

VOLUME C - PRICING DOCUMENT

FOR

DEVELOPMENT OF 6 NUMBER HOUSING UNITS

AT

DONOHILL, COUNTY TIPPERARY

FOR

TIPPERARY COUNTY COUNCIL

Job no: E10431

18th August 2026

T: +353 (0)1 6789092
E: info@tommcnamara.ie
W: tommcnamara.ie

ENNIS: 57 Parnell Street, Ennis, County Clare
SLIGO: An Chroí Digital Hub, Rathscanlan, Tubbercurry, Sligo
DUBLIN: 66 Lower Baggot Street, Dublin 2
LONDON: 40 Bowling Green Lane, Clerkenwell, London EC1R 0NE

TABLE OF CONTENTS

PROJECT: DEVELOPMENT 6 NUMBER HOUSING UNITS
DONOHILL, COUNTY TIPPERARY

CLIENT: TIPPERARY COUNTY COUNCIL

1. PROJECT PARTICULARS
2. GENERAL SUMMARY
3. BILL NR.1 - PRELIMINARIES
4. BILL NR.2 - SUBSTRUCTURES
5. BILL NR.3 - TYPE A UNITS - 3 BED 2 STOREY
6. BILL NR.4 - HOUSE TYPE B UNIT - 2 BED 2 STOREY
7. BILL NR.5 - TYPE C UNIT - 4 BED BUNGALOW
8. BILL NR.6- SITE EXTERNAL WORKS
9. BILL NR.7 - SITE DEVELOPMENT WORKS
10. APPENDIX A - MECHANICAL PRICING DOCUMENT
11. APPENDIX B - ELECTRICAL PRICING DOCUMENT

Issue No:	1
Date:	18-Aug-26
Prepared By:	TC
Checked By:	GOM
Approved By:	GOM

PROJECT PARTICULARS

PROJECT PARTICULARS

PROJECT:

DEVELOPMENT OF 6 NUMBER HOUSING UNITS
DONOHILL, COUNTY TIPPERARY

CLIENT:

TIPPERARY COUNTY COUNIL

**ARCHITECT/
STRUCTURAL &
CIVIL ENGINEERS/
EMPLOYERS
REPRESENTATIVE**

Hassett Leyden Associates Architects
Roslevan Shopping Centre,
Tulla Road,
Ennis,
Co. Clare

**SERVICES
ENGINEERS**

Don O'Malley Consulting Engineers
92 O'Connell Street
Co. Limerick

**QUANTITY
SURVEYOR**

TOM McNAMARA & PARTNERS
57 Parnell Street
Ennis
Co. Clare

GENERAL SUMMARY

TIPPERARY COUNTY COUNCIL

GENERAL SUMMARY

DESCRIPTION	Subtotal	Multiply by Number of Units	AMOUNT €
BILL NR.1 - PRELIMINARIES			
BILL NR.2 - SUBSTRUCTURES			
BILL NR.3 - TYPE A UNITS - 3 BED 2 STOREY		X3	
BILL NR.4 - HOUSE TYPE B UNIT - 2 BED 2 STOREY		X2	
BILL NR.5 - TYPE C UNIT - 4 BED BUNGALOW		X1	
BILL NR.6- SITE EXTERNAL WORKS			
BILL NR.7 - SITE DEVELOPMENT WORKS			
APPENDIX A - MECHANICAL PRICING DOCUMENT			
APPENDIX B - ELECTRICAL PRICING DOCUMENT			
Total lump sum fixed price, excluding (a) Value Added Tax, (b) amount for Bond (c) and all costs associated with the provision of Project Supervisor for Construction Stage	A €		
Amount for Bond, refer to Preliminaries (not subject to VAT)	B €		
TOTAL AMOUNT EXCLUDING VAT CARRIED TO FORM OF TENDER	C €		
Add VAT @13.5% on Total A	D €		
TOTAL AMOUNT INCLUDING VAT	E €		
Contractors Name:			
Address:			
Date:			

