 19 6 No. Housing Units for Dongeal CoCo at An Glasan, (phase 2), Kilcar				
To Collection €				

<u>(79) BUILDING FITTINGS (Cont)</u> COLLECTION Page No. 20/1 Page No. 20/2 Page No. 20/3 Page No. 20/4 Page No. 20/5 Page No. 20/6 Page No. 20/7 Page No. 20/8 Page No. 20/9 Page No. 20/10 Page No. 20/11 Page No. 20/12 Page No. 20/13 (79) BUILDING FITTINGS Carried to Summary				
Sub Bill 2 - Building Works - Housing Unit Type 19 6 No. Housing Units for Dongeal CoCo at An Glasan, (phase 2), Kilcar				

SUNDRIES

SUNDRIES

The Contractor is to include for any other items necessary to complete the works

A

B

C

Sub Bill 2 - Building Works - Housing Unit Type 19
6 No. Housing Units for Dongeal CoCo 21/1
at An Glasan, (phase 2), Kilcar

To Collection €	
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SUNDRIES (Cont)

COLLECTION

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SUNDRIES

Carried to Summary

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BILL NO. 3

BUILDING WORKS – HOUSE TYPE 22

<u>(19) SUBSTRUCTURE</u>				
<u>EXCAVATING AND EARTHWORK</u>				
Excavation				
A	Work in this element comprises			
B	All descriptions are to be read with the drawings and specification (see separate document) referred to in the Bills of Quantities; All workmanship clauses and those of a general nature are deemed to be included	Note		
C	Design, detailing and construction of temporary works is the sole responsibility of the Contractor. Include for any temporary works costs associated with the substructure within the rates below.	Note		
D	Allow for protection to existing hard surfaces outside the boundary of the site. Any damage to public areas by the Contractor to be reinstated at the expense of the Contractor.	Note		
E	Temporary diversions of existing services installations to facilitate the construction of the works are not measured. The Contractor is deemed to have included within his rates for all costs associated with temporary diversions/service relocations that are required in order to complete the works	Note		
F	Rock is defined as any materials met within excavation which is of such size or position that it can only be removed by means of wedges, special plant or explosives.	Note		
G	The Contractor shall allow for all double handling of excavated material, fill material, concrete and all materials as necessary to complete the works in accordance with the Engineers drawings and specification.	Note		
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 To Collection €				
6 No. Dwelling Units for Donegal CoCo 1/1				
at An Glasan, (phase 2), Kilcar				

<u>(19) SUBSTRUCTURE (Cont)</u>				
<u>(Cont) EXCAVATING AND EARTHWORK</u>				
(Cont) Excavation				
A	The Contractor is deemed to have visited the site prior to tendering and fully acquainted himself with all conditions affecting the execution of the works including local conditions, access to the site and to the works and all other matters that may affect his tender. The Contractor will be deemed to have included for all costs arising from the foregoing in his tender.		Note	
	Excavating foundation trenches to receive trench fill concrete; starting from reduced level			
B	between not exceeding 1.00 metres depth	72	m3	
	Excavating foundation trenches; starting from reduced level			
C	not exceeding 2 m deep	144	m3	
D	<u>extra over</u> breaking out existing; rock	5	m3	
	Disposal of excavated material;			
E	Off site	216	m3	
	Disposal of water			
F	Ground	1	Item	
G	Surface	1	Item	
	Working space excavations			
H	To faces of excavation; maximum depth less than or equal to 1.0m, distance between opposing faces not exceeding 2.0m		m2	
	Filling; hardcore ; imported to beds; average thickness Filling; T1 Fill; all in accordance with the Structural Engineer's specification and drawings; in layers not exceeding 150mm; compacted with vibrating roller			
J	Not exceeding 0.25m	62	m3	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 To Collection €				
6 No. Dwelling Units for Donegal CoCo 1/2				
at An Glasan, (phase 2), Kilcar				

<u>(19) SUBSTRUCTURE (Cont)</u>				
<u>(Cont) EXCAVATING AND EARTHWORK</u>				
Filling; hardcore ; imported to beds; average thickness Filling; T2 Permeable Fill as SR21; 2014 + A1: 2016 Annex E all in accordance with the Structural Engineer's specification and drawings; in layers not exceeding 150mm				
A	Not exceeding 0.25m	56	m3	
Filling; hardcore ; imported to excavations; average thickness Filling; T2 Permeable Fill as SR21; 2014 + A1: 2016 Annex E all in accordance with the Structural Engineer's specification and drawings; in layers not exceeding 150mm				
B	Exceeding 0.25m	33	m3	
Surface treatments				
C	Blinding filling T3 with sand; 50mm thick	260	m2	
D	Compacting bottom of excavations	248	m2	
E	Compacting T1 Fill with vibrating roller	260	m2	
<u>CONCRETE WORK</u>				
IN-SITU CONCRETE				
<u>Trench Fill Concrete; GRADE C15</u>				
Leanmix trenchfill concrete down to firm bearing strata, poured on or against earth, entire trench to be filled with concrete; include all additional labour and material for concrete trench fill works being combined with excavation operations				
F	to foundation trenches; 1.0 - 2.0 metre deep	72	m3	
<u>PLAIN CONCRETE TO BS8500 & IS EN 206, GRADE C16/20</u>				
Blinding				
G	generally; poured on or against earth/broken rock or unblinded hardcore	8	m3	

<u>(19) SUBSTRUCTURE (Cont)</u>				
<u>(Cont) CONCRETE WORK</u>				
<u>(Cont) IN-SITU CONCRETE</u>				
<u>(Cont) PLAIN CONCRETE TO BS8500 & IS EN 206, GRADE C16/20</u>				
Cavity Fill; Not exceeding 300mm thick				
A	holes (provisional)	4	m3	
Sundries; filling holes				
B	holes (provisional)	10	m3	
<u>REINFORCED CONCRETE TO BS8500 & IS EN 206, GRADE C32/40</u>				
Foundations				
C	generally	44	m3	
Threshold sill				
D	cross sectional area not exceeding 0.10m2	2	m3	
<u>REINFORCEMENT</u>				
Reinforcement bars; Hot rolled plain round mild steel; all in compliance with BS EN 10138 and BS 4449:2005 and 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 bending schedules, drawings and Specification:				
<i>Fabric; reference A393; 300mm side laps, 400mm end laps</i>				
E	Horizontal; in foundations; to top and bottom of foundations	288	m2	
<u>FORMWORK</u>				
Formwork; sawn surface finish to concrete ; Class F1 finish; rough finish to comply with EN 1992-1-1:2004; all in strict accordance with the Engineers Specification				

<u>(19) SUBSTRUCTURE (Cont)</u>				
<u>(Cont) CONCRETE WORK</u>				
<u>(Cont) IN-SITU CONCRETE</u>				
<u>(Cont) FORMWORK</u>				
(Cont) Formwork; sawn surface finish to concrete; Class F1 finish; rough finish to comply with EN 1992-1-1:2004; all in strict accordance with the...				
<i>Sides of foundations; at discretion of Contractor</i>				
A	exceeding 250mm and not exceeding 500mm	320	m	
<u>Sundries</u>				
Tamping; to tops of foundations				
B	horizontal; to falls and cross falls	144	m2	
<u>PRECAST CONCRETE</u>				
<u>Precast concrete; pre-tensioned lintels; mix grade 30N/mm2; 20 aggregate; smooth finish; bedding and pointing in Group 1 mortar as Engineers Specification 9.0</u>				
C	Lintels; 100mm wide x 150mm high	8	m	
<u>Precast concrete; door threshold; mix grade 30N/mm2; 20 aggregate; smooth finish; bedding and pointing in Group 1 mortar as Engineers Specification 9.0; asll as per Architecst Drawing 2508/110</u>				
D	Door Threshold; 90mm wide x 60mm high	7	m	
<u>Precast concrete floor slabs</u>				
Contractor designed; precast concrete floor slabs with a live load of 2.5KN/m2; span less than or equal to 5.00m including filled ends to all units; filling with mortar between the units; for approval prior to manufacture, all calculations to be submitted to the structural engineer a minimum of 3 weeks prior to manufacture; all in accordance with the Architects and Structural Engineers specifications 9.0, 9.1 & 9.1.1; all as per Engineers Drawing 1966/T01/004				
E	200mm thick	266	m2	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				To Collection €

<u>(19) SUBSTRUCTURE (Cont)</u>				
<u>(Cont) CONCRETE WORK</u>				
<u>(Cont) PRECAST CONCRETE</u>				
<u>(Cont) Precast concrete floor slabs</u>				
<u>(Cont) Contractor designed; precast concrete floor slabs with a live load of 2.5KN/m2; span less than or equal to 5.00m including filled ends to all...</u>				
A	Extra over last for grouting floor units	266	m2	
<u>BRICKWORK & BLOCKWORK</u>				
Solid blockwork, to IS EN 771-3 and in accordance with IS EN ISO 9001; Quality Management System and (EU) No 305/2011, standard blocks dense aggregate 440mm x 100mm x 215mm units; 13N/mm2 solid compressive strength, bedded in Class M12 mortar; stretcher bond; all in accordance with Engineers Specification Section 6.0 and Enegineers Drawings 1966/T01/004				
<u>Walls in trenches;</u>				
B	Thickness 350mm	103	m2	
C	Thickness 215mm	59	m2	
<u>Skins of Hollow Walls in trenches;</u>				
D	Thickness 100mm	52	m2	
Solid blockwork, thermal standard blocks to BS EN 771-4, 440mm x 100mm x 215mm units; 13N/mm2 compressive strength, bedded in Class M6 mortar; stretcher bond; all in accordance with Engineers drawings and Specification 6.0 and Architects Specification				
<u>Skins of Hollow Walls</u>				
E	Thickness 100mm	24	m2	
<u>Walls</u>				
F	Thickness 100mm	13	m2	
<u>BRICKWORK / BLOCKWORK; GENERAL SUNDRIES</u>				
<u>Ancillaries to Brickwork / Blockwork</u>				
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 To Collection €				
6 No. Dwelling Units for Donegal CoCo 1/6				
at An Glasan, (phase 2), Kilcar				

<u>(19) SUBSTRUCTURE (Cont)</u>				
<u>(Cont) BRICKWORK & BLOCKWORK</u>				
<u>(Cont) BRICKWORK / BLOCKWORK; GENERAL SUNDRIES</u>				
<u>(Cont) Ancillaries to Brickwork / Blockwork</u>				
Forming cavities Arch Spec (F30:151); 150mm cavity to external walls; 110mm partial fill insulation board foil faced on both sides with 40mm air cavity with and including wall ties at max. 900mm horizontal centres and max. 450mm vertical centres to tie inner and outer leaf walls as per the Architect specification				
A	Internal cavity walls; 150mm thick	3	m2	
Forming cavities Arch Spec (F30:200); 150mm cavity to internal walls; 150mm Stone-wool, semi-rigid full fill cavity wall insulation and including wall ties at max. 900mm horizontal centres and max. 450mm vertical centres to tie inner and outer leaf walls as per the Architect specification				
B	External cavity walls; 150mm thick	21	m2	
Damp proof course Arch Spec (F30.320) as per drawings and specification				
C	horizontal; 100mm wide; at internal partition walls	51	m	
D	horizontal; 150mm wide; at door thresholds	13	m	
E	horizontal; 100mm wide	103	m	
F	horizontal; exceeding 300mm wide; 600mm girth; stepped dpc at external wall	67	m2	
ROOFING, CLADDING AND WATERPROOFING - Mastic Asphalt, Waterproofing and Gas proof Non-Metal flexible Coverings				

<u>(19) SUBSTRUCTURE (Cont)</u>				
(Cont) BRICKWORK & BLOCKWORK				
(Cont) BRICKWORK / BLOCKWORK; GENERAL SUNDRIES				
(Cont) Ancillaries to Brickwork / Blockwork				
(Cont) ROOFING, CLADDING AND WATERPROOFING - Mastic Asphalt, Waterproofing and Gas proof Non-Metal flexible...				
A	IMPORTANT: The radon Membrane will be laid in two phases. The first phase will be laying of 'EASY LOAD' Radon DPC across internal and external walls with min 300mm laps left for taping of second phase of radon barrier. All laps of radon DPC carried through walls must be protected for the entire duration of works until second phase of radon barrier is installed	1	Item	
B	Laps must be protected using a durable board ripped wide enough to protect laps e.g. 19mm plywood. <i>Radon barrier Arch Spec (J40.110-375); including overlaps and sealing with sealant tape; (no allowance made in measurement for laps) laid in strict accordance with the manufacturer's instructions, all as per the architects and engineers specification and details; all joints and accessories to be sealed in accordance with manufacturers specification</i>	1	Item	
C	Over 300mm wide to horizontal floors	324	m2	
D	<u>extra over</u> for all internal and external corners fitted with preformed radon corner assemblies throughout as per Architects specification F30/491 <i>'Easy Load' Radon DPC stepped detail across cavity at external walls; allow minimum 300mm across slab to allow for taping to primary barrier; installed by specialist; all in strict accordance with Architect's Drawings and Specification F30/360;</i>	48	nr	
E	Not exceeding 300mm wide; girth 200mm;	1	m	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				
To Collection €				

<u>(19) SUBSTRUCTURE (Cont)</u>				
(Cont) BRICKWORK & BLOCKWORK				
(Cont) BRICKWORK / BLOCKWORK; GENERAL SUNDRIES				
(Cont) Ancillaries to Brickwork / Blockwork				
(Cont) ROOFING, CLADDING AND WATERPROOFING - Mastic Asphalt, Waterproofing and Gas proof Non-Metal flexible...				
A	Over 300mm wide stepped over walls; girth 1200mm; as per Architects Drawings 2508/101	124	m2	
<i>Xtra load GRm seld adhesive radon DPC J40-180, installed at finished floor level under door threshold and extended down over external leaf, lap and seal with 'Easy Load DPC'</i>				
B	Over 300mm wide; stepped over walls at door threshold; girth 375mm; as per Architects Drawings 2508/106	5	m2	
<i>Radon barrier Arch Spec (J40.110-375); including overlaps and sealing with sealant tape; including overlaps & sealing with sealant tape; (no allowance made in measurement for laps) laid in strict accordance with the manufacturer's instructions, all as per the architects and engineers specification J40 - 140A and details</i>				
C	<u>Extra Over</u> for Testing Spec (P30.560-910);			
D	Contractor to allow for the testing of the integrity of all radon barriers by a specialist independent third party. Testing to be carried out on completion of the radon barrier and sump installation and prior to the covering up. Methodology to be used is the injection of highly visible non-toxic tracer smoke to the underside of the radon barrier under pressure. No degree of visible smoke leakage through the barrier is considered acceptable	1	Item	

<u>(19) SUBSTRUCTURE (Cont)</u>				
(Cont) BRICKWORK & BLOCKWORK				
(Cont) BRICKWORK / BLOCKWORK; GENERAL SUNDRIES				
(Cont) Ancillaries to Brickwork / Blockwork				
(Cont) ROOFING, CLADDING AND WATERPROOFING - Mastic Asphalt, Waterproofing and Gas proof Non-Metal flexible...				
A	Contractor to allow for radon gas testing at substantial completion at set out by the Radiological Protection Institute to determine radon levels and if sump activation is required. If radon levels are detected over and above 180 Bq/m3 - the contractor must carry out all rectification works at their own expense	1	Item	
	<i>Fibre reinforced air tightness liquid paint as per the specification</i>			
B	not exceeding 300mm wide; at junction with wall and floor; all in strict accordance with Architect's Drawings and Specification A40/125;	214	m	
	<i>Radon sump; "Easy Sump" by Necoflex Ltd or equivalent; bedding in lean mix concrete with 110mm outlets/inlets</i>			
C	square 600mm x 600mm	2	nr	
D	<u>extra over</u> ; 100mm "Easi-Sump" cap link or "Equivalent" at ground level; allow for forming sinking in elsewhere measured hardcore and 150mm concrete surround; set flush to finished pavement	2	nr	
	<i>Radon pipework and fittings; by Necoflex Ltd or equivalent; bedding in lean mix concrete</i>			
E	110mm diameter pipework in trenches laid in position	14	m	
F	<u>Extra over</u> last for radon vent	2	nr	
G	<u>Extra over</u> last for radon collars with butyl seal to top hat	24	nr	

<u>(19) SUBSTRUCTURE (Cont)</u>				
(Cont) BRICKWORK & BLOCKWORK				
(Cont) BRICKWORK / BLOCKWORK; GENERAL SUNDRIES				
(Cont) Ancillaries to Brickwork / Blockwork				
(Cont) ROOFING, CLADDING AND WATERPROOFING - Mastic Asphalt, Waterproofing and Gas proof Non-Metal flexible...				
A	extra over; forming or cutting holes for 110mm diameter pipes in 350mm blockwork wall	2	nr	
	Door and Threshold as per spec L20/421; 2no. layers of 25mm Thermal Threshold board spec A40-110; as per Architect's Drawing 2508/106			
B	Overall 50mm thick, In 2 x 25mm layers x 310mm wide	13	m	
C	Extra over for Self Adhesive Air tightness sealing tape. Seal Thermal board to frame -A40/130; 100mm wide	13	m	
D	Extra over for Self Adhesive Air tightness sealing tape. Seal Thermal board to screed -A40/130; 100mm wide	13	m	
INSULATION				
150mm thick CFC/HCFC free rigid polyisocyanurate (PIR) core between low emissivity foil facings manufactured using a blowing agent that has zero ozone depletion potential (ODP) The insulation shall have a minimum independently certified thermal conductivity of 0.022 W/mK and must have a current IAB (Irish Agreement Board) or BBA (British Board of Agreement) certificate; fixed in strict accordance with the manufacturers written instructions; as Architects drawing details and specification				
Floor insulation				
E	150mm thick, horizontally, to ground floor	260	m2	
F	50mm thick; 125mm high, vertically, to ground floor	107	m	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				To Collection €

<u>(19) SUBSTRUCTURE (Cont)</u>				
<u>DRAINAGE - Below Ground</u>				
Excavating trenches: pipes less than or equal to but not exceeding 250mm nominal diameter				
A	average depth 500mm - 1000mm: backfilling with hardcore, compacting in layers	20	m	
Disposal				
B	Surface water; generally	1	Item	
C	Ground water; generally	1	Item	
Plain in-situ concrete to BS 5328, designed mix grade 20N/mm², 20mm aggregate				
D	Beds and surrounds; 500 x 400 to 110mm nominal diameter pipe	4	m	
Upvc Pipes SN8, per Engineers specification 9.10				
E	110 nominal size; in trenches; within the building	20	m	
F	110 nominal size; vertical with adjustable clip to ensure adequate seal; within the building	16	m	
G	<u>Extra over</u> for long radius bends; 90 degree	4	nr	
H	<u>Extra over</u> for bends; 90 degree	4	nr	
J	<u>Extra over</u> for bends; 45 degree	4	nr	
K	<u>Extra over</u> for splay junctions	4	nr	
L	<u>Extra over</u> for reducer 110-38mm	4	nr	

(19) SUBSTRUCTURE (Cont)**COLLECTION**

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**(19) SUBSTRUCTURE
Carried to Summary**

<u>(21) EXTERNAL WALLS</u>				
<u>NOTES TO CONTRACTOR</u>				
A	1. The Contractor is to include in their rates for all works as described in the Architects Specification.	1	Item	
B	2. The Contractor is to include in their rates for all documents to be provided by the trade contractor/subcontractor/suppliers in relation to guarantee, warranties, specification, durability etc.	1	Item	
C	3. The Contractor is to include in their rates for all protection as required for the works.	1	Item	
D	4. The Contractor is to include in their rates for all cutting and waste as necessary to complete the works.	1	Item	
E	5. The Contractor is to include in their rates for all samples and mock ups as required in the Architects Specification.	1	Item	
F	6. Design, detailing and execution of fixings are the sole responsibility of the Contractor.	1	Item	
G	7. It is the Contractor's responsibility to verify or determine all dimensions and levels required prior to commencement of construction or production of fabrication drawings.	1	Item	
H	8. The Contractor is to include for all air seals, acoustic seals, intumescent seals etc. as required.	1	Item	
<u>CONCRETE WORK</u>				
<u>IN-SITU CONCRETE</u>				

<u>(21) EXTERNAL WALLS (Cont)</u>				
<u>(Cont) CONCRETE WORK</u>				
<u>(Cont) IN-SITU CONCRETE</u>				
<u>Form concrete infill to back of window cill comprising C30/37 concrete in new blockwork walls; include for all formwork, reinforcement, concrete. etc. as required; provide all temporary propping and structural support as necessary; making good existing structure and finishes including concrete and formwork; leave ready to receive wall finish; all in accordance with Engineers and Architects Approval</u>				
A	concrete to back of window cill, 100mm wide x 150mm high x 1800mm long; as per Architects Detail on Drawing 2507/124	4	nr	
B	concrete to back of window cill, 100mm wide x 150mm high x 2000mm long; as per Architects Detail on Drawing 2507/124	4	nr	
C	concrete to back of window cill, 100mm wide x 150mm high x 900mm long; as per Architects Detail on Drawing 2507/124	5	nr	
<u>Form concrete pad stone C30/37 in new blockwork walls; include for all formwork, reinforcement, concrete. etc. as required; provide all temporary propping and structural support as necessary; making good existing structure and finishes including concrete and formwork to reveals and soffit and at all abutments; leave ready to receive wall finish; all in accordance with Engineers and Architects Approval</u>				
D	concrete padstone 440mm long x 100mm wide x 215mm deep; as per Strcutural Engineers Drawings 1966/T01/005 & 1966/T01/006	10	nr	
<u>PRECAST CONCRETE</u>				
<u>Precast concrete lintel: prestressed standard or stock pattern units: plain rectangular section: bedding in gauged mortar; minimum bearing as per Engineers Specification</u>				
E	Lintels; 100mm wide x 150mm high x 1300mm long (L2)	10	nr	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				To Collection €

<u>(21) EXTERNAL WALLS (Cont)</u>				
<u>(Cont) CONCRETE WORK</u>				
<u>(Cont) PRECAST CONCRETE</u>				
<u>(Cont) Precast concrete lintel:</u>				
<u>prestressed standard or stock pattern</u>				
<u>units: plain rectangular section: bedding</u>				
<u>in gauged mortar; minimum bearing as...</u>				
A	Lintels; 100mm wide x 150mm high x 2200mm long (L2)	8	nr	
B	Lintels; 100mm wide x 150mm high x 2400mm long (L2)	4	nr	
C	Lintels; 100mm wide x 215mm high x 2400mm long (L3)	4	nr	
<u>Precast Concrete window cill; profile to match Architect's drawing; samples to be approved by Architect; seated, rebated, weathered and throated; set in gauge mortar on DPC; minimum bearing both sides as per Engineers specification; complete as per Architect's Specification F30 / 720</u>				
D	Cills; standard 100mm face cill, 265mm wide x 150mm high x 1100mm long	5	nr	
E	Cills; standard 100mm face cill, 265mm wide x 150mm high x 2000mm long	4	nr	
F	Cills; standard 100mm face cill, 265mm wide x 150mm high x 2200mm long	4	nr	
<u>Concrete thresholds Arch Spec (F30.730-760) and sealing Arch Spec (J40.298); surface finished smooth; pre-tensioned units; reinforced with 2nr 16mm high yield steel bars; bedding and pointing in cement mortar (1:3)</u>				
G	Thresholds; 150mm wide x 150mm high x 1050mm long; weathered with drip	1	nr	
H	Thresholds; 150mm wide x 150mm high x 2900mm long; weathered with drip	2	nr	
J	Thresholds; 150mm wide x 150mm high x 2150mm long; weathered with drip	2	nr	
K	<u>extra over</u> for all additional labour and material in forming corner threshold 2150mm (1100 / 105mm)	1	nr	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				
To Collection €				

<u>(21) EXTERNAL WALLS (Cont)</u>				
<u>(Cont) CONCRETE WORK</u>				
<u>(Cont) PRECAST CONCRETE</u>				
<u>Precast Concrete vandal proof Capping to Match Existing Walls; to be approved by architect; all in accordance with Architect's Drawings and Specification and Installed to Manufacturers Instructions</u>				
A	Capping to blockwork walls; Vandal Proof capping; 250mm - 300mm; built on top of blockwork including all preparation	8	m	
<u>BRICKWORK AND BLOCKWORK</u>				
<u>BLOCKWORK</u>				
<u>Solid Concrete Blocks; compressive strength 13N/mm²; mortar mix designated as M6 above DPC and M12 below DPC; half lap stretcher bond; including bedding, including all control joints; including all necessary cutting; all as per Engineers Drawings and Specification and installed to Manufacturers Recommendations</u>				
B	External Cavity Walls; 100mm thick	256	m ²	
C	<u>Extra over</u> last for forming vents in 350mm cavity wall	8	nr	
D	Internal cavity walls; 100mm thick	90	m ²	
E	External walls; 215mm thick	16	m ²	
<u>Solid blockwork, thermal standard blocks to BS EN 771-4, 440mm x 100mm x 215mm units; 13N/mm² compressive strength, bedded in Class M6 mortar; stretcher bond; all in accordance with Engineers drawings and Specification</u>				
F	100mm Roadstone Thermal blocks or equivalent; refer Architects Details	107	m	
<u>ANCILLARIES TO BRICKWORK/BLOCKWORK</u>				

<u>(21) EXTERNAL WALLS (Cont)</u>				
(Cont) BRICKWORK AND BLOCKWORK				
(Cont) ANCILLARIES TO BRICKWORK/BLOCKWORK				
<u>Forming cavities Arch Spec (F30:151);</u> <u>150mm cavity to external walls; 110mm</u> <u>partial fill insulation board foil faced</u> <u>on both sides with 40mm air cavity with</u> <u>and including wall ties at max. 900mm</u> <u>horizontal centres and max. 450mm</u> <u>vertical centres to tie inner and outer</u> <u>leaf walls as per the Architect</u> <u>specification</u>				
A	Forming Cavities; between new walls; 150mm wide cavity as per Architects Detail	256	m2	
B	Extra over; insulation to back of window cill as per Architects Drawing	23	m	
C	Extra over; 40mm thick closer insulation to window jambs as per Architects Drawing	66	m	
<u>Forming cavities Arch Spec (F30:200);</u> <u>150mm cavity to internal walls; 150mm</u> <u>Stone-wool, semi-rigid full fill cavity</u> <u>wall insulation and including wall ties</u> <u>at max. 900mm horizontal centres and max.</u> <u>450mm vertical centres to tie inner and</u> <u>outer leaf walls as per the Architect</u> <u>specification</u>				
	Internal cavity walls; 150mm thick	45	m2	
<u>Cavity closer Arch Spec (P10.445);</u> <u>proprietary fire rated cavity barrier in</u> <u>accordance with the Architects and</u> <u>Engineers specification</u>				
D	Cavity closer to top of wall; horizontally; 150mm wide	65	m	
E	Cavity closer to top of wall; sloping; 150mm wide	45	m	
<u>Cavity closer Arch Spec (F30.180); to</u> <u>suit sills in accordance with the</u> <u>Architects and Engineers specification</u>				
F	Cavity closer to sills; horizontally; 15 x 200mm wide	66	m	

<u>(21) EXTERNAL WALLS (Cont)</u>				
<u>(Cont) BRICKWORK AND BLOCKWORK</u>				
<u>(Cont) ANCILLARIES TO BRICKWORK/BLOCKWORK</u>				
<u>Cavity closer Arch Spec (F30.151A); to suit thresholds in accordance with the Architects and Engineers specification</u>				
A	Cavity closer to thresholds; horizontally; 50 x 300mm wide	13	m	
<u>Cavity closer Arch Spec (F30:180); proprietary cavity closer to suit jambs and heads 150mm min. R-Value of 4.29 m2 k/w in accordance with the Architects and Engineers specification</u>				
B	Cavity closer to jambs and heads; vertical/horizontally; 150mm wide	101	m	
<u>Cavity fire stop Arch Spec (P10.446); acoustic cavity barrier to party walls including dip in accordance with the Architects and Engineers specification</u>				
C	Cavity fire stop; sloping; 200mm x 200mm wide	13	m	
<u>Damp proof course Arch Spec (F30.320) as per drawings and specification</u>				
	horizontal; exceeding 300mm wide	64	m2	
D	vertical; not exceeding 300mm wide	66	m	
E	Stepped cavity tray Spec (F30.380A)	23	m2	
F	300mm - 450mm wide; vertical; all as per Architects detail (jambs windows and doors)	66	m	
G	girth 600mm - 750mm wide; horizontal; all as per Architects detail (Top of Party Wall)	13	m	

<u>(21) EXTERNAL WALLS (Cont)</u>				
(Cont) BRICKWORK AND BLOCKWORK				
(Cont) ANCILLARIES TO BRICKWORK/BLOCKWORK				
Designed joints; masonry control joints; 10mm wide movement joint with compressible filler (13mm polyethylene foam strip with a bond breaker) with 2-part polysulphide sealant to blockwork in external walls with locations agrees with the Architect; with and including 300mm long stainless steel wall ties place at 25mm either side of the joint with ties placed at 450mm centres; all ties to have a debonding sleeve one end - Ancon PPS or equal and approved; all in accordance with Engineers specification 5				
A	Design joints; 10 x 100mm wide	28	m	
Joint reinforcement as Engineers Section 5.4 and drawing detail JOD-XX-ZZ-DR-S-700-0.31				
B	joint reinforcement to 100mm wide walls	321	m	
Cavity barriers; proprietary cavity barriers formed using single units taped together compression fitted within the cavity; min. 10mm/15mm compression to comply with TGD part m/ TGD part B requirements; all in accordance with the Architects specification				
C	Cavity barriers; 250 wide x 150mm deep vertically	7	m	
Weepholes Arch Spec (F30.131); fixing in strict accordance with with manufacturers recommendations				
D	fixing in position	260	nr	
Vents in External Walls; Aluminium; to include insect proof screen; fixed back to masonry/concrete wall; including all fixings, framing, sealing as required; all as per Architects Specification				
E	215 x 65mm	8	nr	
<u>Fire Barriers</u>				

<u>(21) EXTERNAL WALLS (Cont)</u>				
<u>(Cont) BRICKWORK AND BLOCKWORK</u>				
<u>(Cont) ANCILLARIES TO BRICKWORK/BLOCKWORK</u>				
<u>(Cont) Fire Barriers</u>				
150 x 150mm fire rated cavity stop barrier; rockwool cavity firestop barrier; Ref: Rockwool or "Equivalent"; Material - rockwool with built-in DPC layer; mechanically fastened with Rockwool SP fixing brackets at 150mm c/c's within cavity; set horizontally between outer leaf of cavity and & upper floor slabs within external wall envelope, to B.S.476 Part 20; 60/60 minute integrity/insulation fire rating; installed in accordance with manufacturers instructions; as per Architects Specification, profile as detailed on Architects section details:				
A	Screw fixed in cavity, between skins of blockwork; 150mm thick to suit 150mm wide cavity, horizontally	7	m	
<u>ROOFING, CLADDING AND WATERPROOFING</u>				
<u>MASTIC ASPHALT, WATERPROOF AND GAS PROOF NON-METAL FLEXIBLE SHEET COVERINGS</u>				
<u>Insulation; Kingspan K3 or other equal and approved, 50mm thick rigid wall insulation board foil faced on both sides with a minimum thermal resistance of not less than 2.90m²K/W; all in accordance with the architects and engineers specification</u>				
	Insulation to sills; 140mm high	23	m	
<u>Thermal threshold boards Arch Spec (A40.110), 2nr 25mm thick rigid wall board to Architects detail T-05; all in accordance with the architects specification</u>				
	Thermal board to thresholds; 150mm high	14	m	
<u>AIR TIGHTNESS</u>				
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 To Collection €				
6 No. Dwelling Units for Donegal CoCo 2/8				
at An Glasan, (phase 2), Kilcar				

<u>(21) EXTERNAL WALLS (Cont)</u>				
<u>(Cont) AIR TIGHTNESS</u>				
The Contractor is to include for achieving air tightness required by the Architect as per the Specification. All airtightness barriers, tapes and accessories must be used to ensure the required air permeability is achieved; Contractor is to include for all sealing of joints to all floors, intermediate concrete floors, walls, windows, doors, electrical sockets and switch boxes, openings, penetration and junctions, etc; The contractor is to bear all costs associated with air tightness works, testing and any remedial works; all in strict accordance with the Architects Specification A40				
A	Air tightness; to entire building (Allow for separate test for each Unit 5 & 6)	1	Item	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				
To Collection €				

<u>(21) EXTERNAL WALLS (Cont)</u> COLLECTION Page No. 2/1 Page No. 2/2 Page No. 2/3 Page No. 2/4 Page No. 2/5 Page No. 2/6 Page No. 2/7 Page No. 2/8 Page No. 2/9 (21) EXTERNAL WALLS Carried to Summary				
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(22) INTERNAL WALLS, PARTITIONS

<u>(22) INTERNAL WALLS, PARTITIONS</u>				
<u>CONCRETE WORK</u>				
IN-SITU CONCRETE				
Form concrete lintel C32/40 in new blockwork walls; include for all formwork, reinforcement, concrete. etc. as required; provide all temporary propping and structural support as necessary; making good existing structure and finishes including concrete and formwork to reveals and soffit and at all abutments; leave ready to receive wall finish; all in accordance with Engineers and Architects Approval				
A	100mm wide x 65mm high x 1350mm long (L1)	17	nr	
B	100mm wide x 65mm high x 1720mm long (L1)	2	nr	
C	100mm wide x 150mm high x 1350mm long (L2)	4	nr	
concrete padstones; surface finished smooth; pre-tensioned units; reinforced with 2nr 16mm high yield steel bars; bedding and pointing in cement mortar (1:3); as Engineers Specification 4				
D	Padstones; 450mm long x 215mm high x 100mm wide	4	nr	
<u>BRICKWORK AND BLOCKWORK</u>				
BLOCKWORK				
Solid Concrete Blocks; compressive strength 13N/mm ² ; mortar mix designated as M6 above DPC and M12 below DPC; half lap stretcher bond; including bedding, including all control joints; including all necessary cutting; all as per Engineers Drawings and Specification and installed to Manufacturers Recommendations				
E	Walls; 100mm thick (Ground Floor Walls)	606	m ²	
F	Extra over for special blocks; 100mm Thermal blocks; refer Architects Detail TD-03	209	m	
<u>FLOOR, WALL AND CEILING FINISHINGS</u>				
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				
			To Collection €	

<u>(22) INTERNAL WALLS, PARTITIONS (Cont)</u>				
<u>(Cont) FLOOR, WALL AND CEILING FINISHINGS</u>				
BOXING OUT SERVICES				
Boxing out of service zone for ventilation ducts; full height timber stud framing; including head and sole plates; one layer of 12.5mm Wallboard Type A k10/401 plasterboard to one side; joints taped and filled; including "Isover APR 1200" roll insulation or similar approved; packed between studs; joints to be butted with no gaps including 3mm thick skim coat to plasterboard base; including all necessary sealants, acoustic sealants, etc. to all junctions as required; including all angle, intersections, abutments, fair ends, etc; including all deflection heads, fire strips, channels, noggins, grounds for services, etc; all as per Architect's drawings, specification and Manufacturer's Instructions				
A	Service zone for ventilation; exceeding 300mm wide; vertical; full height	12	m2	
Boxing out manifold; timber stud framing with plywood encasement painted to match wall finish including removable cover complete; all as per Architect's drawings, specification and Manufacturer's Instructions				
B	Manifold Encasement; 510mm wide x 400mm high x 175mm deep as per Architects Drawing	2	Nr	

<u>(27) ROOF STRUCTURE</u>				
<u>NOTES: GENERALLY</u>				
A	1. The Contractor is responsible for the design of the Roof Trusses. No claims will be entertained Post Tender for additional works to this element.	1	Item	
<u>PITCHED ROOF; WOODWORK</u>				
<u>STRUCTURAL AND FIRST FIXINGS</u>				
<u>Pitched Roof Trusses; contractor designed; complete to the Structural Engineer's Specification grade C24 timber; fixed to block work inner leaf on timber wall plate/joist hanger; pressure impregnated with an approved preservative; timber members to be butt jointed; including all galvanised timber fixings bolts, nails, screws, connectors, proprietary truss clips/plates, bolts, joist hangers, timber packing peices; all as per Architect's and Engineer's specification Section 10.0</u>				
Trusses; Prefabricated Roof Trusses to Manufacturers Design and Details				
B	Prefabricated Roof Trusses to Manufacturers Design and Detail; contractor designed pitched roof trusses; Trusses span approximate size 13200mm with 600mm overhang to both sides and approximate 3000mm height to apex	18	nr	
C	extra over for bottom chord of trusses to be increased in size as required, (approx 1500mm long) at flat roof canopy at rear of Unit 5 & 6 overhang to allow for cantilever to create external canopy	18	nr	
D	Prefabricated Roof Trusses to Manufacturers Design and Detail; contractor designed pitched roof trusses; Trusses span approximate size 7175mm with 600mm overhang to both sides and approximate 3000mm height to apex	98	nr	
E	extra over for bottom chord of trusses to be increased in size as required, (approx 1500mm long) at flat roof canopy to Unit 6 Front Entrance to allow for cantilever to create external canopy	8	nr	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				
To Collection €				

<u>(27) ROOF STRUCTURE (Cont)</u>				
<u>(Cont) PITCHED ROOF; WOODWORK</u>				
<u>(Cont) STRUCTURAL AND FIRST FIXINGS</u>				
(Cont) Pitched Roof Trusses; contractor designed; complete to the Structural Engineer's Specification grade C24 timber; fixed to block work inner leaf...				
(Cont) Trusses; Prefabricated Roof Trusses to Manufacturers Design and Details				
A	Simpson Strong tie or equal and approved truss clips	232	nr	
B	Contractor Specialist Design Cost	1	Item	
Carcassing pitched roofs; bracing				
C	Wall Plate; 100mm x 75mm wall plates nailed using 4mm nails at 600mm ctrs to blockwork and strapped to inner blockwork leaf at 1800mm ctrs using 75mm x 50mm x 2.5mm thick mild steel straps all as per Engineers detail	64	m	
D	Truss fixing detail at gable walls comprising M8 express nail fixings at timber packers as required; all as per Engineers detail	34	m	
E	100 x 25mm bracing; Rafter Longitude Bracing; all as per Engineers detail	68	m	
F	100 x 25mm bracing; Nodal Longitude Bracing; all as per Engineers detail	68	m	
G	100 x 25mm bracing; APEX Bracing; all as per Engineers detail on	52	m	
H	100 x 25mm bracing; Rafter Diagonal Bracing; all as per Engineers detail	75	m	
J	100 x 50mm noggings; all as per Engineers detail	120	m	
K	100 x 44mm spreader beams; all as per Engineers detail (to water tank)	18	m	
L	150 x 75mm spreader beams; all as per Engineers detail (to water tank)	20	m	
M	215 x 50mm timber joists; all as per Engineers detail (to attic catwalk)	68	m	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				To Collection €

<u>(27) ROOF STRUCTURE (Cont)</u>				
<u>(Cont) PITCHED ROOF; WOODWORK</u>				
<u>(Cont) STRUCTURAL AND FIRST FIXINGS</u>				
<u>(Cont) Pitched Roof Trusses; contractor designed; complete to the Structural Engineer's Specification grade C24 timber; fixed to block work inner leaf...</u>				
<u>(Cont) Carcassing pitched roofs; bracing</u>				
A	100 x 50mm timber bridging between trusses; all as per Architects detail	46	m	
Carcassing pitched roofs; trimmers				
B	Trimmer pieces around opes for attic hatch; all as per Architects detail	4	m	
<u>BOARDING AND SECOND FIXINGS</u>				
<u>uPVC Fascia board; on and including support 22mm thick timber support framing and grounds G20/245 with silicone mastic sealant in colour to match fascia; including all necessary proprietary vents, fixtures and fittings; fixing in accordance with manufacturer's recommendations; all as per Architect's Specification K13/150</u>				
C	Fascia boarding; fascia boarding as per architects details on drawing all as per Architect Drawing 2507/129	64	m	
<u>Marine plywood sheeting; WBP bonded; 19mm thick; including spreader beams as required; all as per Architect's and Engineer's specification</u>				
D	Boarding and Sheeting; flat roof areas; exceeding 300mm wide; to canopies	15	m2	
E	Boarding and Sheeting; floors; exceeding 300mm wide; to water tank (PROVISIONAL)	10	m2	
F	Boarding and Sheeting; floors; exceeding 300mm wide; attic walkway (PROVISIONAL)	28	m2	
<u>IRONMONGERY, ACCESSORIES AND SUNDRIES</u>				