DEVELOPMENT OF 6 NUMBER UNITS, DONOHILL, COUNTY TIPPERARY
TIPPERARY COUNTY COUNCIL

BILL 1 - PRELIMINARIES

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 1 – PRELIMINARIES

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				
	GENERAL AND PRELIMINARY ITEMS				
	PARTIES AND CONSULTANTS				
	<u>Employer</u>				
1.1	Tipperary County Council				
	<u>Employer's Representative</u>				
1.2	Hassett Leyden & Associates, Roslevan Shopping Centre, Tulla Road, Ennis, Co. Clare				
	<u>Architect</u>				
1.3	Hassett Leyden & Associates, Roslevan Shopping Centre, Tulla Road, Ennis, Co. Clare				
	<u>Services Engineer</u>				
1.4	Don O Malley & Partners, 92 O' Connell Street, Limerick				
	<u>C&S Engineer</u>				
1.5	Hassett Leyden & Associates, Roslevan Shopping Centre, Tulla Road, Ennis, Co. Clare				
	<u>Quantity Surveyor</u>				
1.6	Tom McNamara & Partners, 57 Parnell St. Ennis, Co. Clare				
	<u>Project Supervisor Design Stage</u>				
1.7	Hassett Leyden & Associates, Roslevan Shopping Centre, Tulla Road, Ennis, Co. Clare				
	METHOD OF MEASUREMENT				
1.8	This Bill of Quantities has been measured generally in accordance with the Agreed Rules of Measurement, Issue 4, issued in 2009 by the Society of Chartered Surveyors and Construction Industry Federation and subsequent supplements.		note		
	DESCRIPTION OF WORKS				
1.9	The site is located at Cuil Greine, Donohill, Co. Tipperary, Co. Tipperary refer to the Site Location Plan Drawing Nr. 2798-HLA-00-ZZ-DR-A-1001 - Site Layout Plan	1	item		
1.10	The works comprises of the construction of 6nr housing units at Cuil Greine, Donohill, Co. Tipperary. The development consists of 3nr 3 bed two storey houses, 1nr 4bed bungalow and 2nr 2bed bungalows and associated siteworks including connections to existing drainage and utilities.	1	item		
1.11	The Contractor should note that the existing neighbours boundary walls to the west of the site are to be demolished and rebuilt in blockwork with retaining elements required at the change in level between the neighbours site and the proposed site. Refer to Drawing Nr. 2798-HLA-00-ZZ-DR-A-1001 - Site Layout Plan for the location of same.	1	item		
1.12	The site is an open greenfield site bounded by the existing Cuil Greine housing estate to the west, green open space with public road to the south and east and agricultural land to the north. The Contractor should note that there is a public playground at the entrance to the site	1	item		
1.13	The Contractor is referred to the Architects, Engineers & Service Engineers Specification and Drawings for details of works to be executed.	1	item		
	OBLIGATIONS AND RESTRICTIONS IMPOSED BY THE EMPLOYER				
	ACCESS TO AND POSSESSION OR USE OF THE SITE				
1.14	The site must not be used for any purpose other than carrying out the works.	1	item		
	DESCRIPTION OF THE SITE				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.15	Access to the site is from Cuil Greine Road (R497). The Contractor will be required to form temporary site enclosures to enclose the site perimeters shown on Architects Drawings, to amend and adjust as necessary through out the contract, remove and reinstate on completion; all in accordance with Architectural Specification. The contractor is to agree, prior to erection, the materials to be used in forming the site hoardings.	1	item		
1.16	The Contractor must refer to the Preliminary H & S Plan and Hazard Identification & Design Risk Assessments (Architects & Enginners). The Contractors attention is drawn to the existance of a childrens playground and existing housing estate at the entrance to the site.	1	item		
1.17	Car parking must be within the curtilage of the site. No carparking allowed on the main road or adjoining housing estate or at the national school	1	item		
1.18	Provide for obtaining all necessary licences and paying all fees in connection with temporary hoardings.	1	item		
1.19	The Contractor's working space and compound areas shall be erected on site by the Contractor and at a location suitable to the works sequencing. The Contractor shall be required to restore, at his own expense any areas outside the site area disturbed by him.	1	item		
1.20	The Contractor's attention is drawn to the existing services within the Site Boundaries, and to adjacent services including power, gas, water, and drainage runs on public roads, footpaths and lands adjacent to both sites. The Contractor must make himself aware of the existence of all such services. Every precaution must be taken to avoid damage to these services. Any damage caused must be made good (including preparation, sub-bases, re-grassing, etc., as necessary) at the Contractor's own expense.	1	item		
1.21	The Contractor shall take all reasonable precautions to preserve trees and hedges adjacent to the Contractor's site area. Such precautions shall include temporary fencing/corraling of tree branch spread areas and the exclusion of site hutments, plant, fuel storage, materials and all other items from within such areas. In periods of drought the Contractor will be responsible for watering of tree bowl areas as required. Maintain, alter and adapt such temporary fencing/corrals from time to time, remove on completion and make good areas.	1	item		
1.22	Allow for protecting, upholding and weathering, providing any additional temporary supports, deemed necessary for the support of all items associated with the works including perimeter site hoardings, site gateways, site signage, ramp and earthwork supports on site, structures, footpaths, roadways, underground and overground services, maintain, alter, shift and adapt same from time to time as necessary, remove on completion and make good areas.	1	item		
1.23	Tenderers are advised to visit the site and ascertain the facilities of access thereto, the supply of labour and materials the district will afford, the general convenience of working, the nature of the soil, the nature, character, dimensions, levels and other features of the site, all existing adjacent buildings, footpaths, driveways 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 the above matters into account when pricing and no claim for any payment will be allowed in consequence of the Contractor's failure to do this.	1	item		
1.24	The Tenderers attention is also drawn to the proximity of the existing residential buildings and playground that shall remain in constant usage throughout the entire contract period. The existing buildings are occupied and shall remain fully operational during the works. The Contractor is to minimise any disruption to these areas. The Tenderer shall allow for the fact that the roadways and pathways adjacent to the site will not be for the sole use of the contractors and that staff and members of the public will be using these roads and paths for the duration of the contract.	1	item		
1.25	Due care and diligence must be observed in the execution of the works. Any damage caused by the contractor or their sub-contractors / specialist to the surrounding area during the works will be made good by the contractor at their own cost to the satisfaction of the Employers Representative.	1	item		
1.26	The Tenderer is advised to visit the site, the location of which is indicated on the drawings.	1	item		
	HOARDINGS				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.27	Allow for all necessary temporary fencing, metal hoardings, fans, planked footways, guardrails, gantries and the like for the protection of the site operatives, neighbours, members of the public for meeting the requirements of any Local Authority or Health & Safety requirements and later shift or adapt them at any time as necessary. location as per Drawing Nr. 2798-HLA-00-ZZ-DR-A-1001 - Site Layout Plan	1	item		
1.28	The Contractor shall allow the securing of the site against unauthorised entry by non site personnel for the duration of the works, and such that site activities do not spread onto or affect adjacent lands.	1	item		
1.29	All temporary walkways and hoardings shall have suitable lighting and all necessary safety features to ensure the protection of the public at all times. All necessary way finding signs and Health & Safety signs are to be provided by the Contractor.	1	item		
1.30	Provide lockable security gates to the hoardings. SCREENS	1	item		
1.31	Provide and maintain all necessary dustproof and weatherproof screens/hoardings as required and allow for shifting and adapting them at any time, as required throughout the duration of the Contract. All temporary screens are to be constructed to specifications. TEMPORARY NAME BOARDS	1	item		
1.32	The Contractor is to supply, erect and remove upon completion 2no Site Signs made by a professional sign writing company bearing the names of the Client, Funding Bodies, Consultants and Contractor, fixed to galvanised steel support columns. It is a requirement that the sign be fabricated and installed in compliance with the Employers Representative instructions and approval and maintained in position for the duration of the contract. ACCESS TO SITE	1	item		
1.33	1. Access will be as indicated on Drawing Nr.2798-HLA-00-ZZ-DR-A-1001 - Site Layout Plan and the Preliminary H & S Plan. The Contractors attention is drawn to the existence of a public playground and existing housing estate. Considerable pedestrian and vehicular traffic will be present during working hours. The Contractor will be required to ensure the security of the site in a manner which protects the safety, health and welfare of non-site personnel while maintaining access and egress facilities for site personnel and also maintaining existing pedestrian and vehicular movement along the access road.	1	item		
1.34	2. Provision will have to be made to prevent site activities from exposing non-site personnel to risk as a consequence of the projects activities, including the maintenance of the roadway adjacent to the site in a clean condition and free, as far as is reasonably practicable, from debris, mud or any other hazard likely to pose a risk to the safety, health or welfare of person passing or accessing the site.	1	item		
1.35	3. It is the responsibility of the Contractor to ensure that vehicles, plant or equipment do not obstruct access by emergency vehicles to the adjoining properties and that general movement of vehicles on the access road does not pose a risk to other vehicles or pedestrians.	1	item		
1.36	4. The Contractor shall ensure that no damage is caused to the existing roads or footpaths due to the delivery of materials, the execution of works, or the removal of rubbish. All vehicles entering or leaving the site carrying loads which constitute a potential dust or dirt nuisance such as aggregate, sand, gravel, soil or the like shall be secured so that no materials shall leave the vehicle.	1	item		
1.37	5. The Contractor shall be responsible for keeping all roadways and pathways adjacent to the job site free from mud droppings or other materials which are due to his own and all other operations and safeguard the Employer from any liability resulting therefrom. The Contractor is expected to take reasonable care to ensure that all vehicles entering and leaving the jobs site are free of mud on the wheels or tracks, and the loads are secure	1	item		
1.38	6. In the event of fouling of or damage to any road due to any operations he will be expected to clean them and make good expeditiously at his own expense to the satisfaction of the Employers Representative. The Contractor shall be entirely responsible for any damage due to his failure to comply with this clause.	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.39	7. The Contractor shall confine his activities to the Works included in the contract and shall not allow his men to trespass on the other parts of the site or on the adjacent lands unless in direct execution of Works included in this Contract. In the event of any claims arising due to compliance with this clause, the Contract shall be held entirely responsible and shall pay any costs in connection therewith.	1	item		
1.40	8. Access is restricted in accordance with the "Restrictions on access to site" clause.	1	item		
1.41	9. The Contractor's working space shall consist of the areas shown on Architects Drawing Nr.2798-HLA-00-ZZ-DR-A-1001 - Site Layout Plan & Preliminary Health & Safety Plan. The Contractor shall be required to restore, at his own expense any areas outside the site area disturbed by him.	1	item		
1.42	10. CONTRACTORS COMPOUND: the Contractors temporary compound, storage area and car park are to be located within the Contractors working area, maintain and reinstate area on substantial completion of the Works. Allow for temporary access, hardstanding, fencing and hoarding; maintain, alter and adapt as necessary and remove on substantial completion of the Works.	1	item		
1.43	11. TEMPORARY FENCING: provide hoardings and fencing complete; maintain, alter and adapt as necessary and remove on substantial completion of the Works	1	item		
1.44	12. ADJACENT AND EXISTING BUILDINGS exist as shown on the tender drawings. Take all reasonable precautions to avoid disturbance of or inconvenience to the occupants and users of these buildings. Enabling works and traffic management works will be required at times to provide alternative access to nearby buildings and land.	1	item		
1.45	13. TREASURE TROVE: if any treasure trove, coins, or objects of antiquity are met with during the execution of the Works, they are to be most carefully uncovered and left undisturbed until instructions are received from the Employers Representative and they shall become the property of the Employer.	1	item		
1.46	The following Drawings were used to prepare the Bill of Quantities: ARCHITECTS				
1.47	See List One Volume A. STRUCTURAL ENGINEERS	1	item		
1.48	See List One Volume A. SERVICES ENGINEERS	1	item		
1.49	See List One Volumes A CONTRACTOR'S INFORMATION	1	item		
1.50	The Contractor shall be deemed to have made a thorough examination of ALL documentation contained in the tender package including the Drawings, Specifications, Site Investigation Reports, Information Pack , Bill of Quantities (Pricing Document), Form of Tender and Schedules Parts 1 and 2, Preliminary Health and Safety Plan and Site and all features thereof, contacted the gas, water, sewage, electricity and telephone/ cablelink authorities with regard to existing mains, services/drains on site and shall be deemed to have full knowledge of these facts when preparing his tender and must include for all items in his overall Tender Price. RESPONSIBILITY FOR PERFORMING OVERALL CO-ORDINATION PROCESS IN RESPECT OF BUILDING SERVICES	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.51	"The Main Contractor shall have responsibility for performing the overall co-ordination process in respect to all building services with each other and with the building elements. The Main Contractor shall assign to this task staff with proven knowledge and experience of building services to ensure that the service co-ordination activities are successfully completed. The responsibilities of the staff so assigned shall include but are not limited to the realistic programming of all building services works and activities and the incorporating of this programme into the main contract programme, the timely and adequate provision of services related samples, patterns, mock ups and setting out details of design team comments, the interpretation of all building services drawings and specifications and the resolution of queries by the building services and other subcontractors and if necessary obtaining clarification of instruction from the design team, the day to day co-ordination of site setting out of building services and sequencing of installation to ensure that systems are not damaged due to premature installation, being present at all meetings called to discuss building services and to report on the works and progress, the timely and realistic programming of inspections, testing, commissioning and handover of the building services works, all in accordance with the services specification, and in sufficient detail to provide for a design team option to attend during these activities" PRICE IN DETAIL	1	item		
1.52	The Bill of Quantities (Pricing Document), fully priced in ink, and without qualification or amendment must be submitted at the time of tendering. Tender sums, as well as rates tendered throughout this Bill of Quantities shall be in Ç.	1	item		
1.53	Unpriced items: costs relating to items which are not priced will be deemed to have been included elsewhere in the Bills of Quantities.	1	item		
	ERRORS				
1.54	Errors priced Bills of Quantities will be dealt with in accordance with the Code of Procedure for Single Stage Selective Tendering Liaison Committee Practice Note 8, Clause 8.5.2 subject to the approval of the Employer.	1	item		
	PRELIMINAIRES				
1.55	A fully detailed breakdown of the pricing of preliminaries must be provided on request of the Quantity Surveyor.	1	item		
	ALTERATIONS				
1.56	Alterations and Qualifications to the Bill of Quantities must not be made.	1	item		
	REMUNERATION				
1.57	No Tenderer will be remunerated for any trouble or expense incurred in the preparation of his tender.	1	item		
	LOWEST OR ANY TENDER NOT NECESSARILY ACCEPTED				
1.58	Contractors submitting a tender shall be deemed to have given their permission for the Form of Tender and (Schedules Part 1 and 2) and Bill of Quantities (Pricing Document) tendered to be opened by the Employer, Employer's Representative, Architect and/or Quantity Surveyor and examined ~ irrespective of whether their tender is lowest. Tenders shall remain open for acceptance for a period of 180 Days following the date of tender lodgement. This period for acceptance may be extended with the agreement of the Contractor. The lowest or any tender will not necessarily be accepted.	1	item		
	ALTERNATIVE PRODUCTS				
1.59	Tenderers may price the contract documents on the basis of substitutes for named products items which they deem to be of equal or better specification in terms of durability, quality, performance etc. The pricing of such substitutes in the tender documentation is entirely at the tenderers risk. The approval of such substitutes lies with the Employers Representative and the tenderer will be required to prove that in all respects that the proposed substitute is equal or better to the named item for which substitution is sought.	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 1 – PRELIMINARIES