<u>(27) ROOF STRUCTURE (Cont)</u>				
(Cont) PITCHED ROOF; WOODWORK				
(Cont) IRONMONGERY, ACCESSORIES AND SUNDRIES				
<u>Metal accessories to woodwork by approved manufacturer; contractor designed; complete to the Structural Engineer's Specification; mild steel and galvanised to B.S. 2989, Class 2A; all in accordance with Engineers Specification</u>				
A	Accessories; straps and hangers; Cullen PFS mild steel galvanised straps; contractor designed; 2000mm long or equal and approved; fixed across top of timber joists with 8 Nr. 30 x 5mm galvinished strap fixed to at least 2 trusses; at 2000mm maximum centres; all as per Engineer's Detail on Drawing and Specification	116	nr	
B	Galvanised straps 30 x 50 x 1200mm long fixing roof trusses to gable walls at max 2.0 metre centres, as per Detail F on Enginers Drawing 1966/T01/103 & 1966/T01/109	24	nr	
C	Galvanised restraint straps 30 x 5mm x 1200mm long to wall plate at max 2.0 metre centres, as per Detail G on Enginers Drawing 1966/T01/103 & 1966/T01/109	38	nr	
<u>Attic Insulation; "Rockwool / Knauf" or similar approved ceiling insulation; 350mm Thick laid in two layers 150mm thick insulation fitted between joists and 200mm above joists; including cutting and packing around members through same; insulation to be tightly fitted and to connect up with the insulation in the wall cavity; supplied and installed all in strict accordance with manufacturer's instructions; in strict accordance with the Architects drawings and specification P10/115</u>				
D	Insulation; 350mm thick overall; refer Architects Detail 2507/129	260	m2	

<u>(27) ROOF STRUCTURE (Cont)</u>				
(Cont) PITCHED ROOF; WOODWORK				
(Cont) IRONMONGERY, ACCESSORIES AND SUNDRIES				
<u>Insulation; "Kingspan Thermapitch TP10"</u> <u>or equivalent and approved ;high denisty</u> <u>insulation securely fixed between rafters</u> <u>to extend 600mm from line of wall plate;</u> <u>including cutting and packing around</u> <u>members through same; insulation to be</u> <u>tightly fitted and to connect up with the</u> <u>insulation in the wall cavity; supplied</u> <u>and installed all in strict accordance</u> <u>with manufacturer's instructions; in</u> <u>strict accordance with the Architects</u> <u>drawings and specification P10/120</u>				
A	Insulation; 50mm thick; refer Architects Detail Detail 2507/129	67	m2	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				
To Collection €				

<u>(27) ROOF STRUCTURE (Cont)</u> COLLECTION Page No. 4/1 Page No. 4/2 Page No. 4/3 Page No. 4/4 Page No. 4/5 (27) ROOF STRUCTURE Carried to Summary				
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<u>(28) FRAME</u>				
<u>NOTE</u>				
A	All descriptions are to be read with the specification (see separate document) referred to in the Bills of Quantities; All workmanship clauses and those of a general nature are deemed to be included	1	Note	
<u>CONCRETE WORK - Cast insitu concrete padstones</u>				
concrete padstones; surface finished smooth; pre-tensioned units; reinforced with 2nr 16mm high yield steel bars; including all temporary formwork; as Engineers Specification 4 and drawing 1966/T01/103				
B	Corner Padstones; 1000mm long x 300mm high x 100mm wide	2	nr	
<u>CONCRETE WORK - Precast concrete padstones</u>				
concrete padstones; surface finished smooth; pre-tensioned units; reinforced with 2nr 16mm high yield steel bars; bedding and pointing in cement mortar (1:3); as Engineers Specification 4				
C	Padstones; 450mm long x 215mm high x 100mm wide	18	nr	
<u>AS PER THE STRUCTURAL ENGINEERS DRAWINGS AND SPECIFICATION</u>				
<u>STRUCTURAL: Steelwork as per Engineers specification 7</u>				
Manufacturer / Contractor Designed Lintels by Keystone of Equivalent; complete to the Structural Engineer's Specification Section 7.0; For Tendering Allow for X/K-150 Lintel; All as per Architect's and Engineer's Drawings and Specification				
<u>Keystone or equivalent, Manufacturer Designed Lintel to Manufacturers Design and Details</u>				
D	Straight Lintel; 2800mm in length; onto padstones	2	nr	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				To Collection €

<u>(28) FRAME (Cont)</u>				
<u>(Cont) STRUCTURAL: Steelwork as per Engineers specification 7</u>				
<u>(Cont) Manufacturer / Contractor Designed Lintels by Keystone of Equivalent; complete to the Structural Engineer's Specification Section 7.0; For...</u>				
<u>(Cont) Keystone or equivalent, Manufacturer Designed Lintel to Manufacturers Design and Details</u>				
A	Corner Lintel; 4000mm in length (2400 / 1500mm); onto padstones	1	nr	
B	<u>Extra over</u> last for Corner Post and base plate to Suit Lintel	1	nr	
C	Contractor Specialist Design Cost	1	Item	
Fabricated galvanised structural steel; weld able structural steel grade S355; BS EN 10025/BS 4360 and BS 4848 with all fabrication and detailing to comply with BS 5950, welds ground smooth; bolted site connections with grade 8.8 bolts to BS 5950; shot blast steelwork to BS 4232; galvanising to BS 729 with a minimum coating weight of 700g/m ² , small areas of galvanised steel 40 microns may be repaired by zinc rich paint; all preparation of steel to be carried out off-site prior to installation on-site; all structural design calculations and fabrication drawings to be forwarded to the structural engineer for approval prior to manufacture				
<u>Fabricated beams</u>				
D	150 x 75 PFC 18; universal section; GALVANISED; not exceeding 25kg/m; PFC fixed to PC lintels both sides, with 10mm plate and 2 nr M12 hilt Bolts	0.14	t	
E	nr lengths in last	1	nr	
F	fittings	0.03	t	
G	178 x 102 x 19 UB; universal section; not exceeding 25kg/m; Canopy - B3	0.27	t	
H	nr lengths in last	2	nr	
J	fittings	0.05	t	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				To Collection €

<u>(28) FRAME (Cont)</u>				
<u>(Cont) STRUCTURAL: Steelwork as per Engineers specification 7</u>				
(Cont) Fabricated galvanised structural steel; weld able structural steel grade S355; BS EN 10025/BS 4360 and BS 4848 with all fabrication and detailing...				
<u>(Cont) Fabricated beams</u>				
A	80 x 80 x 5.0 - 11.6kg/m SHS Post; GALVANISED; not exceeding 25kg/m; Post	0.04	t	
B	nr lenghts in last	1	nr	
C	fittings	0.01	t	
<u>PAINTING</u>				
INTUMESCENT PAINT; 30 MINUTE FIRE RESISTANT PAINT TO EXPOSED STEEL STRUCTURE; include all preparation, hot blasting and priming; primer to be 100microns DFT interpolate high build ALKYD zinc phosphate; application in accordance with manufacturers written instructions; all in accordance with Architects Specification M61/100; INTumescent dry film thickness(dft) test required as per M61/410				
D	girth exceeding 300mm	13	m2	

<u>(28) FRAME (Cont)</u> COLLECTION Page No. 5/1 Page No. 5/2 Page No. 5/3 (28) FRAME Carried to Summary				
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				

(31) EXTERNAL WALL COMPLETIONS

<u>(31) EXTERNAL WALL COMPLETIONS</u>				
<u>NOTES TO CONTRACTOR</u>				
A	1. The Contractor is to include in their rates for all works as described in the Architects Specification.	1	Item	
B	2. The Contractor is to include in their rates for all documents to be provided by the trade contractor/subcontractor/suppliers in relation to guarantee, warranties, specification, durability etc.	1	Item	
C	3. The Contractor is to include in their rates for all protection as required for the works.	1	Item	
D	4. The Contractor is to include in their rates for all cutting and waste as necessary to complete the works.	1	Item	
E	5. The Contractor is to include in their rates for all samples and mock ups as required in the Architects Specification.	1	Item	
F	6. Design, detailing and execution of fixings are the sole responsibility of the Contractor.	1	Item	
G	7. It is the Contractor's responsibility to verify or determine all dimensions and levels required prior to commencement of construction or production of fabrication drawings.	1	Item	
H	8. The Contractor is to include for all air seals, acoustic seals, intumescent seals etc. as required.	1	Item	
J	9. The contractor shall include in the rates for all pressed aluminium cills, flashings, mastic pointing, EPDMs etc in accordance with the Architects detail drawings and specification. These items are not measured as separate items.	1	Item	

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 6 No. Dwelling Units for Donegal CoCo 6/1
 at An Glasan, (phase 2), Kilcar

<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u>				
<u>(Cont) NOTES TO CONTRACTOR</u>				
A	10. The contractor shall be responsible for all secondary steelwork necessary for the installation of the Windows, Curtain Walling and External Doors. For the avoidance of doubt, all secondary steelwork necessary for fixing the windows etc to the primary structure should be included by the main contractor.	1	Item	
B	11. The contractors attention is drawn to the requirements for air tightness as outlined in the Architect's Specification. All costs associated with ensuring the building achieves the required airtightness including the provision of all tests etc as outlined to be included by the contractor.	1	Item	
C	12. Mastic pointing to be included in the rates to inside and outside of windows	1	Item	
<u>WOODWORK</u>				
<u>BOARDING AND SECOND FIXING</u>				
<u>Softwood window cill board; 19mm softwood window cill board with pencil rounded edges, drilled, plugged and screw fixed on 15mm softwood grounds pressure impregnated with an approved preservative; plugged, screwed, countersinking and flush pelleting; silicone mastic seal between window and cill; complete as per Architect's Specification P20 / 115</u>				
D	Second Fixings; window boards; 300mm wide x 19mm thick; pencil rounded; refer Architects Detail TD-12	39	m	
<u>Thermal break cill board; 15mm x 200mm, drilled, plugged and screw fixed to concrete infill to back of cill; pressure impregnated with an approved preservative; plugged, screwed, countersinking and flush pelleting; complete as per Architect's Specification A40/110A</u>				

<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u>				
<u>(Cont) WOODWORK</u>				
<u>(Cont) BOARDING AND SECOND FIXING</u>				
<u>(Cont) Thermal break cill board; 15mm x 200mm, drilled, plugged and screw fixed to concrete infill to back of cill; pressure impregnated with an...</u>				
A	Second Fixings; thermal break board; 200mm wide x 15mm thick; refer Architects Detail TD-12	39	m	
<u>Thermal break door threshold board; 2 x 25mm thick, drilled, plugged and screw fixed to concrete block; pressure impregnated with an approved preservative; plugged, screwed, countersinking and flush pelleting; complete as per Architect's Specification A40/130</u>				
B	Second Fixings; thermal break board; 200mm wide x 25mm thick; refer Architects Detail TD-05	14	m	
<u>METALWORK</u>				
<u>NON-STRUCTURAL</u>				

<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u>				
<u>(Cont) METALWORK</u>				
<u>(Cont) NON-STRUCTURAL</u>				
Composite items; standard windows; Double Glazed High Performce Aluminium Clad Timber Windows; finish to Architects selected RAL; fixed in accordance with specialist sub-contractors detail; contractor to include for the supply and fitting of all units and is responsible for accuratlely measuring structural opes prior to ordering; all windows to be mastic sealed on completion; to achieve an overall U-value of 1.3W/m2k or better (relating to whole window including frame);opening sections to be inward opening,tilt and turn to allow for cleaning from inside dwelling; all bathrooms/wcs to be provided with a smooth, non patterned, obscure glass finish; window manufactures flashing trim clipped into bottom of frame; safety glass to all windows within 800mm of finished floor level; all first floor windows to be fitted with safety restrictors to limit opening angle of window; including all drip flashings and ironmongery; including all fixings, grounds, straps, mastic joints seals, intumescent strip with smoke seals, etc.; all as per Window Schedules Drawing 2507/23, Specification L10-410				
A	1800mm wide x 1450mm high; as per Architects specification and Drawing Schedule 2507/23 (Window Type W01)	4	nr	
B	2000mm wide x 1800mm high; as per Architects specification and Drawing Schedule 2507/23 (Window Type W02)	2	nr	
C	2000mm wide x 1800mm high; as per Architects specification and Drawing Schedule 2507/23 (Window Type W03)	2	nr	
D	900mm wide x 1450mm high; as per Architects specification and Drawing Schedule 2507/23 (Window Type W04)	1	nr	
E	900mm wide x 1365mm high; as per Architects specification and Drawing Schedule 2507/23 (Window Type W05)	4	nr	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				To Collection €

(31) EXTERNAL WALL COMPLETIONS

<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u>				
<u>(Cont) METALWORK</u>				
<u>(Cont) NON-STRUCTURAL</u>				
<u>(Cont) Composite items; standard windows;</u>				
<u>Double Glazed High Performce Aluminium</u>				
<u>Clad Timber Windows; finish to Architects</u>				
<u>selected RAL; fixed in accordance...</u>				
A	1800mm wide x 1365mm high; as per Architects specification and Drawing Schedule 2507/23 (Window Type W06)	2	nr	
B	2100mm wide x 2350mm high; as per Architects specification and Drawing Schedule 2507/23 (Window Type W07)	1	nr	
C	<u>Extra over</u> for Window manufacturers flashing trim clipped into frame	26	m	
D	<u>Extra over</u> for seal joint between wall and window frame with suitable Airtightness Tape; not exceeding 300mm wide; refer Architects Specification A40/130	103	m	
E	<u>Extra over</u> for fixing brackets to support windows to specialist sub-contractors detail back to primary structure	1	Item	
<u>Composite Items; door and frame sets;</u>				
<u>External Door; Double Glazed Alu Clad</u>				
<u>composite timber doors including all</u>				
<u>associated ironmongery and threshold;</u>				
<u>finish to Architects selected RAL; fixed</u>				
<u>in accordance with specialist</u>				
<u>sub-contractors detail; contractor to</u>				
<u>include for the supply and fitting of all</u>				
<u>units and is responsible for accuratlely</u>				
<u>measuring structural opes prior to</u>				
<u>ordering; all windows to be mastic sealed</u>				
<u>on completion; to achieve an overall</u>				
<u>U-value of 1.3W/m2k or better (relating</u>				
<u>to whole unit); complete including head</u>				
<u>channels; trims, flashings, seals;</u>				
<u>threshold, all fixings, straps, mastic</u>				
<u>joints seals, intumescent strip with</u>				
<u>smoke seal, etc; all as per Door</u>				
<u>Schedules Drawing 2507/23, Specification</u>				
<u>L20-421</u>				

<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u>				
<u>(Cont) METALWORK</u>				
<u>(Cont) NON-STRUCTURAL</u>				
(Cont) Composite Items; door and frame sets; External Door; Double Glazed Alu Clad composite timber doors including all associated ironmongery and...				
A	Screen and single door set; overall set size: 2150mm wide x 2110mm high comprising single door and 1 Nr. fixed screen comprising with safety glass; RAL tbc; complete including head channels; ironmongery; aluminium trims; door signage; seals; threshold; etc as required; complete as per Architects Specification and Schedule Drawing 2507/23 (Door Type ED01)	2	nr	
B	Extra over for all additional labour and material in fitting door and screen to corner window profile to Unit 5, incl all cover pieces to steel post and fittings as required; complete as per Architects Specification and Schedule Drawing 2507/23 (Door Type ED01)	1	nr	
C	Screen and Sliding single door set; overall set size: 2900mm wide x 2250mm high, comprising fixed screen and sliding door section, with safety glass; RAL tbc; complete including head channels; ironmongery; aluminium trims; door signage; seals; threshold; etc as required; complete as per Architects Specification and Schedule Drawing 2507/23 (Door Type ED02)	2	nr	
D	Single door set; overall set size: 1050mm wide x 2110mm high comprising single door; RAL 7044; complete including head channels; ironmongery; ready for openable internal fire escape; aluminium trims; door signage; seals; threshold; etc as required; complete as per Architects Specification and Schedule Drawing 2507/23 (Door Type ED03)	2	nr	
E	Extra over for seal joint between wall and door frame with suitable Airtightness Tape; not exceeding 300mm wide; refer Architects Specification A40/130	39	m	
<u>PAINTING AND DECORATING</u>				
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<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u>				
<u>(Cont) PAINTING AND DECORATING</u>				
PAINTING				
Painting; "High Gloss Finish" or equivalent to plaster base; colour to be selected by Architect; 1nr primer coat, 1nr undercoat and 2nr finishing coat; including all preparation work as required to existing surfaces i.e. patching, filling etc.; including working around existing services, ducts, pipes, penetrations, sockets etc; as required; complete as per Architect's Specification Section M60/130 and Drawings and Installed to Manufacturers Recommendations				
A	Second fixings; window boards; 300mm wide x 19mm thick; pencil rounded; refer Architectes Detail TD-12	29	m	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				
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<u>(31) EXTERNAL WALL COMPLETIONS (Cont)</u> COLLECTION Page No. 6/1 Page No. 6/2 Page No. 6/3 Page No. 6/4 Page No. 6/5 Page No. 6/6 Page No. 6/7 (31) EXTERNAL WALL COMPLETIONS Carried to Summary				
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				

<u>(32) INTERNAL WALL COMPLETIONS</u>				
<u>NOTES TO CONTRACTOR</u>				
A	1. All timbers shall be pressure impregnated with an approved preservative ; All rates are to include for secret fixings, holes, mortices etc. All sizes are indicative only and site measurements must be taken.		Note	
	2. All joinery sizes to be confirmed on site before manufacture		Note	
	3. The Contractor shall provide evidence, in the form of a product conformity certificate, test report or engineering assessment that each fire door supplied will comply with the specified requirements for fire resistance if tested in accordance with B.S. 476 : Part 22. Such certification must cover door and frame materials , glass and glazing materials and installation, essential and ancillary ironmongery, hinges and seals etc.		Note	
	4. All descriptions are to be read with the specification (see separate document) referred to in the Bills of Quantities; All workmanship clauses and those of a general nature are deemed to be included		Note	
<u>WOODWORK; Boarding and Second Fixings</u>				
Softwood Timber Architrave; moulded to Architects Detail; including fireproofing, drilling, counter sinking, flush pelling, screwing and mortices etc; fixed to and including softwood backgrounds as required; fixed to concrete / stud partition backgrounds all as per Architects Drawings, Specification P20/110 & Door Schedule and installed as per Manufacturer's Recommendations				
B	19 x 19m quadrant	22	m	
C	69 x 18mm architrave	258	m	
<u>WOODWORK; Composite Items</u>				

<u>(32) INTERNAL WALL COMPLETIONS (Cont)</u>				
<u>(Cont) WOODWORK; Composite Items</u>				
Internal doors Arch Spec (L20.239-850); tongue and grove effect smooth moulded FD30 solid core flush doors tested to BS EN 1634- 1: 2014 and painted with one coat timber primer; in accordance with the architects drawings 2507/23 and specification				
A	Door Type D01; Single Door 950 x 2110; NFR	20	nr	
B	Door Type D03; Double Doors 1320 x 2110; NFR	2	nr	
Door framing and door stop Arch Spec (L20.330 and P20.110); solid core timber framing, hardwood edges and lipping throughout including top and bottom; fixed to structure with 6mm diameter galvanised steel frame fixings at 600mm centres with heads countersinking and flush pelleting; one coat of primer /sealer				
C	132 x 45mm door frames, labours - 3	129	m	
<u>WOODWORK; Ironmongery, Accessories and Sundries</u>				
Ironmongery Arch Spec (P21.130) refer to Ironmongery schedule; in accordance with the architects drawings and specification				
<u>Internal Doors</u>				
D	KH-14104R/SCP; Frisco Steel Ball Bearing Butt Hinge	72	nr	
E	KL-1905RAR/SSS; KCC Heavy Duty Modular Mortice Latch c/w Anti-Rattle Adjustable Strike Plate to hEN12209 grade ③x⑤①①①F-B ①②① and Certifire CF5234	22	nr	
F	KF-2001/SSS; KCC Tubular Stainless Steel 304 19mm Unsprung Rose Lever Handle on Rose to BS EN1906:2012 grade ④⑦-B①④①①U	44	nr	
G	KA-9501/SSS; KCC Floor Mounted Door Stop	22	nr	

<u>(32) INTERNAL WALL COMPLETIONS (Cont)</u>				
<u>(Cont) WOODWORK; Ironmongery, Accessories and Sundries</u>				
(Cont) Ironmongery Arch Spec (P21.130) refer to Ironmongery schedule; in accordance with the architects drawings and...				
<u>(Cont) Internal Doors</u>				
A	KF-1111A/SSS; KCC Grade 304 Stainless Steel Accessible Thumbturn & Release No Indicator	2	nr	
B	KA-9920R/1/SSS; KCC Lever Action Flush Bolt, Grade 304 Stainless Steel. W19 x L205. Radius Corner	4	nr	
C	KA-9950/SSS; KCC Sprung Loaded Dust Excluding Socket	2	nr	
<u>PAINTING AND DECORATING: Painting Woodwork</u>				
Prime and paint Arch Spec (M60.130) knot and seal, painting with one coat primer, I coat undercoat and I coat high gloss paint; as per architects drawings and specification				
D	General Surfaces; doors exceeding 300mm wide, internal	109	m2	
E	Second Fixings; Architraves; girth not exceeding 300mm	258	m	
F	Second Fixings; Door Frames; girth not exceeding 300mm	129	m	

<u>(32) INTERNAL WALL COMPLETIONS (Cont)</u> COLLECTION Page No. 7/1 Page No. 7/2 Page No. 7/3 (32) INTERNAL WALL COMPLETIONS Carried to Summary				
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar	7/4			

(41) WALL FINISHES EXTERNALLY

<u>(41) WALL FINISHES EXTERNALLY</u>				
<u>FLOOR, WALL AND CEILING FINISHES: In-situ Finishes</u>				
Pre-coloured render system with silicone resin based render finish; Wood float finish render; 26mm thick; scud, render, float and wood float finish in cement, lime and sand mortar; undercoat 16mm thick (1:1:6); wood float finish coat 10mm thick (1:1:4.5) fixed back to concrete / blockwork wall background; including all preparation works required; including all stainless steel stop beads, angle bead, expansion beads, overhead drip beads, bell cast projections, etc, as required; installed to Manufacturer's Instructions and all in accordance with the Architect's Drawings and Specification M20/160				
A	walls exceeding 300mm wide	256	m2	
B	walls exceeding 300mm wide; to projecting garden walls	28	m2	
C	<u>extra over</u> for bitumen impregnated sharking felt backing strip, 120mm girth behind expanding metal and for expamet or equivalent, stainless steel expanded metal lath, 120mm girth at roof verge detail, see Architects Drawing 2507/136 & 2507/137	36	m	
D	<u>extra over</u> for stop bead at top of blockwork at eaves detail, see Architects Drawing 2507/129	64	m	
E	walls plinth exceeding 300mm wide	62	m2	
F	walls reveals not exceeding 300mm wide; incl stop bead at windows	142	m	
Beam casing; beams to be encased with 75 x 50mm timber studwork fixed to steelwork and lined one side with 18mm WBP exterior plywood and stainless steel EML mesh reinforcement; al				
G	exceeding 300mm wide	8	m2	
Sundries beads Arch Spec (M20.636); all in accordance with the Architects drawings and specification				

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6 No. Dwelling Units for Donegal CoCo

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at An Glasan, (phase 2), Kilcar

(41) WALL FINISHES EXTERNALLY

<u>(41) WALL FINISHES EXTERNALLY (Cont)</u>				
<u>(Cont) FLOOR, WALL AND CEILING FINISHES:</u>				
<u>In-situ Finishes</u>				
(Cont) Sundries beads Arch Spec (M20.636) ; all in accordance with the Architects drawings and specification				
A	bellcast beads to plinth	176	m	
B	angle beads to reveals	142	m	
C	angle beads to corners	24	m	
D	movement beads to expansion joints	12	m	
E	stop beads	142	m	
<u>PAINTING AND DECORATING: Painting externally</u>				
Painting externally Arch Spec (M60.170), prepare and paint one coat primer, two coats finish coats to rendered blockwork walls externally; all in accordance with the Architects drawings and specification				
F	walls exceeding 300mm wide	283	m2	
G	walls plinth exceeding 300mm wide	62	m2	
H	walls reveals not exceeding 300mm wide	142	m	
Painting externally Arch Spec (M60.171), prepare and paint one coat primer, two coats finish coats to rendered blockwork walls externally; all in accordance with the Architects drawings and specification				
J	not exceeding 300mm wide - to window cills	35	m	

(41) WALL FINISHES EXTERNALLY (Cont)

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(41) WALL FINISHES EXTERNALLY
Carried to Summary

(42) WALL FINISHES INTERNALLY

<u>(42) WALL FINISHES INTERNALLY</u>				
<u>FLOOR, WALL AND CEILING FINISHES: In-situ Finishes</u>				
Wall plaster and skim Arch Spec (M20.131 and 200); prepare and plaster, trowelled smooth; all in accordance with the Architects drawings and specification				
A	walls exceeding 300mm wide	1634	m2	
B	extra over for scud coat to walls exceeding 300mm wide	1634	m2	
C	extra over last for walls not exceeding 300mm wide Arch Spec (M20.140)	44	m	
D	walls reveals not exceeding 300mm wide	142	m	
Plasterboard wall; one layer of 12.5mm Gypsum plasterboard Arch Spec (K10.401), plaster Arch Spec (M20.280) one coat gypsum bonding and 3mm skim plaster, trowelled smooth; all in accordance with the Architects drawings and specification				
E	walls exceeding 300mm wide	22	m2	
Beam casing; beams to be encased with 75 x 50mm timber studwork fixed to steelwork and lined one side with 18mm grade interior plywood and galvanised steel EML mesh reinforcement				
F	exceeding 300mm wide	18	m2	
Sundries Arch Spec (M20.630); galvanised steel accessories; Gyproc or equal and approved				
G	angle beads; fixing with plaster dabs	183	m	
<u>FLOOR, WALL AND CEILING FINISHES: Tiled</u>				
Wall tiling Arch Spec (M40.115); tiling to Bathrooms and Toilets, 152 x 152 x 5.5mm tiles including BAL-WP1 TANKING SYSTEM; including BAL-CTF3 adhesive, 2mm joints including grouting with BAL MICROFLEX WALL GROUT; all in accordance with the Architects drawings and specification				
H	walls exceeding 300mm wide	21	m2	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				To Collection €

(42) WALL FINISHES INTERNALLY

(42) WALL FINISHES INTERNALLY (Cont)			
(Cont) FLOOR, WALL AND CEILING FINISHES:			
Tiled			
(Cont) Wall tiling Arch Spec (M40.115); tiling to Bathrooms and Toilets, 152 x 152 x 5.5mm tiles including BAL-WP1 TANKING SYSTEM; ...			
A	walls not exceeding 300mm wide	5	m
B	<u>Extra over</u> last for mastic sealant	11	m
C	<u>Extra over</u> last for uPVC trims to suit tiles	11	m
Wall tiling Arch Spec (M40.115); tiling to Bathrooms and Toilets, 600 x 300 x 5.5mm tiles including BAL-WP1 TANKING SYSTEM; including BAL-CTF3 adhesive, 2mm joints including grouting with BAL MICROFLEX WALL GROUT; all in accordance with the Architects drawings and specification			
D	walls exceeding 300mm wide	44	m2
E	walls not exceeding 300mm wide	10	m
F	<u>Extra over</u> last for mastic sealant	17	m
G	<u>Extra over</u> last for uPVC trims to suit tiles	17	m
Wall tanking Arch Spec (J40.300); fixing in strict accordance with the manufacturers recommendations			
H	walls exceeding 300mm wide	65	m2
Wall tiling Arch Spec (M40.110); tiling to Kitchens, 150 x 150 x 5.5mm tiles including BAL-WP1 TANKING SYSTEM; including BALCTF3 adhesive, 2mm joints including grouting with BAL MICROFLEX WALL GROUT; all in accordance with the Architects drawings and specification			
J	walls exceeding 300mm wide	9	m2
K	walls not exceeding 300mm wide	6	m
L	<u>Extra over</u> last for mastic sealant	16	m

(42) WALL FINISHES INTERNALLY (Cont)				
(Cont) FLOOR, WALL AND CEILING FINISHES:				
<u>Tiled</u>				
(Cont) Wall tiling Arch Spec (M40.110); tiling to Kitchens, 150 x 150 x 5.5mm tiles including BAL-WP1 TANKING SYSTEM; includingBALCTF3 adhesive, 2mm...				
A	Extra over last for uPVC trims to suit tiles	3	m	
<u>PAINTING AND DECORATING: Painting Walls</u>				
Painting internally Arch Spec (M60.115); prepare and paint one coat sealer, three full coats of emulsion paint to internal plastered blockwork walls, plasterboard and skim; preparation to be apply stabilising primer and colour to be selected by the Architect; all in accordance with the Architects drawings and specification				
B	walls exceeding 300mm wide	1560	m2	
C	walls reveals not exceeding 300mm wide	142	m	
Painting internally Arch Spec (M60.121); prepare and paint one coat sealer, three full coats of vinyl silk emulsion paint to internal plastered blockwork walls, plasterboard and skim; preparation to be apply stabilising primer and colour to be selected by the Architect; all in accordance with the Architects drawings and specification				
D	walls exceeding 300mm wide	40	m2	
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(42) WALL FINISHES INTERNALLY (Cont)

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**(42) WALL FINISHES INTERNALLY
Carried to Summary**

<u>(43) FLOOR FINISHES</u>				
<u>NOTES TO CONTRACTOR</u>				
A	1. The Contractor shall be entirely responsible for ensuring that the surface of floor screeds and floor slabs to receive all floor finishings will be sufficiently level to avoid the necessity for levelling compounds. Should it arise that it becomes necessary to spread levelling compound prior to laying the flooring, the cost of this work will be deemed to be included in the floor finishes rates	1	Item	
B	2. Contractor is to note the layout of the floor finishes and the junctions between each finish. No claim will be entertained for setting out curves, splaying cutting etc.	1	Item	
<u>ROOFING, CLADDING AND WATERPROOFING</u>				
FLOOR, WALL AND CEILING FINISHES: Surface Finishes				
<u>Floor screed Arch Spec (M10.115/120-650); cement and sand levelling screed to precast concrete floor units with reinforcement for crack control to engineers details, trowelled smooth; all in accordance with the Architects drawings and specification</u>				
C	85mm thick, exceeding 300mm wide to ground floor	260	m2	
<u>Separation layer Arch Spec (M10.290-295); 500gauge polythene separation layer as required</u>				
D	exceeding 300mm wide	260	m2	
<u>Floor screed Arch Spec (M50.460) latex self levelling to sand/cement screed, trowelled smooth; all in accordance with the Architects drawings and specification</u>				
E	5-10mm thick; level or to falls only not exceeding 15 degrees; from horizontal	112	m2	
<u>WOODWORK</u>				
BOARDING AND SECOND FIXINGS				
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<u>(43) FLOOR FINISHES (Cont)</u>				
<u>(Cont) WOODWORK</u>				
<u>(Cont) BOARDING AND SECOND FIXINGS</u>				
Door saddle board; wrought unless otherwise stated; pressure impregnated with an approved preservative; plugged, screwed, countersinking and flush pelling; fixed to and including softwood backgrounds as required; complete all as per Architects Drawing and Specification and installed as per Manufacturer's Recommendations				
A	Second fixings; like items; door saddles; 950mm long (PROVISIONAL)	21	nr	
B	Second fixings; like items; door saddles; 1400mm long (PROVISIONAL)	2	nr	
Skirting; Softwood; fully cut and fixed / screwed and pelleted at 400mm centres or as required; fixing to concrete/drylining / metal studwork / blockwork walls at required centres; fixed on treated timber grounds as required; including drilling, plugging, counter sinking, flush pelling, screwing and mortices etc; including all rebates, chamfered edges etc.; seal gap between skirting and floor with sealant Z22/111; all in accordance with the Architect's Drawings and Specification P20/110				
C	Second fixings; skirtings; 150mm x 18mm thick	265	m	
<u>FLOOR, WALL AND CEILING FINISHES</u>				
<u>FLEXIBLE SHEET FINISHES</u>				
Selected Vinyl; "Forbo Surestep Original" or equivalent; Slip Rating - R10; including all seams, adhesives, accessories, smoothing/levelling compound, primer, finishings as required; including mastic sealant at abutments; including all floor / edge trims as required to be supplied and fitted in strict accordance with manufacturers written instructions; colour 172782 Seagreen to be confirmed by Architect; complete as per Architect's Drawings and Specification M50/160				
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<u>(43) FLOOR FINISHES (Cont)</u>				
<u>(Cont) FLOOR, WALL AND CEILING FINISHES</u>				
<u>(Cont) FLEXIBLE SHEET FINISHES</u>				
<u>(Cont) Selected Vinyl; "Forbo Surestep Original" or equivalent; Slip Rating - R10; including all seams, adhesives, accessories...</u>				
A	Floors; exceeding 300mm wide (Bathrooms)	25	m2	
	<u>Self coved skirting in bathroom area Arch Spec (M50.775), including cover formed angles and capping</u>			
B	<u>Extra over for self coved - Coving to skirting; girth 150mm - 300mm; as per Specification M50/775</u>	40	m	
	<u>Selected Vinyl; "Forbo Surestep wood" or equivalent; Slip Rating - R10; including all seams, adhesives, accessories, smoothing/levelling compound, primer, finishings as required; including mastic sealant at abutments; including all floor / edge trims as required to be supplied and fitted in strict accordance with manufacturers written instructions; colour 18802 Elegant Oak to be confirmed by Architect; complete as per Architect's Drawings and Specification M50/150</u>			
C	Floors; exceeding 300mm wide (Kitchens)	50	m2	
D	Floors; exceeding 300mm wide (Utilities / Stores)	7	m2	
E	Coving to skirting; girth 150mm - 300mm	58	m	
<u>TILE,SLAB AND MOSAIC FINISHES</u>				
<u>Floor Tiles; "Pilkingtons Tiles Limited, H. R, Johnson Limited; submit min. 3 no proposals" or equal or approved; Slip Resistance R11; Colour to be selected by Architect from full range; 300mm x 300mm x 8mm thick with 2mm grout colour to be selected; joint thickness 2mm laid on concrete slab; including all trims, grouting, movement joints, adhesives, accessories, smoothing/levelling compound as required; to be supplied and fitted in strict accordance with manufacturers written instructions, all as Architect's Drawing and Specification M40/117</u>				
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<u>(43) FLOOR FINISHES (Cont)</u>				
<u>(Cont) FLOOR, WALL AND CEILING FINISHES</u>				
<u>(Cont) TILE, SLAB AND MOSAIC FINISHES</u>				
<u>(Cont) Floor Tiles; "Pilkingtons Tiles Limited, H. R, Johnson Limited; submit min. 3 no proposals" or equal or approved; Slip Resistance R11; Colour to...</u>				
A	Floors; exceeding 300mm wide; 300mm x 300mm x 8mm thick	37	m2	
<u>MASTIC ASPHALT AND WATERPROOF NON-METAL FLEXIBLE SHEET COVERINGS</u>				
<u>Tanking; BAL-WP1 COATING or similar approved; applied strictly in accordance with the manufacturers instructions; no allowance in measurement for laps; including all fixings, underlays, tape etc; complete as per Architect's Specification M40/520</u>				
B	Tanking; horizontal; exceeding 300mm wide (PROVISIONAL)	37	m2	
<u>PAINTING AND DECORATING</u>				
<u>PAINTING</u>				
<u>Paint to timber base; colour tbc; one coat approved primer applied before fixing member; two undercoats; one finishing coat; as Architect's Drawings and Specification</u>				
C	Second fixings; Skirting; girth not exceeding 300mm	265	m	
<u>Seal joint between wall and floor air barriers with fibre reinforced airtight liquid paint as Architect's Drawings and Specification A40/125</u>				
D	Sealants; seal joint between wall and floor air barriers girth not exceeding 300mm as per Architects detail on drawing TD-01	265	m	
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<u>(43) FLOOR FINISHES (Cont)</u> COLLECTION Page No. 10/1 Page No. 10/2 Page No. 10/3 Page No. 10/4 (43) FLOOR FINISHES Carried to Summary				
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				

<u>(45) CEILING FINISHES</u>				
<u>NOTES TO CONTRACTOR</u>				
A	1. The Contractor is to include in their rates for all works as described in the Architects Specification.	1	Item	
B	2. The Contractor is to include in their rates for all documents to be provided by the trade contractor/subcontractor/suppliers in relation to guarantee, warranties, specification, durability etc.	1	Item	
C	3. The Contractor is to include in their rates for all protection as required for the works.	1	Item	
D	4. The Contractor is to include in their rates for all cutting and waste as necessary to complete the works.	1	Item	
E	5. The Contractor is to include in their rates for all samples and mock ups as required in the Architects Specification.	1	Item	
F	6. Design, detailing and execution of fixings are the sole responsibility of the Contractor.	1	Item	
G	7. It is the Contractor's responsibility to verify or determine all dimensions and levels required prior to commencement of construction or production of fabrication drawings.	1	Item	
H	8. The Contractor is to include for all air seals, acoustic seals, intumescent seals etc. as required.	1	Item	
<u>WOODWORK</u>				
IRONMONGERY, ACCESSORIES AND SUNDRIES				
<u>Vapour Control layer / Airtightness membrane fixed to underside of roof trusses; include for all sealing, taping and dressing around rising walls, services, penetrations, etc; lapped and taped; laid strictly in accordance with the manufacturers instructions; no allowance in measurement for laps; all as per Architects Drawings and Specification A40/150</u>				
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				To Collection €

<u>(45) CEILING FINISHES (Cont)</u>				
<u>(Cont) WOODWORK</u>				
<u>(Cont) IRONMONGERY, ACCESSORIES AND SUNDRIES</u>				
<u>(Cont) Vapour Control layer / Airtightness membrane fixed to underside of roof trusses; include for all sealing, taping and dressing around rising...</u>				
A	Vapour Barrier; horizontal and vertical; exceeding 300mm wide; refer Architects Detail on Drawing	282	m2	
COMPOSITE ITEMS				
<u>Access Hatch; Proprietary thermally insulated vapour sealed trap to give U value of 0.35W/m2k minimum; Hinged down type size 540 x 520 minimum. Glidevale or Timloc or equivalent and approved; insulated attic access hatch; Hinge down operation with high security key lock; including trimming ope, architrave, taping, sealing, fixings, lockable, draft strips, etc. all as per Architects Drawings and Specification</u>				
B	Composite item; insulated access hatch; refer Architects Detail on Drawing	2	nr	
<u>ROOFING, CLADDING AND WATERPROOFING</u>				
Ceiling insulation Arch Spec (P10.115); two layers of 200mm thick mineral wool (Quilted) insulation laid between joists and to the depth of the ceiling joist; all in accordance with the architects and engineers specification				
C	400mm thick, exceeding 300mm wide	260	m2	
Air tightness Arch Spec (A40:100-401); air tight vapour control membrane fixed to underside of rafters, all joints to be fully taped and any penetrations to the membrane to be sealed; all in accordance with the architects and engineers specification				
D	exceeding 300mm wide	282	m2	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				To Collection €

<u>(45) CEILING FINISHES (Cont)</u>				
<u>(Cont) ROOFING, CLADDING AND WATERPROOFING</u>				
(Cont) Air tightness Arch Spec (A40 :100-401); air tight vapour control membrane fixed to underside of rafters, all joints to be fully taped and...				
A	extra over for airtightness tape to be returned down wall and taped to wall using a plasterable airtightness tape (A40/120)s per Architects drawing 2508/132	107	m	
Plasterable Air tightness tape Arch Spec (A40.120) (to seal vapour control layer to inner leaf, all joints to be fully taped and any penetrations to the membrane to be sealed; all in accordance with the architects and engineers specification				
B	not exceeding 300mm wide	304	m	
Insulated airtight loft access attic hatch Arch Spec (K10-430A), include 10mm hick plasterboard lining to opening, suitable mastic sealing around perimeter of opening, fitted with draft strips to perimeter; Hatch to achieve minimum U Value 0.35W/m2K; complete all in accordance with the architects and engineers specification all in accordance with the architects drawings 2508/120 and engineers specification				
C	650mm x 520mm	2	nr	
Testing and Certification of air tightness vapour control membrane and taping Arch Spec (A40.100-400); all in accordance with the architects and engineers specification				
D	Testing and Certification of air tightness vapour control membrane and taping; 2nr air permeable tests per building (Each Units 5 & 6 to have separate Tests)	1	item	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 To Collection €				
6 No. Dwelling Units for Donegal CoCo 11/3				
at An Glasan, (phase 2), Kilcar				

<u>(45) CEILING FINISHES (Cont)</u>				
<u>(Cont) ROOFING, CLADDING AND WATERPROOFING</u>				
Testing and Certification of sound insulation Arch Spec (A40.401) as per TGD Part E with party walls; all in accordance with the architects and engineers specification; 2nr sound tests per building				
A	Testing and Certification of sound insulation (Each Units 5 & 6 to have separate Tests)	1	item	
<u>FLOOR, WALL AND CEILING FINISHINGS</u>				
FLOOR, WALL AND CEILING FINISHES: Ceilings				
Plasterboard ceiling; one layer of 12.5mm Gypsum plasterboard Arch Spec (K10.401) screw fixed to underside of easi joists at 400 centres with plaster Arch Spec (M20.280) one coat gypsum bonding and 3mm skim plaster, trowelled smooth; all in accordance with the Architects drawings and specification				
B	ceilings exceeding 300mm wide to stairwell; plasterboard Type A - Arch(K10.401) and plaster	97	m2	
Plasterboard ceiling; one layer of 15.0mm Gypsum plasterboard Arch Spec (K10.401) screw fixed to underside of easi joists at 400 centres with plaster Arch Spec (M20.280) one coat gypsum bonding and 3mm skim plaster, trowelled smooth; all in accordance with the Architects drawings and specification				
C	ceilings exceeding 300mm wide to stairwell; plasterboard Type A - Arch(K10.401) and plaster	79	m2	
D	Trimming Opes; 10mm plasterboard to access hatch opening; refer Architects Deatil on Drawing	4	m	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 To Collection €				
6 No. Dwelling Units for Donegal CoCo 11/4				
at An Glasan, (phase 2), Kilcar				

<u>(45) CEILING FINISHES (Cont)</u>				
<u>(Cont) FLOOR, WALL AND CEILING FINISHINGS</u>				
<u>(Cont) FLOOR, WALL AND CEILING FINISHES:</u>				
<u>Ceilings</u>				
<u>Plasterboard ceiling; one layer of 12.5mm Gypsum plasterboard Arch Spec (K10.401) screw fixed to underside of easi joists at 400 centres with plaster Arch Spec (M20.280) one coat gypsum bonding and 3mm skim plaster, trowelled smooth; all in accordance with the Architects drawings and specification</u>				
A	ceilings exceeding 300mm wide; 15mm Moisture resistant plasterboard Type H1 - Arch(K10.404) and plaster	50	m2	
<u>Plasterboard ceiling; one layer of 15.0mm Gypsum plasterboard Arch Spec (K10.401) screw fixed to underside of easi joists at 400 centres with plaster Arch Spec (M20.280) one coat gypsum bonding and 3mm skim plaster, trowelled smooth; all in accordance with the Architects drawings and specification</u>				
B	ceilings exceeding 300mm wide; 15mm Moisture resistant plasterboard Type H1 - Arch(K10.404) and plaster	25	m2	
<u>Proprietary boarded ceiling; two layers of Exterior cement board or other equal and approved Arch Spec (K11-320), fixed, jointed and taped to manufacturers requirements, screw fixed to underside of joists at 400 centres with plaster Arch Spec M20.160) external render system, trowelled smooth; all in accordance with the Architects drawings and specification</u>				
C	ceilings exceeding 300mm wide; to external covered areas	14	m2	
<u>PAINTING AND DECORATING</u>				
<u>PAINTING</u>				

<u>(45) CEILING FINISHES (Cont)</u>				
<u>(Cont) PAINTING AND DECORATING</u>				
<u>(Cont) PAINTING</u>				
<u>Painting; "matt emulsion" or equivalent to plaster base; colour to be selected by Architect; 1nr primer coat, 1nr undercoat and 2nr finishing coat; including all preparation work as required to existing surfaces i.e. patching, filling etc.; including working around existing services, ducts, pipes, penetrations, sockets etc; as required; complete as per Architect's Specification Section M60/110 and Drawings and Installed to Manufacturers Recommendations</u>				
A	Ceilings; to plasterboard ceiling	250	m2	
B	Extra over for Suitable Paint for high moisture areas; Ceilings; to plasterboard ceiling	75	m2	
<u>Painting Woodwork; Prime and paint Arch Spec (M60.130) knot and seal, painting with one coat primer, 1 coat undercoat and 1 coat high gloss paint; including all preparation work as required to existing surfaces i.e. patching, filling etc.; including working around existing services, ducts, pipes, penetrations, sockets etc; as required; complete as per Architect's Specification Section M60/110 and Drawings and Installed to Manufacturers Recommendations</u>				
C	doors exceeding 300mm wide, internal	1	m2	
D	not exceeding 300mm wide, internal	4	m	

<u>(45) CEILING FINISHES (Cont)</u> COLLECTION Page No. 11/1 Page No. 11/2 Page No. 11/3 Page No. 11/4 Page No. 11/5 Page No. 11/6 (45) CEILING FINISHES Carried to Summary				
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<u>(47) ROOF FINISHES</u>				
<u>PITCHED ROOF</u>				
<u>ROOFING, CLADDING AND WATERPROOFING</u>				
ROOFING, CLADDING AND WATERPROOFING - Mastic Asphalt, Waterproofing and Gas proof Non-Metal flexible Coverings				
<u>Flat roof covering Arch Spec (J42-110-950); Sika Trocal 'SGmA' single ply roofing sheet type S, mechanically fixed screed; fixing in strict accordance with the manufacturers recommendations; all in accordance with the architects specification -J42/310A</u>				
A	Horizontal, exceeding 300mm wide	15	m2	
B	<u>Extra over for dressing up under slatesl; girth 300mm</u>	15	m	
ROOFING, CLADDING AND WATERPROOFING - Slate and Tile Coverings				
<u>Sloping roof covering Arch Spec (H61.105-840); 600mm x 300mm fibre cement slates with 110mm head lap fixed using 2nr cedral copper nails and 1nr cedral copper crampion/disc rivet per slate to 50mm x 35mm pressure impreganated timber battens and 50mm x 50mm counter battens at 245mm centres on overlapping breathable tape jointed membrane laid on rafters with 150mm horizontal laps all as detailed on; all in accordance with the architects specification</u>				
C	Sloping, exceeding 300mm wide	567	m2	
D	Eaves, triple course	66	m	
E	Eaves carrier Spec (H61.370)	66	m	
F	Eaves ventilation roll and vent Spec (H61.360-365)	66	m	
G	Verges, one and half slate course	36	m	

(47) ROOF FINISHES (Cont)				
(Cont) ROOFING, CLADDING AND WATERPROOFING				
(Cont) ROOFING, CLADDING AND WATERPROOFING - Slate and Tile Coverings				
(Cont) Sloping roof covering Arch Spec (H61.105-840); 600mm x 300mm fibre cement slates with 110mm head lap fixed using 2nr cedral copper nails and 1nr...				
A	Extra over last for Proprietary slate dry verge edge trim system with downward leg Arch Spec (H61.405) fixed to each slating batten in accordance with the manufacturers recommendations; all in accordance with the architects specification	36	m	
B	Ridge capping tile Arch Spec (H61.710); including ventilated ridge roll in accordance with manufacturers recommendations; all in accordance with the architects specification	52	m	
C	Slate vent Arch Spec (H61.840)	26	nr	
D	Rafter Ventilator; In-line Roof Slope Ventilators to suit truss centres to provide continuous eaves ventilation; complete including all fixings; refer architects detail on drawing 2507/132 and Specification Section H61 /365	66	m	
E	Fascia Ventilator; Fix Cedral over-fascia ventilators or equivalent and approved to top of fascia board; CFV25 for the equivalent of a 25mm continuous gap; complete including all fixings; refer architects detail and Specification Section H61 / 365; refer architects detail on drawing 2507/132	66	m	
F	Proprietary Eaves Support Carrier; UST12 Eaves Carrier Cedral or similar approved; bridge the rafters and provide support for the roofing felt complete including all fixings; refer architects Specification Section H61 / 370 refer architects detail on drawing 2507/132	66	m	
Eaves insulation Arch Spec (P10.120) rigid cavity insulation 0.022w/mK; all in accordance with the architects specification				

(47) ROOF FINISHES (Cont)				
(Cont) ROOFING, CLADDING AND WATERPROOFING				
(Cont) ROOFING, CLADDING AND WATERPROOFING - Slate and Tile Coverings				
(Cont) Eaves insulation Arch Spec (P10.120) rigid cavity insulation 0.022w/mK; all in accordance with the architects...				
A	Horizontal, not exceeding 300mm wide	66	m	
B	Supply and install rigid insulation with min R Value of 3.0m2K/m2 - F30/151, to ensure gap between wall plate and rafter ventilator is complete with filled; 150 x 150mm, include cutting to slope of roof Rafter ventilator Arch Spec (H61.360) to provide min 50mm unobstructed airflow; all in accordance with the architects specification	66	m	
C	Horizontal/sloping Over fascia vent Arch Spec (H61.365) ventilation to roof space; all in accordance with the architects specification	102	m	
D	Horizontal Composite item fascia and soffit Arch Spec (K13.150-370) & (K61.375) to timber fascia board, silicone mastic sealant in colour to match fascia board with soffit boarding fixed to timber; all in accordance with the architects specification	66	m	
E	Fascia and soffit	102	m	
F	Spandril ends Mineral fibre quilt "Tile Batten Barrier" fire, acoustic, thermal barrier over roofing felt and fixed between battens in accordance with manufactures instructions and all in accordance with Architects Specification P10/441 <u>Tile Batten Barrier; sloping to pitched roof</u>	8	nr	

<u>(47) ROOF FINISHES (Cont)</u>				
<u>(Cont) ROOFING, CLADDING AND WATERPROOFING</u>				
(Cont) Mineral fibre quilt "Tile Batten Barrier" fire, acoustic, thermal barrier over roofing felt and fixed between battens in accordance with...				
(Cont) Tile Batten Barrier; sloping to pitched roof				
A	350mm wide x 50mm high cavity; fire stop acoustic barrier as per Architects Detail on Drawing 2508/131 & 138	13	m	
<u>Closing cavities; vertical full height at party wall</u>				
B	150mm x 150mm cavity; fire stop acoustic cavity closer as per Architects Detail on Drawing 2508/131 & 138	7	m	
Rock Fibre board with aluminium facing both sides "Soffit Barrier" fire, acoustic, thermal barrier cut to fit tightly in fascia soffit and void at all party wall locations; in accordance with manufactures instructions and all in accordance with Architects Specification P10/443				
<u>Soffit Barrier;</u>				
C	150mm deep x 350mm wide x 300mm high cavity; (cut to fit tightly in fascia soffit void at all party wall locations); fire stop acoustic cavity closer; as per Architects Detail on Drawing 2508/131 & 138	2	nr	
T -Barrier Pitched Roof; fire, acoustic, thermal barrier packed tightly over party wall and under roofing felt; vertical / sloping proprietary cavity barriers to be compression fitted within 50mm max. cavity (min10mm/15mm compression) to comply with TGD Part 8; at all party wall locations; in accordance with manufactures instructions and all in accordance with Architects Specification P10/442				
<u>Closing cavities; sloping to pitched roof</u>				

(47) ROOF FINISHES (Cont)				
(Cont) ROOFING, CLADDING AND WATERPROOFING				
(Cont) T -Barrier Pitched Roof; fire, acoustic, thermal barrier packed tightly over party wall and under roofing felt; vertical / sloping proprietary...				
(Cont) Closing cavities; sloping to pitched roof				
A	350mm wide soffit barrier at party wall cavity closer; as per Architects Detail on Drawing 2508/131 & 138	13	m	
ROOFING, CLADDING AND WATERPROOFING - Flexible Sheet Metal Coverings				
<u>Lead valley Arch Spec (H70.230-970) Code 6, fixing in strict accordance with the manufacturers recommendations; all in accordance with the architects specification</u>				
B	600mm girth as detailed	34	m	
<u>Lead cover flashing Arch Spec (H71.230-970) Code 4, fixing in strict accordance with the manufacturers recommendations; all in accordance with the architects specification</u>				
C	250mm horizontal girth as detailed	3	m	
DRAINAGE - Disposal Above Ground Rainwater Disposal				
<u>Downpipes Arch Spec (R10.270-920) uPVC 80mm diameter downpipes, selected colour, fixing in strict accordance with the manufacturers recommendations; all in accordance with the architects specification</u>				
D	80mm diameter; fixed to masonry wall, vertical	28	m	
E	<u>Extra over</u> last for forming opening in projecting canopy for 80mm pipework	3	nr	
F	<u>Extra over</u> last for swan necks, formed with 2nr 45 degree bends and pipework	16	nr	
G	<u>Extra over</u> last for shoes	8	nr	
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6 No. Dwelling Units for Donegal CoCo 12/5				
at An Glasan, (phase 2), Kilcar				

<u>(47) ROOF FINISHES (Cont)</u>				
<u>(Cont) ROOFING, CLADDING AND WATERPROOFING</u>				
<u>(Cont) DRAINAGE - Disposal Above Ground Rainwater Disposal</u>				
Gutters Arch Spec (R10.280-920) uPVC 100mm half round guttering, selected colour, fixing in strict accordance with the manufacturers recommendations; all in accordance with the architects specification				
A	125mm wide; fixed to upvc/timber fascia, horizontal	70	m	
B	<u>Extra over</u> last for 80mm diameter outlets	8	nr	
C	<u>Extra over</u> last for stop ends	10	nr	
D	<u>Extra over</u> last for internal angles	2	nr	
<u>CANOPIES</u>				
<u>ROOFING, CLADDING & WATERPROOFING</u>				
RIGID SHEET METAL COVERINGS				
Structure to form canopies; contractor designed in line with Architects Drawings; including all required steel, fixings, framing, brackets, etc complete all as per Architects Drawings, Specification and Installed to Manufacturers Recommendations				
Canopy Fascia and Roof				
E	Structure to form canopies 2500mm long x 1500mm wide; timber runners bolted to web of beam with M12 bolts at 400mm c/c; galvanised joist hangers at 400mm centres; 200 x 47 flat roof joists at 400mm centres; framed with and including 200 x 75 PFC galvanised channels; with timber firring pieces; 15mm plywood backing including refer Architects Detail on Drawing 2507/118 and Engineers Drawings 1966/T01/002	1	Item	

(47) ROOF FINISHES (Cont)				
(Cont) ROOFING, CLADDING & WATERPROOFING				
(Cont) RIGID SHEET METAL COVERINGS				
(Cont) Structure to form canopies; contractor designed in line with Architects Drawings; including all required steel, fixings...				
(Cont) Canopy Fascia and Roof				
A	Structure to form canopy overhang to rear 7500mm long x 1000mm wide; timber runners bolted to web of beam with M12 bolts at 400mm c/c; galvanised joist hangers at 400mm centres; 200 x 47 flat roof joists at 400mm centres; framed with and including 200 x 75 PFC galvanised channels; with timber firring pieces; 15mm plywood backing including refer Architects Detail on Drawing 2507/118 and Engineers Drawings 1966/T01/002	1	Item	
B	Powdercoated pressed metal cladding with standing seam profile and pressed metal cover flashing surround to Canopy / Flat Roof Sections; on and including separation membrane; on and including 18mm WBP plywood; on and including 100mm x 44mm treated battens and firrings pieces at required centres; fixed back to primary structure; including 'Tyvek' breather membrane or equivalent; on and including insulation fitted between battens; including 50mm contineous ventilation with insect mesh; include for all cills, flashings, trims, angles, channels, fixings, straps, mastic joint seals, drilling; fixings, etc; and all necessary preparation and sealants to ensure watertightness; all as per Architects Drawings, Specification and Installed to Manufacturers Recommendations	5	m	
C	Canopy Fascia and Roof exceeding 300mm wide; refer Architects Detail on Drawing 2507/118	14	m2	
	Upstand Flashings			
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6 No. Dwelling Units for Donegal CoCo 12/7				
at An Glasan, (phase 2), Kilcar				

<u>(47) ROOF FINISHES (Cont)</u>				
<u>(Cont) ROOFING, CLADDING & WATERPROOFING</u>				
<u>(Cont) RIGID SHEET METAL COVERINGS</u>				
<u>(Cont) Powdercoated pressed metal cladding with standing seam profile and pressed metal cover flashing surround to Canopy / Flat Roof Sections; on...</u>				
<u>(Cont) Upstand Flashings</u>				
A	200mm girth; once bent; dressed up under roof slates approximately 400mm; include proprietary fixings to standing seam roof; refer Architects Detail on Drawing 2507/118	14	m	
Cover Flashings				
B	150mm girth; once bent; dressed into external wall; refer Architects Detail on Drawing 2507/118	14	m	
<u>Canopy Soffits; Knauf Aquapanel Exterior Soffit Liner System or similar and approved with rendered finish to underside of canopy including all battens, framing, insulation, etc to achieve flush finish on and including framing as required fixed with stainless steel fixings; including paint finish and touching up on site; all as per Architects Drawings, Specification and Installed to Manufacturers Recommendations</u>				
Boarding and Sheeting				
C	Roof overhang soffits / ceilings; horizontal; exceeding 300mm; refer Architects Detail on Drawing 2507/118	14	m2	
D	<u>Extra over</u> for 50mm high performance insulation PIR foam boards to BSEN 13165 fixed securely to underside of steel canopy structure; Architects specification F30/151 (product reference K8 kingspan kooltherm insulation PIR board or equivalent) insulation to void; 50mm deep as per Architects Specification and Drawing 2507/118	14	m2	
E	<u>Extra over</u> for insulation to void; 400mm deep as per Architects Specification and Drawing 2507/118	14	m2	

(47) ROOF FINISHES (Cont)

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(47) ROOF FINISHES
Carried to Summary

(59) MECHANICAL INSTALLATION

<u>(59) MECHANICAL INSTALLATION</u>				
<u>NOTES TO CONTRACTOR</u>				
A	1.The Contractor is deemed to have satisfied themselves of the full scope of services works as outlined in the Service Engineers tender documentation. The contractor is deemed to have fully priced for these works accordingly.	1	Item	
B	2. The Contractor will be responsible for establishing nominated sub-contractors requirements in relation to all builders work to allow its timely incorporation into the works. The responsibility lies with the Main Contractor to establish/co-ordinate what builders work will be required and to include for same within the services costs below. The contractor will be required to submit to the design team a full builders work schedule including marked up floor plans highlighting opes required prior to undertaking the works.	1	Item	
C	3. All openings in walls/ floor/roofs to be firestopped and sealed accordingly and must be certified on completion to the satisfaction of the Architect and Consulting Engineer; Fire proofing around ducts, pipework, cable tray & trunking within service risers shall be the responsibility of the main contractor.	1	Item	
D	4. All firestopping must achieve required rating.	1	Item	
E	5. The contractors are to include for installing lintels above pipe penetrations	1	Item	
F	6. The contractors are to include for all grounds and caddy bars as required	1	Item	
G	7. Contractors are referred to the Mechanical Drawings and Specifications for this Dwelling type	1	Item	
H	8. Work in this element comprises Mechanical services together with associated attendances and builders works	1	Item	

<u>(59) MECHANICAL INSTALLATION (Cont)</u>				
<u>(Cont) NOTES TO CONTRACTOR</u>				
A	9.All descriptions are to be read with the specification (see separate document) referred to in the Bills of Quantities; All workmanship clauses and those of a general nature are deemed to be included	1	Item	
B	10.Contractors are referred to the Mechanical drawings and Specifications for this building type and note that the Mechanical Installation shall comply with current regulations	1	Item	
<u>MECHANICAL INSTALLATIONS General Items</u>				
C	Liaising with Irish Water/DCC Installation for supply to buildings	1	Item	
<u>HEATING VENTILATION AND AIR-CONDITIONING</u>				
Services pipework; pre-insulated copper pipe system as drawings				
D	Pipes 28mm	96	m	
E	Extra; bends	30	nr	
F	Extra; tees	10	nr	
G	Extra; reducing tees 28mm x 28mm x 22mm	10	nr	
H	Extra; isolating valve	6	nr	
J	Extra; S T R valve	6	nr	
K	Extra; safety valve discharge to drain at low level via tundish	2	nr	
L	Extra; discharge from tundish to external	2	nr	
M	Extra; bent connectors to manifold	6	nr	
N	Extra; bent connectors to cylinder	10	nr	
P	Pipes 22mm	210	m	
Q	Extra; bends	60	nr	
R	Extra; tees	20	nr	
S	Extra; reducing tees 22mm x 22mm x 15mm	24	nr	
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(59) MECHANICAL INSTALLATION (Cont)				
(Cont) HEATING VENTILATION AND AIR-CONDITIONING				
(Cont) Services pipework; pre-insulated copper pipe system as drawings				
A	Extra; isolating valve	30	nr	
B	Extra; two port motorised control valve	6	nr	
C	Extra; three port motorised control valve	6	nr	
D	Extra; three port motorised control DP valve	2	nr	
E	Extra; double regulating valve	2	nr	
F	Extra; drain cock	2	nr	
G	Extra; pressure reducing valve	2	nr	
H	Extra; non return valve	2	nr	
J	Extra; air reducing valve	2	nr	
K	Extra; automatic air valve	2	nr	
L	Extra; E V valve	2	nr	
M	Extra; flow switch	2	nr	
N	Extra; thermostat	6	nr	
P	Extra; manometer	2	nr	
Q	Extra; single circulating pump	6	nr	
R	Extra; discharge pipe externally at low level	6	nr	
S	Pipes 15mm	156	m	
T	Extra; bends	78	nr	
U	Extra; tees	30	nr	
Heating Manifold				
V	flow and return as drawings; complete with 9 port mixing valve, pump and pre-wired control panel, sensors and thermostats as Mechanical Specification	1	nr	

(59) MECHANICAL INSTALLATION (Cont)				
(Cont) HEATING VENTILATION AND AIR-CONDITIONING				
(Cont) Heating Manifold				
A	flow and return as drawings; complete with 8 port mixing valve, pump and pre-wired control panel, sensors and thermostats as Mechanical Specification	1	nr	
Underfloor heating layout as per Ground Floor drawings				
B	Ground Floor area served for Zone 1	2	nr	
C	Number in last	2	nr	
D	Ground Floor area served for Zone 2	2	nr	
E	Number in last	2	nr	
F	Ground Floor area served for Zone 3	2	nr	
G	Number in last	2	nr	
Air source heat pump				
H	923mm x 950mm x 330mm; Mechanical specification ref: outdoor unit as by Mitsubishi Electrics System Ref OU-01, Model Ref PUZ-VM50VHA; fixed to concrete plinth complete with anti-vibration mountings and anti-condensate drainage	2	nr	
J	Extra; galvanised metal cover with door as Arch Detail	2	nr	
Pre-plumbed indoor heat pump packaged cylinder, factory insulated and enclosed with a minimum of 50 insulation Mitsubishi / Daikin Altherma 3 R F, or equivalent; Complete with built in heat exchanger, pump, hot water tank, expansion vessel and controls				
K	1600mm x 595mm x 680mm; Mechanical specification: indoor unit as by Mitsubishi Electrics System Ref IU-01, Model Ref EHPT20X-MHEDW; fixed to cement sand screed	2	nr	
Insulation				

<u>(59) MECHANICAL INSTALLATION (Cont)</u>				
<u>(Cont) HEATING VENTILATION AND AIR-CONDITIONING</u>				
<u>(Cont) Insulation</u>				
A	pipework; 15mm nominal diameter; 25mm cover	156	m	
B	pipework; 22mm nominal diameter; 25mm cover	196	m	
C	pipework; 28mm nominal diameter; 25mm cover	96	m	
<u>WATER SERVICES INSTALLATIONS</u>				
Water Installation Manifold				
D	Single Pipe as drawings; complete with 4 port manifold, pump and pre-wired control panel, sensors as Mechanical Specification	2	nr	
E	Single Pipe as drawings; complete with 8 port manifold, pump and pre-wired control panel, sensors as Mechanical Specification	2	nr	
Services pipework: medium density polyethylene HDPE blue to BS EN 12201 and IS 135; fitting and joints to BS 7874, BS EN 681 and BS EN 682				
<u>Pipes; couplers in the running length; fixing in supports as Mechanical specification</u>				
F	Pipes 28mm	32	m	
G	Extra; bends	24	nr	
H	Extra; tees	6	nr	
J	Extra; reducing tees 28mm x 28mm x 22mm	10	nr	
K	Extra; straight connection 28mm x 28mm x 22mm	10	nr	
L	Extra; HDPE to copper adaptor	6	nr	
M	Extra; isolating valve	30	nr	
N	Extra; non-return valve	2	nr	

<u>(59) MECHANICAL INSTALLATION (Cont)</u>				
<u>(Cont) WATER SERVICES INSTALLATIONS</u>				
(Cont) Services pipework: medium density polyethylene HDPE blue to BS EN 12201 and IS 135; fitting and joints to BS 7874, BS EN 681 and BS EN...				
(Cont) Pipes; couplers in the running length; fixing in supports as Mechanical specification				
A	Extra; stop cock	4	nr	
B	Extra; stop value	4	nr	
C	Extra; safety valve	2	nr	
D	Extra; pressure reducing value	6	nr	
E	Extra; regulating/check value	6	nr	
F	Extra; straight connectors to water tank	6	nr	
G	Extra; straight connectors to cylinder	6	nr	
H	Pipes 22mm	198	m	
J	Extra; bends	60	nr	
K	Extra; reducing tees 22mm x 22mm x 15mm	24	nr	
L	Extra; tees	30	nr	
M	Extra; isolating valve	20	nr	
N	Extra; straight connectors to bath/sink	16	nr	
P	Extra; straight connection 22mm x 22mm x 15mm	10	nr	
Q	Pipes 15mm	98	m	
R	Extra; bends	44	nr	
S	Extra; isolating valve	24	nr	
T	Extra; straight connectors to wc/whb	24	nr	
<u>Pre-insulated water storage tank; 227 litre capacity complete with drip tray; as Mechanical equipment</u>				

<u>(59) MECHANICAL INSTALLATION (Cont)</u>				
<u>(Cont) WATER SERVICES INSTALLATIONS</u>				
<u>(Cont) Services pipework: medium density polyethylene HDPE blue to BS EN 12201 and IS 135; fitting and joints to BS 7874, BS EN 681 and BS EN...</u>				
<u>(Cont) Pre-insulated water storage tank; 227 litre capacity complete with drip tray; as Mechanical equipment</u>				
A	ref. coffin tank 1216mm x 545mm x 475mm; with connection for 22mm mains water supply, two 22mm cold water service and feed to cylinder and 54mm overflow with insect proofscreen	2	nr	
B	Ball valves; BS 1212 Pattern 1; plastic float for high pressure; joints to pipes	2	nr	
<u>Pipes; couplers in the running length; fixing in supports as Mechanical specification</u>				
C	22mm; inlet with flange and backnut; fixing to plastic cistern; silencer pipes; metallic backing plate	2	nr	
<u>Expansion vessel</u>				
D	10 Litre complete with control kit; joint to pipes	2	nr	
<u>Water booster pump; Salamander</u>				
E	type WRAS approved for potable services; 0.5 flow (kg/s); joint to pipes	2	nr	
<u>Wall mounted electric vented water heater</u>				
F	15 Litres; FBM Eco or equivalent; joint to pipes	2	nr	
<u>Insulation</u>				
G	pipework; 15mm nominal diameter; 25mm cover	100	m	
H	pipework; 22mm nominal diameter; 25mm cover	212	m	
J	pipework; 28mm nominal diameter; 25mm cover	30	m	
<u>Amount for testing and commissioning</u>				
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<u>(59) MECHANICAL INSTALLATION (Cont)</u>			
<u>(Cont) WATER SERVICES INSTALLATIONS</u>			
(Cont) Services pipework: medium density polyethylene HDPE blue to BS EN 12201 and IS 135; fitting and joints to BS 7874, BS EN 681 and BS EN...			
(Cont) Amount for testing and commissioning			
A	generally; Mechanical Specification refers	1	Item
<u>VENTILATION</u>			
Ventilation Services Layout as Mechanical drawings			
<u>Duct</u>			
B	204mm x 60mm diameter, horizontal	31	m
C	204mm x 60mm diameter, vertical	12	m
D	bends; 204mm x 60mm	14	nr
E	flexible ductwork connection to ceiling extract grille	8	nr
F	connection to vertical duct	8	nr
G	ductwork connection to wall extract grille	4	nr
H	cooker hood extract fan; as Mechanical equipment	2	nr
<u>Continuous mechanical ventilation unit as Mechanical drawings</u>			
J	exhaust heat pump ventilation manifold; as Mechanical equipment	2	nr
K	ref. PV01; permanent ventilation grille; as Mechanical equipment	14	nr
L	Ventilation valves and grille; as Mechanical equipment	14	nr
M	ref. EG01; general extract unit; as Mechanical equipment	4	nr
N	ref. RVT01; roof vent tile; as Mechanical equipment	4	nr

<u>(59) MECHANICAL INSTALLATION (Cont)</u>				
<u>(Cont) VENTILATION</u>				
(Cont) Ventilation Services Layout as Mechanical drawings				
<u>External wall louvre</u>				
A	ref. EWL 01; to suit 206mm x 60mm; fixing to backgrounds requiring plugging; as Mechanical equipment	4	nr	
B	ref. EWL 02; to suit 206mm x 60mm; fixing to backgrounds requiring plugging; as Mechanical equipment	2	nr	
C	external grille; type WD-EF or WG-RF, extruded aluminium; fixing to backgrounds requiring plugging	4	nr	
<u>Fire rated ceiling air value</u>				
D	on flexible ducting to suit 204mm x 60mm; firefly fire rated ceiling air values; Tenmat or equivalent; attach to ducting to mounting ring	4	nr	
E	ref. FD; to suit 125mm diameter ductwork	4	nr	
<u>Amount for testing and commissioning</u>				
F	generally; Mechanical Specification refers (2 house units)	1	Item	
<u>SOILS & WASTES SERVICES INSTALLATION</u>				
Plastic pipework, Grey pipes; round, push fit ring seal joints, fixing in polypropylene supports at maximum 600mm centres				
G	32mm nominal size, clipping into position, plugging to plastered	20	m	
H	Branches	2	nr	
J	Bends	10	nr	
K	Branch connection to 110mm soil stack; boss adaptor	2	nr	
L	42mm nominal size, clipping into position, plugging to plastered blockwork	10	m	
M	Branches	2	nr	
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<u>(59) MECHANICAL INSTALLATION (Cont)</u>				
<u>(Cont) SOILS & WASTES SERVICES INSTALLATION</u>				
(Cont) Plastic pipework, Grey pipes; round, push fit ring seal joints, fixing in polypropylene supports at maximum 600mm...				
A	Bends	4	nr	
B	connection to 110mm soil stack; boss adaptor	2	nr	
C	builders upstand 110mm	2	nr	
D	reducer 110-38mm	2	nr	
E	32mm nominal size, clipping into position, plugging to plastered blockwork	14	m	
F	Branches	10	nr	
G	Bends	2	nr	
H	connection to 110mm soil stack; boss adaptor	2	nr	
J	54mm nominal size, clipping into position, plugging to plastered blockwork	10	m	
K	Boss adaptor to cold water tank	2	nr	
L	Boss adaptor to drip tray	2	nr	
M	38mm nominal size, clipping into position, plugging to plastered blockwork	14	m	
N	Bends	10	nr	
P	Branches	2	nr	
Q	connection to 110mm soil stack; boss adaptor	2	nr	
R	110mm nominal size, clipping into position, plugging to rendered blockwork	20	m	
S	Bends	10	nr	
T	Branches	4	nr	
U	Ventilating cowl	2	nr	

(59) MECHANICAL INSTALLATION (Cont)				
(Cont) SOILS & WASTES SERVICES INSTALLATION				
(Cont) Plastic pipework, Grey pipes; round, push fit ring seal joints, fixing in polypropylene supports at maximum 600mm...				
A	Branch connection to 110mm soil stack; boss adaptor	2	nr	
B	Connection to 110mm drain pipe; upvc adaptor	2	nr	
Floor Drain				
C	Harmer 304 grade stainless steel shower drain; 100mm x 100mm Casoria or equivalent; 50mm connector for upvc pipe; setting in screed	2	nr	
Fire Collar PFC Corofil or equivalent and approved, sealing with fire sealant				
D	55mm, service penetrations; intumescent pipe wraps to provide 1 hour fire resistance	18	nr	
E	110mm, service penetrations; intumescent pipe wraps to provide 1 hour fire resistance	3	nr	
MISCELLANEOUS				
F	Amount for Supply & Installation of complete above ground soils and wastes system serving kitchen and bathrooms as per mechanical series drawings, to include coordination of connection to existing sils and waste branch	1	Item	
G	Amount for Supply & Installation of complete above ground soils and wastes system serving bathrooms as per mechanical series drawings, to include coordination of connection to existing sils and waste branch	1	Item	
H	Amount for new labelling, cleaning eyes etc for all new S&W above	1	Item	
J	Amount for connection of sanitary ware	1	Item	

<u>(59) MECHANICAL INSTALLATION (Cont)</u>				
<u>(Cont) SOILS & WASTES SERVICES INSTALLATION</u>				
<u>(Cont) MISCELLANEOUS</u>				
A	Amount for labelling, testing and commissioning	1	Item	
<u>EXTERNAL WATER MAIN</u>				
External Mains Water from Water Meter to Dwelling & To all appliances as per Services Engineers Drawing				
B	Generally; Mechanical Specification refers	1	Item	
<u>GENERAL ITEMS & SUNDRIES</u>				
MECHANICAL SUB-CONTRACOTOR PRELIMINARIES				
C	Amount for preliminaries	1	Item	
D	Amount for validation and verification	1	Item	
Testing and Commissioning				
E	Install, test and commission Water services installations to comply with BS 8558:2011 and BS EN 806, water supply by laws and equipment manufacturers recommendations	1	Item	
F	Install, the entire installation to comply with CIBSE Technical Memoranda TM 13, (Minimising Risk of Legionnaires Disease)	1	Item	
G	Install, test and commission Dry Riser installations with 12 bar water pressure test and equipment manufacturers recommendations	1	Item	
As fitted Drawings, Operating and Maintenance Manuals & Drawings				
H	Generally; Mechanical Specification refers	1	Item	
Operating and Maintenance Manuals				
J	Amount for safety file & PSCS support to Main Contractor	1	Item	

<u>(59) MECHANICAL INSTALLATION (Cont)</u>				
<u>(Cont) GENERAL ITEMS & SUNDRIES</u>				
<u>(Cont) Operating and Maintenance Manuals</u>				
A	generally; Mechanical Specification refers	1	Item	
Site Working Drawings				
B	Amount for co-ordination drawings	1	Item	
C	Amount for builders work drawings	1	Item	
D	generally; Mechanical Specification refers	1	Item	
Demonstration on Mechanical Systems to Client				
E	generally; Mechanical Specification refers	1	Item	
F	Amount for client demonstrations at Practical Completion	1	Item	
BER Test				
G	generally; Mechanical Specification; The Contractor is to have a regard to the air permeability tests as noted in the specification section, prior to the completion; forward copy of the test results to the architect refers (2 house units)	1	Item	
<u>BUILDERS WORK IN CONNECTION WITH MECHANICAL SERVICES</u>				
BUILDERS WORK (REFER TO SERVICES ENGINEERS DRAWINGS AND SCHEDULE)				
<u>Concrete plinth for heat pump; incl excavation, compaction, disposal surplus excavated material, 25N concrete, reinforcement, temporary formwork, making good on completion</u>				
H	900mm x 600mm x 150mm high	2	nr	
<u>Chases</u>				
J	50mm x 50mm nominal size; in blockwork wall; making good	48	m	
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<u>(59) MECHANICAL INSTALLATION (Cont)</u>				
<u>(Cont) BUILDERS WORK IN CONNECTION WITH MECHANICAL SERVICES</u>				
<u>(Cont) BUILDERS WORK (REFER TO SERVICES ENGINEERS DRAWINGS AND SCHEDULE)</u>				
<u>(Cont) Chases</u>				
A	Fibre Reinforced airtight liquid paint; A40/125, to be applied to all internal blockwork walls at service penetrations and to seal all chases in masonry prior to installation of M&E Services; as per Architects specification and Drawing 2508/111	48	m	
<u>Forming or cutting holes for; pipes or ducts; insert grounds/trimmers as necessary; fire proofing with pipe wraps, fire batts, fire sealant etc; making good structure disturbed</u>				
B	not exceeding 55mm; in 100mm blockwork wall; fit pipe sleeve with intumescent collar, 1 hour fire proofing	36	nr	
C	not exceeding 55mm; in 350mm cavity blockwork wall; fit pipe sleeve, 1 hour fire proofing	20	nr	
D	110mm; in 200mm timber floor; fit Geberit pipe sleeve with intumescent collar, 1 hour fire proofing	6	nr	
E	110mm; in 350mm cavity blockwork wall; fit pipe sleeve and seal, 1 hour fire proofing	20	nr	
F	125mm; in 350mm cavity blockwork wall; fit pipe sleeve and seal, 1 hour fire proofing	2	nr	
G	Fibre Reinforced airtight liquid paint; A40/125, to be applied to all internal blockwork walls at service penetrations and to seal all chases in masonry prior to installation of M&E Services	84	nr	
<u>Holes; mortices; chases and the like, cutting or forming for concealed pipes 50mm nominal size; providing grounds; fire proofing with pipe wraps, fire batts, fire sealant etc; making good structure disturbed</u>				

<u>(59) MECHANICAL INSTALLATION (Cont)</u>				
<u>(Cont) BUILDERS WORK IN CONNECTION WITH MECHANICAL SERVICES</u>				
<u>(Cont) BUILDERS WORK (REFER TO SERVICES ENGINEERS DRAWINGS AND SCHEDULE)</u>				
<u>(Cont) Holes; mortices; chases and the like, cutting or forming for concealed pipes 50mm nominal size; providing grounds; fire proofing with pipe...</u>				
A	fitting, equipment and control gear point, 1 hour fire proofing	24	nr	
B	opening in 100mm wall; 400mm x 600mm; build in reinforced precast concrete lintels over, 1 hour fire proofing	6	nr	
C	opening in 350mm cavity wall; 400mm x 600mm; seal sides of opening with slates; build in reinforced precast concrete lintels over, 1 hour fire proofing	2	nr	
D	Fibre Reinforced airtight liquid paint; A40/125, to be applied to all internal blockwork walls at service penetrations and to seal all chases in masonry prior to installation of M&E Services	32	nr	
<u>GENERAL</u>				
E	Contractor is to include here for builders works associated with the Mechanical Services. The Contractor is to liaise directly with their own Specialist Sub-Contractors with regards to the provision of all builders work required for the electrical installation; no claims will be entertained in respect of omissions or oversights on behalf of either party. Include backfilling services opes with 60 minute fire rated rockwool ablative coated fire batt or equivalent; proprietary fire sealant to both sides of opes to Architect's approval; making good existing structure on completion.	1	Item	

(59) MECHANICAL INSTALLATION (Cont)

COLLECTION

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**(59) MECHANICAL INSTALLATION
Carried to Summary**