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.60	The Employers Representative's decision, in accordance with the conditions of contract, on the substitution of products is final and should such proposed substitution not be approved by the Employers Representative then the tenderer will be required to use the named product, and any additional costs either direct or indirect will lie with the tenderer.	1	item		
1.61	OR EQUIVALENT means that products of different manufacture may be substituted if prior approval has been obtained, but the Employers Representative reserves the right to insist on the named product(s). The rates or prices will be held to be based on the product(s) specified, unless agreed otherwise.	1	item		
1.62	SUBSTITUTION OF PRODUCTS / EQUIVALENT PRODUCTS: Where the specification permits substitution of a product of different manufacture to that specified and such substitution is desired, before ordering the product obtain the written approval from the Employers Representative. Only products equal or superior to those specified may be proposed. The contractor should also submit reasons for the proposed substitution together with the following documentation as outlined below to be submitted for both the specified product and the proposed alternative, both to be assembled and tabled as a package for approval, see also the schedule of samples in the Quality Control Section as outlined in the consultants specifications:	1	item		
1.63	From the date of submission of the above information allow 10 working days for Employers Representative approval and a further 10 working days for any subsequent revised submissions. The following information must be provided:	1	item		
1.64	- Manufacturer and product reference.	1	item		
1.65	- cost.	1	item		
1.66	- availability.	1	item		
1.67	- relevant standards.	1	item		
1.68	- performance.	1	item		
1.69	- function.	1	item		
1.70	- compatibility of accessories.	1	item		
1.71	- proposed revisions to drawings and specification.	1	item		
1.72	- compatibility with adjacent work.	1	item		
1.73	- appearance / size.	1	item		
1.74	- typical details / shop drawings.	1	item		
1.75	- copy of warranty / guarantee.	1	item		
1.76	Any proposal for use of an alternative product must also include proposals for substitution of compatible accessory products and variation of details as necessary, with evidence of equivalent durability, function and aesthetic appearance of the construction as a whole. If such substitution is sanctioned, and before ordering products, provide revised drawings, specification and manufacturer's guarantee as required by the Employer's Representative.	1	item		
1.77	Whenever products are stated by proprietary name and the phrase or equivalent is not included it is to be deemed included AIR - TIGHTNESS TESTING	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.78	(3m3/m2/hr @ 50Pa)Airtight and Blow Door Tests; All houses shall achieve an air permeability of (3.00 m3/ (hr.m2) at a test pressure of 50 Pa, when tested in accordance with the requirements BS EN 13829:2001;The airtightness of the works will be measured by means of the blow door test,; The contractor will carry out two blow door tests per dwelling one after all first-fix works have been installed, before the first coat of plaster is applied; the second test will be done near completion of the works; a recognized building airtightness specialist approved by the Architect/design team shall be appointed; all to Architects Specification; The locations and measures to be tested are located within each house type. Refer also to Architects Drawings & Specification Section L50. Each unit to be Tested. Any costs arising out of test failure(s) which can be attributed to the poor workmanship and improper detailing of domestic and nominated sub-contractors, including the cost of repeat test(s) shall be at the expense of the Contractor.	1	item		
	SOUND & ACOUSTIC TESTING				
1.79	The contractor will be required to carry out sound testing in accordance with Building Regulations Part E 2014 for all units; sound insulation testing shall be carried out to the following standards I.S. EN ISO 16283-1: 2014;; I.S. EN ISO 16283-2: 2015;; I.S. EN ISO 717-1 2013; I.S. EN ISO 717-2: 2013; I.S. EN ISO 3382-2: 2008. The sound insulation tests should not be carried out until the dwellings either side of the separating element are essentially complete, except for decoration. Rooms should be unfurnished during testing. All results will be registered with SITRI and with the Task No and Password included in the report, refer to Architects Specifications and Drawings for Details. Include for all disruption associated with the requirement to vacate the premises during the test(s) sealing all inlet/outlet grilles and flues, air supply openings, wedging internal doors open/closed as appropriate, closing fire dampers and any other measures necessary to allow testing to be completed. Any costs arising out of test failure(s) which can be attributed to the poor workmanship and improper detailing of domestic and nominated sub-contractors, including the cost of repeat test(s) shall be at the expense of the Contractor. Contractor shall note that 6 test are required in each set of tests. (4 individual tests total for the houses- 2 x seperating walls tests, on two houses.) + (12 individual tests total for the duplexes: 2x seperating wall, 2x seperating floor, 2x impact floor, on two duplexes)	1	item		
	ATTENDANCES REQUIRED FOR SOUND TESTING				
1.80	The rooms must be unfurnished at the time of the test, soft furnishings to floors etc. must be removed or a test method agreed with building control & BET ahead of the test.	1	item		
1.81	Rooms must be empty, please ensure all construction materials are removed from the rooms under test.	1	item		
1.82	There will be no Construction Noise at the time of the test. Construction noise will compromise the accuracy of the test results.	1	item		
1.83	Rooms must be in their FINAL state, all internal doors etc should be hung ahead of the test and be closeable	1	item		
1.84	All Heating & mechanical ventilation systems must be turned off.	1	item		
1.85	Any internal noise sources including fridges, smoke alarms, heat pumps etc in rooms adjacent to the test areas should be switched of for the test.	1	item		
1.86	The ground floor internal and external area within 5m of the equipment/doorway must be level, clean and clear of all loose material. Vehicular access is required to within 3.0m of entrance doorway	1	item		
1.87	The Contractor must ensure that no access is given to the buildings under test to personnel other than those carrying out the test during the test.	1	item		
1.88	Notices must be posted at all entry and exit points to the building; "ACOUSTIC TEST IN PROGRESS DO NOT OPEN"	1	item		
	VENTILATION TEST				
1.89	Part F Ventilation Test; Ventilation systems should be validated, to ensure that they achieve the design flow rates, by an independent competent person certified by an independent third party e.g. NSAI or equivalent.	1	item		
	FORM OF CONTRACT				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 1 – PRELIMINARIES

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.90	Form of Agreement and Conditions of Contract shall be the Public Works Contract for Building Works Designed by the Employer, as issued by the Department of Finance, PW-CF5 v.2.9 dated 25th November 2025. The following Clauses in the above mentioned conditions shall apply to this Contract and the Tenderer shall enter in the money column whatever payments he may require to comply with these clauses (except where otherwise instructed). Amendments are also listed here under.	1	item		
1.91	A schedule of the Clause headings in the Conditions of Contract has been set out below to enable the Contractor to allow for the cost of complying with the Conditions. Should any Clause be left unpriced the cost of complying with these Clauses shall be deemed to be included with the unit rates elsewhere in this Pricing Document. The provisions of the European Communities (Late Payments in Commercial Transactions Regulations 2002) will apply.	1	item		
1.92	Allow for the obligations, liabilities and services described therein against the headings set out below. <u>Articles of Agreement</u>	1	item		
1.93	Articles of Agreement 1 - 6 <u>Schedule of Conditions, Clause Headings in Agreement Conditons</u>				
1.94	1 The Contract	1	item		
1.95	1.1 Definitions	1	item		
1.96	1.2 Interpretation	1	item		
1.97	1.3 Inconsistencies	1	item		
1.98	1.4 Pricing Document and Works Proposals	1	item		
1.99	1.5 Performance Bond	1	item		
1.100	1.6 Parent Company Guarantee	1	item		
1.101	1.7 Joint Ventures	1	item		
1.102	1.8 Assignment	1	item		
1.103	1.9 Miscellaneous	1	item		
1.104	1.10 Background Information	1	item		
1.105	2 The Law	1	item		
1.106	2.1 Law governing the Contract	1	item		
1.107	2.2 Compliance with Legal Requirements	1	item		
1.108	2.3 Consents	1	item		
1.109	2.4 Project Supervisor	1	item		
1.110	2.5 Safety Health and Welfare at Work Act 2005 and Safety, Health & Welfare at Work (Construction) Regulations 2013	1	item		
1.111	2.6 Ethics in Public Office	1	item		
1.112	2.7 Data Protection	1	item		
1.113	3 Loss, Damage and Injury	1	item		
1.114	3.1 Employer's Risk of Loss and Damage to the Works	1	item		
1.115	3.2 Care of the Works	1	item		
1.116	3.3 Insurance of the Works and Other Risk Items	1	item		
1.117	3.4 Contractor's Indemnity	1	item		
1.118	3.5 Employer's Indemnity	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 1 – PRELIMINARIES