(69) ELECTRICAL INSTALLATION

<u>(69) ELECTRICAL INSTALLATION</u>				
<u>NOTES TO CONTRACTOR</u>				
A	1.The Contractor is deemed to have satisfied themselves of the full scope of services works as outlined in the Service Engineers tender documentation. The contractor is deemed to have fully priced for these works accordingly.	1	Item	
B	2. The Contractor will be responsible for establishing nominated sub-contractors requirements in relation to all builders work to allow its timely incorporation into the works. The responsibility lies with the Main Contractor to establish/co-ordinate what builders work will be required and to include for same within the services costs below. The contractor will be required to submit to the design team a full builders work schedule including marked up floor plans highlighting opes required prior to undertaking the works.	1	Item	
C	3. All openings in walls/ floor/roofs to be firestopped and sealed accordingly and must be certified on completion to the satisfaction of the Architect and Consulting Engineer; Fire proofing around ducts, pipework, cable tray & trunking within service risers shall be the responsibility of the main contractor.	1	Item	
D	4. All firestopping must achieve required rating.	1	Item	
E	5. The contractors are to include for installing lintels above pipe penetrations	1	Item	
F	6. The contractors are to include for all grounds and caddy bars as required	1	Item	
G	7. Contractors are referred to the Electrical Drawings and Specifications for this Dwelling type	1	Note	
H	8. Electrical services together with associated attendances and builders works	1	Note	

<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) NOTES TO CONTRACTOR</u>				
A	9. All descriptions are to be read with the specification (see separate document) referred to in the Bills of Quantities; All workmanship clauses and those of a general nature are deemed to be included	1	Note	
B	10. Contractors are referred to the Electrical drawings and Specifications for this building type and note that the Electrical Installation shall comply with "National Rules for Electrical Installations" IS 10101 2020 5th Edition	1	Note	
<u>ELECTRICAL INSTALLATIONS</u>				
General				
C	Liasing with ESB Networks Installation for supply to buildings	1	Item	
Equipment and control gear				
D	as detailed on Schematic drawing; complete	1	nr	
Consumer control unit, 1 hour fire proofing				
E	as detailed on Schematic drawing; complete with 10,16,20,32 amp fuses, RCBO, MCB residual current devices with AFDD isolators; setting consumer control unit; setting consumer control unit	2	nr	
F	ESB Meter; including Hager Meter Tail Unit ref MCU10101 within the External ESB Electric Meter Box, provide 16mm2 LSF/LSF singles connecting Switchfuse with the consumer unit and 16mm2 tails from Swtchfuse for Final Connection to Electric Meter by the ESB.	2	nr	
LIGHTING INSTALLATION				
<u>Conduit; heavy grade rigid PVC</u>				
G	20 fixing with saddles; plugging; concealed	550	m	

<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) ELECTRICAL INSTALLATIONS</u>				
<u>(Cont) LIGHTING INSTALLATION</u>				
<u>PVC insulated and sheathed cables to IS201-4:2015 LSZH as Electrical Specification colour coded for identification</u>				
A	1.5mm ² 201-4 T&E insulated cable to IS 273 & BS 8436; drawn into conduits	550	m	
B	1.5mm ² 201-4 T&E insulated cable to IS 273 & BS 8436; fixed to timber	395	m	
<u>Switches; single pole, flush pattern as detailed on drawings</u>				
C	10 amp rated capacity; one way - single pole; fixing in position	14	nr	
D	10 amp rated capacity; one way switch pull cord - single pole; fixing in position	2	nr	
E	10 amp rated capacity; two way - single pole; fixing in position	32	nr	
F	10 amp rated capacity; one way illuminated manual switch - single pole (per drg note B); fixing in position	2	nr	
G	10 amp rated capacity; intermediate, switch - single pole; fixing in position	2	nr	
<u>Pendant light fitting as drawings</u>				
H	cord drop not exceeding 300, 150mm pendant set complete with LED light, 13W, 2700K	20	nr	
<u>Ceiling mounted light fitting as drawings</u>				
J	IP65 rated circular luminaire complete with 15W, 1340lumens, 150 lm/cctw lumen efficacy, 50,000hours as per ROBUS GOLF SLIM LED or equivalent - B	2	nr	
K	IP65 rated circular luminaire complete with 15W, 1340lumens, 150 lm/cctw lumen efficacy, 50,000hours as per ROBUS GOLF SLIM LED or equivalent - C	4	nr	

<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) ELECTRICAL INSTALLATIONS</u>				
<u>(Cont) LIGHTING INSTALLATION</u>				
<u>(Cont) Ceiling mounted light fittings as drawings</u>				
A	IP65 rated circular luminaire complete with 8W, 960lumens, 4000K LED, 115 lm/W, 50,000hours as per ANNSELL SLEEK or equivalent	1	nr	
B	IP44 rated linear luminaire complete with 20.2W, 2550lumens, 126 lm/cctw lumen efficacy, 50,000hours as per SPEEDBEAM or equivalent	4	nr	
C	IP44 rated linear luminaire complete with 20.2W, 2550lumens, 126lm/cctw lumen efficacy, 50,000hours as per SPEEDBEAM or equivalent in attic space	2	nr	
<u>Bulkhead luminaire as drawings</u>				
D	IP65 rated, wall mounted, bulkhead luminaire, 1050lms,14.3w, 4000k LED or equivalent	2	nr	
E	IP65 rated wall mounted, bulkhead luminaire, 1050lms,14.3w, 4000k LED (LUMINAIRE TO HAVE VEGA BLACK EYE TRIM ATTACHED) or equivalent	2	nr	
<u>Shaver Light</u>				
F	Wall mounted energy saving shaver light complete with SHAVER SOCKET	2	nr	
POWER INSTALLATION				
<u>Conduit; heavy grade rigid PVC</u>				
G	20 fixing with saddles; plugging; concealed	585	m	
<u>PVC insulated and sheathed cables to IS201-4:2015 LSZH as Electrical Specification colour coded for identification</u>				
H	2.5mm ² 201-4T&E insulated cable to IS 273 & BS 8436; drawn into conduits; to power	585	m	
J	2.5mm ² 201-4T&E insulated cable to IS 273 & BS 8436; fixed to timber; to power	450	m	
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<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) ELECTRICAL INSTALLATIONS</u>				
<u>(Cont) POWER INSTALLATION</u>				
<u>(Cont) PVC insulated and sheathed cables to IS201-4:2015 LSZH as Electrical Specification colour coded for identificat...</u>				
A	2.5mm ² 201- XLPE/SWA/LS, insulated cable to IS 273 & BS 8436 with LSOH pliable aluminium screened cables shall have a full sized CPC; drawn into conduits; to heating, appliances etc	128	m	
B	6.0mm ² 201-4T&E insulated cable to IS 273 & BS 8436 with LSOH pliable aluminium screened cables shall have a full sized CPC; drawn into conduits; to cooker and oven	56	m	
C	3 core cable Silflex control cables; drawn into conduit; to heating	158	m	
D	1.5mm ² 201-4T&E insulated cable to IS 273 & BS 8436; drawn into conduits; to 2-port motorised valves	12	m	
<u>Switched socket outlets: as Drawings</u>				
E	32 amp rated capacity; double pole switch outlets with neon indicator engraved HOB/OVEN; fixing to backgrounds requiring plugging	4	nr	
F	HOB/OVEN low level connection unit; fixing to backgrounds requiring plugging	4	nr	
G	13 amp rated capacity; unswitched socket outlet; fixing to backgrounds requiring plugging	8	nr	
H	13 amp rated capacity; unswitched socket outlet; fixing to backgrounds requiring plugging associated with Frost Watch Heater in the attic space (Small Power Notes 6)	2	nr	
J	13 amp rated capacity; twin switched socket outlet; fixing to backgrounds requiring plugging	46	nr	
K	32 amp IP rated capacity; local isolator SP&N; fixing to backgrounds requiring plugging	4	nr	
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<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) ELECTRICAL INSTALLATIONS</u>				
<u>(Cont) POWER INSTALLATION</u>				
<u>(Cont) Switched socket outlets: as Drawings</u>				
A	20 amp rated capacity; double pole switched fuse spur; fixing to backgrounds requiring plugging	8	nr	
B	switched fused connection unit plus neon and flex; fixing to backgrounds requiring plugging	2	nr	
C	unswitched fused connection unit plus neon and flex; fixing to backgrounds requiring plugging	4	nr	
<u>Fittings and Accessories as Drawings</u>				
D	Quad TV/FM DAB/SATX2 quadplexer with EIR secondary & RJ45 outlet c/w 47mmdeep baqck box;fixing in position	2	nr	
E	EIR MASTER/Secondary telephone outlet point; fixing in position, include2no 25mm diameter conduits and 2no CT100 co-axialcables as per note 2 Small Power Notes	4	nr	
F	Room thermostats; fixing in position	2	nr	
G	CMEV Ventilation unit mounted in attic; fixing in position	2	nr	
H	2-Port Motorised Control Valve (Supplied by Mechanical Contractor); fixing in position	4	nr	
J	Air Source Heat Pump Unit (Supplied by Mechanical Contractor); fixing in position	4	nr	
K	Indoor Heat Pump Unit (Supplied by Mechanical Contractor); fixing in position	2	nr	
L	MVHR Fault Indicator Switch located at High Level; fixing in position	2	nr	
M	Electric Panel Heater - 2000W	2	nr	
FIRE ALARM INSTALLATION				

<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) ELECTRICAL INSTALLATIONS</u>				
<u>(Cont) FIRE ALARM INSTALLATION</u>				
<u>Conduit; heavy grade rigid PVC</u>				
A	20 fixing with saddles; plugging; concealed	100	m	
<u>PVC insulated and sheathed cables as Electrical Specification, colour coded for identification</u>				
B	fire resistant cables to IS3218;2013; drawn into conduit	100	m	
C	fire resistant cables to IS3218;2013; to timber	72	m	
<u>Detectors as Electrical Specification</u>				
D	Thermally Enhanced Optical Smoke Alarm (Mains/Battery Back-up-interconnected); fixing in position	6	nr	
E	Thermally Enhanced Ionisation Smoke Alarm (Mains/Battery Back-up-interconnected); fixing in position	4	nr	
F	Heat Alarm (Mains/Battery Back-up-interconnected); fixing in position	2	nr	
G	Fire Alarm Control Switch (Test, Locate & Silence)	2	nr	
H	Fire alarm base sounder beacon base; sound level adjustable up to 90 dB(A) combined smoke detector; fixing in position	2	nr	
J	Remote led indicator for smoke detector in the roof space; fixing in position	2	nr	
<u>Control Switch as Electrical Specification</u>				
K	Hard wired control switch; interconnected; fixing in position; Aico Ei1529RC or equivalent	2	nr	
L	Relay bases, main powdered; fixing in position; Aico Ei128R or equivalent	2	nr	

<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) ELECTRICAL INSTALLATIONS</u>				
<u>(Cont) FIRE ALARM INSTALLATION</u>				
<u>Fittings and Accessories as Drawings</u>				
A	Fire alarm panel c/w isolator - locakable in on and off position; fixing in position	2	nr	
B	smoke detector; fixing in position	4	nr	
C	heat detector; fixing in position	4	nr	
D	break glass unit (Fully resettable via key operation) - Ip67 units to be installed in wet areras; fixing in position	4	nr	
E	dashed symbol indicate items within the service void/roof space c/w remote LED indicator; fixing in position	2	nr	
F	interface unit - 230V units to installed; fixing in position	2	nr	
G	Fire alarm flashing beacon; fixing in position	4	nr	
H	Fire alarm flashing key switch; fixing in position	2	nr	
J	ELTU; fixing in position	4	nr	
DOOR ACCESS				
<u>Conduit; galvanised steel conduit</u>				
K	20 fixing with saddles; plugging; concealed	20	m	
<u>PVC insulated and sheathed cables as Electrical Specification colour coded for identification</u>				
L	'RD415 NHXMH' Fire Alarm Cable; drawn into conduits	20	m	
M	'RD415 NHXMH' Fire Alarm Cable; fixed to timber	20	m	
N	Wired Door Chime c/w Transformer	2	nr	

<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) ELECTRICAL INSTALLATIONS</u>				
<u>(Cont) DOOR ACCESS</u>				
<u>(Cont) PVC insulated and sheathed cables as Electrical Specification colour coded for identification</u>				
A	Non-Illuminated Wired Door Chime Push Button	2	nr	
HEATING CONTROL INSTALLATION				
<u>Contractors are referred to the Electrical Drawings and Specification</u>				
<u>Conduit; heavy grade rigid PVC</u>				
B	20 fixing with saddles; plugging; concealed	32	m	
<u>PVC insulated and sheathed cables as Electrical Specification colour coded for identification</u>				
C	600 volt XPLE insulated cable to IS 273 & BS 8436 with LSOH pliable aluminium screened cables shall have a full sized CPC; drawn into conduit	32	m	
<u>Fittings and Accessories as Drawings</u>				
D	Air source heat pump controller complete; fixing in position	2	nr	
E	24 volt programmable room stst installed within zone; fixing to backgrouds requiring plugging	10	nr	
F	Thermostats underfloor; fixing in position	2	nr	
G	24 volt telestatic heads; fixing in position	2	nr	
H	Actuator in 2-port value; fixing in position	2	nr	
J	Booster pump set; fixing in position	2	nr	
K	motorised control value; fixing in position	2	nr	
L	Pump relay Unit 240V-24V; fixing in position	2	nr	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				To Collection €

<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) ELECTRICAL INSTALLATIONS</u>				
<u>(Cont) HEATING CONTROL INSTALLATION</u>				
<u>(Cont) Fittings and Accessories as Drawings</u>				
A	Water temperature sensor; clamp included; fixing in position	2	nr	
B	Wiring centre connection unit	2	nr	
C	Wiring to thermostats	6	nr	
D	Wiring to pre-plumbed cylinder	2	nr	
E	Wiring to A.S.H.P controller	2	nr	
F	Wiring to heating manifold	2	nr	
G	External isolator; IP65 rotary switch pattern; fixing to backgrounds requiring plugging	2	nr	
<u>Cold water heater</u>				
H	0.5kW in attic space complete with integral wall mounting/floor standing bracket and electrical connection; clipping to pipework	2	nr	
TELEVISION INSTALLATION				
<u>Conduit; heavy grade rigid PVC</u>				
J	20 fixing with saddles; plugging; concealed	24	m	
<u>PVC insulated and sheathed cables as Electrical Specification colour coded for identification</u>				
K	Co-axial CT/WF 100 and WF125 cables; drawn into conduit	24	m	
L	13 amp rated capacity; double outlets with dual earth terminals and outboard rackets; fixing to backgrounds requiring plugging	2	nr	
M	TV outlet; fixing to backgrounds requiring plugging	2	nr	

<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) ELECTRICAL INSTALLATIONS</u>				
<u>(Cont) TELEVISION INSTALLATION</u>				
<u>(Cont) PVC insulated and sheathed cables as Electrical Specification colour coded for identification</u>				
A	V outlet; Quad TV/FM DAB/SATX2 Quadplexer; fixing to backgrounds requiring plugging	2	nr	
B	TV signal booster; TV amplifier; fixing to backgrounds requiring plugging	2	nr	
DATA AND TELEPHONE INSTALLATION				
<u>General</u>				
C	EIR installation costs including supply to buildings and all connection fees	2	nr	
<u>Conduit; heavy grade rigid PVC</u>				
D	20 fixing with saddles; plugging; concealed	48	m	
<u>PVC insulated and sheathed cables as Electrical Specification colour coded for identification</u>				
E	Cat 6E LSF cables; drawn into conduit	48	m	
<u>Fittings and Accessories as Drawings</u>				
F	Eircom external termination unit as detailed; Network Terminating Unit and cable sleeve include; fixing to backgrounds requiring plugging	2	nr	
G	Incoming service location; fixing to backgrounds requiring plugging	2	nr	
H	Telephone point; fixing to backgrounds requiring plugging	2	nr	
J	Dual box; fixing to backgrounds requiring plugging	2	nr	
<u>GENERAL ITEMS & SUNDRIES</u>				
ELECTRICAL SUB-CONTRACTOR PRELIMINARIES				
K	Amount for preliminaries	1	Item	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				To Collection €

<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) GENERAL ITEMS & SUNDRIES</u>				
(Cont) ELECTRICAL SUB-CONTRACTOR PRELIMINARIES				
A	Amount for validation and verification	1	Item	
B	Amount for attendances on ESB personnel and conforming to current ESB metering requirements.	1	Item	
Earthing and Bonding				
C	Supply and install, test and commission a complete earthing and bonding system in accordance with the Electric Supply Company requirements, BS 7430; the ECTI wiring regulations, this Specification and Drawings	1	Item	
Main Equipotential Bonding				
D	Tank and cold water pipes, 2nr	1	Item	
E	Heating flow and return pipes, 24nr	1	Item	
F	Hot water service pipes, 2nr	1	Item	
G	Distribution boards, 2nr	1	Item	
H	Eircom equipment (In addition to main equipotential bonding, a separate cream LSF/copper sheathed earth cable is required) lightning protection systems, 2nr	1	Item	
Supplementary Bonding				
J	Bonding of toilets; service pipes and the like; bonding of wash basins, associated hot and cold service pipes and the like; 2nr	1	Item	
K	Bonding of showers, associated hot and cold service pipes and the like; 2.nr	1	Item	
L	Bonding of sinks, associated hot and cold service pipes and the like; 2nr	1	Item	
Cable Fixings and Terminations				
M	Generally	1	Item	
Labelling				
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				To Collection €

<u>(69) ELECTRICAL INSTALLATION (Cont)</u>			
<u>(Cont) GENERAL ITEMS & SUNDRIES</u>			
(Cont) Labelling			
A	Generally	1	Item
Testing, Commissioning & Handover			
B	Generally; Electrical Specification refers 2 houses	1	Item
C	Install, the entire installation to comply with CIBSE Technical Memoranda TM 13, (Minimising Risk of Legionnaires Disease) 2 houses	1	Item
D	Install, test and commission Dry Riser installations with 12 bar water pressure test and equipment manufacturers recommendations 2 houses	1	Item
E	Pre-Commission - Generally 2 houses	1	Item
F	Commissioning - Generally 2 houses	1	Item
G	Implementation - Generally 2 houses	1	Item
H	Completion Certification - Generally 2 houses	1	Item
As fitted Drawings, Operating and Maintenance Manuals & Drawings			
J	Generally; Electrical Specification refers 2 houses	1	Item
Operating and Maintenance Manuals			
K	Amount for safety file & PSCS support to Main Contractor 2 houses	1	Item
L	Generally; Electrical Specification refers 2 houses	1	Item
Site Working Drawings			
M	Amount for co-ordination drawings	1	Item
N	Amount for builders work drawings 2 houses	1	Item
P	Generally; Electrical Specification refers 2 houses	1	Item

<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) GENERAL ITEMS & SUNDRIES</u>				
Demonstration on Electrical Systems to Client				
A	Generally; Electrical Specification refers 2 houses	1	Item	
B	Amount for client demonstrations at Practical Completion 2 houses	1	Item	
BER Test				
C	Generally; Electrical Specification refers; The Contractor is to have a regard to the air permeability tests as noted in the specification section, prior to the completion; forward copy of the test results to the architect refers 2 houses	1	Item	
<u>BUILDERS WORK IN CONNECTION WITH ELECTRICAL SERVICES</u>				
BUILDERS WORK (REFER TO SERVICES ENGINEERS DRAWINGS AND SCHEDULE)				
<u>Chases</u>				
D	50mm x 50mm nominal size; in blockwork wall; making good	360	m	
E	Fibre Reinforced airtight liquid paint; A40/125, to be applied to all internal blockwork walls at service penetrations and to seal all chases in masonry prior to installation of M&E Services; as per Architects specification and Drawing 2507/111	360	m	
<u>Forming or cutting holes for; cables or ducting; insert grounds/trimmers as necessary; fire proofing with fire pads, cable warps, batts and fire sealant; making good structure disturbed</u>				
F	not exceeding 55mm; in 100mm blockwork wall; 1 hour fire proofing	24	nr	
G	not exceeding 55mm; in 350mm cavity blockwork wall; 1 hour fire proofing	16	nr	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				To Collection €

<u>(69) ELECTRICAL INSTALLATION (Cont)</u>				
<u>(Cont) BUILDERS WORK IN CONNECTION WITH ELECTRICAL SERVICES</u>				
<u>(Cont) BUILDERS WORK (REFER TO SERVICES ENGINEERS DRAWINGS AND SCHEDULE)</u>				
<u>Marking positions of holes, mortices and chases</u>				
A	electrical services installation 2 houses	1	Item	
B	fire alarm installation 2 houses	1	Item	
C	telephone installation 2 houses	1	Item	
<u>Holes; mortices; chases and the like, cutting or forming for concealed conduit 50mm nominal size; providing grounds; fire proofing with fire pads, cable warps, batts and fire sealant; making good structure disturbed</u>				
D	lighting points; 1 hour fire proofing	80	nr	
E	socket points; 1 hour fire proofing	80	nr	
F	fitting, equipment and control gear points; 1 hour fire proofing	34	nr	
G	power points; 1 hour fire proofing	68	nr	
H	Fibre Reinforced airtight liquid paint; A40/125, to be applied to all internal blockwork walls at service penetrations and to seal all chases in masonry prior to installation of M&E Services	262	nr	
<u>Flush mounted white electric meter ESB standard with hinged door and meter box key included; to opening</u>				
J	508mm x 402mm x 155mm	2	nr	
K	Fibre Reinforced airtight liquid paint; A40/125, to be applied to all internal blockwork walls at service penetrations and to seal all chases in masonry prior to installation of M&E Services	2	nr	
<u>GENERAL</u>				

(69) ELECTRICAL INSTALLATION (Cont)(Cont) BUILDERS WORK IN CONNECTION WITH ELECTRICAL SERVICES(Cont) BUILDERS WORK (REFER TO SERVICES ENGINEERS DRAWINGS AND SCHEDULE)(Cont) GENERAL

A

Contractor is to include here for builders works associated with the Electrical Services. The Contractor is to liaise directly with their own Specialist Sub-Contractors with regards to the provision of all builders work required for the electrical installation; no claims will be entertained in respect of omissions or oversights on behalf of either party. Include backfilling services opes with 60 minute fire rated rockwool abalative coated fire batt or equivalent; proprietary fire sealant to both sides of opes to Architect's approval; making good existing structure on completion. 2 houses

1

Item

(69) ELECTRICAL INSTALLATION (Cont)

COLLECTION

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**(69) ELECTRICAL INSTALLATION
Carried to Summary**

<u>(74) SANITARY, HYGIENE FITTINGS</u>				
<u>FITTINGS</u>				
FITTINGS, EQUIPMENT AND FURNITURE				
WC; "Villeroy & Boch / Ideal Standard" close coupled WC pan including seat and cover or equivalent; include for all necessary fixings and accessories, fixed to floor and wall as required installed in accordance with Manufacturer's Recommendations; as per Architect's Drawings and Specification N13/100				
A	Fittings; sanitary; WC complete; SANDRINGHAM 21 Close-coupled open bowl 370x660x400 mm, Washdown in white glossy finish, horizontal outlet, E896301; SANDRINGHAM 21 Toilet cistern 385x190x390 mm in white glossy finish 6/4 L dual flush, E896601; MULTI SUITES - FINISHED PRODUCTS Sandwich seat 365x445x40 mm in white glossy finish, E131601; supply	2	nr	
B	Fittings; sanitary; WC complete; SANDRINGHAM 21 Close-coupled open bowl 370x660x400 mm, Washdown in white glossy finish, horizontal outlet, E896301; SANDRINGHAM 21 Toilet cistern 385x190x390 mm in white glossy finish 6/4 L dual flush, E896601; MULTI SUITES - FINISHED PRODUCTS Sandwich seat 365x445x40 mm in white glossy finish, E131701; fix	2	nr	
WC; "Villeroy & Boch / Ideal Standard" close coupled WC pan including seat and cover or equivalent; include for all necessary fixings and accessories, fixed to floor and wall as required installed in accordance with Manufacturer's Recommendations; as per Architect's Drawings and Specification N13/100				

<u>(74) SANITARY, HYGIENE FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) FITTINGS, EQUIPMENT AND FURNITURE</u>				
<u>(Cont) WC; "Villeroy & Boch / Ideal</u>				
<u>Standard" close coupled WC pan including</u>				
<u>seat and cover or equivalent; include for</u>				
<u>all necessary fixings and...</u>				
A	Fittings; sanitary; WC complete; SANDRINGHAM 21 Close-coupled open bowl 360 x 705 x 450 mm, Washdown in white glossy finish, horizontal outlet, E883401; SANDRINGHAM 21 Toilet cistern 385x240x430mm in white glossy finish 6/4 L dual flush, E898701; MULTI SUITES - FINISHED PRODUCTS Sandwich seat 365x445x40 mm in white glossy finish, E131601; supply	2	nr	
B	Fittings; sanitary; WC complete; SANDRINGHAM 21 Close-coupled open bowl 370x660x400 mm, Washdown in white glossy finish, horizontal outlet, E896301; SANDRINGHAM 21 Toilet cistern 385x190x390 mm in white glossy finish 6/4 L dual flush, E896601; MULTI SUITES - FINISHED PRODUCTS Sandwich seat 365x445x40 mm in white glossy finish, E131701; fix	2	nr	
<u>WHB Tap; "Villeroy & Boch / Ideal</u>				
<u>Standard" or equivalent; include for all</u>				
<u>necessary fixings and accessories, fixed</u>				
<u>to whb as required installed in</u>				
<u>accordance with Manufacturer's</u>				
<u>Recommendations; as per Architect's</u>				
<u>Drawings and Specification N13/100</u>				
C	Fittings; sanitary; WHB taps complete; SANDRINGHAM SL 21 Basin mixer 50x140x136 mm, 104 mm spout projection in chrome finish, 5l/min (3 bar), no waste EasyFix, EPD, SmartShine, B3307AA; supply	2	nr	
D	Fittings; sanitary; WHB taps complete; SANDRINGHAM SL 21 Basin mixer 50x140x136 mm, 104 mm spout projection in chrome finish, 5l/min (3 bar), no waste EasyFix, EPD, SmartShine, B3307AA; fix	2	nr	

<u>(74) SANITARY, HYGIENE FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) FITTINGS, EQUIPMENT AND FURNITURE</u>				
<u>WHB; "Villeroy & Boch / Ideal Standard"</u> <u>wash and basin and pedestal or equal</u> <u>approved; including all traps, wastes,</u> <u>plugs, fixings and accessories; fixed to</u> <u>floor and wall as required installed in</u> <u>accordance with Manufacturer's</u> <u>Recommendations; as per Architect's</u> <u>Drawings and Specifications</u>				
A	Fittings; sanitary; WHB complete, SANDRINGHAM 21 Basin 550x460x175 mm in white glossy finish, 1 tap hole, with overflow, E894901; SANDRINGHAM 21 Full pedestal 167x164x690 mm in white glossy finish, E897601; SANDRINGHAM SL 21 Basin mixer 50x140x136 mm, 104 mm spout projection in chrome finish, 5l/min (3 bar), no waste EasyFix, EPD, SmartShine, B3307AA; MULTI SUITES - FINISHED PRODUCTS Click-Clack waste in chrome finish, with overflow, S8803AA ; MULTI SUITES - SPARE PARTS, Hanger bolts in neutral finish, E015767; supply	2	nr	
B	Fittings; sanitary; WHB complete, SANDRINGHAM 21 Basin 550x460x175 mm in white glossy finish, 1 tap hole, with overflow, E894901; SANDRINGHAM 21 Full pedestal 167x164x690 mm in white glossy finish, E897601; SANDRINGHAM SL 21 Basin mixer 50x140x136 mm, 104 mm spout projection in chrome finish, 5l/min (3 bar), no waste EasyFix, EPD, SmartShine, B3307AA; MULTI SUITES - FINISHED PRODUCTS Click-Clack waste in chrome finish, with overflow, S8803AA ; MULTI SUITES - SPARE PARTS, Hanger bolts in neutral finish, E015767; fix	2	nr	
<u>WHB Tap; "Villeroy & Boch / Ideal</u> <u>Standard" or equivalent; include for all</u> <u>necessary fixings and accessories, fixed</u> <u>to whb as required installed in</u> <u>accordance with Manufacturer's</u> <u>Recommendations; as per Architect's</u> <u>Drawings and Specification N13/100</u>				

<u>(74) SANITARY, HYGIENE FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) FITTINGS, EQUIPMENT AND FURNITURE</u>				
<u>(Cont) WHB Tap; "Villeroy & Boch / Ideal Standard" or equivalent; include for all necessary fixings and accessories, fixed to whb as required installed...</u>				
A	Fittings; sanitary; WHB taps complete; SANDRINGHAM SL 21 Basin mixer 50x140x136 mm, 104 mm spout projection in chrome finish, 5l/min (3 bar), no waste EasyFix, EPD, SmartShine, B3307AA; supply	2	nr	
B	Fittings; sanitary; WHB taps complete; SANDRINGHAM SL 21 Basin mixer 50x140x136 mm, 104 mm spout projection in chrome finish, 5l/min (3 bar), no waste EasyFix, EPD, SmartShine, B3307AA; fix <u>Shower head; "Villeroy & Boch / Ideal Standard" or equivalent; including fixings and accessories; installed in accordance with Manufacturer's Recommendations; as per Architect's Drawings and Specifications</u>	2	nr	
C	Fittings; sanitary; Shower Mixer complete ; SANDRINGHAM SL 21 Rim mounted bath & shower mixer 231x149x70 mm, 112 mm spout projection in chrome finish, 15 l/min (3 bar) SmartShine, Ref B3310AA; IDEALRAIN Shower rail 103x76x644 mm in chrome finish, BE400AA; IDEALRAIN Shower hose 1750 mm in chrome finish Idealflex, Ref BF175AA; supply	2	nr	
D	Fittings; sanitary; Shower Mixer complete ; SANDRINGHAM SL 21 Rim mounted bath & shower mixer 231x149x70 mm, 112 mm spout projection in chrome finish, 15 l/min (3 bar) SmartShine, Ref B3310AA; IDEALRAIN Shower rail 103x76x644 mm in chrome finish, BE400AA; IDEALRAIN Shower hose 1750 mm in chrome finish Idealflex, Ref BF175AA; fix	2	nr	

<u>(74) SANITARY, HYGIENE FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) FITTINGS, EQUIPMENT AND FURNITURE</u>				
Shower/Bath Screen; "Villeroy & Boch / Ideal Standard" or equivalent; CONNECT 2 Bath screen 800x50x1410 mm in bright silver finish, Ref T9923EO; include for all necessary fixings, seals and accessories; installed in accordance with Manufacturer's Recommendations; as per Architect's Drawings and Specifications				
A	Fittings; sanitary; shower/bath screen; supply	2	nr	
B	Fittings; sanitary; shower/bath screen; fix	2	nr	
Bath; "Villeroy & Boch / Ideal Standard" or equivalent; Sandringham 21Regular Bath, 1690 x 690 x 540mm; ref E258401, in white glossy finish, 2 tap holes, with overflow, no waste, detergent resistant, light resistant, anti-slip; Multi Suites, Finished Handr Rail Products in chrome finish, Ref S8830AA; Bath front panel 1695x35x524 mm in white glossy finish Detergent resistant, Light resistant Re S101901; single lever bath mixer tap: 170cm x 75cm bath (150litre capacity) pop up waste overflow ; including all traps, wastes, plugs, fixings, side panels, slip resisting floor surface and accessories; fixed to floor and wall as required installed in accordance with Manufacturer's Recommendations; as per Architect's Drawings and Specifications				
C	Fittings; sanitary; Bath; supply	2	nr	
D	Fittings; sanitary; Bath; fix	2	nr	
Shower head; "Villeroy & Boch / Ideal Standard" or equivalent; including fixings and accessories; installed in accordance with Manufacturer's Recommendations; as per Architect's Drawings and Specifications				

<u>(74) SANITARY, HYGIENE FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) FITTINGS, EQUIPMENT AND FURNITURE</u>				
<u>(Cont) Shower head; "Villeroy & Boch / Ideal Standard" or equivalent; including fixings and accessories; installed in accordance with...</u>				
A	Fittings; sanitary; Shower Mixer complete ; CERATHERM T25 Exposed shower mixer 315x99x70 mm in chrome finish, 8 l/min (3 bar) Thermostatic function, Water & Energy savings, Safety stop, Smart Shine, ref A7205AA; supply	2	nr	
B	Fittings; sanitary; Shower Mixer complete ; CERATHERM T25 Exposed shower mixer 315x99x70 mm in chrome finish, 8 l/min (3 bar) Thermostatic function, Water & Energy savings, Safety stop, Smart Shine, ref A7205AA; fix	2	nr	
<u>Mirror; 600mm x 450mm with 4 number chrome head mirror screws including all fixings and brackets as necessary all as per Architects Drawings, Specification and installed as per Manufacturer's Recommendations</u>				
C	Fittings; sanitary; Mirror; supply	2	nr	
D	Fittings; sanitary; Mirror; fix	2	nr	
<u>Mirror; 500mm x 800mm with 4 number chrome head mirror screws including all fixings and brackets as necessary all as per Architects Drawings, Specification and installed as per Manufacturer's Recommendations</u>				
E	Fittings; sanitary; Mirror; supply	2	nr	
F	Fittings; sanitary; Mirror; fix	2	nr	
<u>Bathroom Fittings; including all fixings and brackets as necessary all as per Architects Drawings, Specification and installed as per Manufacturer's Recommendations</u>				
G	Fittings; sanitary; Towel rail; 450mm fixed to masonry; supply	4	nr	

<u>(74) SANITARY, HYGIENE FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) FITTINGS, EQUIPMENT AND FURNITURE</u>				
<u>(Cont) Bathroom Fittings; including all</u>				
<u>fixings and brackets as necessary all as</u>				
<u>per Architects Drawings, Specification</u>				
<u>and installed as per...</u>				
A	Fittings; sanitary; Ceramic soap dish with bracket and holder; 450mm fixed to masonry; fix	4	nr	
B	Fittings; sanitary; Toilet roll holder; 450mm fixed to masonry; fix	4	nr	
<u>Bathroom Fittings; including all fixings and brackets as necessary all as per Architects Drawings, Specification and installed as per Manufacturer's Recommendations</u>				
C	Rail 1 - CONTOUR 21 107x800x848 mm in white finish DOC M compliant, Core elements from Aluminum; S6360AC; supply	6	nr	
D	Rail 1 - CONTOUR 21 107x800x848 mm in white finish DOC M compliant, Core elements from Aluminum; S6360AC; fit	6	nr	
E	Rail 2 horizontal - CONTOUR 21 Grab rail 600 mm in white finish; S0853AC; supply	2	nr	
F	Rail 2 horizontal - CONTOUR 21 Grab rail 600 mm in white finish; S0853AC; fit	2	nr	
G	Rail 3 vertical - CONTOUR 21 Grab rail 600 mm in white finish; S0853AC; supply	10	nr	
H	Rail 3 vertical - CONTOUR 21 Grab rail 600 mm in white finish; S0853AC; fit	10	nr	
J	Rail 4 horizontal - CONTOUR 21 Grab rail 485 mm in white finish; S0854AC; supply	4	nr	
K	Rail 4 horizontal - CONTOUR 21 Grab rail 485 mm in white finish; S0854AC; fit	4	nr	
BWIC WITH SANITARY WARE				
<u>The Contractor is to provide the following builders work in connection with sanitary ware</u>				
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 To Collection €				
6 No. Dwelling Units for Donegal CoCo 15/7				
at An Glasan, (phase 2), Kilcar				

<u>(74) SANITARY, HYGIENE FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) BWIC WITH SANITARY WARE</u>				
<u>(Cont) The Contractor is to provide the following builders work in connection with sanitary ware</u>				
Sundries				
A	all necessary temporary fixing of sanitary fixings in position and the removal and re-fixing to suit other trades. Fixing rates to include for fixing to blockwork, concrete, studs or purpose made cabinets	1	Item	
B	co-ordinating with sub-contractor for all instances where the connection of supplies or wastes and the fixing of the fittings must process as a single operation	1	Item	
C	sealing junction of sanitary fittings and background with mastic sealant	1	Item	
D	fixing grounds to support sanitary fittings as required	1	Item	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6				
6 No. Dwelling Units for Donegal CoCo				
at An Glasan, (phase 2), Kilcar				
To Collection €				

<u>(74) SANITARY, HYGIENE FITTINGS (Cont)</u> COLLECTION Page No. 15/1 Page No. 15/2 Page No. 15/3 Page No. 15/4 Page No. 15/5 Page No. 15/6 Page No. 15/7 Page No. 15/8 (74) SANITARY, HYGIENE FITTINGS Carried to Summary				
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				

<u>(79) BUILDING FITTINGS</u>				
<u>FITTINGS</u>				
MANIFOLD CUPBOARDS				
<u>Manifold cupboard; formica veneered plywood backs, front, sides, base and top</u>				
A	800 x 350 x 750; lockable doors; fixing to blockwork backgrounds	2	nr	
NUMBER PLATES				
<u>Special purpose letter box Spec, number plate to be 2mm brushed stainless steel, grade 304, black acrylic numbers with stainless steel fixings; architects drawing 2507/149</u>				
B	Supply and install number plate to each house/apartment type; 150 x 100mm	2	nr	
LETTER BOXES				
<u>Special purpose letter box Spec (P21.300); architects drawing 2507/149</u>				
C	Supply and install letter box to each house/apartment type; wall mounted letter box to be high density polypropylene or equivalent, weather resistant top flap and drop down opening, 2 no keys to be supplied, fixings to be stainless steel; 410 x 260mm	2	nr	
KITCHEN UNITS;				
<u>Equipment - Domestic kitchen Arch Spec (N10-150-780) in accordance with the Architects drawing 2507 /28 - Semi-Detached DWelling Units 5</u>				

<u>(79) BUILDING FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) KITCHEN UNITS;</u>				
<u>(Cont) Equipment - Domestic kitchen Arch</u>				
<u>Spec (N10-150-780) in accordance with the</u>				
<u>Architects drawing 2507 /28 -</u>				
<u>Semi-Detached DWelling...</u>				
Kitchen; Base and Wall Units; to be deisgn to BS 6222 and as per Architects Specification N10/150; contractor to submit kitchen layouts, samples and colours for architects approval including post formed plastic laminate counter top to selected colour or equal approved; comprising of 4 Nr high level cupboards with cooker extract; 1Nr 600mm base unit (Drawers), 6Nr 600mm base units, 2Nr openings for appliances; including cutlery divider, including stainless steel sink unit; including all required ironmongery; including 100mm plinth under unit to accomodate services; including frame, sub-frame, fixings, plywood as required; all timber to be moisture resistant; stainless steel sink with single bowl, drainer, mixer tap and plug; including mastic pointing between wall finish and framing; complete as per Architects Drawing 2507/28 and Specification N10/150 <i>Elevation A, B, C, D - Flat</i>				
A	SBU, 600mm wide x 600mm deep x 900mm high	2	nr	
B	<u>Extra over</u> last for gable ends low level 600 x 900mm high	1	nr	
C	CBU, 800mm / 300mm wide x 600mm deep x 900mm high	2	nr	
D	SBDU, 600mm wide x 600mm deep x 900mm high	1	nr	
E	STU, 600mm wide x 600mm deep x 2100mm high	1	nr	
F	<u>Extra over</u> last for gable ends low level 600 x 2100mm high	1	nr	
G	STU, 600mm wide x 600mm deep x 2400mm high	3	nr	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				
To Collection €				

<u>(79) BUILDING FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) KITCHEN UNITS;</u>				
(Cont) Equipment - Domestic kitchen Arch Spec (N10-150-780) in accordance with the Architects drawing 2507 /28 - Semi-Detached DWelling...				
(Cont) Kitchen; Base and Wall Units; to be deisgn to BS 6222 and as per Architects Specification N10/150; contractor to submit kitchen...				
A	SWU, 600mm wide x 300mm deep x 750mm high	1	nr	
B	DWU, 1200mm wide x 300mm deep x 750mm high	2	nr	
C	CWU, 600mm / 300mm wide x 300mm deep x 750mm high	1	nr	
D	Cooker hood extract with 600mm wide x 600mm deep;	1	nr	
E	Washing machine under worktop with 600mm wide x 600mm deep x 900mm high	1	nr	
F	Tumble Dryer under worktop with 600mm wide x 600mm deep x 900mm high	1	nr	
G	Cooker space 600mm wide x 600mm deep x 900mm high	1	nr	
H	D/W Dishwasher space 600mm wide x 600mm deep x 900mm high	1	nr	
J	Fridge space 600mm wide x 600mm deep x 2110mm high	1	nr	
K	Stainless steel sink as M&E Engineers Schedule; Franke Ascona ASX 651 1.5 sink with reversible bowl, silk steel). Single-lever basin mixer with click cartridge, waste, with flow restricted to 5 litres of water per minute at 3 bar pressure. EcoFlow 5 litre/min flow regulator aerator outlet	1	nr	
<i>Worktop in accordance with the Architects specification</i>				
L	600mm wide x 3200mm long	1	nr	
M	<u>Extra over</u> last for cutting opening for sink	1	nr	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				
To Collection €				

<u>(79) BUILDING FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) KITCHEN UNITS;</u>				
<u>(Cont) Equipment - Domestic kitchen Arch Spec (N10-150-780) in accordance with the Architects drawing 2507 /28 - Semi-Detached DWelling...</u>				
<u>(Cont) Kitchen; Base and Wall Units; to be deisgn to BS 6222 and as per Architects Specification N10/150; contractor to submit kitchen...</u>				
A	600mm wide x 2700mm long	1	nr	
B	600mm wide x 2800mm long	1	nr	
<u>Equipment - Domestic kitchen Arch Spec (N10-150-780) in accordance with the Architects drawing 2507 /28 - Semi-Detached DWelling Units 6</u>				
Kitchen; Base and Wall Units; to be deisgn to BS 6222 and as per Architects Specification N10/150; contractor to submit kitchen layouts, samples and colours for architects approval including post formed plastic laminate counter top to selected colour or equal approved; comprising of 4 Nr high level cupboards with cooker extract; 1Nr 600mm base unit (Drawers), 6Nr 600mm base units, 2Nr openings for appliances; including cutlery divider, including stainless steel sink unit; including all required ironmongery; including 100mm plinth under unit to accomodate services; including frame, sub-frame, fixings, plywood as required; all timber to be moisture resistant; stainless steel sink with single bowl, drainer, mixer tap and plug; including mastic pointing between wall finish and framing; complete as per Architects Drawing 2507/28 and Specification N10/150				
<i>Elevation A, B, C, D - Flat</i>				
C	SBU, 600mm wide x 600mm deep x 900mm high	2	nr	
D	<u>Extra over</u> last for gable ends low level 600 x 900mm high	1	nr	
E	CBU, 800mm / 300mm wide x 600mm deep x 900mm high	2	nr	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar			To Collection €	

<u>(79) BUILDING FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) KITCHEN UNITS;</u>				
(Cont) Equipment - Domestic kitchen Arch				
Spec (N10-150-780) in accordance with the				
Architects drawing 2507 /28 -				
Semi-Detached DWelling...				
(Cont) Kitchen; Base and Wall Units; to				
be deisgn to BS 6222 and as per				
Architects Specification N10/150;				
contractor to submit kitchen...				
A	SBDU, 600mm wide x 600mm deep x 900mm high	1	nr	
B	STU, 600mm wide x 600mm deep x 2100mm high	1	nr	
C	Extra over last for gable ends low level 600 x 2100mm high	1	nr	
D	STU, 600mm wide x 600mm deep x 2400mm high	3	nr	
E	SWU, 600mm wide x 300mm deep x 750mm high	1	nr	
F	DWU, 1200mm wide x 300mm deep x 750mm high	2	nr	
G	CWU, 600mm / 300mm wide x 300mm deep x 750mm high	1	nr	
H	Cooker hood extract with 600mm wide x 600mm deep;	1	nr	
J	Washing machine under worktop with 600mm wide x 600mm deep x 900mm high	1	nr	
K	Tumble Dryer under worktop with 600mm wide x 600mm deep x 900mm high	1	nr	
L	Cooker space 600mm wide x 600mm deep x 900mm high	1	nr	
M	D/W Dishwasher space 600mm wide x 600mm deep x 900mm high	1	nr	
N	Fridge space 600mm wide x 600mm deep x 2110mm high	1	nr	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 To Collection €				
6 No. Dwelling Units for Donegal CoCo 16/5				
at An Glasan, (phase 2), Kilcar				

<u>(79) BUILDING FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) KITCHEN UNITS;</u>				
<u>(Cont) Equipment - Domestic kitchen Arch</u>				
<u>Spec (N10-150-780) in accordance with the</u>				
<u>Architects drawing 2507 /28 -</u>				
<u>Semi-Detached DWelling...</u>				
<u>(Cont) Kitchen; Base and Wall Units; to</u>				
<u>be deisgn to BS 6222 and as per</u>				
<u>Architects Specification N10/150;</u>				
<u>contractor to submit kitchen...</u>				
A	Stainless steel sink as M&E Engineers Schedule; Franke Ascona ASX 651 1.5 sink with reversible bowl, silk steel). Single-lever basin mixer with click cartridge, waste, with flow restricted to 5 litres of water per minute at 3 bar pressure. EcoFlow 5 litre/min flow regulator aerator outlet	1	nr	
<i>Worktop in accordance with the Architects specification</i>				
B	600mm wide x 3200mm long	1	nr	
C	<u>Extra over</u> last for cutting opening for sink	1	nr	
D	600mm wide x 2700mm long	1	nr	
E	600mm wide x 2800mm long	2	nr	
BUILT IN STORAGE				
<u>Store shelving;1.8 metre wide, Storage area to be provided with deep slatted shelving in 75 x 19 mm red deal slats on red deal supports and brackets, painted finish. - Stores to Shelves to be provided at five levels with highest shelf at 1.8 meters above floor level and tall open storage for ironing board, floor brush etc; fixed back to partitions/ blockwork; including all grounds as required; including all fittings and fixtures; all as per Architect's Specification N10/152</u>				
F	Furniture, furnishings; shelving; Shelving (PROVISIONAL)	1	nr	

<u>(79) BUILDING FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) BUILT IN STORAGE</u>				
Store shelving; 1.32 metre wide, Storage area to be provided with deep slatted shelving in 75 x 19 mm red deal slats on red deal supports and brackets, painted finish. - Stores to Shelves to be provided at five levels with highest shelf at 1.8 meters above floor level and tall open storage for ironing board, floor brush etc; fixed back to partitions/ blockwork; including all grounds as required; including all fittings and fixtures; all as per Architect's Specification N10/152				
A	Furniture, furnishings; shelving; Shelving (PROVISIONAL)	1	nr	
<u>WARDROBES</u>				
FITTED BUILT IN WARDROBE (As indicated on drawings); Manufacturer: to be approved detailed wardrobe layouts, samples, and colours to be supplied for approval before placing order; Full length floor to ceiling wardrobe units; All carcasses and panel sheet material to be manufactured from high density, fine surface 18mm MFC core board to EN 312. Each wardrobe should contain a 450 mm width of 6 shelves and two 30 mm deep proprietary chromed steel hanging rails and brackets; Doors to be from 25mm MDF painted finish with dampened action, hold open hinges, three per leaf; Wardrobe; contractor to submit layouts, samples and colours for architects approval as per Architects Specification N10/151; All carcasses and panel sheet material to be manufactured from high density, fine surface 18mm MFC core board to EN 312; all as per Architect's specification and Wardrobe Details drawing				
B	Furniture, furnishings; wardrobe; overall size 1200mm long x 2500mm high x 600mm deep; wardrobe to Bedroom 1	2	nr	
C	Furniture, furnishings; wardrobe; overall size 1800mm long x 2500mm high x 600mm deep; wardrobe to Bedroom 2	2	nr	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				To Collection €

<u>(79) BUILDING FITTINGS (Cont)</u>				
<u>(Cont) FITTINGS</u>				
<u>(Cont) WARDROBES</u>				
<u>(Cont) FITTED BUILT IN WARDROBE (As indicated on drawings); Manufacturer: to be approved detailed wardrobe layouts, samples, and colours to be supplied...</u>				
A	Furniture, furnishings; wardrobe; overall size 1800mm long x 2500mm high x 600mm deep; wardrobe to Bedroom 3	2	nr	
B	Furniture, furnishings; wardrobe; overall size 1000mm long x 2500mm high x 600mm deep; wardrobe to Bedroom 4	1	nr	
Sub Bill 3 - Building Works Semi-Detached Units 5 & 6 6 No. Dwelling Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				
To Collection €				

<u>(79) BUILDING FITTINGS (Cont)</u> COLLECTION Page No. 16/1 Page No. 16/2 Page No. 16/3 Page No. 16/4 Page No. 16/5 Page No. 16/6 Page No. 16/7 Page No. 16/8 (79) BUILDING FITTINGS Carried to Summary				
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SUNDRIES

SUNDRIES

The Contractor is to include for any other items necessary to complete the works

A

B

C

Sub Bill 3 - Building Works Semi-Detached Units 5 & 6	To Collection €
6 No. Dwelling Units for Donegal CoCo	17/1
at An Glasan, (phase 2), Kilcar	

SUNDRIES (Cont)

COLLECTION

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SUNDRIES

Carried to Summary

SUMMARY	Page No.			
(19) SUBSTRUCTURE	1/13			
(21) EXTERNAL WALLS	2/10			
(22) INTERNAL WALLS, PARTITIONS	3/3			
(27) ROOF STRUCTURE	4/6			
(28) FRAME	5/4			
(31) EXTERNAL WALL COMPLETIONS	6/8			
(32) INTERNAL WALL COMPLETIONS	7/4			
(41) WALL FINISHES EXTERNALLY	8/3			
(42) WALL FINISHES INTERNALLY	9/4			
(43) FLOOR FINISHES	10/5			
(45) CEILING FINISHES	11/7			
(47) ROOF FINISHES	12/9			
(59) MECHANICAL INSTALLATION	13/16			
(69) ELECTRICAL INSTALLATION	14/17			
(74) SANITARY, HYGIENE FITTINGS	15/9			
(79) BUILDING FITTINGS	16/9			
SUNDRIES	17/2			
TOTAL AMOUNT TO GENERAL SUMMARY PAGE				

BILL NO. 4

EXTERNAL WORKS

<u>(10) SITE PREPARATIONS</u>				
<u>EXCAVATION AND EARTHWORK</u>				
EXCAVATION				
<u>Reduce levels</u>				
A	reduce level dig; maximum depth not exceeding 2.00m	30	m3	
B	Extra on Item for; being next to existing buildings / boundary walls	1	Item	
<u>Disposal</u>				
C	Surface water; keeping the surface of the site free of surface water	1	item	
D	Ground water; keeping the excavations free of ground water	1	item	
E	excavated material ff site	30	m3	
Sub Bill 4 - External Works				
6 No. Housing Units for Donegal CoCo				
at An Glasan, (phase 2), Kilcar				
To Collection €				

(10) SITE PREPARATIONS (Cont)

COLLECTION

Page No. 1/1

(10) SITE PREPARATIONS
Carried to Summary

<u>(20) SITE STRUCTURES</u>				
<u>Composite Item: Garden Sheds</u>				
Steel Shed; Prefabricated polyester powder coated steel shed; "KP Engineering" or equivalent and approved; Insulated non drip 32/1000 box profile sheeting, with 2Bd double foil bubble insulation, fixed to 40x40mm x 2.5mm box section galvanised frame, base 50x50mm galvanised angle iron, pressed metal ridge capping, pressed metal gable flashing, pressed metal drip flashing to the head of the door, single door 650mm wide x 1800mm high, with 3 no. heavy duty galvanised door hinges and galvanised lockable door bolt, pressed metal corner flashings, pressed metal drip flashing to plinth; Colour goosewing grey; 25mm WBP plywood flooring on 100 x 44mm C16 pressure treated SW joists at 400mm centres; hold down fixing points bolted to concrete slab in 4 nr locations; complete as per Architects Drawing 2507/152 and Specification Q50/215				
A	Dimensions, 1800mm wide x 2500mm long x 1965mm/2393mm high; Prefabricated Storage Shed	6	nr	
Sub Bill 4 - External Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				
2/1				To Collection €

(20) SITE STRUCTURES (Cont)

COLLECTION

Page No. 2/1

(20) SITE STRUCTURES
Carried to Summary

<u>(30) SITE ENCLOSURES</u>				
<u>BOUNDARY TREATMENT 1:</u>				
Stepped Railing on Retaining Wall; include all additional works for forming steps and slopes in retaining wall and metal railing				
<u>EXCAVATION & EARTHWORK</u>				
EXCAVATION				
<i>Excavating trenches to receive foundations; starting from reduced level</i>				
A	foundation trenches; depth not exceeding 1.00m	18	m3	
<i>Disposal</i>				
B	excavated material off site	18	m3	
<i>Backfilling with Hardcore stone sub-base; depositing and compacting in layers 150mm maximum thickness; including rolling and preparing formation level to falls; all in accordance with Engineer's Drawings and Specification and installed to Manufacturers Recommendations</i>				
C	Filling; to excavations; average thickness not exceeding 250mm	17	m3	
<i>Blinding filling with sand; 50mm thick; compacted; laid onto surface of hardcore; to beds</i>				
D	Surface treatments; blinding filling; sand	30	m2	
<u>CONCRETE WORK</u>				
IN-SITU CONCRETE				
<i>PLAIN CONCRETE TO BS8500 & IS EN 206, GRADE 20</i>				
<i>Blinding</i>				
E	generally; poured on or against earth or unblinded hardcore	2	m3	

<u>(30) SITE ENCLOSURES (Cont)</u>				
<u>(Cont) BOUNDARY TREATMENT 1:</u>				
(Cont) Stepped Railing on Retaining Wall; include all additional works for forming steps and slopes in retaining wall and metal...				
<u>(Cont) CONCRETE WORK</u>				
(Cont) IN-SITU CONCRETE				
<i>Reinforced in-situ concrete; Grade C30/37 ; vibrated; all as per Engineers Drawings and Specification and installed to Manufacturers Recommendations</i>				
<i>Foundations to Retaining Walls</i>				
A	generally	9	m3	
<i>Retaining Walls</i>				
B	generally	9	m3	
REINFORCEMENT				
<i>Reinforcement bars; Hot rolled plain round mild steel; all in compliance with BS EN 10138 and BS 4449:2005 and 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 bending schedules, drawings and Specification Section 5:</i>				
<i>Bars: Links</i>				
C	less than or equal to 12mm diameter; in foundations - Bars	0.44	Tn	
D	less than or equal to 12mm diameter; in walls- Bars	0.25	Tn	
FORMWORK				
<i>Formwork; fair face finish to concrete; Class F1 finish; rough finish to comply with EN 1992-1-1:2004; all in strict accordance with the Engineers Specification Section 5</i>				
<i>Sides of foundations; foundations</i>				
Sub Bill 4 - External Works		To Collection €		
6 No. Housing Units for Donegal CoCo		3/2		
at An Glasan, (phase 2), Kilcar				

<u>(30) SITE ENCLOSURES (Cont)</u>				
<u>(Cont) BOUNDARY TREATMENT 1:</u>				
<u>(Cont) Stepped Railing on Retaining Wall; include all additional works for forming steps and slopes in retaining wall and metal...</u>				
<u>(Cont) CONCRETE WORK</u>				
<u>(Cont) FORMWORK</u>				
A	250mm - 500mm	58	m	
<i>Kickers to retaining wall;</i>				
B	generally	27	m	
C	<u>extra over</u> for all additional labour and material at internal corners	3	nr	
<i>Retaining walls;</i>				
D	vertical; height not exceeding 4.00metres; both sides	67	m2	
E	<u>extra over</u> all additional labour and material in work to form internal corners	3	nr	
<u>FINISHINGS</u>				
Pre-coloured render system with silicone resin based render finish; Wood float finish render; 26mm thick; scud, render, float and wood float finish in cement, lime and sand mortor; undercoat 16mm thick (1:1:6); wood float finish coat 10mm thick (1:1:4.5) fixed back to concrete / blockwork wall background; including all preparation works required; including all stainless steel stop beads, angle bead, expansion beads, overhead drip beads, bell cast projections, etc, as required; installed to Manufacturer's Instructions and all in accordance with the Architect's Drawings and Specification M20/160				
F	Walls; exceeding 300mm wide (walls)	65	m2	
<u>METAL WORK</u>				
Galvanised Metal Railings				

<u>(30) SITE ENCLOSURES (Cont)</u>				
<u>(Cont) BOUNDARY TREATMENT 1:</u>				
(Cont) Stepped Railing on Retaining Wall; include all additional works for forming steps and slopes in retaining wall and metal...				
<u>(Cont) METAL WORK</u>				
(Cont) Galvanised Metal Railings				
Polyester powder coated selected Arch Spec (L30.280) colour from standard RAL colour 7016, mild steel 100mm x 12mm flat rail to top/bottom/end/edge rails framework rails, infilled with 75mm x 12mm flat vertical balustrades at 100mm centres, 1325mm high set 1125mm above finished ground level; fixed to top of retaining wall with flat steel upright as detail; all framework to be in accordance with Guarding requirements in TGB Part K (Minimum height 1350mm); all as detailed on architects drawing 2507/07				
A	Sloping / Stepped Railing; fixed to top of Retaining Wall; all as detailed on architects drawings 2507/02 & 2507/07, Detail BT-1 and specification, and Engineers Drawings 1966/T01/111, Detail 2(A)	27	m	
B	<u>Extra over</u> all additional labour and material in working to slope	1	Item	
Horizontal Railing on Base				
<u>EXCAVATION & EARTHWORK</u>				
EXCAVATION				
Excavating trenches to receive foundations; starting from reduced level				
C	foundation trenches; depth not exceeding 1.00m	17	m3	
<i>Disposal</i>				
D	excavated material off site	17	m3	
Sub Bill 4 - External Works		To Collection €		
6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		3/4		

<u>(30) SITE ENCLOSURES (Cont)</u>				
<u>(Cont) BOUNDARY TREATMENT 1:</u>				
<u>(Cont) Horizontal Railing on Base</u>				
<u>(Cont) EXCAVATION & EARTHWORK</u>				
<u>(Cont) EXCAVATION</u>				
<i>Backfilling with Hardcore stone sub-base; depositing and compacting in layers 150mm maximum thickness; including rolling and preparing formation level to falls; all in accordance with Engineer's Drawings and Specification and installed to Manufacturers Recommendations</i>				
A	Filling; to excavations; average thickness not exceeding 250mm	6	m3	
<i>Blinding filling with sand; 50mm thick; compacted; laid onto surface of hardcore; to beds</i>				
B	Surface treatments; blinding filling; sand	27	m2	
<u>CONCRETE WORK</u>				
IN-SITU CONCRETE				
<i>PLAIN CONCRETE TO BS8500 & IS EN 206, GRADE 20</i>				
<i>Blinding</i>				
C	generally; poured on or against earth or unblinded hardcore	2	m3	
<i>Reinforced in-situ concrete; Grade C30/37; vibrated; all as per Engineers Drawings and Specification and installed to Manufacturers Recommendations</i>				
D	Foundations; reinforced (foundation)	11	m3	
REINFORCEMENT				
<i>Reinforcement mesh; A393 top and bottom face of various diameter; deformed high yield steel; UBM03-H12-200-U bars; spacers and chairs at the discretion of the contractor; all as per Engineers Drawings and Specification and installed to Manufacturers Recommendations</i>				
E	Fabric; horizontal	27	m2	
Sub Bill 4 - External Works		To Collection €		
6 No. Housing Units for Donegal CoCo		3/5		
at An Glasan, (phase 2), Kilcar				

<u>(30) SITE ENCLOSURES (Cont)</u>				
<u>(Cont) BOUNDARY TREATMENT 1:</u>				
<u>(Cont) Horizontal Railing on Base</u>				
<u>(Cont) CONCRETE WORK</u>				
FORMWORK				
<i>Formwork; generally; as per Engineers specifications</i>				
A	Sides of foundations; 250mm - 500mm high (strip footings)	102	m	
<u>METAL WORK</u>				
Galvanised Metal Railings				
<i>Polyester powder coated selected Arch Spec (L30.280) colour from standard RAL colour 7016, mild steel 100mm x 12mm flat rail to top/bottom/end/edge rails framework rails, infilled with 75mm x 12mm flat vertical balustrades at 100mm centres, 1325mm high set 1125mm above finished ground level; fixed to foundation slab with flat steel upright as detail; all framework to be in accordance with Guarding requirements in TGB Part K (Minimum height 1350mm); all as detailed on architects drawing 2507/07</i>				
B	Horizontal Railing; fixed to foundation; all as detailed on architects drawings 2507/02 & 2507/07, Detail BT-1 and specification, and Engineers Drawings 1966/T01/111, Detail 2(B)	45	m	
<u>BOUNDARY TREATMENT 2:</u>				
<u>EXCAVATION & EARTHWORK</u>				
<u>EXCAVATION</u>				
<i>Excavating trenches to receive foundations; starting from reduced level</i>				
C	foundation trenches; depth not exceeding 1.00m	38	m3	
<i>Disposal</i>				
D	excavated material off site	38	m3	
Sub Bill 4 - External Works		To Collection €		
6 No. Housing Units for Donegal CoCo		3/6		
at An Glasan, (phase 2), Kilcar				

<u>(30) SITE ENCLOSURES (Cont)</u>				
<u>(Cont) BOUNDARY TREATMENT 2:</u>				
<u>(Cont) EXCAVATION & EARTHWORK</u>				
<u>(Cont) EXCAVATION</u>				
Backfilling with Hardcore stone sub-base; depositing and compacting in layers 150mm maximum thickness; including rolling and preparing formation level to falls; all in accordance with Engineer's Drawings and Specification and installed to Manufacturers Recommendations				
A	Filling; to make up levels; average thickness not exceeding 250mm	5	m3	
B	Filling; to excavations; average thickness not exceeding 250mm	25	m3	
C	extra over for supplying and laying terram or similar geotextile to face of excavation prior to backfilling	49	m2	
Blinding filling with sand; 50mm thick; compacted; laid onto surface of hardcore; to beds				
D	Surface treatments; blinding filling; sand	38	m2	
Drainage supply and install 150mm perforated land drain to rear of wall, connected into storm drainage system; surrounded and bedded with clean free draining stone				
E	50mm perforated land drain	32	m	
CONCRETE WORK				
<u>IN-SITU CONCRETE</u>				
PLAIN CONCRETE TO BS8500 & IS EN 206, GRADE 20				
<i>Blinding</i>				
F	generally; poured on or against earth or unblinded hardcore	2	m3	
Reinforced in-situ concrete; Grade C30/37; vibrated; all as per Engineers Drawings and Specification and installed to Manufacturers Recommendations				
Sub Bill 4 - External Works		To Collection €		
6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		3/7		

<u>(30) SITE ENCLOSURES (Cont)</u>				
<u>(Cont) BOUNDARY TREATMENT 2:</u>				
<u>(Cont) CONCRETE WORK</u>				
<u>(Cont) IN-SITU CONCRETE</u>				
(Cont) Reinforced in-situ concrete; Grade C30/37; vibrated; all as per Engineers Drawings and Specification and installed to Manufacturers...				
A	Foundations; reinforced (foundation)	12	m3	
B	<u>extra over</u> for all additional labour and material in setting in and working around 125 x 125mm precast concrete posts at 1800mm centres (precast concrete posts measured elsewhere)	1	item	
<u>REINFORCEMENT</u>				
Reinforcement mesh; A393 top and bottom face of various diameter; deformed high yield steel; UBM03-H12-200-U bars; spacers and chairs at the discretion of the contractor; all as per Engineers Drawings and Specification and installed to Manufacturers Recommendations				
C	Fabric; horizontal	76	m2	
Reinforcement bars; Hot rolled plain round mild steel; all in compliance with BS EN 10138 and BS 4449:2005 and 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 bending schedules, drawings and Specification Section 5:				
<i>Bars: Links</i>				
D	less than or equal to 12mm diameter; in foundations - U Bars	0.23	Tn	
<u>FORMWORK</u>				
Formwork; generally; as per Engineers specifications				
E	Sides of foundations; 250mm - 500mm high (strip footings)	57	m	
Sub Bill 4 - External Works		To Collection €		
6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		3/8		

<u>(30) SITE ENCLOSURES (Cont)</u>				
<u>(Cont) BOUNDARY TREATMENT 2:</u>				
BRICKWORK AND BLOCKWORK				
<u>BLOCKWORK</u>				
215mm Hollow Block Wall; including filling and compacting all voids in block wall with concrete C25N Grade; all as per Engineers specification				
Walls; 215mm thick	28	m2		
<u>extra over</u> for all additional labour and material in working around 125 x 125mm precast concrete posts at 1800mm centres (precast concrete posts measured elsewhere)	1	item		
FENCING				
<u>Close Boarded Timber fence; hardwood pressure treated with three coats Sadoline, external finish; comprising 125 x 125mm precast concrete posts at 1800mm centres, fixed into pockets in hollow block retaining wall 600mm below ground level (include all additional labour and material in working around hollow block wall); encased in concrete 200 x 200 x 600mm deep; 75 x 44mm horizontal splayed trimmers bolted to posts in three rows, 125 x 20mm square top hit and miss vertical boards both sides; fence boards finished with 3 coats preservative stain finish to match adjacent gates; All as per architects drawings 2508/02 & 2508/06 & 2508/07 and Architects Specification Q40/332 and Engineers Drawings 1966/T1/110 & 111</u>				
2.0 metres height	27	m		
<u>extra over</u> for all additional labour and material at internal corners	1	nr		
<u>extra over</u> for all additional labour and material at external corners	1	nr		
<u>BOUNDARY TREATMENT 3:</u>				
Retaining wall with close boarded fence				
Sub Bill 4 - External Works		To Collection €		
6 No. Housing Units for Donegal CoCo		3/9		
at An Glasan, (phase 2), Kilcar				

<u>(30) SITE ENCLOSURES (Cont)</u>				
<u>(Cont) BOUNDARY TREATMENT 3:</u>				
(Cont) Retaining wall with close boarded fence				
<u>Excavation</u>				
Excavating foundation trenches; starting from reduced level				
A	not exceeding 1 m deep	37	m3	
B	<u>extra over</u> breaking out existing; rock	8	m3	
Disposal of excavated material;				
C	Off site	37	m3	
Disposal of water				
D	Ground	1	Item	
E	Surface	1	Item	
Surface treatments				
F	Compacting bottom of excavations	26	m2	
Filling; hardcore ; imported to excavations; average thickness				
G	Exceeding 0.25m	33	m3	
Surface treatments				
H	Blinding filling with sand; 50mm thick	26	m2	
J	<u>extra over</u> for supplying an laying terram or similar geotextile to face of excavation prior to backfilling	30	m2	
<u>Drainage supply and install 150mm perforated land drain to rear of wall, connected into storm drainage system; surrounded and bedded with clean free draining stone</u>				
K	50mm perforated land drain	32	m	
<u>Concrete Work</u>				
NO FINES CONCRETE TO BS8500 & IS EN 206,				
<i>Backfilling to Retaining Wall</i>				
Sub Bill 4 - External Works		To Collection €		
6 No. Housing Units for Donegal CoCo		3/10		
at An Glasan, (phase 2), Kilcar				

<u>(30) SITE ENCLOSURES (Cont)</u>				
<u>(Cont) BOUNDARY TREATMENT 3:</u>				
(Cont) Retaining wall with close boarded fence				
<u>(Cont) Concrete Work</u>				
(Cont) NO FINES CONCRETE TO BS8500 & IS EN 206,				
A	generally; poured on or against earth or unblinded hardcore	25	m3	
B	include for supply and installation of perforated 100mm landrain pipework; laid in no fines concrete	15	m	
PLAIN CONCRETE TO BS8500 & IS EN 206, GRADE 20				
<i>Blinding</i>				
C	generally; poured on or against earth or unblinded hardcore	2	m3	
REINFORCED CONCRETE TO BS8500 & IS EN 206, GRADE 35				
<i>Foundations to Retaining Walls</i>				
D	generally	8	m3	
<i>Retaining Walls</i>				
E	generally	12	m3	
F	<u>extra over</u> for all additional labour and material in setting in sleeves for concrete posts to be set in prior to pouring of RC Wall and	12	m3	
REINFORCEMENT				
<i>Reinforcement bars; Hot rolled plain round mild steel; all in compliance with BS EN 10138 and BS 4449:2005 and 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 bending schedules, drawings and Specification Section 5:</i>				
Sub Bill 4 - External Works		To Collection €		
6 No. Housing Units for Donegal CoCo		3/11		
at An Glasan, (phase 2), Kilcar				

<u>(30) SITE ENCLOSURES (Cont)</u>				
<u>(Cont) BOUNDARY TREATMENT 3:</u>				
(Cont) Retaining wall with close boarded fence				
<u>(Cont) Concrete Work</u>				
<u>(Cont) REINFORCEMENT</u>				
<i>Bars: Links</i>				
A	less than or equal to 12mm diameter; in foundations - Bars	0.57	Tn	
B	less than or equal to 12mm diameter; in walls- Bars	0.51	Tn	
FORMWORK				
<i>Formwork; fair face finish to concrete; Class F1 finish; rough finish to comply with EN 1992-1-1:2004; all in strict accordance with the Engineers Specification Section 5</i>				
<i>Sides of foundations; foundations</i>				
C	250mm - 500mm	34	m	
<i>Kickers to retaining wall;</i>				
D	generally	15	m	
E	<u>extra over</u> for all additional labour and material at internal corners	1	nr	
F	<u>extra over</u> for all additional labour and material at external corners	1	nr	
<i>Retaining walls;</i>				
G	vertical; height not exceeding 4.00metres ; both sides	77	m2	
H	<u>extra over</u> all additional labour and material in work to form external corners	1	nr	
J	<u>extra over</u> all additional labour and material in work to form internal corners	1	nr	
<u>FENCING</u>				

<u>(30) SITE ENCLOSURES (Cont)</u>				
<u>(Cont) BOUNDARY TREATMENT 3:</u>				
<u>(Cont) Retaining wall with close boarded fence</u>				
<u>(Cont) FENCING</u>				
Close Boarded Timber fence; hardwood pressure treated with three coats Sadoline, external finish; comprising 125 x 125mm precast concrete posts at 1800mm centres, fixed into pockets in hollow block retaining wall 600mm below ground level (include all additional labour and material in working around hollow block wall); encased in concrete 200 x 200 x 600mm deep; 75 x 44mm horizontal splayed trimmers bolted to posts in three rows, 125 x 20mm square top hit and miss vertical boards both sides; fence boards finished with 3 coats preservative stain finish to match adjacent gates; All as per architects drawings 2508/02 & 2508/06 & 2508/07 and Architects Specification Q40/332 and Engineers Drawings 1966/T1/110 & 111; BALUSTRADE TO BE DESIGNED FOR THE FOLLOWING LOADS: LIVE LOAD = 0.74KN/M AT 1.1M ABOVE STEP LOAD CASE 1 LOAD CASE 1 AREA LOAD = 0.5KN/M2 LOAD CASE 2 LOAD CASE 2 POINT LOAD = 0.5KN ACTING ON ANY POINT LOAD CASE 3 LOAD CASE 3 ALSO INCLUDE IN EACH LOAD CASE 1KN POINT LOAD VERTICALLY OR 0.6KN/M UDL VERTICALLY WHICHEVER IS THE WORST CASE. DCE IRL TO REVIEW ALL DESIGN CALCULATIONS PRIOR TO MANUFACTUR				
A	1.3 metres height; fixed to top of retaining wall post fixed into top of retaining wall / or into metal shoes bolted to top of retaining wall	15	m	
B	<u>extra over</u> for all additional labour and material at internal corners	1	nr	
C	<u>extra over</u> for all additional labour and material at external corners	1	nr	
<u>BOUNDARY TREATMENT 4:</u>				
<u>EXCAVATION & EARTHWORK</u>				
<u>EXCAVATION</u>				

<u>(30) SITE ENCLOSURES (Cont)</u>				
<u>(Cont) BOUNDARY TREATMENT 4:</u>				
<u>(Cont) EXCAVATION & EARTHWORK</u>				
<u>(Cont) EXCAVATION</u>				
Excavating trenches to receive foundations; starting from reduced level				
A	foundation trenches; depth not exceeding 1.00m	6	m3	
Disposal				
B	excavated material off site	6	m3	
Backfilling with Hardcore stone sub-base; depositing and compacting in layers 150mm maximum thickness; including rolling and preparing formation level to falls; all in accordance with Engineer's Drawings and Specification and installed to Manufacturers Recommendations				
C	Filling; to excavations; average thickness not exceeding 250mm	2	m3	
Blinding filling with sand; 50mm thick; compacted; laid onto surface of hardcore; to beds				
D	Surface treatments; blinding filling; sand	6	m2	
CONCRETE WORK				
<u>PLAIN CONCRETE TO BS8500 & IS EN 206, GRADE 20</u>				
Blinding				
E	generally; poured on or against earth or unblinded hardcore	1	m3	
<u>IN-SITU CONCRETE</u>				
Reinforced in-situ concrete; Grade C30/37 ; vibrated; all as per Engineers Drawings and Specification and installed to Manufacturers Recommendations				
F	Foundations; reinforced (foundation)	3	m3	

<u>(30) SITE ENCLOSURES (Cont)</u>				
<u>(Cont) BOUNDARY TREATMENT 4:</u>				
<u>(Cont) CONCRETE WORK</u>				
<u>(Cont) IN-SITU CONCRETE</u>				
(Cont) Reinforced in-situ concrete; Grade C30/37; vibrated; all as per Engineers Drawings and Specification and installed to Manufacturers...				
A	extra over for all additional labour and material in setting in and working around 125 x 125mm precast concrete posts at 1800mm centres (precast concrete posts measured elsewhere)	1	item	
<u>REINFORCEMENT</u>				
Reinforcement mesh; A393 top and bottom face of various diameter; deformed high yield steel; UBM03-H12-200-U bars; spacers and chairs at the discretion of the contractor; all as per Engineers Drawings and Specification and installed to Manufacturers Recommendations				
B	Fabric; horizontal	6	m2	
<u>FORMWORK</u>				
Formwork; generally; as per Engineers specifications				
C	Sides of foundations; 250mm - 500mm high (strip footings)	20	m	
BRICKWORK AND BLOCKWORK				
<u>BLOCKWORK</u>				
Solid concrete blocks; I.S.20; size 440 x 215 x 100mm; compressive strength 13N/mm2; including 10mm vertical and horizontal mortar joints; all as per Engineers specification				
D	Walls in trenches; 215mm thick	4	m2	
E	extra over for all additional labour and material in working around 125 x 125mm precast concrete posts at 1800mm centres (precast concrete posts measured elsewhere)	1	item	
F	Walls; 215mm thick	10	m2	
Sub Bill 4 - External Works		To Collection €		
6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		3/15		

(30) SITE ENCLOSURES (Cont)				
(Cont) BOUNDARY TREATMENT 4:				
(Cont) BRICKWORK AND BLOCKWORK				
(Cont) BLOCKWORK				
(Cont) Solid concrete blocks; I.S.20; size 440 x 215 x 100mm; compressive strength 13N/mm ² ; including 10mm vertical and horizontal mortar joints; all as...				
A	extra over for all additional labour and material in working around 125 x 125mm precast concrete posts at 1800mm centres (precast concrete posts measured elsewhere)	1	item	
FINISHINGS				
Smooth render system; wood float finish render; 26mm thick; scud, render, float and wood float finish in cement, lime and sand mortar; undercoat 16mm thick (1:1:6); wood float finish coat 10mm thick (1:1:4.5) fixed back to concrete / blockwork wall background; including all preparation works required; including all stainless steel stop beads, angle bead, expansion beads, overhead drip beads, etc, as required; installed to Manufacturer's Instructions and all in accordance with the Architect's Drawings and Specification M20/160				
B	Walls; exceeding 300mm wide (walls)	20	m ²	
C	extra over for all additional labour and material including supply and installation of expanded metal lath and any plaster straightening coat at junction of blockwork and concrete upright post at 1800mm centres (precast concrete posts measured elsewhere)	1	item	
D	Walls; not exceeding 300mm wide (top of walls)	10	m	
E	extra over for all additional labour and material including supply and installation of expanded metal lath and any plaster straightening coat at junction of blockwork and concrete upright post at 1800mm centres (precast concrete posts measured elsewhere)	1	item	
PAINTING AND DECORATING				
Sub Bill 4 - External Works		To Collection €		
6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		3/16		

<u>(30) SITE ENCLOSURES (Cont)</u>				
<u>(Cont) BOUNDARY TREATMENT 4:</u>				
<u>(Cont) PAINTING AND DECORATING</u>				
<u>PAINTING</u>				
Paint to IS 32; to wood float plaster finish; masonry paint to comply with BS 6150; one coat approved silicon based primer; two coats "Weathersheild" external quality emulsion paint or equivalent; colour to be selected by the Architect; all in accordance with the Architects Specification				
A	Walls; exceeding 300mm wide	20	m2	
B	Wall Capping; exceeding 300mm wide (walls)	10	m	
<u>FENCING</u>				
Close Boarded Timber fence; hardwood pressure treated with three coats Sadoline, external finish; comprising 125 x 125mm precast concrete posts at 1800mm centres, fixed into ground 600mm below ground level (include all additional labour and material in working around concrete foundation for low level wall); encased in concrete 400 x 400 x 600mm deep, include for all necessary excavations and disposal off site; 75 x 44mm horizontal splayed trimmers bolted to posts in three rows, 125 x 20mm square top hit and miss vertical boards both sides; fence boards finished with 3 coats preservative stain finish to match adjacent gates; All as per architects drawings 2508/02 & 2508/06 & 2508/07 and Architects Specification Q40/332				
C	1.2 metres height	10	m	
<u>BOUNDARY TREATMENT 6:</u>				
<u>EXCAVATION & EARTHWORK</u>				
<u>EXCAVATION</u>				
Excavating trenches to receive foundations; starting from reduced level				
Sub Bill 4 - External Works		To Collection €		
6 No. Housing Units for Donegal CoCo		3/17		
at An Glasan, (phase 2), Kilcar				

<u>(30) SITE ENCLOSURES (Cont)</u>				
<u>(Cont) BOUNDARY TREATMENT 6:</u>				
<u>(Cont) EXCAVATION & EARTHWORK</u>				
<u>(Cont) EXCAVATION</u>				
(Cont) Excavating trenches to receive foundations; starting from reduced level				
A	foundation trenches; depth not exceeding 1.00m	29	m3	
Disposal				
B	excavated material off site	29	m3	
Backfilling with Hardcore stone sub-base; depositing and compacting in layers 150mm maximum thickness; including rolling and preparing formation level to falls; all in accordance with Engineer's Drawings and Specification and installed to Manufacturers Recommendations				
C	Filling; to excavations; average thickness not exceeding 250mm	16	m3	
Blinding filling with sand; 50mm thick; compacted; laid onto surface of hardcore; to beds				
D	Surface treatments; blinding filling; sand	36	m2	
CONCRETE WORK				
<u>PLAIN CONCRETE TO BS8500 & IS EN 206, GRADE 20</u>				
Blinding				
E	generally; poured on or against earth or unblinded hardcore	2	m3	
<u>IN-SITU CONCRETE</u>				
Reinforced in-situ concrete; Grade C30/37 ; vibrated; all as per Engineers Drawings and Specification and installed to Manufacturers Recommendations				
F	Foundations; reinforced (foundation)	11	m3	
<u>REINFORCEMENT</u>				