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.119	3.6 Public Liability and Employer's Liability Insurances	1	item		
1.120	3.7 Professional Indemnity Insurance	1	item		
1.121	3.8 Existing Facilities and Use or Occupation by Employer	1	item		
1.122	3.9 General requirements in relation to insurance	1	item		
1.123	3.10 Limited Liability	1	item		
1.124	4 Management		item		
1.125	4.1 Co-operation	1	item		
1.126	4.2 Contractor's Representative and Supervisor	1	item		
1.127	4.3 Employer's Representative	1	item		
1.128	4.4 Employer's Representative Communications	1	item		
1.129	4.5 Instructions	1	item		
1.130	4.6 Works Proposals	1	item		
1.131	4.7 Required Contractor Submissions	1	item		
1.132	4.8 (Not Used)	1	item		
1.133	4.9 Programme	1	item		
1.134	4.10 Progress Reports	1	item		
1.135	4.11 Notice and time for Employer's obligations	1	item		
1.136	4.12 Documents	1	item		
1.137	4.13 Contractors Management	1	item		
1.138	4.14 Communications	1	item		
1.139	4.15 Meetings	1	item		
1.140	4.16 Confidentiality and Secrecy	1	item		
1.141	4.17 Contractor's Things Not to be Removed	1	item		
1.142	4.18 Contractor's Documents	1	item		
1.143	5 Contractor's Personnel	1	item		
1.144	5.1 Contractor's Personnel to carry out Contractor's Obligations	1	item		
1.145	5.2 Qualifications and Competence	1	item		
1.146	5.3 Pay and Conditions of Employment	1	item		
1.147	5.4 Subcontractors and Specialists	1	item		
1.148	5.5 Collateral Warranties	1	item		
1.149	5.6 Removal of Workers	1	item		
1.150	5.7 Weekly Labour Records	1	item		
1.151	5.8 Ancillary Certificates	1	item		
1.152	6 Property	1	item		
1.153	6.1 Ownership of Works Items	1	item		
1.154	6.2 Infringement of Property Rights	1	item		
1.155	6.3 Works Requirements	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 1 – PRELIMINARIES

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.156	6.4 Rights in Contractor's Documents	1	item		
1.157	7 The Site	1	item		
1.158	7.1 Lands Made Available for the Works	1	item		
1.159	7.2 Trespassers	1	item		
1.160	7.3 Contractor Responsible for all Site Operations	1	item		
1.161	7.4 Services for Employer's Facilities	1	item		
1.162	7.5 Security and Safety of the Site and Nuisance	1	item		
1.163	7.6 Other Contractors	1	item		
1.164	7.7 Setting Out the Works	1	item		
1.165	7.8 Archaeological Objects and Human Remains	1	item		
1.166	7.9 Access & Facilities	1	item		
1.167	7.10 (Not Used)	1	item		
1.168	7.11 (Not Used)	1	item		
1.169	7.12 Charges	1	item		
1.170	8 Quality, Testing and Defects	1	item		
1.171	8.1 Standards fo Workmanship and Works Item	1	item		
1.172	8.2 Quality Assurance	1	item		
1.173	8.3 Inspection	1	item		
1.174	8.4 Tests	1	item		
1.175	8.5 Defects	1	item		
1.176	8.6 Defects Period	1	item		
1.177	8.7 Defects Certificate	1	item		
1.178	9 Time and Completion	1	item		
1.179	9.1 Starting Date	1	item		
1.180	9.2 Suspension	1	item		
1.181	9.3 Delay and Extension of Time	1	item		
1.182	9.4 Programme Contingency	1	item		
1.183	9.5 Omissions and Reduction of Time	1	item		
1.184	9.6 Substantial Completion	1	item		
1.185	9.7 (Not Used)	1	item		
1.186	9.8 Liquidated Damages	1	item		
1.187	10 Claims and Adjustments	1	item		
1.188	10.1 Compensation Event	1	item		
1.189	10.2 Contractor to Pay Employers Cost of Checking Quantities	1	item		
1.190	10.3 Contractor Claims	1	item		
1.191	10.4 Proposed Instructions	1	item		
1.192	10.5 Employers Representative's Determination	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 1 – PRELIMINARIES

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.193	10.6 Adjustments to the Contract Sum	1	item		
1.194	10.7 Delay Cost	1	item		
1.195	10.8 (not used)	1	item		
1.196	10.9 Employer's Claims	1	item		
1.197	11 Payment	1	item		
1.198	11.1 Interim Payment	1	item		
1.199	11.2 Unfixed Works Item	1	item		
1.200	11.3 Retention	1	item		
1.201	11.4 Full payment	1	item		
1.202	11.5 Final Statement	1	item		
1.203	11.6 Time for Payment and Interest	1	item		
1.204	11.7 Value Added Tax	1	item		
1.205	11.8 Withholding Tax	1	item		
1.206	12 Termination	1	item		
1.207	12.1 Termination on Contractor Default	1	item		
1.208	12.2 Consequences of Deafult Termination	1	item		
1.209	12.3 Suspension by the Contractor	1	item		
1.210	12.4 Termination by the Contractor	1	item		
1.211	12.5 Termination at Employer's Election	1	item		
1.212	12.6 Consequence of Termination by Contractor or at Employer's Election	1	item		
1.213	12.7 Survival	1	item		
1.214	12.8 Payment	1	item		
1.215	12.9 Reference to Conciliation	1	item		
1.216	13 Disputes	1	item		
1.217	13.1 Conciliation	1	item		
1.218	13.2 Adjudication	1	item		
1.219	13.3 Arbitration	1	item		
1.220	13.4 Jurisdiction	1	item		
1.221	13.5 Agent for Service	1	item		
1.222	13.6 Continuing Obligations.	1	item		
1.223	14 Covid-19 Mandatory Closure	1	item		
1.224	14.1 Covid 19 Definiations	1	item		
1.225	14.2 Covid 19 General Provisions	1	item		
1.226	14.3 Covid 19 Costs	1	item		
1.227	15 Price Variation	1	item		
1.228	15.1 Definitions	1	item		
1.229	15.2 Contract Sum Adjustments	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 1 – PRELIMINARIES

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.230	15.3 Proportions	1	item		
1.231	15.4 Change in Law	1	item		
1.232	15.5 Failure to Commence by the Start Date	1	item		
1.233	15.6 Failure to Complete on Time	1	item		
1.234	15.7 Excluded Amounts	1	item		
1.235	15.8 Revisions to the Index Figures	1	item		
1.236	15.9 Permitted Increases and Permitted Decreases for Material Categories and Fuel Categories	1	item		
1.237	15.10 Adjustments for Labour	1	item		
1.238	15.11 Efficiency	1	item		
1.239	Appendices to Clause 15				
1.240	Appendix 1 Definitions	1	item		
1.241	Appendix 2 Permitted Increases and Permitted Decreases for Materials and Fuel	1	item		
1.242	Appendix 3 Labour	1	item		
	<u>Schedule to Contract</u>				
1.243	The completed Schedules to the Contract, Parts 1, 2 and 3 are included with the Form of Tender.	1	item		
1.244	Non-Compensation Events. Allow for any cost implications in relation to non compensation events arising from Schedule Part 1.	1	item		
1.245	Period for Practical Completion - See Schedule Part 1, Item G.	1	item		
1.246	Liquidated and Ascertained Damages.-See Schedule Part 1, Item G	1	item		
1.247	Defects Liability Period.-See Schedule Part 1 Item I	1	item		
1.248	Period for Interim Payment-See Schedule Part 1 Item L	1	item		
1.249	Time for receipt of Certificate-Ten working days.	1	item		
1.250	Time for honouring Certificate-Fifteen Working days	1	item		
1.251	Percentage of Certified Value Retained - See Schedule Part 1 Item L	1	item		
1.252	Performance Bond - See Schedule Part 1 Item E	1	item		
1.253	Programme Contingency - See Schedule Part 1 Item K	1	item		
	BOND				
1.254	Allow for providing a Guarantee Bond with an approved Insurance Company or Licensed Bondsman, for the due and proper performance and completion of the contract within the contract period, for an amount equal to 12.5% of the initial contract sum inclusive of VAT up to certification of Substantial Completion and 6.25% of the initial contract sum inclusive of VAT for a period of 15 months from the date of Substantial Completion. Include for all premiums and fees in connection. The Bond shall be in favour of the Employer and shall incorporate a clause permitting variations under the terms of the contract without reference to the Bonding Company. The amount of the Bond shall not be varied except on the written instructions of the ER. The Notification period to the Bonding Company will be not less than 3 months. (THE AMOUNT FOR BOND TO BE INCLUDED IN THE GENERAL SUMMARY)	1	item		
	TENDERING				
	<u>MAIN CONTRACT TENDERING</u>				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.255	SCOPE : These Conditions are supplementary to those stated in the invitation to tender and on the Form of Tender including Schedules Part 1 and 2 PROVISION, USE AND INTERPRETATION OF DOCUMENTS <u>PROVISION AND USE</u>	1	item		
1.256	ADDITIONAL COPIES OF DRAWINGS : two copies of drawings (not counting any certified copy of the Contract Drawings) will be issued to the Contractor free-of-charge. Additional copies will be issued on request but will be charged to the Contractor	1	item		
1.257	DIMENSIONS : do not scale from drawings. Obtain from Architect any dimensions required but not given in figures on the drawings nor calculable from figures on the drawings	1	item		
1.258	"METHOD OF MEASUREMENT : The Bill of Quantities is based on the Agreed Rules of Measurement (ARM4) agreed between the Construction Industry Federation; and the Society of Chartered Surveyors in the Republic of Ireland; any significant departures are referred to as they arise. The Bill of Quantities is prepared and measurements are made in accordance with the Department of Finance approved list of amendments to ARM4 when the rules are being used on the new Public Works Contract Designed by the Employer"	1	item		
1.259	ORDERING OF MATERIALS : do not use the measured quantities for ordering of materials and products	1	item		
1.260	TECHNICAL LITERATURE : copies of the following must be kept on site readily accessible for reference by all supervisory personnel	1	item		
1.261	1. Manufacturers literature relating to all products to be used in the Works.	1	item		
1.262	2. Relevant EN, IS and BS Standards and Codes Practice	1	item		
1.263	MAINTENANCE INSTRUCTIONS AND GUARANTEES provided by product and equipment manufacturers to be handed over to the Employer's Representative on or before substantial completion	1	item		
1.264	IN WRITING : Comply with all conditions of contract that require to be in WRITING	1	item		
1.265	SUPPLY AND FIX : Unless stated otherwise all items given in the Bill of Quantities and / or on the Drawings and in the Specifications are to be supplied and fixed complete CONTRACT CLARIFICATIONS	1	item		
1.266	Notwithstanding the provisions of Clause 10.1.1 of the Public Works Contract for Building Works designed by the Employer, a compensation event is defined as any addition, omission or substitution of any provision within the works requirements at the instruction of the employers representative and such addition, omission or substitution will be valued in accordance with the provisions of Clause 10.6 to determine the necessary upward or downward adjustment to the contract sum. A compensation event shall only result in an increase to the contract sum provided that the conditions set out in items (1) to (4) of Clause 10.1.1 are satisfied. SEQUENCE OF WORK	1	item		
1.267	"The Contractor shall programme the work in order to comply with the completion dates advised in the Schedules. This may involve the execution of work by individual trades in various different stages in the programme. It may be necessary for some trades to complete their work over a number of site visits. The Contractor shall include here for all costs arising from such occurrences."	1	item		
1.268	No extra amounts shall be paid to the Contractor due to the effect of the programme on sequence of work. SPECIAL REQUIREMENTS ACCESS TO SITE AND SITE DELIVERIES	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.269	The Contractor should take particular cognissance of the fact that the main road of which the entrance is off will be used by a multiple of users including the Staff, General Public Alike, Employees, Visitors, Workmen, Delivery Men and the Contractor's own Personnel and representatives / employees. Because of this, the Contractor must ensure that these accesses are clearly marked so that the Staff, General Public and all Delivery Men/ Sub - Contractors and the like are fully aware of them. He must ensure that these accesses are kept clear at all times particularly as they are used constantly by others as defined previously. All adequate hoarding, directional signage, necessary lighting/ security/ watching etc and Health and Safety precautions must be provided for throughout the Contract and removed upon completion of the works. Signage must be adequate to inform Delivery men carrying materials to the site of the fact that the site access and delivery access is shared by others and that special cognissance and the necessary measures must taken by the Delivery Men and the Contractor of this fact. All areas disturbed to be replaced at the Contractor's own expenses. Failure to comply with these requirements will not entitle the Contractor to any additional extras. TEMPORARY TRAFFIC MANAGEMENT	1	item		
1.270	The contractor shall undertake the role of Designer for Temporary Traffic Works / Traffic Management (TTM). The Designer (TTM) is responsible for the design of the temporary traffic management arrangements and the preparation of the Temporary Traffic Management Plan for the site and shall apply for and secure all road opening licences necessary to execute the works. The Temporary Traffic Management Plan should be provided to the PSDP for inclusion in the Preliminary Safety and Health Plan. The Temporary Traffic Management Plan may need further development to deal with specific operations during the construction stage.	1	item		
1.271	Performance of the duties of Designer of Temporary Works / Traffic Management, is as specified in the Safety, Health and Welfare at Work (Construction) Regulations 2013 (S.I. No. 291) of 2013 and the Guidance for the Control and Management of Traffic at Road Works (Chapter 8 of the Department of Transport's Traffic Signs Manual) and any updates to these documents that may occur during the lifetime of the project/contract. Signed acceptance of this role will form part of the contract documentation. ADJACENT / ATTACHED PROPERTY / SITE WORKS / SITE SERVICES	1	item		
1.272	The Contractor must take particular cognissance of the surrounding / adjacent property and site works / site services to his working area and site boundaries. These areas will be in constant use for the full duration of the Contract. These areas are strictly outside of the Contractor's compound / site working area . Any damage whatsoever caused by the Contractor's personnel or representatives as a result of the works to these areas / properties will be rectified at the Contractor's own expense. CONDITION SURVEY	1	item		
1.273	The Contractor is to allow for detailed pre-construction and detailed post construction dilapidation surveys of all shared boundary walls and adjoining properties as well as liaison with adjoining owners and/or their representatives. The Contractor is to allow for liaising with and providing detailed methodologies for works close to adjoining properties to the adjoining owners and/or their representatives. Two number copies of all surveys are to be made available to the Architect. The Contractor is to communicate to the adjoining owners the updated programme of works on a regular basis.	1	item		
1.274	The Contractor shall carry out all necessary monitoring for the duration of the contract and the defects liability period. The contractor will be responsible for making good at his own expense all remedial works (if any) as a result of his own work on site HEALTH AND SAFETY ISSUES	1	item		
1.275	The Contractor should pay particular attention to the Health and Safety requirements for both the Site and the Generally Public alike. He must ensure that safety measures and procedures are in line with current Health and Safety Regulations and are operative at all times during the course of his works with particular cognissance been taken of the fact that there will be constant use of the Shared Access Road . He has a responsibility to ensure that all necessary precautions will be taken to provide adequate Health and Safety Works for the entire Project, which will include but not limited to, adequate signage, lighting, hoarding, plankways, temporary footpaths, barriers and the like. Public Access must be kept clear at all times for Emergency Access. Failure to comply with this requirement will not entitle the Contractor to any additional extras	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
	HEALTH AND SAFETY PLAN				
1.276	The Contractor must ensure that he provides for all items as outlined in the enclosed Preliminary Health and Safety Plan in his pricing of this item. Failure to comply with this requirement will not entitle the Contractor to any additional extras	1	item		
	PERMISSIONS / INSURANCE REQUIREMENTS				
1.277	The Contractor when carrying out Site Services Works outside the Site Boundary which necessitates him working on the Public Road and in adjacent Properties owned by separate entities must ensure that he has obtained permission from the Relevant bodies to carry out these works and must agree a suitable programme with the relevant personnel that is amenable to all parties. He must ensure also that he has the necessary insurances in place to enable him to carry out this work and must inform his insurance companies that he will be carrying out work outside of his site boundaries and will require his insurances to be extended to cover same and require him also to ensure that all insurance bodies insuring both his works and these works communicate to ensure full cover is in place. He must ensure that he includes in his pricing of this item for this requirement. Failure to do so will not entitle the Contractor to any additional extras.	1	item		
	EXISTING SITE SERVICES				
1.278	The Contractor's particular attention is drawn to the existing site services and must ensure that these services are kept operative at all times during the course of the Contract and must maintain flow of same and leave perfect on completion. Any damage caused will be rectified at the Contractor's own expense. Failure to comply with this requirement will not entitle the Contractor to any additional extras.	1	item		
	WORK HOURS				
1.279	Restrictions on Working hours shall be as follows: 8.00am - 7.00pm - Monday to Saturday; No activity on Site on Sundays and Public Holidays.	1	item		