<u>(30) SITE ENCLOSURES (Cont)</u>			
<u>(Cont) BOUNDARY TREATMENT 6:</u>			
<u>(Cont) CONCRETE WORK</u>			
<u>(Cont) REINFORCEMENT</u>			
Reinforcement mesh; A393 top and bottom face of various diameter; deformed high yield steel; UBM03-H12-200-U bars; spacers and chairs at the discretion of the contractor; all as per Engineers Drawings CS111 and Specification and installed to Manufacturers Recommendations			
A	Fabric; horizontal	36	m2
<u>FORMWORK</u>			
Formwork; generally; as per Engineers specifications			
B	Sides of foundations; 250mm - 500mm high (strip footings)	88	m
<u>Precast Concrete vandal proof Capping to Match Existing Walls; to be approved by architect; all in accordance with Architect's Drawings and Specification and Installed to Manufacturers Instructions</u>			
C	Coping to blockwork piers; Vandal Proof coping; 450 x 450mm; fixed to blockwork including all preparation	10	nr
D	Capping to blockwork walls; Vandal Proof coping; 250mm - 300mm; built on top of blockwork including all preparation	44	m
BRICKWORK AND BLOCKWORK			
<u>BLOCKWORK</u>			
Solid concrete blocks; I.S.20; size 440 x 215 x 100mm; compressive strength 13N/mm2; including 10mm vertical and horizontal mortar joints; all as per Engineers specification			
E	Rising Walls; 450mm thick	15	m2
F	Walls; 215mm thick	88	m2
G	Piers; 443mm x 443mm thick	10	m2
Sub Bill 4 - External Works		To Collection €	
6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		3/19	

<u>(30) SITE ENCLOSURES (Cont)</u>				
<u>(Cont) BOUNDARY TREATMENT 6:</u>				
<u>(Cont) BRICKWORK AND BLOCKWORK</u>				
<u>FINISHINGS</u>				
Pre-coloured render system with silicone resin based render finish; Wood float finish render; 26mm thick; scud, render, float and wood float finish in cement, lime and sand mortar; undercoat 16mm thick (1:1:6); wood float finish coat 10mm thick (1:1;4.5) fixed back to concrete / blockwork wall background; including all preparation works required; including all stainless steel stop beads, angle bead, expansion beads, overhead drip beads, bell cast projections, etc, as required; installed to Manufacturer's Instructions and all in accordance with the Architect's Drawings and Specification M20/160				
A	Walls; exceeding 300mm wide (walls)	194	m2	
B	Walls; exceeding 300mm wide (piers)	39	m2	
<u>PAINTING AND DECORATING</u>				
<u>PAINTING</u>				
Paint to IS 32; to west dash plaster finish; masonry paint to comply with BS 6150; one coat approved silicon based primer; two coats "Weathersheild" external quality emulsion paint or equivalent; colour to be selected by the Architect; all in accordance with the Architects Specification				
C	Wall Capping; exceeding 300mm wide (walls)	25	m2	
<u>Composite Item: Gates</u>				
Sub Bill 4 - External Works				
6 No. Housing Units for Donegal CoCo				
at An Glasan, (phase 2), Kilcar				
			To Collection €	

<u>(30) SITE ENCLOSURES (Cont)</u>				
<u>(Cont) Composite Item: Gates</u>				
Powder Coated Gates (G1); comprising 50x10mm flat bar frame with 40x10mm diameter uprights at minimum 80mm and maximum 95mm centres; 50x10mm flat bar support mechanically fixed to blockwork; with galvanised latch bolt; inclusive of ironmongery as detailed; hinges fixed to masonry walls; refer to detail G1 - Low Level Galvanised Steel Gates on Architects drawing 2507/08 and specification Q40/132				
A	Gates; single leaf gate with side railing ; overall 2700mm wide x 1040mm high; gate opening 1165mm wide	1	nr	
B	Gates; single leaf gate with side railing ; overall 2300mm wide x 1040mm high gate opening 1165mm wide	1	nr	
Powder Coated Gates (G2); comprising 50x10mm flat bar frame with 40x10mm diameter uprights at minimum 80mm and maximum 95mm centres; 50x10mm flat bar support mechanically fixed to blockwork; with galvanised latch bolt; inclusive of ironmongery as detailed; hinges fixed to masonry walls; refer to detail G2 - Low Level Galvanised Steel Gates on Architects drawing 2507/08 and specification Q40/132				
C	Gates; double leaf pedestrian and vehicle gates; overall 3400mm wide x 1100mm high; gate opening sizes 1165mm wide (pedestrian), & 2235mm wide (vehicle)	2	nr	
Sub Bill 4 - External Works		To Collection €		
6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		3/21		

<u>(30) SITE ENCLOSURES (Cont)</u>				
<u>(Cont) Composite Item: Gates</u>				
Wooden boarded gates (G3); 2000mm high; galvanised 30x30x3mm RHS box iron gate frame with 25x2.5mm flat iron pre-drilled to receive bolts; softwood boards: 125x20mm preservative treated square top and fixed using 30mm long x 6mm cup-head galvanised bolts; 20mm gap between boards; inclusive of ironmongery as detailed, including shoot bolt and receiver left ready for tenants padlock, galvanised adjustable eye bolt with weld on hinge bracket and gate barrel bolt, galvanised 250mm suitable for padlock; 2 nr hinges fixed to masonry walls; galvanised steel striker plate bolted to wall; refer to detail G3 - Timber Boarded Gate on Architects drawing 2507/08 and specification Q50/110				
A	Gates; single leaf gate; overall 1200mm wide x 2000mm high	5	nr	
B	Gates; single leaf gate; overall 1500mm wide x 2000mm high	2	nr	
Sub Bill 4 - External Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				
3/22				To Collection €

<u>(30) SITE ENCLOSURES (Cont)</u> COLLECTION Page No. 3/1 Page No. 3/2 Page No. 3/3 Page No. 3/4 Page No. 3/5 Page No. 3/6 Page No. 3/7 Page No. 3/8 Page No. 3/9 Page No. 3/10 Page No. 3/11 Page No. 3/12 Page No. 3/13 Page No. 3/14 Page No. 3/15 Page No. 3/16 Page No. 3/17 Page No. 3/18 Page No. 3/19 Page No. 3/20 Page No. 3/21 Page No. 3/22 (30) SITE ENCLOSURES Carried to Summary				
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<u>(40) ROADS, PATHS, PAVINGS</u>				
<u>EXCAVATIONS & EARTHWORKS; Excavations</u>				
Excavate trenches not exceeding 300mm wide to receive kerb foundations / drainage channels starting from reduced level				
A	average 250mm total depth	21	m3	
Bottom of excavation				
B	grade to falls and compact	51	m2	
Excavated material				
C	remove from site	21	m3	
<u>FILLING</u>				
Filling; Granular Material, Hardcore Clause 808 stone sub-base; depositing and compacting in layers 150mm maximum thickness; including rolling and preparing formation level to falls; all in accordance with Engineer's Drawings and Specification				
D	Filling; to make up levels; 150mm thick; as per Engineers Drawing 1966/T01/111; to footpaths	53	m3	
Filling; Class 2 Fill Material to Appendix 6/1 TII specification for roadworks, to sub-base layer, all as Engineers specification; Clause 804; CBR 2.0% - 5.0%; deposited and compacted in minimum 150mm layers as NRA Specification for Road Works, clauses 801.3 & 802; mechanical compaction; all in strict accordance with the Engineer's Specification				
E	hardcore filling deposited and compacted in layers as described; making up levels on site not exceeding 200mm thick; as per Engineers Drawing 1966/T01/111; to footpaths	71	m3	
F	lay HDPE impermeable geo membrane in between hardcore and sub base layers	351	m2	
G	lay terram 1000 T Fabric in between hardcore and sub base layers	351	m2	
Sub Bill 4 - External Works		To Collection €		
6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		4/1		

<u>(40) ROADS, PATHS, PAVINGS (Cont)</u>				
<u>(Cont) FILLING</u>				
Filling; 65mm crushed stone to sub-base layer as Engineers specification and in accordance with Table 8/6 NRA 'NRA Specification for Road Works' Series 800; Clause 804; CBR 2.0% - 5.0%; deposited and compacted in minimum 150mm layers as NRA Specification for Road Works, clauses 801.3 & 802; mechanical compaction; all in strict accordance with the Engineer's Specification				
A	hardcore filling deposited and compacted in layers as described; making up levels on site not exceeding 250mm thick	25	m3	
B	surface of hardcore filling; sand blind and compact to receive hardcore bed deposited and compacted in layers as described; making up levels on site over 250mm thick	351	m2	
<u>SURFACE PAVINGS, FENCING AND LANDSCAPING</u>				
Decorative gravel Chippings; to edge of building; laid on and including weed control barrier				
C	Decorative Gravel 100mm thick to surface of hardcore; ornamental gravel or similar and approved laid on and including weed barrier membrane; per Architects specification and drawing	82	m2	
<u>CONCRETE PAVING</u>				
Concrete work generally; plain in-situ concrete (25N/mm2) as described; as per Engineers specification				
D	Surface Treatment 5 - Private Footpaths and Rear Yards; paving laid in alternate bay construction each bay average 10m2; laid on hardcore; tamping; one layer A142 Mesh; wood float; steel trowelled edges; fine brush finish across width; 125mm thick	166	m2	
<u>PREFORMED PAVING AND EDGING UNITS</u>				
Sub Bill 4 - External Works		To Collection €		
6 No. Housing Units for Donegal CoCo		4/2		
at An Glasan, (phase 2), Kilcar				

<u>(40) ROADS, PATHS, PAVINGS (Cont)</u>				
<u>(Cont) SURFACE PAVINGS, FENCING AND LANDSCAPING</u>				
<u>(Cont) PREFORMED PAVING AND EDGING UNITS</u>				
Precast concrete kerbs; Pin kerb 200mm high x 50mm wide; include neatly jointed and sawn cut where necessary to achieve required radii to carpark; including concrete bedding and haunching, setting and pointing; laid on foundation base 200mm x 200mm; including for concrete, formwork, excavation and disposal of surplus material off site; all as per Engineers details and specification complete				
A	Kerbs; overall size 200mm high x 50mm wide; finish level with public footpath ; straight (Typical) refer Engineers Details on Drawing 1966-T01-111	85	m	
Block Paving "Hydropave Shannon Duo" flags or equivalent, size 173 x 173mm x 60mm thick; in graphite / silver; to BS EB 1339, BS EN 1338:2003, BS7533-3; laid stretcher bond pattern; as selected by Architect, textured, level and to falls; on and including 150mm sub base, and 30mm sand and cement bedding and geotextile membrane; first two rows haunched in concrete; brushed in dry pre-bagged sand upon completion between joints in accordance with manufacturers written instructions, cutting to perimeters and around obstructions; all in accordance with Architects specification Q10 & Q24				
B	60mm thick in sizes 173 x 173 x 60mm thick, laid to falls and cross falls; exceeding 300mm wide; laid in pattern to Architects approval; all as per Architects drawings and specification; To parking bays / patios	184	m2	
Sub Bill 4 - External Works				
6 No. Housing Units for Donegal CoCo				
at An Glasan, (phase 2), Kilcar				
				To Collection €

(40) ROADS, PATHS, PAVINGS (Cont)

COLLECTION

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

(50) SITE SERVICES (MAINLY PIPED AND DUCTED)

<u>(50) SITE SERVICES (MAINLY PIPED AND DUCTED)</u>				
<u>DRAINAGE - FOUL WATER (INCLUDING UNDER SLAB)</u>				
DRAINAGE BELOW GROUND				
Excavating trenches to receive pipes; grading bottoms; filling in over bed with Clause 804; earthwork support; disposing of surplus excavated material to be kept on-site for re-use; including 400mm wide marker tape; including all double handling as required; all as per Engineers details and specification				
Pipes not exceeding 250mm nominal diameter; SECONDARY RUNS				
A	average depth; 1.00m - 1.50m (Secondary Runs from IC to Dwelling Units); 150mm diameter pipework	105	m	
<u>Disposal</u>				
B	Surface water; keeping the surface of the site and excavations free of general water	1	Item	
C	Ground water; keeping the excavations free of ground water	1	Item	
<u>BEDS & SURROUNDS</u>				
Pipe bedding shall comply WIS 4-08-02 and IGN 4-08-01 granular material shall be 14mm to 5mm graded aggregate or 10mm single size aggregate to IS EN 12620; gravel fill to bed and surround; in accordance with the Engineers Drawings and specifications				
D	Beds and surrounds; 150mm diameter; refer to details on Engineers drawing	105	m	
<u>PIPEWORK</u>				
Drains; uPVC SN8 pipes; spigot and socket jointed; all in accordance with Engineers specification				
E	Pipes; 150mm diameter; laid in trenches (Secondary Runs from IC to Dwellings)	105	m	

(50) SITE SERVICES (MAINLY PIPED AND DUCTED)

(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
(Cont) DRAINAGE - FOUL WATER (INCLUDING UNDER SLAB) (Cont) DRAINAGE BELOW GROUND (Cont) PIPEWORK (Cont) Drains; uPVC SN8 pipes; spigot and socket jointed; all in accordance with Engineers specification				
A	<u>Extra over</u> for bends, capping ends, tees, junctions etc; complete Foul Access Chamber around house complete; including cover and frame; including all necessary excavations, disposing of surplus excavated material to be kept on-site for re-use; including all double handling as required, earthwork support, backfilling, concrete surround, formwork, reinforcement, jointing, blockwork, cover slabs, chains, rodding eyes etc.; including proprietary adapter pieces; complete as per Engineers specification and details	1	Item	
B	Pipe accessories; foul access chamber around house; include for all ends required to connect gully to pipework; set in position; complete Private Side Foul Water Inspection Chambers; including all necessary excavations, disposal of surplus spoil, earthwork support, backfilling, leanmix blinding, concrete base, concrete slab, formwork, blockwork wall, lintels, reinforcement, frame, cover etc.; complete; all as per Engineers details; all as per NRA specification	12	nr	
C	Foul Inspection Chambers; including all connections, bends, valves, gaskets, flanges etc UPVC Pipe Accessories	6	nr	
D	B.I.G.T.; vertical; flexible joint to pipe; bedding and surrounding in concrete (21N/mm ²); 160mm outlet	6	nr	
E	grating; galvanised; 160mm x 160mm	6	nr	
<u>DRAINAGE - SURFACE WATER (INCLUDING UNDER SLAB)</u>				
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(50) SITE SERVICES (MAINLY PIPED AND DUCTED)

(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
<u>(Cont) DRAINAGE - SURFACE WATER</u> <u>(INCLUDING UNDER SLAB)</u>				
DRAINAGE BELOW GROUND				
Excavating trenches to receive pipes; grading bottoms; filling in over bed with Clause 804; earthwork support; disposing of surplus excavated material to be kept on-site for re-use; including 400mm wide marker tape; including all double handling as required; all as per Engineers details and specification				
Pipes not exceeding 250mm nominal diameter; SECONDARY RUNS				
A	average depth; 1.00m - 1.50m (Secondary Runs around dwellings); 150mm diameter pipework	166	m	
<u>Disposal</u>				
B	Surface water; keeping the surface of the site and excavations free of general water	1	Item	
C	Ground water; keeping the excavations free of ground water	1	Item	
<u>BEDS & SURROUNDS</u>				
Pipe bedding shall comply WIS 4-08-02 and IGN 4-08-01 granular material shall be 14mm to 5mm graded aggregate or 10mm single size aggregate to IS EN 12620; gravel fill to bed and surround; in accordance with the Engineers Drawings and specifications				
D	bed and surround; 150mm diameter; refer to details on Engineers drawing (Secondary Runs around dwellings to IC's)	166	m	
<u>PIPEWORK</u>				
Drains; uPVC SN8 pipes; spigot and socket jointed; all in accordance with Engineers specification				
E	Pipes; 150mm diameter; laid in trenches	166	m	

(50) SITE SERVICES (MAINLY PIPED AND DUCTED)

(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
(Cont) DRAINAGE - SURFACE WATER (INCLUDING UNDER SLAB) (Cont) DRAINAGE BELOW GROUND (Cont) PIPEWORK (Cont) Drains; uPVC SN8 pipes; spigot and socket jointed; all in accordance with Engineers specification				
A	Extra over for; bends, capping ends, tees, junctions etc; complete	1	Item	
	RWP back inlet & traps complete; including all necessary excavations, disposing of surplus excavated material to be kept on-site for re-use; including all double handling as required, earthwork support, backfilling, concrete surround, formwork, reinforcement, jointing, blockwork etc.; including proprietary adapter pieces; complete as per Engineers specification and details			
B	Pipe accessories; Back inlet & traps; include for all ends required to connect gully to pipework; set in position; complete	16	nr	
	ACO Type drainage channel with trash box and 100mm connection to drainage system complete; including all necessary excavations, disposing of surplus excavated material to be kept on-site for re-use; including all double handling as required, earthwork support, backfilling, concrete surround, formwork, reinforcement, jointing, blockwork etc.; including proprietary adapter pieces; complete as per Engineers specification and details			
C	ACO Type drainage channel ; include for all ends required to connect gully to pipework; set in position; complete	40	m	
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(50) SITE SERVICES (MAINLY PIPED AND DUCTED)

(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
(Cont) DRAINAGE - SURFACE WATER (INCLUDING UNDER SLAB) (Cont) DRAINAGE BELOW GROUND (Cont) PIPEWORK Armstrong Junction / Inspection Chambers complete; including all necessary excavations, disposing of surplus excavated material to be kept on-site for re-use; including all double handling as required, earthwork support, backfilling, concrete surround, formwork, reinforcement, jointing, blockwork etc.; including proprietary adapter pieces; complete as per Engineers specification and details				
A	Pipe accessories; AJ / IC; include for all ends required to connect gully to pipework; set in position; complete SITE SERVICES - WATERMAIN DRAINAGE BELOW GROUND <u>Excavating trenches to receive pipes; grading bottoms; filling in over bed with Clause 804; earthwork support; disposing of surplus excavated material off site; including 400mm wide blue marker tape in accordance with Irish Water specification; all as per Engineer Drawings 1966/P01/021 & 1966/P01/025 and specification</u> SECONDARY RUNS TO UNITS	16	nr	
B	Pipes not exceeding 150mm nominal diameter; average depth; 1.00 - 1.50m (1nr connection pipe 25mm dia ID PE Service Connection Pipe) <u>Disposal</u>	58	m	
C	Surface water; keeping the surface of the site and excavations free of general water	1	Item	
D	Ground water; keeping the excavations free of ground water	1	Item	
<u>BEDS & SURROUNDS</u>				
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(50) SITE SERVICES (MAINLY PIPED AND DUCTED)

(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
(Cont) SITE SERVICES - WATERMAIN (Cont) DRAINAGE BELOW GROUND (Cont) BEDS & SURROUNDS Pipe bedding shall comply WIS 4-08-02 and IGN 4-08-01 granular material shall be 14mm to 5mm graded aggregate or 10mm single size aggregate to IS EN 12620; gravel fill to bed and surround; in accordance with the Engineers Drawings and specifications				
A	bed and surround; 25mm diameter watermain connection pipe; refer irish water standard detail STD-W-03 PIPEWORK HDPE pipework; watermain; all as per Engineer's and Irish Water Specification	58	m	
B	Pipes; 25mm diameter; watermain connection laid in position	58	m	
C	<u>Extra over</u> for; long radius bends, short radius bends, capping ends, tees, junctions etc; complete Chambers and Cast iron pipework fittings and ancillaries; including all necessary excavations, disposal of surplus spoil, earthwork support, backfilling, leanmix blinding, concrete base, concrete slab, formwork, blockwork wall, lintels, reinforcement, frame, cover etc; complete ; all as per Engineers details and Irish Water Specification	1	Item	
D	Boundary box incorporating G1.5" manifold, stop-tap, frost plug and non return valve; including all connections, gaskets, covers etc; refer irish water standard detail STD-W-03 SUNDRIES Testing	6	nr	
E	Test the entire foul water drainage system to the Engineers and local authority's satisfaction as the work proceeds	1	item	

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(50) SITE SERVICES (MAINLY PIPED AND DUCTED)

(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
(Cont) SUNDRIES				
(Cont) Testing				
A	Test the entire surface water drainage system to the Engineers and local authority's satisfaction as the work proceeds	1	item	
B	Test the entire watermain system to the Engineers and local authority's satisfaction as the work proceeds	1	item	
As Constructed Drawings				
C	On completion of the foul water drainage system "As Constructed Drawings" are to be prepared; 2 nr. copies are to be presented to the Engineer	1	item	
D	On completion of the surface water drainage system "As Constructed Drawings" are to be prepared; 2 nr. copies are to be presented to the Engineer	1	item	
E	On completion of the watermain systems "As Constructed Drawings" are to be prepared; 2 nr. copies are to be presented to the Engineer	1	item	

(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)

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(50) SITE SERVICES (MAINLY PIPED AND DUCTED)
Carried to Summary

<u>(60) SITE SERVICES (MAINLY ELECTRICAL)</u>			
<u>ELECTRICAL INSTALLATION</u>			
Information etc: Work in this element comprises			
A	All descriptions are to be read with the drawings and specification (see separate document) referred to in the Bills of Quantities; All workmanship clauses and those of a general nature are deemed to be included	1	NOTE
Sundries and Builders Work; The Main Contractor shall:			
B	Note that the relevant sub-contractors once appointed are to detail their extract requirements and locations of builder's attendances by the production of detailed and co-ordinated builders work drawings	1	Item
C	Contact the statutory authorities to co-ordinate incoming services and locate all existing underground and overhead services prior to site works	1	Item
D	Provide attendance to all utility services i.e. ESB. Engineer, Eir Engineer, Irish Water Engineer	1	Item
E	Be responsible for co-ordinating all Mechanical and Electrical builders work requirements. This should be done by liaising with these sub-contractors in accordance with their contract program and obtaining 'Marked up, detailed dimensioned drawings from the sub-contractors illustrating exact locations etc and co-ordinating same	1	Item
F	Provide a month by month program detailing the Mechanical and Electrical service activities	1	Item
G	Provide road openings for new statutory connections to the development. Upon connection being made builder to allow for back filling and making good of road	1	Item
H	Provide all necessary yellow uPVC cable marker tape marked 'Caution Electric Cables' at least 120mm wide x 1 mm thick	1	Item
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(60) SITE SERVICES (MAINLY ELECTRICAL)

(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)				
(Cont) ELECTRICAL INSTALLATION				
(Cont) Sundries and Builders Work; The Main Contractor shall:				
A	Contractor to mark up all external services for 'AS FITTED' purposes and include 2 No copies within the Health & Safety File	1	Item	
B	Contractor shall contact the statutory authorities and coordinate incoming services and also shall locate all existing underground and overhead services prior to site works	1	Item	
C	Contractor shall scan proposed site and adjacent areas prior excavation to locate and identify existing underground services	1	Item	
D	Comply fully with the ESB new housing development booklet - 'General conditions relating with the provision of housing supplies'	1	Item	
E	The Contractor to form slit trenches on existing estate road to determine the position of existing underground services 300mm wide x 1m deep x 1.5m deep including making good (5nr)	1	Item	
LV ESB INSTALLATION				
<u>Excavating trenches to receive pipes; grading bottoms; earthwork support; disposing of surplus excavated material to be kept on-site for re-use; including all double handling as required; all to Engineers Specification and Service Engineers Drawings</u>				
Excavating trenches; 50mm diameter ESB Duct to final locations; starting from stripped ground level; including 150mm sand bed; including 150mm cover and surround with fine grain sand; backfilling remainder with compacted hardcore; including coloured warning tape at a depth of 300mm below finished ground level; in accordance with the ESB & Engineer's Details and Specification				
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(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)				
(Cont) ELECTRICAL INSTALLATION				
(Cont) LV ESB INSTALLATION				
(Cont) Excavating trenches to receive pipes; grading bottoms; earthwork support; disposing of surplus excavated material to be kept on-site for re-use;...				
(Cont) Excavating trenches; 50mm diameter ESB Duct to final locations; starting from stripped ground level; including 150mm sand bed; including 150mm cover...				
A	average depth 0.50 - 1.00m (Mains Connection from Mini Pillars to Meter Boxes)	158	m	
<u>Ducts; RED ducting to ESB / Service Engineers Specification 400v Supply; flexible spigot and socket joints in the running length; complete with nylon draw rope; all to ESB & Engineers details & specification</u>				
B	Pipes; 50mm pipework; laid in position	158	m	
C	<u>Extra over pipes on which they occur; long radius bends, short radius bends, capping ends, tees, junctions, connections, pop-ups, etc; complete</u>	1	item	
<u>ESB Meter Box; including all required cutting, masonry, frames, covers, locks, connections into houses, etc.; all as per Tender Drawings and Specification</u>				
D	ESB Meter Box; complete as per Engineers drawings and Specifications	7	nr	
EIR INSTALLATION				
<u>Service trenches; excavating trenches to receive pipes; grading bottoms; earthwork support; disposing of surplus excavated material off site; all in accordance with the Engineers details and specification</u>				

(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)				
(Cont) ELECTRICAL INSTALLATION				
(Cont) EIR INSTALLATION				
(Cont) Service trenches; excavating trenches to receive pipes; grading bottoms; earthwork support; disposing of surplus excavated material off site;...				
Excavating trenches; 2nr 32mm diameter Ducts (EIR / SPARE); starting from stripped ground level; including 150mm sand bed; including 150mm cover and surround with fine grain sand; backfilling remainder with compacted hardcore; including coloured warning tape at a depth of 100mm below finished ground level; in accordance with the Engineer's Details and Specification				
A	average depth 0.50 - 1.00m (Mains Connections from Chamber to House)	100	m	
Ducts; 1nr uPVC pipes; to EIR Specification; flexible spigot and socket joints in the running length; complete with nylon draw rope; all to ESB & Engineers details & specification				
EIR Ducting				
B	EIR Ducting; 32mm grey ductwork; laid in position	100	m	
C	Extra over pipes on which they occur; long radius bends, short radius bends, capping ends, tees, junctions, connections, etc; complete	1	item	
Telecoms Connection Box; including all required cutting, masonry, frames, covers, locks, connections into houses, etc.; all as per Tender Drawings and Specification				
D	Telecoms Connection Box; EIR Telecoms Connection Box (EIR ETU)	7	nr	
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(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)				
(Cont) ELECTRICAL INSTALLATION (Cont) EIR INSTALLATION				
<u>Service access chamber; including all excavation; disposing of surplus excavated material to be kept on-site for re-use; including all double handling as required; backfilling; masonry, concrete, formwork, access cover and frame etc; access covers; all as telecom provider's & Engineer's details & specification complete</u>				
A Service chambers; internal size 1000mm x 1000mm x 1000mm deep (inside site boundary)	2	nr		
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(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)				
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(80) LANDSCAPING, PLAY AREAS AND FITTINGS				
<u>SURFACE PAVING, FENCING AND LANDSCAPING</u>				
GRASSING AND PLANTING				
Topsoiling				
<u>Topsoil; Filling with imported Topsoil; including all preparation and treatment as required; all as per Architects drawing and specification</u>				
A	Topsoil; 200mm deep; Grass to gardens	308	m2	
B	Topsoil; 400mm deep; Shrubs / Trees	42	m2	
<u>Topsoil; Filling with previously excavated soil stored on site; including all preparation and treatment as required; all as per Architects drawing and specification</u>				
C	Topsoil; 200mm deep; Grass Public	10	m2	
D	Topsoil; 400mm deep; Shrubs / Trees	2	m2	
Cultivating				
<u>Prepare areas for planting including cultivation of soil, grading to contours include for spray off all gravel/grass/planting areas prior to planting etc. all as per Architect's and Specification.</u>				
E	Prepare areas for planting	308	m2	
Grass Seeding				
<u>Grass seeding; including spraying topsoil with weedkiller prior to seeding; topsoil to be raked and feathered finish, stones removed; complete as per Architects Drawings and Specification</u>				
F	Seeding; Amenity Grass Mix; Grass Public; mixture of the following Chewing Fescue 2.75kg, Brown Top Bent 0.45kg, Creeping Red Fescue 0.45kg, Crested Dogs Tail 0.45kg, Timothy Grass 0.45kg, Total 4.55kg; as per architects drawing 2508_06_A_ Site layout and specification	308	m2	
Mulch				
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(80) LANDSCAPING, PLAY AREAS AND FITTINGS

(80) LANDSCAPING, PLAY AREAS AND FITTINGS (Cont)				
(Cont) SURFACE PAVING, FENCING AND LANDSCAPING (Cont) Mulch <u>Bark Mulching including all preparation and laying; all as per Architects drawing and specification</u>				
A	Surface applications; all planting areas to be finished with mulch Shrubs <u>Supply and plant shrubs; mixed pollinator planting; including excavation and backfilling with approved planting soil; disposing off site off surplus material; complete as per Architect's Drawing and Specification</u>	42	m2	
B	Shrubs; mixture of the following; Choisya Ternata, cg, 3lt 40 - 50cm, Cistus x Purpureus, cg, 2lt 30 - 40cm, Perovskia Atriplicifolia 'Blue Spire', cg, 2lt 30 - 40cm, Viburnum Davidii, cg, 3lt 30 - 40cm ; as per architects drawing 2508_06_A Site layout and specification Root barrier <u>Root barrier; supply and install root barrier where services are within clearance zone of trees including all preparation and laying; all as per Architects drawing and specification</u>	42	m2	
C	root barrier Aftercare <u>Maintenance for Defects Liability Period; complete in accordance with the Architect's specification</u>	128	m	
D	Maintenance for Defects Liability Period; scheduled maintenance for the defects liability period as per the architects specification	1	Item	
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(80) LANDSCAPING, PLAY AREAS AND FITTINGS (Cont) COLLECTION Page No. 7/1 Page No. 7/2 (80) LANDSCAPING, PLAY AREAS AND FITTINGS Carried to Summary				
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(20) SITE STRUCTURES	2/2			
(30) SITE ENCLOSURES	3/23			
(40) ROADS, PATHS, PAVINGS	4/4			
(50) SITE SERVICES (MAINLY PIPED AND D ...	5/8			
(60) SITE SERVICES (MAINLY ELECTRICAL)	6/6			
(80) LANDSCAPING, PLAY AREAS AND FITTI ...	7/3			
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BILL NO. 5

SITE DEVELOPMENT WORKS

<u>(10) PREPARED SITE</u>				
<u>NOTES TO CONTRACTOR</u>				
A	1. Design and sequencing of all temporary works, including demolition, shall be the responsibility of the Contractor, who shall employ one competent temporary works designer to coordinate all temporary works on the site. Following design, including appropriate risk assessment, detailed method statements for the works shall be prepared setting out inter alia specific safety risk control measures. The Main Contractor will be required to submit all temporary works proposals to the Engineer accompanied by detailed design calculations, drawing(s) in advance of commencing works for approval.	1	Item	
B	2. Prior to commencement of any ground works, the contractor shall contact the ESB, Eircom and all utilities service providers to obtain exact position of underground services. These shall be confirmed on site by appropriate safe exploration methods in compliance with the utilities service providers' recommendations, guidelines, and Codes of Practice.	1	Item	
C	3. All site preparation and construction must adhere to best practice and conform with the Inland fisheries Ireland guidance 'Guidelines On Protection Of Fisheries During Construction Works In And Adjacent To Waters' (2016) as included in the Tender Information pack. Contractor to take particular care with the construction of the insitu concrete retaining wall along the corner road junction to the west of the play area which is in close proximity to the existing stream (Approx. 2 metres from the stream bank).	1	Item	
PROTECTION OF EXISTING WATERCOURSE / STREAM				
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<u>(10) PREPARED SITE (Cont)</u>				
<u>(Cont) NOTES TO CONTRACTOR</u>				
<u>(Cont) PROTECTION OF EXISTING WATERCOURSE / STREAM</u>				
The existing watercourse stream within the site is to be protected throughout the construction works with a buffer protection zone formed by temporary hoarding prior to the installation of the permanent fencing as part of the construction works. The stream is to be left fully intact and undisturbed at all times and clear of all builders rubble				
A	Temporary Protection; the existing watercourse stream within the overall site, beyond boundary treatment 7 is to be protected throughout the construction works all in accordance with the Inland fisheries Ireland guidance	1	Item	
<u>DEMOLITIONS & ALTERATIONS</u>				
Removing; Finishes				
<u>Works Externally</u>				
B	Removing existing tarmacadam surface area ; remove full build up of 340mm deep comprising 140mm Tarmac layer on 200mm of course aggregate to BS882, taking down into sub-grade material level and disposing of all excavated material and debris off site, include for compacting and leaving remaining sub-grade level for new build up, leaving flush joints on all edges to existing carpark, temporarily propping and protecting surrounding kerblines; works to be carried out in accordance with the Engineers requirements	136	m2	
C	Existing Edge Kerbs to be removed as shown on Architects/ Engineers drawings Hack up existing 250 x 100mm standard drop precast concrete perimeter kerbing, protecting and making good exposed edge of pavements, incl grubbing up bedding / haunching & dispose of all debris off site; prepare ends to receive new kerblines	18	m	
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<u>(10) PREPARED SITE (Cont)</u>				
<u>(Cont) DEMOLITIONS & ALTERATIONS</u>				
<u>(Cont) Removing; Finishes</u>				
<u>(Cont) Works Externally</u>				
A	Existing road drainage gullies and bases to same; include for capping ends of pipes	1	nr	
B	Remove existing low level picket fence 80mm high, incl grubbing up all post foundations and disposal off site	14	m	
C	Remove existing 4.0 metre wide farm gate at fence and dispose off site	1	nr	
Removing fence and posts at entrance to site; remove, and dispose off site existing temporary fence and posts into site				
D	include for careful removal of 15.0 metre wide x 2.0 metre high timber fence include for demolition and disposal off site, down to 600mm below ground level (for posts and bases); leave ready to receive new work and make good on completion.	1	Item	
<u>EXCAVATION AND EARTHWORK</u>				
<u>EXCAVATION</u>				
<u>Site Vegetation</u>				
E	removal off site all existing trees, shrubs, plants, trees and vegetation generally	2496	m2	
<u>Excavation; starting from existing ground level</u>				
F	topsoil; average depth 200mm	2496	m2	
<u>Reduce levels</u>				
G	reduce level dig; maximum depth not exceeding 1.5m	339	m3	
H	Extra on Item for; being next to existing buildings / boundary walls	1	Item	
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<u>(10) PREPARED SITE (Cont)</u>			
<u>(Cont) EXCAVATION AND EARTHWORK</u>			
<u>(Cont) EXCAVATION</u>			
<u>(Cont) Reduce levels</u>			
A	Extra on Item for; excavating around existing services / drainage; running parallel to excavations	1	Item
B	Extra on Item for; excavating around existing services / drainage; crossing excavations	1	Item
C	Extra on Item for; breaking up existing rock	15	m3
D	Extra on Item for; excavate soft spots; dispose of excavated material off site; backfill with clause 804 hardcore	10	m3
E	Extra on Item for; excavate soft spots; dispose of excavated material off site; backfill with C16/20 leanmix concrete	10	m3
<u>Disposal</u>			
F	Disposal excaated material off site	562	m3
G	Surface water; keeping the surface of the site free of surface water	1	item
H	Ground water; keeping the excavations free of ground water	1	item
FILLING			
<u>EXCAVATION</u>			
T1 structural 0/31.5m unbound granular fill (crushed rock) or 0/40m gravel (S.R21 Annex E) material in accordance with Engineer's Specification; depositing and compacting in layers 150mm maximum thickness			
J	Filling; to make up levels; average thickness exceeding 250mm	485	m3

<u>(10) PREPARED SITE (Cont)</u>				
<u>(Cont) EXCAVATION AND EARTHWORK</u>				
<u>(Cont) FILLING</u>				
<u>(Cont) EXCAVATION</u>				
Hard Core Filling with 6F2 capping material or equally approved SR21 'T0 Struc'; depositing and compacting in layers 150mm maximum thickness; all as per Engineers Drawings and Specification and installed to Manufacturers Recommendations				
A	Filling; average thickness exceeding 250mm deep - Generally to make up levels	150	m3	
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<u>(10) PREPARED SITE (Cont)</u> COLLECTION Page No. 1/1 Page No. 1/2 Page No. 1/3 Page No. 1/4 Page No. 1/5 (10) PREPARED SITE Carried to Summary				
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<u>(20) SITE STRUCTURES</u>				
<u>PLANTER / BENCH; All as per Architects drawings 2507/08, Planter / Bench Detail and specification</u>				
Excavation				
<u>Excavating foundation trenches; starting from reduced level</u>				
A	not exceeding 1 m deep	10	m3	
<u>Disposal of excavated material;</u>				
B	Off site	10	m3	
<u>Disposal of water</u>				
C	Ground	1	Item	
D	Surface	1	Item	
<u>Surface treatments</u>				
E	Compacting bottom of excavations	17	m2	
<u>Filling; hardcore ; imported to excavations; average thickness</u>				
F	Exceeding 0.25m	4	m3	
<u>Surface treatments</u>				
G	Blinding filling with sand; 50mm thick	17	m2	
Concrete Work				
<u>PLAIN CONCRETE TO BS8500 & IS EN 206, GRADE 20</u>				
Blinding				
H	generally; poured on or against earth or unblinded hardcore	1	m3	
<u>REINFORCED CONCRETE TO BS8500 & IS EN 206, GRADE 35</u>				
Foundations				
J	generally	5	m3	
<u>REINFORCEMENT</u>				

(20) SITE STRUCTURES (Cont)				
(Cont) PLANTER / BENCH; All as per Architects drawings 2507/08, Planter / Bench Detail and specification (Cont) Concrete Work (Cont) REINFORCEMENT Reinforcement bars; Hot rolled plain round mild steel; all in compliance with BS EN 10138 and BS 4449:2005 and 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 bending schedules, drawings and Specification Section 5: <i>Fabric; reference A393; 300mm side laps, 400mm end laps</i>				
A	Horizontal; in foundations (top and bottom)	17	m2	
FORMWORK Formwork; fair face finish to concrete; Class F1 finish; rough finish to comply with EN 1992-1-1:2004; all in strict accordance with the Engineers Specification Section 5 <i>Sides of foundations; foundations</i>				
B	250mm - 500mm	44	m	
<u>Precast Concrete vandal proof Capping to Match Existing Walls; to be approved by architect; all in accordance with Architect's Drawings and Specification and Installed to Manufacturers Instructions</u>				
C	Capping to blockwork walls; Vandal Proof capping; 250mm - 300mm; built on top of blockwork including all preparation	32	m	
D	<u>extra over</u> for cutting to corners	24	nr	
Brickwork / Blockwork				
Sub Bill 5 - Site Development Works		To Collection €		
6 No. Housing Units for Donegal CoCo		2/2		
at An Glasan, (phase 2), Kilcar				

<u>(20) SITE STRUCTURES (Cont)</u>				
<u>(Cont) PLANTER / BENCH; All as per Architects drawings 2507/08, Planter / Bench Detail and specification</u>				
<u>(Cont) Brickwork / Blockwork</u>				
Solid blockwork to BS EN 771-3; standard concrete block; minimum compressive strength of 13N/mm ² ; dense aggregate to B.S. 6073 - 1; 440mm x 215mm x 100mm units; engineering bricks to BS EN 771-1 as necessary in forming leafs, blocks to category 2 freeze/thaw resistance, 0.2 W/mK thermal resistance and to achieve an air tightness of less than 3m ³ (h.m ²) at 50 Pa as tested by BSRIA; bedding and jointing in cement:lime:sand mortar (1:1:6) to BS 998-2 as Architects Specification; galvanised steel joint reinforcement; half lap stretcher bond; 10mm bucket handle joints as work proceeds; all blockwork shall comply with the requirements of BS 8000-3:2001; all in accordance with Engineers Specification Section 8 and Architect's Specification:				
Walls in trenches;				
A	Thickness 300mm	10	m ²	
B	<u>extra over</u> for weep holes though blockwork in trenches to allow for drainage of sub grade	1	Item	
Solid brickwork to BS EN 771-3; standard concrete brick; minimum compressive strength of 13N/mm ² ; dense aggregate to B.S. 6073 - 1; 215mm x 102.5mm x 65mm high Castellana facing brick units; engineering bricks to BS EN 771-1 as necessary in forming leafs, bricks to category 2 freeze/thaw resistance; bedding and jointing in cement:lime:sand mortar (1:1:6) to BS 998-2 as Architects Specification; laid half lap stretcher bond; 10mm bucket handle joints as work proceeds; all brickwork shall comply with the requirements of BS 8000-3:2001; all in accordance with Engineers Specification and Architect's Specification:				
Walls to Planters				
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		2/3	To Collection €	