	SECURITY				
1.280	The Contractor should take particular cognisance of the Security Provisions required to maintain the Site in a safe and effective manner both during the day and night. He must provide everything necessary for full security for the duration of the works including Adequate Hoarding, Lockable Gates, Lock Ups, Site Security, Site Surveillance. Failure to comply with this requirement will not entitle the Contractor to any additional extras.	1	item		
	CLEANING OF PUBLIC ROADS AND ACCESS ROADS DUE TO CONSTRUCTION TRAFFIC				
1.281	The Contractor is to include here for cleaning on a daily basis access roads to site and public roads to site that incur muck and general dirt due to the construction works generally. Regular cleaning must be undertaken. Failure to comply with this requirement will not entitle the Contractor to any additional extras.	1	item		
	OBLIGATIONS AND RESTRICTIONS IMPOSED BY THE EMPLOYER				
1.282	The Employer's Representative and any person authorised by him shall at all reasonable times have access to the Works and to the site and to all Workshops and places where work is being prepared or where materials, manufactured articles and machinery are being obtained for the Works.	1	item		
1.283	The Contractor shall, if required, allow access to the site and building for staff of the Employer, ESB, Eircom, Forbairt, Eolas or others carrying out inspections, tests, telephone and/or other installations on behalf of the Employer. He shall also allow access to Employer's contractors or staff in the delivery, storage and execution of furnishing or other fitting out work.	1	item		
	SOCIAL INCLUSION				
1.284	Contractor shall comply with the local employment scheme to be determined by the minister upon the enactment of this Act	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.285	Contractor to recruit one long term unemployed person, directly or through the supply chain, for each €1,000,000 of project value while retaining all current employees of the company	1	item		
1.286	Contractor shall recruit one apprentice, directly or through the supply chain, for each €2,000,000 of project value	1	item		
1.287	The Contractor, during the construction stage, will ensure that a minimum of 10% of the aggregate number of person weeks, i.e. the amount of work done by an individual work based on a 39 hour working week, is to be carried out by contractors personnel who are registered on a national unemployment register within the EU for a continuous period of at least 12 months immediately prior to their employment specifically for the purposes of this Contract ("Relevant Workers"). Personnel who commence employment more than four weeks prior to the issue of the Letter of Acceptance shall not be considered a Relevant Worker. The Contractor are to use all reasonable endeavours to ensure that these objectives are met.	1	item		
1.288	The Employer undertakes to assist the Contractor and any Specialists/Sub-contractors to provide employment opportunities by providing details of agencies that can assist in the recruitment of suitable employees. Any action taken by the Employer, or its agents, does not imply, and must not be deemed to imply any promise to provide suitable labour/agencies, and does not imply and must not be deemed to imply that any individuals or agencies referred to the Contractors are suitable for engagement. The Contractor will be required to provide regular monitoring information to the Employers Representative, which is to be provided every 3 months for the duration of the construction stage. The primary function of the monitoring information will be to enable the Employer to measure and produce reports on the Contractors performance against the social benefit performance measures. The format of the monitoring reports will be agreed between the Employer and the Contractor. To comply with the Data Protection Act, all monitoring and training documents must include a statement authorising the Contractor to disclose personal data to the Employers Representative/Employer for the purposes of monitoring performance and reporting on the implementation/outcome of the inclusion of Social Benefit requirements."		item		
1.289	Any other Social clause which the Minister or public authority sees fit to be included in the contract Possession of the site	1	item		
1.290	The Contractor shall be given possession of the site at the commencement of the Works, and he shall take entire charge of the Building Works from commencement to completion of same. He shall be held responsible for and shall make good all injuries, damages and repairs occasioned or rendered necessary to same by any act whatsoever.	1	item		
1.291	The Contractor shall be entirely responsible for security on the site. Limitations of Working Space	1	item		
1.292	The Contractor's working area for the Works will be confined within the site bounded of each site. The Contractor shall confine his operations strictly within these areas and shall take absolute precautions to prevent anyone concerned with the Works from entering the the sites unless specifically in connection with the Works.	1	item		
1.293	The Contractor shall erect temporary hoardings, fences/screens and walkways around the site as necessary and allow access facility for the Employer and/or his agents from time to time.	1	item		
1.294	In relation to any operations required to be carried out outside the immediate area of the Works, the Contractor shall consult with the Employer regarding suitable times for the execution of such work and programme his operations accordingly particularly in relation to the works in the existing service road area	1	item		
1.295	The Contractor shall give, in writing, a minimum notice of ten working days to the Employer's Representative and Local Authorities of interruptions to any of the existing services on or adjacent to the site. Limitations of Working Hours	1	item		
1.296	When working of overtime is made a Condition of Employment in any particular trade, no claim for extra payment shall be made under this heading.	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
	RELICS				
1.297	All fossils, coins, articles, antiquities, structures and other remains or things discovered on the site of the Works or in excavating shall be the absolute property of the Employer and the Contractor shall take all precautions to prevent his workmen or any other persons from removing or damaging any such articles or things and shall immediately upon discovery thereof and before removal acquaint the Employer's Representative of such discovery and except insofar as is provided under the Contract for the removal and disposal of rubble, rubbish, demolished material, etc., shall carry out at the expense of the Employer the Employer's Representative orders as to the disposal of same. The Contractor must take all steps which may be necessary to preserve the objects in the exact positions and conditions in which they are found.	1	item		
1.298	The Contractor shall provide all necessary temporary watching and lighting, screens, including dust proof screens, fencing, hoardings, fans, footways, guard rails, signs, traffic control and the like for Works outside the site boundary for the absolute protection and convenience of the public. Maintain, alter, shift and adapt same from time to time as necessary, remove on completion and make good areas.	1	item		
	Maintenance of Existing Services				
1.299	Protect, uphold, maintain all pipes, existing watermain, ducts, sewers, service mains, overhead cables and associated items etc., during the execution of the Works. The Contractor is to make good any damage due to any cause within his control at his own expense and pay any costs and charges in connection therewith.	1	item		
1.300	The Contractor shall take absolute precautions to ensure that any vital telecommunications or other services cables on or in the vicinity of the site are fully protected from damage so that no interruption or disruption to the operation of these will be caused. Any damage caused will be rectified at the Contractor's own expense	1	item		
1.301	The Contractor will be held responsible for any damage caused through his want of proper care to any fittings, equipment or machinery installed by the Employer's staff, ESB, Eircom Engineers or others, whether part of the Building Works or adjoining the site.	1	item		
	TIME FOR COMPLETION				
1.302	The whole of the works shall be completed as stated in Schedule 1 Item G.	1	item		
	DEFECTS LIABILITY PERIOD				
1.303	The work shall be maintained by the Contractor in perfect condition for Twelve months after the issue of the Architects Certificate of practical completion. During that period defects shall be made good by the Contractor at his own expense before the issue of Certificate for Payment of the percentage deductions referred to in the Conditions of Contract.	1	item		
	VISIT THE SITE				
1.304	The Contractor is advised to visit the site and ascertain the access thereto, the supply of labour and materials the district will afford and the general convenience of working, the nature of the soil, the nature, character, dimensions, levels and other features of the site, all existing buildings and existing site services including foul / surface water, telecom, gas and electricity thereon and all other things insofar as they may have any connection with the effect of the Works. The Contractors' rates shall cover the contingency of water, running and unstable silt or other soil conditions, other than rock which may be encountered in the excavations, and under no circumstances will any extra be allowed should same be met. The Contractor will be deemed to have taken all the above matters into account when tendering and no charge for any extra labour or materials will be allowed in consequence of the Contractor's failure to do this.	1	item		
	CONTRACTORS ADMINISTRATIVE ARRANGEMENTS				
	HEALTH, SAFETY, AND WELFARE AT WORK (CONSTRUCTION) REGULATIONS 2013				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.305	The Contractor is take note of all references to the Safety & Health at Work Regulations pertaining to 2005, 2006, 2007 and any further ammendments in 2013, and the Safety Health and Welfare at Work (General Application) Regulations 1993 as identified in the Preliminary Safety and Health Plan throughout. The Contractor is deemed to have made full allowance for the Provisions of these acts in his pricing of these items. Failure to comply with this requirement will not entitle the Contractor to any additional extras	1	item		
1.306	The Contractor shall include for complying with the Safety, Health and Welfare at Work Acts and Regulations 1995, 2005 and the New Safety, Health & Welfare at Work Acts (Construction) Regulations 2006 & 2013. He shall include for these requirements / duties in his pricing of this item. Failure to do so will not entitle the Contractor to any additional extras	1	item		
1.307	The Contractor should note that the Project Supervisor Construction Stage (PSCS) will be appointed under the New Regulations (Safety, Health & Welfare at Work - Constructions Regulations 2006). Under this appointment he will be responsible for "coordinating the design of temporary works to facilitate the construction of the Project". The Contractor must allow in his pricing of this item for this requirement. Failure to do so will not entitle the Contractor to any additional extras	1	item		
1.308	The Contractor shall be appointed by the Client, under a collateral agreement to the Main Contract, as Project Supervisor for the Construction Stage in respect of the project persuant to the Safety, Health and Welfare at Work (Construction) Regulations 2013.	1	item		
1.309	The Contractor shall prepare, assemble and complete the safety file including trade literature, how maintenance will be carried out safely including access, M&E services manuals and "As Built" drawings. The Contractor will be responsible for assembling specialist sub-contractors maintenance manuals, drawings, etc., (show exact dimensional locations of all underground services) 2 nr copies to be given to Client upon completion	1	item		
1.310	The Contractor will be responsible for providing all management, labour resources, plant, offices, equipment and facilities to meet Safety, Health and Welfare Regulations 2013 on site for himself and specialist sub-contractors, also to keep records of accidents or incidents on site.	1	item		
1.311	The Contractor shall include for the procuring that the insurance cover required to be obtained and maintained by the Contractor pursuant to Clause 3 of the Main Contract and shall provide indemnity in respect of any claim for bodily injury or property damage which the Contractor may incur by reason of the performance of the functions and duties of the Project Supervisor for the Construction Stage of the project.	1	item		