<u>(20) SITE STRUCTURES (Cont)</u>				
<u>(Cont) PLANTER / BENCH; All as per Architects drawings 2507/08, Planter / Bench Detail and specification</u>				
<u>(Cont) Brickwork / Blockwork</u>				
<u>(Cont) Solid brickwork to BS EN 771-3; standard concrete brick; minimum compressive strength of 13N/mm2; dense aggregate to B.S. 6073 - 1;...</u>				
<u>(Cont) Walls to Planters</u>				
A	Thickness 215mm	35	m2	
B	<u>extra over</u> for fair arrises	20	m	
C	Damproofing layer to be provided to inside of brick walling	30	m2	
WoodWork				
<u>Timber seating to two sides of each planter</u>				
D	Seating: Seats made of 6 no. planks, 105 x 35mm, recycled timber effect composite seating to be solid core, coloured throughout - See Spec Q50-262, mechanically fixed to brickwork at 300mm centres, plank seating board fixed to timber battens, mechanically fixed to brickwork; allow 3 coats wood stain to battens and seating planks;	8	m	
E	IN NUMBER LOCATIONS	3	nr	
Grassing and Planting				
<u>Landscaping Play Areas, Lawns & Embankments</u>				
Imported Topsoil;				
F	Preserved; finished depth 700mm as brick planter, include levelling, grading and preparing surfaces; All as per Architects drawings 2507/08, Planter / Bench Detail and specification	3	m3	
<u>Planting / Shrubs</u>				

(20) SITE STRUCTURES (Cont)				
<u>(Cont) PLANTER / BENCH; All as per Architects drawings 2507/08, Planter / Bench Detail and specification</u>				
<u>(Cont) Grassing and Planting</u>				
<u>(Cont) Planting / Shrubs</u>				
A To planters;150mm composted bark fines; 400-600mm deep intensive substrate lightweight growing material; Free draining weed mat to be provided with between top soil and stone. All as per Architects drawings 2507/08, Planter / Bench Detail and specification	6	nr		
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar	2/5		To Collection €	

<u>(20) SITE STRUCTURES (Cont)</u> COLLECTION Page No. 2/1 Page No. 2/2 Page No. 2/3 Page No. 2/4 Page No. 2/5 (20) SITE STRUCTURES Carried to Summary				
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar	2/6			

	<u>(30) SITE ENCLOSURES</u> <u>BOUNDARY TREATMENT 5: 1.8m high Close Boarded Timber Fence</u> Close Boarded Timber fence; hardwood pressure treated with three coats Sadoline, external finish; comprising 125 x 125mm precast concrete posts at 1800mm centres, fixed into ground 1000mm below ground level; encased in concrete 400 x 400 x 1000mm deep, include for all necessary excavations and disposal off site; 75 x 44mm horizontal splayed trimmers bolted to posts in three rows, 125 x 20mm square vertical boards one side only; fence boards finished with 3 coats preservative stain finish; All as per architects drawings 2507/06 & 2507/07 & 2507/02 and Architects Specification Q40/332 A 2.0 metres height COMPOSITE ITEM; GATES			
		22	m	
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		3/1	To Collection €	

	<u>(30) SITE ENCLOSURES (Cont)</u> <u>(Cont) BOUNDARY TREATMENT 5: 1.8m high Close Boarded Timber Fence</u> <u>(Cont) COMPOSITE ITEM; GATES</u> Metal double gates (G3); 1772mm high; galvanised 60x60x3mm SHS box iron gate frame comprising top, mid, bottom and side rails with diagonal bracing; infilled with polyester powder coated galvanised steel mesh panelling (similar to Fencing at Boundary 5), with proprietary fixings to frame: inclusive of ironmongery as detailed, including crash plate (refer to note 15(e)), including shooting bolt locking mechanism system with padlock; 2 nr hinges, per gate fixed to and including 150 x 150mm x 3mm SHS support post, fixed into ground 700mm below ground level; encased in min grade C30/37 concrete foundation 900 x 900 x 600mm deep, include for all necessary excavations and disposal off site; galvanised steel striker plate bolted to frame; with and including 2 no. 20mm diameter drop bolts, with socket receivers set into and including concrete base, encased in concrete 300 x 300 x 300mm deep, include for all necessary excavations and disposal off site; refer to detail G3; Gates finished with 3 coats preservative stain finish to match adjacent fence - Rear Boundary Gate on Architects drawing 2508/08 and specification Q50/110 & Q50/140 A Gates; double leaf gates; overall 5069mm wide x 1772mm high <u>BOUNDARY TREATMENT 7: 1.2m high Close Boarded Timber Fence</u> <u>NOTE To Contractor Regarding Invasive Japanese Knotweed in area of Boundary Treatment 7</u>	1	nr		
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		3/2		To Collection €	

<u>(30) SITE ENCLOSURES (Cont)</u>				
<u>(Cont) BOUNDARY TREATMENT 7: 1.2m high Close Boarded Timber Fence</u> <u>(Cont) NOTE To Contractor Regarding Invasive Japanese Knotweed in area of Boundary Treatment 7</u>				
A	Contractor to note presence of invasive species in close proximity to the site and exclusion area as detailed on architectural drawings 2507/01 and 2507/02. Treatment of invasive species is ongoing by Donegal County Council. BT07 Permanent timber fence will be required to be installed by the contractor at commencement stage during initial site set up. The installation of this permanent boundary fence, to include any excavation, stripping back and foundations will be required to be overseen and supervised by an Ecological Clerk of Works (provided by Donegal County Council). The Ecological Clerk of Works will advise and supervise, where required, the installation of a root barrier membrane to physically segregate impacted land. Contractor to note that the Ecological Clerk of works will provide a works report and completion certificate for the installation. When tendering, Contractor to ensure they take account of the requirement to engagement and co-ordination with the ECoW. On completion of root barrier and boundary fence installation, contractor to ensure that the boundary fence is protected and that no services breach the root barrier during the works.' EXCAVATION & EARTHWORK <u>EXCAVATION</u> Excavating trenches to receive root barrier membranes; starting from site levels at northern boundary	1	Item	
B	trenches; depth 2.00m - 2.50m Disposal	132	m3	
C	excavated material off site	132	m3	
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				To Collection €

(30) SITE ENCLOSURES (Cont)				
(Cont) BOUNDARY TREATMENT 7: 1.2m high Close Boarded Timber Fence (Cont) EXCAVATION & EARTHWORK (Cont) EXCAVATION				
Backfilling with Hardcore stone sub-base; depositing and compacting in layers 150mm maximum thickness; including rolling and preparing formation level to falls; all in accordance with Engineer's Drawings and Specification and installed to Manufacturers Recommendations				
A	Filling; to excavations; average thickness not exceeding 250mm Supply and installation of Root Barrier Membrane System, Dendro Scott Root Barrier System, by Peter Scott Treecare, 30 Ravensbury Avenue, Morden, Surrey, SM4 6ET, sales@rootbarrier.com or equivalent	132	m3	
B	Supply an install Root Barrier Membrane to a depth of 2.2 metres, to trench, include all jointing, glueing etc. all in accordance with manufacturers written instructions, laid vertically in trench to face of excavation prior to backfilling; include all protections and temporary supports Close Boarded Timber fence; hardwood pressure treated with three coats Sadoline, external finish; comprising 125 x 125mm precast concrete posts at 1800mm centres, fixed into ground 1000mm below ground level; encased in concrete 400 x 400 x 1000mm deep, include for all necessary excavations and disposal off site; 75 x 44mm horizontal splayed trimmers bolted to posts in three rows, 125 x 20mm square vertical boards one side only; fence boards finished with 3 coats preservative stain finish; All as per architects drawings 2507/06 & 2507/07 & 2507/02 and Architects Specification Q40/332	75	m	
C	1.2 metres height COMPOSITE ITEM; GATES	75	m	
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		3/4	To Collection €	

<u>(30) SITE ENCLOSURES (Cont)</u>				
<u>(Cont) BOUNDARY TREATMENT 7: 1.2m high Close Boarded Timber Fence</u> <u>(Cont) COMPOSITE ITEM; GATES</u> Metal double gates (G4); 1200mm high; galvanised 60x60x3mm SHS box iron gate frame comprising top, mid, bottom and side rails with diagonal bracing; infilled with polyester powder coated galvanised steel mesh panelling, with proprietary fixings to frame: inclusive of ironmongery as detailed, including crash plate (refer to note 15(e)), including shooting bolt locking mechanism system with padlock; 2 nr hinges, per gate fixed to and including 150 x 150mm x 3mm SHS support post, fixed into ground 700mm below ground level; encased in min grade C30/37 concrete foundation 900 x 900 x 600mm deep, include for all necessary excavations and disposal off site; galvanised steel striker plate bolted to frame; with and including 2 no. 20mm diameter drop bolts, with socket receivers set into and including concrete base, encased in concrete 300 x 300 x 300mm deep, include for all necessary excavations and disposal off site; refer to detail G4; Gates finished with 3 coats preservative stain finish to match adjacent fence - Rear Boundary Gate on Architects drawing 2507/08 and specification Q50/110 & Q50/140				
A	Gates; double leaf gates; overall 4000mm wide x 1200mm high	1	nr	
<u>BOUNDARY TREATMENT 8: 1100mm High Dry Stone Wall Boundary</u> 1100mm High Dry Stone wall boundary to be rebuilt along line of existing stone wall. Stone from existing wall to be reused and supplemented with stone excavated from the site.; All as per architects drawings 2507/02 & 2507/06 & 2507/07 and Architects Specification				
B	1.1 metres height	59	m	
<u>WORKS TO EXISTING RENDERED BLOCK WALL BEING RETAINED</u>				
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		3/5	To Collection €	

<u>(30) SITE ENCLOSURES (Cont)</u> COLLECTION Page No. 3/1 Page No. 3/2 Page No. 3/3 Page No. 3/4 Page No. 3/5 Page No. 3/6 (30) SITE ENCLOSURES Carried to Summary				
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar	3/7			

<u>(40) ROADS, PATHS, PAVINGS</u>				
<u>DEMOLITIONS AND ALTERATIONS</u>				
ALTERATIONS				
Existing road and footpath surface to be demolished / milled and resurfaced to suit new levels; including all saw cutting and breaking up of existing surfaces as required; including any edge restraints, kerbing or the like; including all preparation and compaction of existing build-ups to be retained as required and leave ready for road build-up; make good all adjoining abutments, finishes and drainage disturbed; disposal of material off site; making good all finishes and structure on completion, all as per Engineers Tender Information				
A	Existing Road; scabble back and remove existing road surface	109	m2	
B	Existing Footpath; scabble back and remove existing footpath	24	m2	
<u>EXCAVATIONS & EARTHWORKS; Excavations</u>				
Excavate trenches not exceeding 300mm wide to receive kerb foundations / drainage channels starting from reduced level				
C	average 250mm total depth	59	m3	
Bottom of excavation				
D	grade to falls and compact	253	m2	
Excavated material				
E	remove from site	59	m3	
<u>FILLING</u>				
Filling; Granular Material, Hardcore Clause 808 stone sub-base; depositing and compacting in layers 150mm maximum thickness; including rolling and preparing formation level to falls; all in accordance with Engineer's Drawings and Specification				
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		4/1	To Collection €	

<u>(40) ROADS, PATHS, PAVINGS (Cont)</u>				
<u>(Cont) FILLING</u>				
(Cont) Filling; Granular Material, Hardcore Clause 808 stone sub-base; depositing and compacting in layers 150mm maximum thickness; including rolling...				
A	Filling; to make up levels; 225mm thick; as per Engineers Drawing 1966/T01/111; to roadways	364	m3	
B	Filling; to make up levels; 150mm thick; as per Engineers Drawing 1966/T01/111; to footpaths	38	m3	
Filling; Class 2 Fill Material to Appendix 6/1 TII specification for roadworks, to sub-base layer, all as Engineers specification; Clause 804; CBR 2.0% - 5.0%; deposited and compacted in minimum 150mm layers as NRA Specification for Road Works, clauses 801.3 & 802; mechanical compaction; all in strict accordance with the Engineer's Specification				
C	hardcore filling deposited and compacted in layers as described; making up levels on site not exceeding 200mm thick; as per Engineers Drawing 1966/T01/111; to footpaths	205	m3	
D	lay HDPE impermeable geo membrane in between hardcore and sub base layers	1024	m2	
E	lay terram 1000 T Fabric in between hardcore and sub base layers	1024	m2	
Filling; 65mm crushed stone to sub-base layer as Engineers specification and in accordance with Table 8/6 NRA 'NRA Specification for Road Works' Series 800; Clause 804; CBR 2.0% - 5.0%; deposited and compacted in minimum 150mm layers as NRA Specification for Road Works, clauses 801.3 & 802; mechanical compaction; all in strict accordance with the Engineer's Specification				
F	surface of hardcore filling; sand blind and compact to receive hardcore bed deposited and compacted in layers as described;	1024	m2	
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		4/2	To Collection €	

<u>(40) ROADS, PATHS, PAVINGS (Cont)</u>				
<u>(Cont) FILLING</u>				
(Cont) Filling; 65mm crushed stone to sub-base layer as Engineers specification and in accordance with Table 8/6 NRA 'NRA Specification for Road Works' Series...				
A	hardcore beds as described; 150mm thick graded to falls, blinded and compacted to receive concrete / tarmac in footpaths	251	m2	
B	Clause 804 sub-base material to beds as described; 150mm thick graded to falls, blinded and compacted to receive tarmacadam	773	m2	
Filling; Capping layer 6F2 to table 6/1 TII specification for roadworks, to sub-base layer, all as Engineers specification; Clause 804; CBR 2.0% - 5.0 %; deposited and compacted in minimum 150mm layers as NRA Specification for Road Works, clauses 801.3 & 802; mechanical compaction; all in strict accordance with the Engineer's Specification				
C	hardcore filling deposited and compacted in layers as described; making up levels on site not exceeding 300mm thick; as per Engineers Drawing 1966/P01/026; to roadways and parking bays	116	m3	
<u>SURFACE PAVINGS, FENCING AND LANDSCAPING</u>				
<u>CONCRETE PAVING</u>				
Concrete work generally; plain in-situ concrete (25N/mm2) as described; as per Engineers specification				
D	Surface Treatment 5 - Private Footpaths and Rear Yards; paving laid in alternate bay construction each bay average 10m2; laid on hardcore; tamping; one layer A142 Mesh; wood float; steel trowelled edges; fine brush finish across width; 125mm thick	69	m2	
<u>IN-SITU SURFACE PAVINGS</u>				
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		4/3	To Collection €	

<u>(40) ROADS, PATHS, PAVINGS (Cont)</u>				
<u>(Cont) SURFACE PAVINGS, FENCING AND LANDSCAPING</u>				
<u>(Cont) IN-SITU SURFACE PAVINGS</u>				
AC32 Dense Road Base Course; 40/60; to UGM type A / Ac / Am to TII Specification for roadworks; to BS EN13108-1; including fair joints to other surfaces with approved bitumen binder; working around gullies, manholes, etc; laid according to manufacturers recommendations; as per Engineers Drawing 1966/T01/111 and Specification				
A	Roads; 225mm thick; laid to falls and crossfalls; including fair joints to other surfaces with approved bitumen binder; working around gullies, manholes, service boxes; to roadways / parking bays	773	m2	
AC20 Dense Base Course Binder Course; 40/60; to series 900 Clause 929 Specification for roadworks; include for tack coat to be applied between layers of surfacing; to BS EN13108-1; including fair joints to other surfaces with approved bitumen binder; working around gullies, manholes, etc; laid according to manufacturers recommendations; as per Engineers Drawing 1966/T01/111 and Specification				
B	Roads; 60mm thick; laid to falls and crossfalls; including fair joints to other surfaces with approved bitumen binder; working around gullies, manholes, service boxes; to roadways	773	m2	
SMA10 Surf PMB 65/105-60; Wearing Course Surface Course Close Surf; 40/60; to series 900 Clause 942 TII Specification for roadworks; 10mm nominal size close graded surface course bitumen; include for tack coat to be applied between layers of surfacing; to BS EN13108-1; including fair joints to other surfaces with approved bitumen binder; working around gullies, manholes, etc; laid according to manufacturers recommendations; all as per Engineer's Drawing 1966-T01-111 and Specification				
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		4/4	To Collection €	

<u>(40) ROADS, PATHS, PAVINGS (Cont)</u>				
<u>(Cont) SURFACE PAVINGS, FENCING AND LANDSCAPING</u>				
<u>(Cont) IN-SITU SURFACE PAVINGS</u>				
<u>(Cont) SMA10 Surf PMB 65/105-60; Wearing Course Surface Course Close Surf; 40/60; to series 900 Clause 942 TII Specification for roadworks; 10mm...</u>				
A	Roads; 40mm thick; laid to falls and crossfalls; including fair joints to other surfaces with approved bitumen binder; working around gullies, manholes, service boxes; to roadways	773	m2	
<u>Tying in / Joints between new and existing finishes including all saw cutting, removal and adjustment of kerbs and making good as required all in accordance with clause 920 of the NRA documents, as per Engineers Drawing 1966/P01/026 and Specification</u>				
B	Roads, Sundries; fair joint to existing finishes; traverse joint between new road construction and existing road complete refer Engineers Detail 'typical detail at junction of existing and new road'; cutting back into existing road construction; include new wearing course; binder course and base course; sub base; capping layer; stepped into the existing road; disposal of existing excavated material off site; and making good with bitumen sealer upon completion	7	m	
<u>Flexible surface; ; 70/100; to clause 1105 TII Specification for roadworks; include for tack coat to be applied between layers of surfacing; to BS EN13108-1; including fair joints to other surfaces with approved bitumen binder; working around gullies, manholes, etc; laid according to manufacturers recommendations; as per Engineers Drawing 1966/T01/111 and Specification</u>				
C	Roads; 50mm thick; laid to falls and crossfalls; including fair joints to other surfaces with approved bitumen binder; working around gullies, manholes, service boxes; to footpaths	182	m2	
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		4/5	To Collection €	

<u>(40) ROADS, PATHS, PAVINGS (Cont)</u>				
<u>(Cont) SURFACE PAVINGS, FENCING AND LANDSCAPING</u>				
<u>(Cont) IN-SITU SURFACE PAVINGS</u>				
SMA10 Surf PMB 65/105-60; Wearing Course Surface Course Close Surf; 70/100; to series 900 Clause 3.1.5 TII Specification for roadworks; 14m nominal size close graded surface course bitumen; include for tack coat to be applied between layers of surfacing; to BS EN13108-1; including fair joints to other surfaces with approved bitumen binder; working around gullies, manholes, etc; laid according to manufacturers recommendations; all as per Engineer's Drawing 1966-T01-111 and Specification				
A	Roads; 50mm thick; laid to falls and crossfalls; including fair joints to other surfaces with approved bitumen binder; working around gullies, manholes, service boxes; to footpaths	182	m2	
Raised Table / Pedestrian crossing on main road; include for all excavation, disposal, saw cutting and install new raised table road surfacing to engineers detail and specification include for all making good and tying in between new and existing finishes; build-up comprising 40mm - 120mm thick HRA 35/14 F surf 40/60 DES to to IS EN13108-4; including red chippings throughout HRA to IS EN 13108-4 ; on and including 60mm AC20 dense base course binder course to IS13108-1; on and including 250mm thick clause 808 formed to ramp levels; laid and compacted in accordance with specification for roads; all in accordance with Engineer's Drawings and Specification and installed to Manufacturers Recommendations				
B	Raised table / ramp; overall size circa 5000mm x 6000mm; including all required build-ups, surface finishes and joints between surfaces as required; refer Engineers Details on Drawing 1966-T01-111	1	Nr	
PREFORMED PAVING AND EDGING UNITS				
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<u>(40) ROADS, PATHS, PAVINGS (Cont)</u>				
<u>(Cont) SURFACE PAVINGS, FENCING AND LANDSCAPING</u>				
<u>(Cont) PREFORMED PAVING AND EDGING UNITS</u>				
Precast concrete kerbs; 125mm x 250mm high Half Battered kerb; include preformed corners, neatly jointed and sawn cut where necessary to achieve required radii to new road; including concrete bedding and haunching, setting and pointing; laid on foundation base min 200mm x 400mm; including for concrete, formwork, excavation and disposal of surplus material off site; all as per Engineers details and specification complete				
A	Kerbs; overall size 250mm high x 125mm wide; upstand between 100mm - 150mm; straight (Typical) refer Engineers Details on Drawing 1966-T01-111	216	m	
B	Kerbs; overall size 250mm high x 125mm wide; upstand between 100mm - 150mm; curved (Typical) refer Engineers Details on Drawing 1966-T01-111	62	m	
C	Extra over for forming drop to kerb; upstand max 25mm; straight (Typical) refer Engineers Details on Drawing 1966-T01-111	16	m	
Precast concrete kerbs; Pin kerb 200mm high x 50mm wide; include neatly jointed and sawn cut where necessary to achieve required radii to carpark; including concrete bedding and haunching, setting and pointing; laid on foundation base 200mm x 200mm; including for concrete, formwork, excavation and disposal of surplus material off site; all as per Engineers details and specification complete				
D	Kerbs; overall size 200mm high x 50mm wide; finish level with public footpath; straight (Typical) refer Engineers Details on Drawing 1966-T01-111	21	m	
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<u>(40) ROADS, PATHS, PAVINGS (Cont)</u>				
<u>(Cont) SURFACE PAVINGS, FENCING AND LANDSCAPING</u>				
<u>(Cont) PREFORMED PAVING AND EDGING UNITS</u>				
Tactile paving flags; to BS EN 7997, DD CEN/TS 15209 and to IS EN 1338:2003; Kilsaran 400 x 400 x 50mm "Buff Corduroy Tactile Blister Flags" by Kilsaran, Tobermore, Marshalls or equivalent approved; 400 x 400 x 50mm thick flags; 20% recycled content; buff colour; laid in accordance with the drawings; on and including full mortar bed, 50mm thick, to concrete backgrounds; dry mortar joints; all as per the manufacturers recommendations; in accordance with the Engineers Specification and in accordance with the Architects Specification Q25-320 Type A				
A	Pavings; 50 mm thick laid to falls	9	m2	
<u>LINE MARKING</u>				
Thermoplastic road marking paint or similar approved; reflectorised thermoplastic paint; to HRA base; in accordance with Traffic Signs Manual; all in accordance with Engineer's Drawing and Specification				
<u>Line Marking</u>				
B	Car Parking space dividing line, dotted line 100mm wide	32	m	
C	Dividing line, solid line 100mm wide; as per Engineers / Architects Drawing	85	m	
D	Disabled persons parking bay; Symbols Part M as per Engineers / Architects Drawing	3	nr	
E	Disabled Parking Bay; Symbol 1000mm high; incorporated within and including chevron border area and coloured parking bay 6.0 x 5.0 metre, colour blue to Engineers detail	3	nr	
F	EV Charging Symbol and Lettering; 1000mm high; incorporated within coloured parking bay 5.0 x 3.0 metre, colour green to Engineers detail	1	nr	
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		To Collection €		

<u>(40) ROADS, PATHS, PAVINGS (Cont)</u> <u>(Cont) LINE MARKING</u> (Cont) Thermoplastic road marking paint or similar approved; reflectorised thermoplastic paint; to HRA base; in accordance with Traffic Signs Manual;... <u>(Cont) Line Marking</u> A Stop Road Marking; "SLOW" as per Engineers / Architects Drawing	1	nr		
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(40) ROADS, PATHS, PAVINGS (Cont)

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

(50) SITE SERVICES (MAINLY PIPED AND DUCTED)

<u>(50) SITE SERVICES (MAINLY PIPED AND DUCTED)</u>				
<u>DRAINAGE - EXISTING FOUL WATER (WORKS TO EXISTING DRAINAGE)</u>				
EXISTING FOUL WATER PIPEWORK				
A	Section of existing foul drainage pipework to be decommissioned and grubbed up and removed from site	36	m	
EXISTING FOUL WATER MANHOLES;				
B	Existing foul drainage manholes to be decommissioned and grubbed up and removed from site	2	nr	
C	<u>Extra over</u> for manholes in footprint of proposed extension to be filled with lean mix concrete	2	nr	
<u>DRAINAGE - FOUL WATER (INCLUDING UNDER SLAB)</u>				
DRAINAGE BELOW GROUND				
<u>Excavating trenches to receive pipes; grading bottoms; filling in over bed with Clause 804; earthwork support; disposing of surplus excavated material to be kept on-site for re-use; including 400mm wide marker tape; including all double handling as required; all as per Engineers details and specification</u>				
Pipes not exceeding 250mm nominal diameter; MAIN RUNS WITHIN NEW ROADS / FOOTPATHS				
D	average depth; 1.00m - 1.50m (Main Runs); 150mm diameter pipework	81	m	
Pipes not exceeding 250mm nominal diameter; SECONDARY RUNS				
E	average depth; 1.00m - 1.50m (Secondary Runs from IC to Manholes / Main Runs); 150mm diameter pipework	65	m	
<u>Disposal</u>				
F	Surface water; keeping the surface of the site and excavations free of general water	1	Item	

(50) SITE SERVICES (MAINLY PIPED AND DUCTED)

(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
<u>(Cont) DRAINAGE - FOUL WATER (INCLUDING UNDER SLAB)</u> <u>(Cont) DRAINAGE BELOW GROUND</u> <u>(Cont) Disposal</u>				
A	Ground water; keeping the excavations free of ground water	1	Item	
<u>BEDS & SURROUNDS</u> Pipe bedding shall comply WIS 4-08-02 and IGN 4-08-01 granular material shall be 14mm to 5mm graded aggregate or 10mm single size aggregate to IS EN 12620; gravel fill to bed and surround; in accordance with the Engineers Drawings and specifications				
B	Beds and surrounds; 150mm diameter; refer to details on Engineers drawing	146	m	
<u>PIPEWORK</u> Drains; uPVC SN8 pipes; spigot and socket jointed; all in accordance with Engineers specification				
C	Pipes; 150mm diameter; laid in trenches (Main Runs)	81	m	
D	Pipes; 150mm diameter; laid in trenches (Secondary Runs from IC to Manholes / Main Runs)	65	m	
E	<u>Extra over</u> for bends, capping ends, tees, junctions etc; complete	1	Item	
F	<u>Extra over</u> for connecting into existing foul water main line as per Engineers Drawing 1966/T01/120	1	Nr	

(50) SITE SERVICES (MAINLY PIPED AND DUCTED)

(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
<u>(Cont) DRAINAGE - FOUL WATER (INCLUDING UNDER SLAB)</u> <u>(Cont) DRAINAGE BELOW GROUND</u> <u>(Cont) PIPEWORK</u> Foul Sewer Manholes complete, CONSTRUCTED ON LIVE SEWER LINE; all in accordance with Engineer's drawings and specification; including mass concrete base, 75mm thick lean mix blinding grade C12/15; blockwork / In Situ Concrete / Precast Concrete construction, benching and pipe channel pipe surround, sand cement mortar with smooth trowel finish, galvanised rungs, 225mm thick reinforced concrete roof slab incorporating a 675mm diameter ope in roof slab; 675mm diameter manhole cover and frame to I.S. E.N 124 and BA 7903; Class D400 covers; bedded in cement mortar bed and frames haunched over side with cement mortar; including 1 to 3 courses of solid engineering bricks set in C50/60 cement and mortar; lifting keys; forming all necessary pipe entry opes in walls; include for all excavation and earthwork support, excavation below water table level, formwork, working space, disposing of surplus excavated material to be kept on-site for re-use; including all double handling as required, etc. complete as per Engineers Specification and Details				
A	Manholes; internal size 1200 diameter; 1000mm - 1500mm deep; include all labour and material in forming opening in existing foul sewer line below ground level, include excavating close to existing live sewer, connection works, new pipework sleeve through new manhole wall and all additional labour and material in forming new benching to form new layout, include all making good to existing sewer line and new manhole walls on completion; refer typical details on Engineers Drawing; Manhole F1	1	nr	
B	<u>Extra over</u> for all additional labour and material in keeping existing live sewer operational at all times	1	nr	

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(50) SITE SERVICES (MAINLY PIPED AND DUCTED)

(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
(Cont) DRAINAGE - FOUL WATER (INCLUDING UNDER SLAB) (Cont) DRAINAGE BELOW GROUND (Cont) PIPEWORK (Cont) Foul Sewer Manholes complete, CONSTRUCTED ON LIVE SEWER LINE; all in accordance with Engineer's drawings and specification; including mass...				
A	Manholes; internal size 1200 diameter; 1500mm - 2000mm deep; include all labour and material in forming opening in existing foul sewer line below ground level, include excavating close to existing live sewer, connection works, new pipework sleeve through new manhole wall and all additional labour and material in forming new benching to form new layout, include all making good to existing sewer line and new manhole walls on completion; refer typical details on Engineers Drawing; Manhole F4	1	nr	
B	Extra over for all additional labour and material in keeping existing live sewer operational at all times Foul Sewer Manholes complete; all in accordance with Engineer's drawings and specification; including mass concrete base, 75mm thick lean mix blinding grade C12/15; blockwork / In Situ Concrete / Precast Concrete construction, benching and pipe channel pipe surround, sand cement mortar with smooth trowel finish, galvanised rungs, 225mm thick reinforced concrete roof slab incorporating a 675mm diameter ope in roof slab; 675mm diameter manhole cover and frame to I.S. E.N 124 and BA 7903; Class D400 covers; bedded in cement mortar bed and frames haunched over side with cement mortar; including 1 to 3 courses of solid engineering bricks set in C50/60 cement and mortar; lifting keys; forming all necessary pipe entry opes in walls; include for all excavation and earthwork support, excavation below water table level, formwork, working space, disposing of surplus excavated material to be kept on-site for re-use; including all double handling as required, etc. complete as per Engineers Specification and Details	1	nr	
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(50) SITE SERVICES (MAINLY PIPED AND DUCTED)

<u>(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)</u>				
<u>(Cont) DRAINAGE - FOUL WATER (INCLUDING UNDER SLAB)</u>				
<u>(Cont) DRAINAGE BELOW GROUND</u>				
<u>(Cont) PIPEWORK</u>				
(Cont) Foul Sewer Manholes complete; all in accordance with Engineer's drawings and specification; including mass concrete base, 75mm thick lean...				
A	Manholes; internal size 1200 diameter; 500mm - 1000mm deep; refer typical details on Engineers Drawing Manhole F3	1	nr	
B	Manholes; internal size 1200 diameter; 1000mm - 1500mm deep; refer typical details on Engineers Drawing Manhole F2	1	nr	
Locate existing live foul water sewer; make new connection in existing foul water spur including all pipe fittings and accessories as required; break out openings in existing manhole for connecting new pipe including making good existing manhole on completion including all works in accordance with County Council requirements; include for any necessary bypass pumping and any associated works with rock excavation; make good existing manhole on completion including full reinstatement of surface finishes and build up including all tying in details on completion to National Roads Authority (NRA) Specification including road licence closures and working out of normal working hours if required; working space and earthwork support including all temporary propping as required; complete as per Engineers Details				
C	Connecting to existing foul water manhole ; connection to existing foul water spur; depth 1.50 - 2.00 (2 Nr. Location)	2	nr	
<u>DRAINAGE - SURFACE WATER (INCLUDING UNDER SLAB)</u>				
<u>DRAINAGE BELOW GROUND</u>				

(50) SITE SERVICES (MAINLY PIPED AND DUCTED)

(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
(Cont) DRAINAGE - SURFACE WATER (INCLUDING UNDER SLAB) (Cont) DRAINAGE BELOW GROUND				
Excavating trenches to receive pipes; grading bottoms; filling in over bed with Clause 804; earthwork support; disposing of surplus excavated material to be kept on-site for re-use; including 400mm wide marker tape; including all double handling as required; all as per Engineers details and specification				
Pipes not exceeding 250mm nominal diameter; MAIN RUNS WITHIN NEW ROADS / FOOTPATHS / GREEN AREAS				
A	average depth; 1.50m - 2.00m; (Main Runs) ; 225mm diameter pipework;	40	m	
Pipes not exceeding 250mm nominal diameter; SECONDARY RUNS				
B	average depth; 1.00m - 1.50m (Secondary Runs from IC to Manholes / Main Runs); 150mm diameter pipework	60	m	
C	average depth; 1.00m - 1.50m (Secondary Runs from Road Gullies to Manholes / Main Runs); 150mm diameter pipework	129	m	
<u>Disposal</u>				
D	Surface water; keeping the surface of the site and excavations free of general water	1	Item	
E	Ground water; keeping the excavations free of ground water	1	Item	
<u>BEDS & SURROUNDS</u>				
Pipe bedding shall comply WIS 4-08-02 and IGN 4-08-01 granular material shall be 14mm to 5mm graded aggregate or 10mm single size aggregate to IS EN 12620; gravel fill to bed and surround; in accordance with the Engineers Drawings and specifications				
F	bed and surround; 225mm diameter; refer to details on Engineers drawing (Main Runs)	40	m	
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(50) SITE SERVICES (MAINLY PIPED AND DUCTED)

(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
(Cont) DRAINAGE - SURFACE WATER (INCLUDING UNDER SLAB) (Cont) DRAINAGE BELOW GROUND (Cont) BEDS & SURROUNDS (Cont) Pipe bedding shall comply WIS 4-08-02 and IGN 4-08-01 granular material shall be 14mm to 5mm graded aggregate or 10mm single size aggregate to IS EN...				
A	bed and surround; 150mm diameter; refer to details on Engineers drawing (Secondary Run to Main Run from IC's)	60	m	
B	bed and surround; 150mm diameter; refer to details on Engineers drawing (Secondary Runs to Gullies)	129	m	
C	<u>extra over</u> for all additional labour and material in exposing existing 225mm diameter pvc storm pipework, approx 1.5 metres deep, include for working space, temporary supports, breaking into existing pipework; supplying and inserting 225 x 225 x 150mm branch and connection to new and existing pipework; include all backfilling, disposal of surplus material. and making good on completion	2	nr	
D	<u>extra over</u> for all additional labour and material in exposing existing manhole (existing storm manhole S2), approx 1.5 metres deep, include for working space, temporary supports, breaking into existing manhole; all working in re-benching manhole to suit new layout with new connection; include all backfilling, disposal of surplus material. and making good on completion	1	nr	
<u>PIPEWORK</u> Drains; uPVC SN8 pipes; spigot and socket jointed; all in accordance with Engineers specification				
E	Pipes; 150mm diameter; laid in trenches	40	m	
F	Pipes; 225mm diameter; laid in trenches	189	m	
G	<u>Extra over</u> for; bends, capping ends, tees, junctions etc; complete	1	Item	

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(50) SITE SERVICES (MAINLY PIPED AND DUCTED)

(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
(Cont) DRAINAGE - SURFACE WATER (INCLUDING UNDER SLAB) (Cont) DRAINAGE BELOW GROUND (Cont) PIPEWORK Road Gullies complete; including cast iron cover and frame to I.S E.N 124 Class D400; cleaning eye stopper and galvanised chain, brick seating; lockable grating ; including all necessary excavations, disposing of surplus excavated material to be kept on-site for re-use; including all double handling as required, earthwork support, backfilling, concrete surround, formwork, reinforcement, jointing, blockwork, cover slabs, chains, rodding eyes etc.; including proprietary adapter pieces; complete as per Engineers specification and details				
A	Pipe accessories; gullies; include for all ends required to connect gully to pipework; set in position; complete Supply and installation of "Premiertech" or similar of equal approved Conder Bypass NS30 Separator, designed for 1,666m3 of drainage area to EN858, with D400 cover and frame; CONSTRUCTED ON LIVE STORM LINE; including all necessary excavations, disposing of surplus excavated material to be kept on-site for re-use; including all double handling as required, earthwork support, backfilling, leanmix blinding, concrete surround, concrete bed, benching, formwork, reinforcement, vents, joints, rocker pipes, etc. complete as per Engineers Details and Specification and installed to Manufacturers instructions and recommendations	14	nr	
B	"Premiertech CNSB20S/21 Class 1" bypass interceptor, or equivalent, including all associated civil works; complete as per Engineers Drawing 1966/T01/122 & architects Drawing 2507/01	1	nr	
C	<u>Extra over</u> for all additional labour and material in keeping existing live storm operational at all times	1	nr	
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(50) SITE SERVICES (MAINLY PIPED AND DUCTED)

(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
(Cont) DRAINAGE - SURFACE WATER (INCLUDING UNDER SLAB) (Cont) DRAINAGE BELOW GROUND (Cont) PIPEWORK (Cont) Supply and installation of "Premiertech" or similar of equal approved Conder Bypass NS30 Separator, designed for 1,666m ³ of drainage area...				
A	<u>Extra over</u> for provision of; Supply, installation and commissioning of oil alarm system to fit "Premiertech CNSB20S/21 Class 1"; all to BS EN 858-1 and Environmental Agency Pollution Prevention Guideline PPG3 Manholes complete; all in accordance with Engineer's drawings and specification; including mass concrete base, 75mm thick lean mix blinding grade C12/15; blockwork / In Situ Concrete / Precast Concrete construction, benching and pipe channel pipe surround, sand cement mortar with smooth trowel finish, galvanised rungs, 225mm thick reinforced concrete roof slab incorporating a 675mm diameter ope in roof slab; 675mm diameter manhole cover and frame to I.S. E.N 124 and BA 7903; Class D400 covers; bedded in cement mortar bed and frames haunched over side with cement mortar; including 1 to 3 courses of solid engineering bricks set in C50/60 cement and mortar; lifting keys ; forming all necessary pipe entry opes in walls; include for all excavation and earthwork support, excavation below water table level, formwork, working space, disposing of surplus excavated material to be kept on-site for re-use; including all double handling as required, etc. complete as per Engineers Specification and Details	1	nr	
B	Manholes; internal size 1200 diameter; 1000mm - 1500mm deep; refer typical details on Engineers Drawing - Manhole S1	1	nr	
C	Manholes; internal size 1200 diameter; 1500mm - 2000mm deep; refer typical details on Engineers Drawing - Manhole S2	1	nr	
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(50) SITE SERVICES (MAINLY PIPED AND DUCTED)

(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
(Cont) DRAINAGE - SURFACE WATER (INCLUDING UNDER SLAB) (Cont) DRAINAGE BELOW GROUND (Cont) PIPEWORK Storm Manholes complete, CONSTRUCTED ON LIVE STORM LINE; all in accordance with Engineer's drawings and specification; including mass concrete base, 75mm thick lean mix blinding grade C12/15; blockwork / In Situ Concrete / Precast Concrete construction, benching and pipe channel pipe surround, sand cement mortar with smooth trowel finish, galvanised rungs, 225mm thick reinforced concrete roof slab incorporating a 675mm diameter ope in roof slab; 675mm diameter manhole cover and frame to I.S. E.N 124 and BA 7903; Class D400 covers; bedded in cement mortar bed and frames haunched over side with cement mortar; including 1 to 3 courses of solid engineering bricks set in C50/60 cement and mortar; lifting keys ; forming all necessary pipe entry opes in walls; include for all excavation and earthwork support, excavation below water table level, formwork, working space, disposing of surplus excavated material to be kept on-site for re-use; including all double handling as required, etc. complete as per Engineers Specification and Details				
A	Manholes; internal size 1200 diameter; 1000mm - 1500mm deep; include all labour and material in forming opening in existing storm line below ground level, include excavating close to existing live sewer, connection works, new pipework sleeve through new manhole wall and all additional labour and material in forming new benching to form new layout, include all making good to existing storm line and new manhole walls on completion; refer typical details on Engineers Drawing;	1	nr	
B	<u>Extra over</u> for all additional labour and material in keeping existing live storm line operational at all times	1	nr	
C	<u>Extra over</u> for; hyrdo brake to S19; including all works; complete	1	Item	
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(50) SITE SERVICES (MAINLY PIPED AND DUCTED)