1.312	The Contractor shall include for providing all necessary information as requested by the Project Supervisor for the Construction Stage to enable the preparation and completion of the Safety File, excluding drawings and specifications which shall be provided by the appropriate member of the Design Team and relevant Specialist Sub-Contractors.	1	item		
1.313	The Contractor shall include for providing assistance to the appropriate member of the Design Team and to relevant Specialist Sub-Contractors in preparing "As Built" drawings for inclusion in the Safety File.	1	item		
1.314	The Contractor shall give to the Architect at Substantial Completion two copies of all manufacturers, suppliers and/or Sub-Contractors maintenance instructions in the form of a comprehensive maintenance manual, including "As Built" or "As Installed" drawings, including the locations of all concealed services, in electronic format, (AutoCad).	1	item		
1.315	The Contractor shall furnish to the Architect at the same time a full set of "As Built" drawings of the Works in electronic format (AutoCad).	1	item		
1.316	The 2nr copies of the completed Safety File shall be avialable for handover at Substantial Completion. Release of the first moiety of retention will not be made until the full and complete Safety Files have been issued to the client.	1	note		
1.317	Provide adequate protective clithing and safety equipment for the representatives of the Employer and Consultants. These shall include, but are not limited to, the following :- TEMPORARY ACCOMMODATION	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.318	ACCOMMODATION: provide as necessary temporary sheds, offices, messrooms, sanitary accommodation and other temporary buildings required for your own use and domestic sub-contractors use. Thoroughly clean area used for location of accommodation, make good and leave in unimpaired condition on practical completion of the Works.				
1.319	ROOM FOR MEETINGS: provide suitable temporary accommodation for site meetings and Consultants other meetings, adequately heated and lit, with table and chairs for twelve people. The room may be part of the Contractor's own site offices.				
1.320	SANITARY ACCOMMODATION: connect the temporary sanitary and washing facilities to the existing foul sewer drainage outside the Contractors compound area; the location of the temporary connection is to be agreed jointly with the Architect and Employer. Comply with the Health Authority's standards. The use of dry closets will not be permitted. Make good existing facilities on practical completion of the Works.				
1.321	STORES: Sheds and the like for the storage of materials liable to injury from exposure. Dry cement shed properly roofed and weather-proof and having a wooden floor with a well ventilated clear space of not less than 150mm between timber and ground. This shed shall be sufficiently large to contain such a stock of cement as the Engineer may direct and shall be provided with partitions or such other means as may be necessary to ensure the effective separation of the various consignments. Alternatively with the Engineer's permission an approved type cement silo may be used.	1	item		
1.322	The use of a cement silo will be permitted subject to test by a competent authority of the accuracy of the weighing mechanism. Certificates of accuracy shall be obtained immediately after the erection of the silo on the site and thereafter at monthly intervals. The Contractor shall be responsible for making good and renewing all damage caused to the works or any adjoining property by the use of such silo	1	item		
1.323	BURNING of rubbish etc., on the site will not be permitted. The Contractor shall keep readily available adjacent to the Works in locations approved by the Employers Representative not less than five portable fire extinguishers maintained in efficient working order at all times. Adequate notices covering the above requirements shall be posted on site by the Contractor.	1	item		
1.324	RODENT CONTROL: allow for adequate regular rodent control on site by a specialist rodent control firm for the duration of the Works including adjacent and adjoining properties	1	item		
1.325	No storage of materials which would give rise to emissions to air or water shall be stored on site unless otherwise agreed in writing by the Planning Authority. No noise or vibration, odours, fumes or effluents liable to give rise to reasonable cause for complaint by occupants of properties in the vicinity shall be permitted to emanate from the site.	1	item		
1.326	During the course of construction works, the Contractor shall provide on site covered skip/s or other suitable receptacles for the deposit therein of all rubbish, litter, paper, packaging, rubble and other such material arising from the Works. The Contractor shall ensure that the site and its environs are maintained at all times in a clean and tidy condition. Under no circumstances shall waste be burnt on site.	1	item		
1.327	Any oil tanks to be kept on site shall be bunded to 110% of its effective volume. Walls and base of bund shall be water tight construction and impervious to the passage of oil.	1	item		
	WELFARE FACILITIES	1			
1.328	Provide Welfare Facilities for work people in compliance with the fourth schedule of the safety and welfare at work (construction) regulations.	1	item		
	NOXIOUS WEEDS	1			
1.329	Provide for the destruction of noxious weeds on the site, in accordance with the Current Noxious Weeds Act and Noxious Weed (Thistle, Ragwort and Dock) Order.	1	item		
	THERMOMETERS: provide on site and maintain in accurate condition:				
1.330	1. A maximum and minimum thermometer for measuring atmospheric shade temperature, in an approved location.	1	item		
1.331	2. A thermometer for measuring concrete and ground temperatures.	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
	CLIMATIC CONDITIONS: keep an accurate record of:				
1.332	1. Daily maximum and minimum air temperatures (including overnight).	1	item		
1.333	2. Number of hours per day in which work is prevented by inclement weather.	1	item		
1.334	3. A monthly record of daily rainfall. The records are to be those obtained from the Meteorological Office Station most appropriate for the Site.	1	item		
	CASH FLOW FORECAST				
1.335	CASH FLOW FORECAST: The Contractor shall, within 10 days of the acceptance of his tender, submit to the Employers Representative a cash flow forecast based on the Tender Programme and amended in due course to the Contract Programme. The Contractor shall review the cash flow forecast and incorporate a current review on a running column basis at each valuation, a copy of which will be returned to the Employers Representative forthwith.	1	item		
	WHEEL WASH FACILITY				
1.336	Provide, erect, maintain and remove on completion of the Works a temporary vehicle and plant wheel washing facility complete with plumbing services and drainage. The wheel wash shall be located in a location to be agreed with the Employers Representative. The Contractor shall permanently man the wheel wash and shall be responsible for washing all vehicles and plant clean of mud and the like before they leave the site. The mechanically operated wheel wash shall be installed and commissioned at the commencement of the Works and shall be maintained in operation until the practical completion of the Works. Refer to Engineers Particular Specification Section 27	1	item		
	PROJECT PROGRESS REPORTING				
1.337	Hold regular site meetings as necessary for the proper management and co-ordination of the Contract and as required by the Employers Representative Meetings will normally be held fortnightly. Attend all meetings and inform sub-contractors and suppliers when their presence is required. Notify all consultants. The chair will be taken by the Employers Representative. Minutes will be taken and distributed by the Employers Representative.	1	item		
1.338	Hold meetings with appropriate sub-contractors and suppliers shortly before main site meetings to facilitate accurate reporting on progress.	1	item		
1.339	Meetings shall be held fortnightly for the duration of the construction works (date and time to be agreed between the Contractor and the Architect / Employers Representative). Project Progress Meetings shall be chaired and minuted by the Architect / Employers Representative, with minutes being issued to the contractor for distribution among his team and subcontractors as appropriate.	1	item		
1.340	At each Project Progress meeting, the Contractor shall submit a Project Progress Report detailing the progress of works over the previous two weeks, and a look-ahead detailing proposed works over the coming four weeks. The Project Progress Report shall contain, as a minimum, the following sections:	1	item		
1.341	Health and Safety: A Report of any notifiable accidents or incidents on site, visits or inspections by any regulatory authorities, and a copy of the Contractor's Site Safety Audits.	1	item		
1.342	Progress: A progress report containing the following:	1	item		
1.343	Overall Project Progress Summary, including forecasted completion date.	1	item		
1.344	A copy of the Contractors Programme of works, with all tasks marked-up with progress as at the meeting date.	1	item		
1.345	A summary of progress since the previous meeting; tasks completed, milestones reached, etc.	1	item		
1.346	A look-ahead detailing the main activities to be undertaken or milestones to be reached during the forthcoming 4 week period.	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.347	Information Requirements: An up to date Information Required Register, detailing all contractor queries, date query issued, date by which information is required and date information received.	1	item		
1.348	Procurement Schedule: A report detailing the progress of procurement of domestic subcontract packages.	1	item		
1.349	Resources on Site: A report of the resources (personnel and plant) employed on site over the reporting period.	1	item		
1.350	The precise content and format of the Contractors Progress Report, and the Project Progress meeting agenda and schedule shall be subject to change by agreement between the Contractor and the Employers Representative.	1	item		
	ORDER OF WORK:				
1.351	On being given possession of the site the Contractor will commence and proceed with the execution of the works in such order as may be most appropriate and in accordance with the Employers Representative directions and as set out in the Contract Documents	1	item		
	PROGRAMME, BAR CHART:				
1.352	Prepare a detailed programme in Bar Chart form using MS Project for the completion of the Works within the Contract period.	1	item		
	PROGRAMME NETWORK:				
1.353	Prepare a programme, based on network analysis techniques, for the completion of the works within the Contract period.	1	item		
1.354	(a) (i) All activities shall be planned to have as successor either the milestone indicating a Key Date, the milestone indicating the Date for Completion or another activity.	1	item		
1.355	(ii) No activities shall be constrained by:	1	item		
1.356	- Mandatory date constraints	1	item		
1.357	- Preferential early or late finishing constraints	1	item		
1.358	- Zero float constraints	1	item		
1.359	(b) The programme is to indicate all periods during which it is planned that no work shall be carried out including all holiday periods or other non-working days between the Commencement Date and the Date for Substantial Completion.	1	item		
1.360	(c) The programme shall include the logical interface and Key Dates by which input is required from others including but not limited to the following; suppliers, sub-contractors and their suppliers, nominated sub-contractors and suppliers, statutory undertakings, statutory authorities and utility providers. The interface information should include but is not limited to:	1	item		
1.361	- Off-site fabrication and delivery	1	item		
1.362	- Work on site	1	item		
1.363	- Drawings, materials or samples and the approval period in respect of each submission of design work for approval	1	item		
1.364	(d) The programme shall illustrate with milestones the logical interface preceding and succeeding the following Key Dates:	1	item		
1.365	- Substantial Completion of the Works	1	item		
1.366	- Substantial Completion of defined sections of the work	1	item		
1.367	- The start and finish of the work of any Specialist Sub-Contractor or supplier	1	item		
1.368	- The start and finish of the work of any Domestic Sub-Contract or supplier	1	item		