(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
(Cont) DRAINAGE - SURFACE WATER (INCLUDING UNDER SLAB) (Cont) DRAINAGE BELOW GROUND (Cont) PIPEWORK (Cont) Storm Manholes complete, CONSTRUCTED ON LIVE STORM LINE; all in accordance with Engineer's drawings and specification; including mass...				
A	Extra over for; flow control manhole discharging at 23.5 L/s; including flow control device, eye brackets, pivoting by pass door, gaskets etc; complete	1	Item	
B	Extra over for; Weir wall fitted to S18a; Including 300mm diameter opening and Non Return Euro TF Flap Valve	1	Item	
<u>DRAINAGE - LANDDRAIN</u> BELOW GROUND <u>Excavating trenches to receive pipes;</u> <u>grading bottoms; earthwork support;</u> <u>disposing of surplus excavated material</u> <u>by removing off site; starting from</u> <u>reduced level; backfilling in with Clause</u> <u>804 in accordance with Engineers</u> <u>specification, compacted in 225mm maximum</u> <u>layers all in accordance to Architects &</u> <u>Engineers Specification; and Architects</u> <u>drawings 2508/01 and 2508/08</u>				
C	Excavating trenches; pipes not exceeding 250mm nominal diameter; average depth; 1.00 - 1.50m; refer Architect detail on drawings 2508/01 and 2508/08	52	m	
<u>Selected Free Draining Material; complete</u> <u>as per Engineer's Specification</u>				
D	Bed and Surround; 500mm wide x 1500mm deep; refer to Architects & Engineers Specification; and Architects drawings 2508/01 and 2508/08	52	m	

(50) SITE SERVICES (MAINLY PIPED AND DUCTED)

(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
(Cont) DRAINAGE - LANDDRAIN				
(Cont) BELOW GROUND				
<u>Geotextile membrane laid strictly in accordance with the manufacturers instructions on blinded base; laid in bottom of trench and wrapped around pipework, girth n.e. 1.0 metre; no allowance in measurement for laps; complete all as per Architect's Drawings and Specification</u>				
A	Damp proofing; vertical and horizontal; exceeding 300mm wide; refer Engineers details and specification	52	m	
<u>Drains; uPVC pipes 'wavin osmadrain'; spigot and socket jointed; all in accordance with Engineers specification.</u>				
B	Pipes; 150mm diameter slotted pipe; laid in trenches	52	m	
C	<u>Extra over</u> pipes on which they occur for; fittings; including bends, tee junctions, swan necks, branches, jetting points/rodding eyes at ends of pipes, connections to down pipes, etc	1	Item	
<u>SITE SERVICES - WATERMAIN</u>				
DRAINAGE BELOW GROUND				
<u>Excavating trenches to receive pipes; grading bottoms; filling in over bed with Clause 804; earthwork support; disposing of surplus excavated material off site; including 400mm wide blue marker tape in accordance with Irish Water specification; all as per Engineer Drawings 1966/P01/021 & 1966/P01/025 and specification</u>				
MAIN RUNS WITHIN NEW ROADS / FOOTPATHS				
D	Pipes not exceeding 150mm nominal diameter; average depth; 1.00 - 1.50m (110mm dia HDPE ID PE100 SDR 17)	141	m	
E	Pipes not exceeding 150mm nominal diameter; average depth; 1.00 - 1.50m (110mm dia HDPE ID PE100 SDR 17 - Washout & Offline Fire Hydrants)	10	m	
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(50) SITE SERVICES (MAINLY PIPED AND DUCTED)

(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
(Cont) SITE SERVICES - WATERMAIN				
(Cont) DRAINAGE BELOW GROUND				
(Cont) Excavating trenches to receive pipes; grading bottoms; filling in over bed with Clause 804; earthwork support; disposing of surplus excavated...				
SECONDARY RUNS TO UNITS				
A	Pipes not exceeding 150mm nominal diameter; average depth; 1.00 - 1.50m (1nr connection pipe 25mm dia ID PE Service Connection Pipe)	15	m	
<u>Disposal</u>				
B	Surface water; keeping the surface of the site and excavations free of general water	1	Item	
C	Ground water; keeping the excavations free of ground water	1	Item	
<u>BEDS & SURROUNDS</u>				
Pipe bedding shall comply WIS 4-08-02 and IGN 4-08-01 granular material shall be 14mm to 5mm graded aggregate or 10mm single size aggregate to IS EN 12620; gravel fill to bed and surround; in accordance with the Engineers Drawings and specifications				
D	bed and surround; 25mm diameter watermain connection pipe; refer irish water standard detail STD-W-03	29	m	
E	bed and surround; 110mm diameter washout and offline fire hydrant connection pipe; refer irish water standard details	10	m	
F	bed and surround; 100mm diameter watermain pipe; refer irish water standard details	127	m	
<u>PIPEWORK</u>				
HDPE pipework; watermain; all as per Engineer's and Irish Water Specification				
G	Pipes; 25mm diameter; watermain connection laid in position	29	m	

(50) SITE SERVICES (MAINLY PIPED AND DUCTED)

(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
(Cont) SITE SERVICES - WATERMAIN				
(Cont) DRAINAGE BELOW GROUND				
<u>(Cont) PIPEWORK</u>				
(Cont) HDPE pipework; watermain; all as per Engineer's and Irish Water Specification				
A	Pipes; 110mm diameter; Washout and Offline Fire Hydrant connection laid in position	10	m	
B	Pipes; 110mm diameter; watermain laid in position	127	m	
C	<u>Extra over</u> for; long radius bends, short radius bends, capping ends, tees, junctions etc; complete	1	Item	
	Chambers and Cast iron pipework fittings and ancillaries; including all necessary excavations, disposal of surplus spoil, earthwork support, backfilling, leanmix blinding, concrete base, concrete slab, formwork, blockwork wall, lintels, reinforcement, frame, cover etc; complete ; all as per Engineers details and Irish Water Specification			
D	Sluice valve chambers; including all connections, bends, valves, gaskets, covers etc; internal size TBC; refer irish water standard detail STD-W-15	2	nr	
E	Air valve chambers; including all connections, bends, valves, gaskets, covers etc; internal size TBC; refer irish water standard detail STD-W-22	1	nr	
F	Dead end chambers; including all connections, bends, valves, gaskets, covers etc; internal size TBC; refer irish water standard detail STD-W-05	1	nr	
G	Fire hydrant chambers; including all connections, bends, valves, gaskets, covers etc; internal size TBC; refer irish water standard detail STD-W-18	1	nr	
H	Offline fire hydrant chambers; including all connections, bends, valves, gaskets, covers etc; internal size TBC; refer irish water standard detail STD-W-19	1	nr	
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(50) SITE SERVICES (MAINLY PIPED AND DUCTED)

(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
(Cont) SITE SERVICES - WATERMAIN				
(Cont) DRAINAGE BELOW GROUND				
<u>(Cont) PIPEWORK</u>				
(Cont) Chambers and Cast iron pipework fittings and ancillaries; including all necessary excavations, disposal of surplus spoil, earthwork...				
A	Washout hydrant chambers; including all connections, bends, valves, gaskets, covers etc; internal size TBC; refer irish water standard detail STD-W-30a	1	nr	
B	Scour chambers; including all connections, bends, valves, gaskets, covers etc; internal size TBC; refer irish water standard detail STD-W-30b	1	nr	
C	Boundary box incorporating G1.5" manifold, stop-tap, frost plug and non return valve; including all connections, gaskets, covers etc; refer irish water standard detail STD-W-03	7	nr	
Marker plates to Hydrants; all characters to be black, remainder of face to be canary yellow to BS381C; as per Engineers drawing				
Precast concrete marker posts indented with "SV", "SCV", "WOH", "AV" or "H"; set in concrete path; 265 x 75mm x 1110mm high overall, 660mm above ground		8	nr	
Thrust blocks; in-situ concrete Grade 20/20N; including all additional excavation, disposal, formwork, DPM etc.; as per Engineers details and Irish Water Specification				
D	Thrust blocks; concrete bed and surround; 100mm diameter; refer irish water standard detail STD-W-28	2	nr	
Anchor blocks; in-situ concrete Grade 20/20N; including all additional excavation, disposal, formwork, DPM etc.; as per Engineers details and Irish Water Specification				
E	Anchor blocks; concrete bed and surround ; refer detail on Engineers Drawing	6	nr	
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(50) SITE SERVICES (MAINLY PIPED AND DUCTED)

(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
(Cont) SITE SERVICES - WATERMAIN (Cont) DRAINAGE BELOW GROUND (Cont) PIPEWORK Locate existing live Water Main; make new connection between new and existing watermain including all pipe fittings and accessories as required; including making good existing on completion including all works in accordance with County Council requirements; including full reinstatement of surface finishes and build up including all tying in details on completion; including road licence closures and working out of normal working hours if required; working space and earthwork support including all temporary propping as required; complete as per Engineers Details CONNECTION TO EXISTING WATERMAIN AT PHASE 1				
A	connection to existing watermain; depth 1.00 - 1.50 (2Nr. Location)	1	Nr	
B	<u>Extra over</u> for; Sluice Valve and Chamber; including all connections, bends, valves, gaskets, flanges etc	1	Nr	
C	<u>Extra over</u> last for all additional costs associated with works outside the boundary including excavating and saw cutting through existing public footpath, kerb and road; full reinstatement of finishes and build up including all tying in details on completion to National Roads Authority (NRA) Specification including road opening / closure licences and working out of normal working hours if required	5	m	
<u>SUNDRIES</u>				
Testing				
D	Test the entire foul water drainage system to the Engineers and local authority's satisfaction as the work proceeds	1	item	

(50) SITE SERVICES (MAINLY PIPED AND DUCTED)

(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)				
(Cont) SUNDRIES				
(Cont) Testing				
A	Test the entire surface water drainage system to the Engineers and local authority's satisfaction as the work proceeds	1	item	
B	Test the entire watermain system to the Engineers and local authority's satisfaction as the work proceeds	1	item	
As Constructed Drawings				
C	On completion of the foul water drainage system "As Constructed Drawings" are to be prepared; 2 nr. copies are to be presented to the Engineer	1	item	
D	On completion of the surface water drainage system "As Constructed Drawings" are to be prepared; 2 nr. copies are to be presented to the Engineer	1	item	
E	On completion of the watermain systems "As Constructed Drawings" are to be prepared; 2 nr. copies are to be presented to the Engineer	1	item	

(50) SITE SERVICES (MAINLY PIPED AND DUCTED) (Cont)**COLLECTION**

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(50) SITE SERVICES (MAINLY PIPED AND DUCTED)
Carried to Summary

(60) SITE SERVICES (MAINLY ELECTRICAL)

<u>(60) SITE SERVICES (MAINLY ELECTRICAL)</u>			
<u>ELECTRICAL INSTALLATION</u>			
Information etc: Work in this element comprises			
A	All descriptions are to be read with the drawings and specification (see separate document) referred to in the Bills of Quantities; All workmanship clauses and those of a general nature are deemed to be included	1	NOTE
Sundries and Builders Work; The Main Contractor shall:			
B	Note that the relevant sub-contractors once appointed are to detail their extract requirements and locations of builder's attendances by the production of detailed and co-ordinated builders work drawings	1	Item
C	Contact the statutory authorities to co-ordinate incoming services and locate all existing underground and overhead services prior to site works	1	Item
D	Provide attendance to all utility services i.e. ESB. Engineer, Eir Engineer, Irish Water Engineer	1	Item
E	Be responsible for co-ordinating all Mechanical and Electrical builders work requirements. This should be done by liaising with these sub-contractors in accordance with their contract program and obtaining 'Marked up, detailed dimensioned drawings from the sub-contractors illustrating exact locations etc and co-ordinating same	1	Item
F	Provide a month by month program detailing the Mechanical and Electrical service activities	1	Item
G	Provide road openings for new statutory connections to the development. Upon connection being made builder to allow for back filling and making good of road	1	Item
H	Provide all necessary yellow uPVC cable marker tape marked 'Caution Electric Cables' at least 120mm wide x 1 mm thick	1	Item
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		To Collection €	

(60) SITE SERVICES (MAINLY ELECTRICAL)

(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)				
(Cont) ELECTRICAL INSTALLATION				
(Cont) Sundries and Builders Work; The Main Contractor shall:				
A	Contractor to mark up all external services for 'AS FITTED' purposes and include 2 No copies within the Health & Safety File	1	Item	
B	Contractor shall contact the statutory authorities and coordinate incoming services and also shall locate all existing underground and overhead services prior to site works	1	Item	
C	Contractor shall scan proposed site and adjacent areas prior excavation to locate and identify existing underground services	1	Item	
D	Comply fully with the ESB new housing development booklet - 'General conditions relating with the provision of housing supplies'	1	Item	
E	The Contractor to form slit trenches on existing estate road to determine the position of existing underground services 300mm wide x 1m deep x 1.5m deep including making good (5nr)	1	Item	
EV CHARGING INSTALLATION				
<u>Excavating trenches to accommodate new ductwork, not exceeding 250 nominal diameter; not exceeding 1.00m total depth below existing levels</u>				
F	Average depth 800mm; 325mm wide	103	m	
G	<u>Extra over</u> for breaking up solid rock	10	m3	
<u>Granular fill as described to Beds;</u>				
H	Width 325mm and thickness 300mm; pipe diameter 125/100mm (1 nr duct)	103	m	
<u>DUCTING PIPEWORK</u>				
J	125mm Diameter, Red PVC electrical ducting laid above bottom of trench not exceeding 1.00 metres total depth; Nominal Ducting diameter 125mm;	80	m	
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		To Collection €		

(60) SITE SERVICES (MAINLY ELECTRICAL)

(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)				
(Cont) ELECTRICAL INSTALLATION				
(Cont) EV CHARGING INSTALLATION				
<u>(Cont) DUCTING PIPEWORK</u>				
A	100mm Diameter, Red PVC electrical ducting laid above bottom of trench not exceeding 1.00 metres total depth; Nominal Ducting diameter 100mm;	14	m	
B	125mm Diameter, Red PVC ESB ducting laid above bottom of trench not exceeding 1.00 metres total depth; Nominal Ducting diameter 125mm;	9	m	
C	Provide yellow UPVC cable marker tape marked "caution service cables" at least 120 x 1mm thick	103	m	
D	<u>extra over</u> for slow bends	6	nr	
	<u>ESB Minipillar; including all excavation; disposing of surplus excavated material; backfilling; masonry, concrete, formwork, recesses, access cover and frame etc; all as per Tender Drawings and Specification</u>			
E	ESB Minipillar; complete as per Engineers drawings PL-U96-003 and Specifications	2	nr	
	<u>Composite Item; Cable Manhole Inspection chamber - Armstrong Junction</u>			
F	Include all labour and material in constructing AJ Cable Inspection Chamber for new ductwork; include for excavating; disposal; backfilling; bedding; concrete base and surround; lid; all reinforcement, formwork; incl all making good and fair jointing to footpath finish ; complete; approx size 600mm x 600mm x 600mm deep, sizes to be confirmed prior to construction; all as shown on IPSUM Engineers Drawings PL-U96-003	1	nr	
	<u>Composite Item; Cable Manhole Inspection chamber - Blockwork Manhole</u>			

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6 No. Housing Units for Donegal CoCo
at An Glasan, (phase 2), Kilcar

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To Collection €

(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)				
(Cont) ELECTRICAL INSTALLATION (Cont) EV CHARGING INSTALLATION (Cont) Composite Item; Cable Manhole Inspection chamber - Blockwork Manhole				
A	Include all labour and material in constructing AJ Cable Inspection Chamber for new ductwork; include for excavating; disposal; backfilling; bedding; concrete base and surround; blockwork manhole walls; carriageway lid; all reinforcement, formwork; incl all making good and fair jointing to footpath finish; complete; approx size 1200mm x 600mm x 600mm deep, sizes to be confirmed prior to construction; all as shown on IPSUM Engineers Drawing PL-U96-003 Composite Item; Base for EV Charging Point	1	nr	
B	Include all labour and material in constructing base for EV Charging Infrastructure, include for excavating; disposal; backfilling; bedding; concrete base; rising walls; lid; all reinforcement, formwork; incl all making good and fair jointing to existing footpath finish; complete; approx size 750mm x 750mm x 600mm deep, sizes to be confirmed prior to construction; all as shown on IPSUM Engineers Drawing PL-U96-003 STREET LIGHTING INSTALLATION <u>NOTE TO TENDERING CONTRACTORS</u>	5	nr	
C	'Contractor to note that Electric Skyline Ltd are currently appointed by Donegal County Council to provide a public lighting maintenance service. This service agreement requires Electric Skyline Ltd to sign off on the street /site lighting upon completion. If the Main Contractor installs the lighting via another lighting sub-contractor, an additional Survey / Take in Charge Audit fee from Electric Skyline Ltd will be borne by the main contractor. <u>Electrical Installations</u>	1	Item	
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				
				To Collection €

(60) SITE SERVICES (MAINLY ELECTRICAL)

(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)				
(Cont) ELECTRICAL INSTALLATION				
(Cont) STREET LIGHTING INSTALLATION				
<u>(Cont) Electrical Installations</u>				
A	XLPE/SWA/LSF Cabling on cable tray and in ducting associated with the external Car Park Lighting	1	Item	
B	Wiring and connection associated with the external Car Park Lighting	1	Item	
C	Photocell and contactor installation for External Lighting	1	Item	
D	Testing, Commissioning & Labelling	1	Item	
E	Demonstration to the client	1	Item	
<u>Excavating trenches to receive pipes; grading bottoms; earthwork support; disposing of surplus excavated material by removing off site; all to Engineers Specification and Service Engineers Drawings</u>				
Excavating trenches; 1 nr 125mm diameter Red Public Lighting Ducts; starting from stripped ground level; including 150mm sand bed; including 150mm cover and surround with fine grain sand; backfilling remainder with compacted hardcore; including public lighting red coloured warning tape; including public lighting yellow coloured warning tape at a depth of 100mm below finished ground level; in accordance with the Engineer's Details as per Drawing 1966/P01/026 & 1966/P01/023 and Specification				
F	average depth 1.00m (Mains Connection from ESB Mini pillar to Streetlights & Street lighting Micro pillar)	141	m	
<u>Ducts; uPVC pipes; to ESB Specification; flexible spigot and socket joints in the running length; complete with nylon draw rope; all to ESB & Engineers' Detail as per Drawing 1966/P01/026 & 1966/P01/023 and Specification</u>				
Ductwork Pipes				

(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)				
(Cont) ELECTRICAL INSTALLATION				
(Cont) STREET LIGHTING INSTALLATION				
(Cont) Ducts; uPVC pipes; to ESB Specification; flexible spigot and socket joints in the running length; complete with nylon draw rope; all to...				
(Cont) Ductwork Pipes				
A	125mm red duct electric solid wall Upvc pipework duct; laid in position; (1 Nr. 125mm duct)	141	m	
B	Extra over pipes on which they occur; long radius bends, short radius bends, capping ends, tees, junctions, connections, etc; complete	1	item	
Lamp Standard bases complete; 1400mm deep x 650mm x 650mm wide; foundation pad plain in-situ concrete Prescribed Mix C35/20 N/mm2 in accordance with the Structural Engineer's Site Specific Works specification; include for building in elsewhere measured ends of ducts including all necessary excavations, disposal of surplus spoil, earthwork support, concrete, formwork, reinforcement; 300mm diameter x 1000mm deep precast concrete pipework sleeve; sand backfilling either side of cabling; cable way for cable at an upward angle at entry/exit; access panel to be facing away from road; warning tape to be installed above cable, 300mm minimum below finished ground level; 600mm/750mm minimum between top of cabling and finished ground level; complete as per Engineers Drawings and Specification				
C	Lamp standard base to suit 6m high pole; Street Lighting	5	nr	
Lamp standards; supply and install lantern; luminaire LED street light mounted on and including public lighting mast with overhang; galvanised steel tapered column with lockable access doors; complete as per Engineers Drawings 1966/P01/023 & Ipsum Engineers Drawing PL-E97-001 and Specification				

(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)				
(Cont) ELECTRICAL INSTALLATION				
(Cont) STREET LIGHTING INSTALLATION				
(Cont) Lamp standards; supply and install lantern; luminaire LED street light mounted on and including public lighting mast with overhang; galvanised...				
A	Lamp standards; 6m high; Street Lighting Column; FACTOR SMALL STREET LIGHTING LUMINAIRE MOUNTED ON 6mm Column; HOLOPHANE FTS.4.LA033.AY 4000K DW50 20 LED 3.111KLM, 1 LAMP(S) PER LUMINAIRE, 3.111 INITIAL LUMENS PER LAMP; WATTS PER LUMINAIRE = 21.5; MOUNTING HEIGHT= 6 M	5	nr	
<u>Street Lighting Micropillar; including all excavation; disposing of surplus excavated material; backfilling; masonry, concrete, formwork, recesses, access cover and frame etc; all as per Tender Drawings and Specification</u>				
B	Street Lighting Micro pillar; complete as per Engineers drawings and Specifications	1	nr	
<u>ESB Mini-pillar for Street Lighting with under ground vault; including all excavation; disposing of surplus excavated material; backfilling; masonry, concrete, formwork, recesses, access cover and frame etc; all as per Tender Drawings and Specification</u>				
C	ESB Micro pillar; complete as per Engineers drawings and Specifications	1	nr	
LV ESB CABLE INSTALLATION				
<u>Excavating trenches to receive pipes; grading bottoms; earthwork support; disposing of surplus excavated material to be kept on-site for re-use; including all double handling as required; all to Engineers Specification and Service Engineers Drawings</u>				
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				
			To Collection €	

(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)				
(Cont) ELECTRICAL INSTALLATION				
(Cont) LV ESB CABLE INSTALLATION				
<u>(Cont) Excavating trenches to receive pipes; grading bottoms; earthwork support ; disposing of surplus excavated material to be kept on-site for re-use;...</u>				
Excavating trenches; 125mm diameter ESB Ducts; starting from stripped ground level; including 150mm sand bed; including 150mm cover and surround with fine grain sand; backfilling remainder with compacted hardcore; including coloured warning tape at a depth of 300mm below finished ground level; in accordance with the ESB & Engineer's Details and Specification				
A	average depth 0.50 - 1.00m (Mains Connection from existing ESB Mini pillar to New ESB Mini Pillar	99	m	
B	<u>extra over</u> last for all additional costs associated with works outside the boundary including excavating and saw cutting through existing public footpath, kerb and road; full reinstatement of finishes and build up including all tying in details on completion to National Roads Authority (NRA) Specification including road opening / closure licences and working out of normal working hours if required	69	m	
C	average depth 0.50 - 1.00m (Mains Connection from new ESB Mini pillar to 2nd New ESB Mini Pillar	34	m	
<u>Ducts; RED ducting to ESB / Service Engineers Specification 400v Supply; flexible spigot and socket joints in the running length; complete with nylon draw rope; all to ESB & Engineers details & specification</u>				
D	Pipes; 125mm pipework; laid in position	133	m	
E	<u>Extra over</u> pipes on which they occur; long radius bends, short radius bends, capping ends, tees, junctions, connections, pop-ups, etc; complete	1	item	

(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)				
(Cont) ELECTRICAL INSTALLATION (Cont) LV ESB CABLE INSTALLATION <u>ESB Minipillar; including all excavation; disposing of surplus excavated material; backfilling; masonry, concrete, formwork, recesses, access cover and frame etc; all as per Tender Drawings and Specification</u>				
A	ESB Minipillar; complete as per Engineers drawings and Specifications	2	nr	
<u>Locate existing ESB Mini Pillar and Ducting; excavating and saw cutting through existing road; expose existing chamber and make new connection including all pipe fittings and accessories as required; break out openings in existing line for connecting new pipe including making good existing line on completion including all works in accordance with the county council requirements; make good existing pipe on completion including full reinstatement of surface finishes and build up including all tying in details on completion to National Roads Authority (NRA) Specification including road licence closures and working out of normal working hours if required; working space and earthwork support including all temporary propping as required; complete as per Engineers Details</u>				
B	Connecting to existing underground services; make new connection (outside site boundary)	1	Nr	
EIR INSTALLATION <u>Service trenches; excavating trenches to receive pipes; grading bottoms; earthwork support; disposing of surplus excavated material off site; all in accordance with the Engineers details and specification</u>				
Sub Bill 5 - Site Development Works		To Collection €		
6 No. Housing Units for Donegal CoCo		6/9		
at An Glasan, (phase 2), Kilcar				

(60) SITE SERVICES (MAINLY ELECTRICAL)

(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)				
(Cont) ELECTRICAL INSTALLATION				
(Cont) EIR INSTALLATION				
(Cont) Service trenches; excavating trenches to receive pipes; grading bottoms; earthwork support; disposing of surplus excavated material off site;...				
Excavating trenches; 2nr 110mm diameter Ducts (EIR / SPARE); starting from stripped ground level; including 150mm sand bed; including 150mm cover and surround with fine grain sand; backfilling remainder with compacted hardcore; including coloured warning tape at a depth of 100mm below finished ground level; in accordance with the Engineer's Details and Specification				
A	average depth 0.50 - 1.00m (Mains Connections)	163	m	
B	<u>extra over</u> last for all additional costs associated with works outside the boundary including excavating and saw cutting through existing public footpath, kerb and road; full reinstatement of finishes and build up including all tying in details on completion to National Roads Authority (NRA) Specification including road opening / closure licences and working out of normal working hours if required	68	m	
<u>Ducts; 1nr uPVC pipes; to EIR Specification; flexible spigot and socket joints in the running length; complete with nylon draw rope; all to ESB & Engineers details & specification</u>				
EIR Ducting				
C	EIR Ducting; 110mm grey ductwork; laid in position	113	m	
D	<u>Extra over</u> pipes on which they occur; long radius bends, short radius bends, capping ends, tees, junctions, connections, etc; complete	1	item	
SPARE Ducting				
E	Spare Telecom Ducting; 110mm grey ductwork; laid in position	50	m	
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		6/10	To Collection €	

(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)				
(Cont) ELECTRICAL INSTALLATION (Cont) EIR INSTALLATION (Cont) Ducts; 1nr uPVC pipes; to EIR Specification; flexible spigot and socket joints in the running length; complete with nylon draw rope; all to... (Cont) SPARE Ducting				
A	Extra over pipes on which they occur; long radius bends, short radius bends, capping ends, tees, junctions, connections, etc; complete	1	item	
	Service access chamber; including all excavation; disposing of surplus excavated material to be kept on-site for re-use; including all double handling as required; backfilling; masonry, concrete, formwork, access cover and frame etc; access covers; all as telecom provider's & Engineer's details & specification complete			
B	Service chambers; internal size 1000mm x 1000mm x 1000mm deep (inside site boundary)	5	nr	
	Locate existing Telcom Ducting; excavating and saw cutting through existing road; install NEW CHAMBER and make new connection including all pipe fittings and accessories as required; break out openings in existing line for connecting new pipe including making good existing line on completion including all works in accordance with the county council requirements; make good existing pipe on completion including full reinstatement of surface finishes and build up including all tying in details on completion to National Roads Authority (NRA) Specification including road licence closures and working out of normal working hours if required; working space and earthwork support including all temporary propping as required; complete as per Engineers Details			
C	Connecting to existing underground services; install NEW CHAMBER and make new connection (outside site boundary)	1	Nr	
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		6/11	To Collection €	

(60) SITE SERVICES (MAINLY ELECTRICAL) (Cont)				
COLLECTION Page No. 6/1 Page No. 6/2 Page No. 6/3 Page No. 6/4 Page No. 6/5 Page No. 6/6 Page No. 6/7 Page No. 6/8 Page No. 6/9 Page No. 6/10 Page No. 6/11 (60) SITE SERVICES (MAINLY ELECTRICAL) Carried to Summary				
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				6/12

<u>(70) SITE FITTINGS</u>				
<u>FITTINGS</u>				
FITTINGS, EQUIPMENT AND FURNITURE				
<u>Bollards; height 1100mm; stainless steel;</u> <u>including all fixings as required;</u> <u>including all bases i.e. excavation,</u> <u>disposal, backfilling, concrete</u> <u>foundation, reinforcement, formwork, etc;</u> <u>complete as per Engineers specification,</u> <u>Landscaping Architect drawings and</u> <u>specification</u>				
A	Rails or protective guards; 1100mm high above ground; removable bollards; architect drawing T508/151 Bollard detail and architect specification Q50/190 <u>Disable sign; including concrete base,</u> <u>excavation, disposal off site, formwork,</u> <u>working space etc; complete as per</u> <u>Engineers Drawing and Specification</u>	5	nr	
B	Fittings; disabled parking sign; 3000mm above ground level including concrete base <u>Slow Children at Play Sign; including</u> <u>concrete base, excavation, disposal off</u> <u>site, formwork, working space etc;</u> <u>complete as per Engineers Drawing and</u> <u>Specification</u>	3	nr	
C	Fittings; Slow Children at Play sign; 3000mm above ground level including concrete base	2	nr	
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				
			To Collection €	

(70) SITE FITTINGS (Cont) COLLECTION Page No. 7/1 (70) SITE FITTINGS Carried to Summary				
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar	7/2			

(80) LANDSCAPING, PLAY AREAS AND FITTINGS				
<u>SURFACE PAVING, FENCING AND LANDSCAPING</u>				
GRASSING AND PLANTING				
Topsoiling				
<u>Topsoil; Filling with imported Topsoil; including all preparation and treatment as required; all as per Architects drawing and specification</u>				
A	Topsoil; 200mm deep; Grass Public	341	m2	
B	Topsoil; 400mm deep; Shrubs / Trees	16	m2	
<u>Topsoil; Filling with previously excavated soil stored on site; including all preparation and treatment as required; all as per Architects drawing and specification</u>				
C	Topsoil; 200mm deep; Grass Public	20	m2	
D	Topsoil; 400mm deep; Shrubs / Trees	2	m2	
Cultivating				
<u>Prepare areas for planting including cultivation of soil, grading to contours include for spray off all gravel/grass/planting areas prior to planting etc. all as per Architect's and Specification.</u>				
E	Prepare areas for planting	341	m2	
Grass Seeding				
<u>Grass seeding; including spraying topsoil with weedkiller prior to seeding; topsoil to be raked and feathered finish, stones removed; complete as per Architects Drawings and Specification</u>				
F	Seeding; Amenity Grass Mix; Grass Public; mixture of the following Chewing Fescue 2.75kg, Brown Top Bent 0.45kg, Creeping Red Fescue 0.45kg, Crested Dogs Tail 0.45kg, Timothy Grass 0.45kg, Total 4.55kg; as per architects drawing 2508_06_A_ Site layout and specification	341	m2	
Mulch				
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(80) LANDSCAPING, PLAY AREAS AND FITTINGS

(80) LANDSCAPING, PLAY AREAS AND FITTINGS (Cont)				
(Cont) SURFACE PAVING, FENCING AND LANDSCAPING (Cont) Mulch <u>Bark Mulching including all preparation and laying; all as per Architects drawing and specification</u>				
A	Surface applications; all planting areas to be finished with mulch Trees <u>Supply and plant trees; including excavation and backfill with approved planting soil; disposing off site off surplus material; trees to be securely staked and securely fixed with suitable ties; including rootball anchoring system and aeration tubes wrapped around root ball; complete as per Landscape Architect's Drawings and Specification</u>	3	m2	
B	Street Trees Condition Transplanted; Rootball; Betulas Pendula and Prunus Padus; as per architects drawing 2508_06_A Site layout and 2508/150 Typical Tree Pit Detail and specification	6	nr	
C	Open Space Trees; Condition Transplanted; Rootball; Populus remula and Salix Caprea ; as per architects drawing 2508_06_A Site layout and 2508/150 Typical Tree Pit Detail and specification Shrubs <u>Supply and plant shrubs; mixed pollinator planting; including excavation and backfilling with approved planting soil; disposing off site off surplus material; complete as per Architect's Drawing and Specification</u>	11	nr	
D	Shrubs; mixture of the following; Choisya Ternata, cg, 3lt 40 - 50cm, Cistus x Purpureus, cg, 2lt 30 - 40cm, Perovskia Atriplicifolia 'Blue Spire', cg, 2lt 30 - 40cm, Viburnum Davidii, cg, 3lt 30 - 40cm ; as per architects drawing 2508_06_A Site layout and specification Root barrier	3	m2	
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		8/2	To Collection €	

(80) LANDSCAPING, PLAY AREAS AND FITTINGS (Cont)				
(Cont) SURFACE PAVING, FENCING AND LANDSCAPING (Cont) Root barrier Root barrier; supply and install root barrier where services are within clearance zone of trees including all preparation and laying; all as per Architects drawing and specification		75	m	
Aftercare Maintenance for Defects Liability Period; complete in accordance with the Architect's specification		1	Item	
B Maintenance for Defects Liability Period; scheduled maintenance for the defects liability period as per the architects specification				
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar		8/3		To Collection €

(80) LANDSCAPING, PLAY AREAS AND FITTINGS (Cont) COLLECTION Page No. 8/1 Page No. 8/2 Page No. 8/3 (80) LANDSCAPING, PLAY AREAS AND FITTINGS Carried to Summary				
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar				

SUMMARY	Page No.			
(10) PREPARED SITE	1/6			
(20) SITE STRUCTURES	2/6			
(30) SITE ENCLOSURES	3/7			
(40) ROADS, PATHS, PAVINGS	4/10			
(50) SITE SERVICES (MAINLY PIPED AND D ...	5/18			
(60) SITE SERVICES (MAINLY ELECTRICAL)	6/12			
(70) SITE FITTINGS	7/2			
(80) LANDSCAPING, PLAY AREAS AND FITTI ...	8/4			
TOTAL AMOUNT TO GENERAL SUMMARY PAGE				
Sub Bill 5 - Site Development Works 6 No. Housing Units for Donegal CoCo at An Glasan, (phase 2), Kilcar	Summary I			

GENERAL SUMMARY PAGE

General Summary

			€	c	€	c
1/PS/1	Total for Preliminaries	€			x 1	
2/PS/1	Total for Building Works - House Type 19	€			x 1	
3/PS/1	Total for Building Works - Semi-Detached Units 5&6	€			x 1	
4/PS/1	Total for External Works	€			x 1	
5/PS/1	Total for Site Development Works	€			x 1	
	Project Supervisor for the Construction Stage	€			x 1	
	Bond	€			x 1	
TOTAL EXCL VAT CARRIED - TRANSFER TO FORM OF TENDER				"X"	€	
Value Added Tax at the rate of 13.5% of the sum at "X"					€	
TOTAL INCL VAT					€	
We offer to complete the Works for the lump sum of (in words)Euro excluding Vat.						
JOSEPH COYLE ASSOCIATES Chartered Quantity Surveyors Unit 7B Riverside Office Park, Neil T. Blaney Road, Letterkenny, Co. Donegal. F92 XD9Y						
June-26						
Contractors Signature.....						
Relative to Tender Dated.....2026						
This Bill shall be completed in ink, signed and returned with the Tender.						
CONSTRUCTION OF 6 NO UNIT 's SOCIAL HOUSING SCHEME AT AN GLASAN (PHASE 2) KILCAR, CO. DONEGAL Page G.S. 1						

APPENDIX A
ARCHITECTS DRAWING REGISTER
(APPENDIX A)

Project Name: DCC Housing Kilcar
Job Number: 2507

Drawing Register

MacGabhann
Architects

		Issue Date														
Day		4	25	6	6	22	19									
Month		9	11	1	1	1	5									
Year		25	25	26	26	26	26									
Drawing No.	Title	Scale	Size	Revision												Comments
2507_01	Site Survey	250	A1	A					B							
2507_02	Site Layout 1	100	A1	A	B	C	C	D	E							
2507_03	Apartments Units 1-4	100	A1	A	B	B	C	C								
2507_04	Dwelling Units 5-6	100	A1	A	B			C								
2507_05	Site Location Plan	1000	A1			A	A		B							
2507_06	Site Layout 2	100	A1						A							
2507_07	Boundary Details	25	A1						A							
2507_08	Site Details	25+50	A1						A							
2507_09	Site Establishment	250	A1						A							
2507_10	Site Sections	100+20 n	A1						A							
2507_11	Apartments GF	50	A1						A							
2507_12	Apartments FF	50	A1						A							
2507_13	Apartments SE	50	A1						A							
2507_14	Apartments SE	50+10	A1						A							
2507_15	Semi-D Dwellings FP	50	A1						A							
2507_16	Semi-D Dwellings SE								A							
2507_21	Door / Window Schedule 1	25	A1						A							
2507_22	Door / Window Schedule 2	25	A1						A							
2507_23	Door / Window Schedule 3	25	A1						A							
2507_24	Bathroom Layouts	25	A1						A							
2507_25	Kitchen Layout 1	25	A1						A							
2507_26	Kitchen Layout 2	25	A1						A							
2507_27	Kitchen Layout 3	25	A1						A							
2507_28	Floor Finishes Layout	10	A3						A							
2507_29	Plasterboard Layout 1	10	A3						A							
2507_30	Plasterboard Layout 2	10	A3						A							
2507_101-152	Architectural Details	5+10	A4						A							
2507_00	Specifiction		A4						A							
2507_00	Project Specific Requirements															
2507_00	Sanitaryware Schedule		A4						A							
2507_00	Ironmongery Scehdule		A4						A							
2507_00	Ironmongery Spec		A4						A							
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APPENDIX B
CIVIL AND STRUCTURAL ENGINEERS DRAWING REGISTER
(APPENDIX B)

DSM Consulting Engineers

Structural & Civil Engineers
Donegal Rd, Ballybofey Phone. 074 9175603

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info@dsmengineers.com
www.dsmengineers.com

Emailed

[illegible]

APPENDIX C
MECHANICAL & ELECTRICAL ENGINEERS DRAWING REGISTER
(APPENDIX C)

Drawing Issue Register



IPSUM CONSULTING ENGINEERS LIMITED

Riverside Office Park Unit 2B Neil T. Blaney Road,
Letterkenny, County Donegal, Ireland
Tel: 074 91 24568
E: donegaladmin@ipsumengineers.com

CONTRACT No. 6406(1)

SHEET Nos.

Service Codes: U96, E97, E60, E61, E62, M52, M53, M56, M57

PROJECT:

**6No. Social Units at An Glasán,
Kilcar, Co. Donegal**

Date of Issue

day	04	05	22	28
month	03	03	04	04
year	26	26	26	26

Drawing Description:

Drg No.

Utilities / Combined Services

Proposed ESB Ducting Routes	PL-U96-001		T0	T0	T0
Proposed Eir Ducting Routes	PL-U96-002		T0	T0	T0
Proposed Electric Vehicle Infrastructure Layout	PL-U96-003		T0	T0	T0
External Lighting Layout	PL-E97-001		T0	T0	T0

Apartments 1-4

Typical Routing of Cables Layout – Ground & First Floor Level	DT-E60-001		T0	T0	T0
Small Power Layout – Landlord Communal Stairwell	PL-E60-001		T0	T0	T0
Lighting & Fire Alarm Layout – Landlord Communal Stairwell	PL-E61-001		T0	T0	T0
Small Power Layout – Ground & First Floor Level	PL-E62-001		T0	T0	T0
Lighting & Fire Alarm Layout – Ground & First Floor Level	PL-E63-001		T0	T0	T0
Above Ground Soils & Wastes Layout – Ground & First Floor Level	PL-M52-001	T0		T0	T0
Domestic Water Services Layout – Ground & First Floor Level	PL-M53-001	T0		T0	T0
Space Heating Services Layout – Ground & First Floor Level	PL-M56-001	T0		T0	T0
Ventilation Services Layout – Ground & First Floor Level	PL-M57-001	T0		T0	T0

Dwelling House 5 - 6

Small Power Layout	PL-E62-002		T0	T0	T0
Lighting & Fire Alarm Layout	PL-E63-002		T0	T0	T0
Above Ground Soils & Waste Layout	PL-M52-002	T0		T0	T0
Domestic Water Services Layout	PL-M53-002	T0		T0	T0
Space Heating Services Layout	PL-M56-002	T0		T0	T0
Ventilation Services Layout	PL-M57-002	T0		T0	T0

Schematic

Mechanical & Electrical Heating Schematic – Houses	SC-M56-001				T0
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