1.369	(e) From the date of publication of the programme and any update thereto (min. four weekly update required)	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.370	- For the period ending 3 months from the publication, the duration of any activity shall not exceed 1 week	1	item		
1.371	- For the period commencing at the end of the period identified in 1 above and ending 6 months from publication, the duration of any activity shall not exceed 2 weeks.	1	item		
1.372	- For the period commencing at the end of the period identified and ending at the completion date, the duration of any activity shall not exceed 4 weeks.	1	item		
1.373	(f) In relation to the resources identified under the heading of PROGRAMME RESOURCES below the contractor shall identify the periods planned to be working and the non-working periods.	1	item		
1.374	(g) The duration of any lead or lag shall not exceed 50% of the duration of the predecessor activity. PROGRAMME RESOURCES	1	item		
1.375	In relation to each activity scheduled to commence within the period identified in (e) above the contractor shall indicate the labour and plant resources planned to be needed to carry out the work. NARRATIVE REPORT	1	item		
1.376	The programme submitted by the contractor under the heading of PROGRAMME NETWORK above and any revision thereof should include a narrative report, which shall contain, as a minimum, the following information:	1	item		
1.377	(a) The contractors strategy and methodology for planning and achieving the Date for Completion of the Works given in the Contract;	1	item		
1.378	(b) All relevant data, calculations and assumptions used in deriving all quantities and durations;	1	item		
1.379	(c) Resource planning and sub-contract/supply procurement details to meet the programme requirements;	1	item		
1.380	(d) Anticipated periods for approvals, notifications and procurement items;	1	item		
1.381	(e) Sequence and inter-dependence of all activities including logic links and float;	1	item		
1.382	(f) Identify the critical path and critical resources;	1	item		
1.383	(g) Access proposals;	1	item		
1.384	(h) Co-ordination and interface activities in respect of all interface works with the Employers Representative and other contracts as set out in these documents; and	1	item		
1.385	(i) Any other information that the contractor deems is relevant to explain the order of procedure and timescales within which he proposes to carry out the Works and/or as requested by the Employers Representative. PROGRAMME, COPIES TO THE EMPLOYERS REPRESENTATIVE:	1	item		
1.386	Provide six hard copies (and one electronic copy) of the programme for the Employers Representative within 2 weeks of the date of acceptance of the tender, keep one further copy available for inspection in the site office. PROGRAMME UPDATING:	1	item		
1.387	The Updated Programme will show actual progress and be produced at least on a four weekly basis. The updates shall include any additional activities carried out. Actual progress shall be recorded by means of actual start and actual finish dates for activities, together with percentage completion and remaining duration of currently incomplete activities. Any periods of suspension of an activity should be noted in the updated schedule. It is possible that the updated schedules will show completion later than the contract completion dates. In this event the acceptance of the updated schedules will not constitute acceptance of any delay.	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.388	Every four weeks the contractor shall submit, in electronic and hardcopy format, a programme (the Updated Programme) to the Employers Representative not later than 5 days following the end of the period being reported. The data date for each reporting period shall be as directed by Employers Representative and shall be strictly adhered to by the contractor.	1	item		
1.389	The Updated Programme shall be in exactly the same format, contain the same level of detail as the initial Programme, be accompanied by a narrative report of the same detail as that submitted with the original Programme while also giving an accurate representation of the current status of the Works.	1	item		
1.390	The Updated Programme shall include and clearly define actual start and finish dates, percent complete and remaining durations for all activities including any new or additional activities or omissions, variations to the works as instructed by the Employers Representative in accordance with the Agreement and any extensions of time granted by the Employers Representative.	1	item		
1.391	In the narrative report accompanying the Updated Programme, the contractor shall:	1	item		
1.392	(a) Compare actual progress against anticipated progress in relation to the sequence, quantities, duration, cost and resource details defined on the Programme; and identify any additional activities or changes since the previous update of the Four Weekly Programme, and	1	item		
1.393	(b) Include provision for decisions made in respect of programming or sequencing of the Works at the four weekly design and site progress meetings; and	1	item		
1.394	(c) Identify and describe any current and anticipated problems that may affect the performance of the Works, the factors causing the problem, and their impacts on the project; and	1	item		
1.395	(d) Make particular reference to critical path activities and shall include delay mitigation proposals, where appropriate; and	1	item		
1.396	(e) Include new or revised programme assumptions to be employed in achieving timely completion of the Works.	1	item		
1.397	All claims for Extensions of Time shall be accompanied by a network diagram total float report, narrative report and cost estimates supporting the contractors claim. The contractor shall include the sequence of operations, resource implications and other impacts of any and all work related to each claim.	1	item		
1.398	The contractor shall highlight on the Programme the direct logic links between the cause and effect of the event or events in respect of which he is making his claim. PROGRESS RECORDS:	1	item		
1.399	Maintain an up-to-date record of progress at weekly intervals. Display progress on the Site Office copy of the progress chart. AS BUILT PROGRAMME	1	item		
1.400	The contractor shall within two weeks of substantial completion of the Works provide an As Built Programme of the Works which shall contain a similar level of detail as the original Programme and shall accurately reflect the actual start and finish dates of each activity, all works instructed by Employers Representative and any other information necessary to properly record the actual construction history of the Works.	1	item		
1.401	SITE MEETINGS: hold regular site meetings as necessary for the proper management and co-ordination of the Contract and as required by the Employers Representative. Meetings will normally be held fortnightly. Attend all meetings and inform sub-contractors and suppliers when their presence is required. Notify all consultants. The chair will be taken by the Employers Representative. Minutes will be taken and distributed by the Employers Representative.	1	item		
1.402	SUB-CONTRACTORS SITE MEETINGS: hold meetings with appropriate sub-contractors and suppliers shortly before main site meetings to facilitate accurate reporting on progress.	1	item		
1.403	ADVERSE WEATHER: use all reasonable and approved building aids and methods to prevent or minimise delays during adverse weather conditions.	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
	PROGRESS PHOTOGRAPHS				
1.404	The Contractor must provide at monthly intervals progress photographs of the Project for submission to the Employer's Representative	1	item		
1.405	SITE SURVEY: The Contractor shall satisfy himself in respect of the dimensions, composition and construction of existing buildings: the Employer will make all available information known to the Contractor, however the Contractor shall make his own enquiries and investigations and shall here take notice that the Employer does not in any way whatsoever warrant the accuracy or sufficiency of the information provided.	1	item		
	SOCIAL WELFARE, HEALTH AND SAFETY				
1.406	1. Provide for paying all Employer's contributions under the Social Welfare and Intermittent Unemployment Insurance Acts and for complying with the Social Welfare (Commencement of Employment) Regulations 1988 and 1999. 2 Provide for carrying out the provisions of the Conditions of Employment and Holidays (Employees) Acts, the FAS Levy-Grant Scheme, Health, Safety and Welfare at Work Act, 2005 including the provision of a Safety Statement and all other legislation and Trade Union Conditions of Employment whereby the cost of labour is affected.	1	item		
	DRAINS TAKING IN CHARGE				
1.407	Where works are to be taken in charge by Drainage Division (generally, outside the finished site boundaries), upon notification of completion of the works, the Engineer will prepare a defects list and upon rectification of the defects by the contractor, the Engineer will examine the completed work free of charge. If further examination of the same defects is required, then the contractor must pay the County Council for all expenses associated with all further re-examinations. The cost will be charged to the contractor at the rate of €100 per hour or part thereof. Allow for the co-ordination by the Contractor with the Engineer and allow for all costs associated with the re-examination of defects by the Engineer and for the procurement by the Contractor of the Certification of Completion of the works. The Contractor will provide a detailed "as constructed" drainage layout in an approved format (this may be digital) which will include the following:- 1 Gullies/Manholes x and y co-ordinates, cover and invert level, upstream and downstream pipe diameter, material and direction flow. 2 The layout should be accurately positioned (+/- 300mm relative to local detail) on the latest published version of the Ordnance Survey 1:1000 series. 3 All dimensions to be metric. 4 All levels should be relative to Ordnance Survey Datum, Malin Head, to an accuracy of +/- 25mm and stating benchmark which was used. 5 A list of the National Grid co-ordinates (accurate to +/- 300mm) for the manholes should be supplied. 6 Quality control checks should be carried out on site, on an approved number of manholes/gullies, on information supplied in a digital format, under the supervision of the Drainage Design Division.	1	item		
	CUSTOM DUTIES				
1.408	The Contractor will be deemed to have included in his tender for all customs and other duties legally payable at the date of Tender.	1	item		
	MATERIALS AND WORKMANSHIP				
1.409	Materials for the works shall be of Irish Manufacture wherever such is available or equal and approved	1	item		
1.410	The workmanship throughout shall be of a high standard and the materials in all cases the best quality of the kinds specified, all to the approval of the Employer's Representative specification materials, appliance or fittings of special design, manufacture or description, patent or otherwise are described, it is clearly to be understood that such references are inserted solely for the guidance of intending Contractors with respect to the nature and quality of the articles or services required.	1	item		
1.411	Under no circumstances is concrete containing High Alumina Cement to be used in any part of the Works.	1	item		
1.412	The term "Standard" in the specification means that the articles or services specified shall conform to the latest appropriate Irish Standard Specification or where such is not available to the appropriate British Standard Specification	1	item		
	IMPORTED ITEMS:				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.413	Imported items should be listed at the end of the Bill of Quantities together with date of quotation and the currency conversion rate on which the quotation is based SAMPLES	1	item		
1.414	Samples of all materials, manufactured articles and executed work shall be submitted to the Architect for approval before adoption. Such approval will not relieve the Contractor from responsibility for any defects. MOCK UPS	1	item		
1.415	Mock up samples of some items may be required by the Architect. The Contractor will be required to provide these when requested REMOVAL OF IMPROPER WORK MATERIALS:	1	item		
1.416	The Employer's Representative / Architect shall have the power to order during progress of the Works:	1	item		
1.417	(a) Removal from site of any materials which in his opinion are not in accordance with the Contract.	1	item		
1.418	(b) Substitution of proper materials.	1	item		
1.419	(c) Removal and proper re-erection (not withstanding any previous test thereof or interim payment therefore) of any work which in respect of materials or workmanship is not in accordance with the Contract. TESTS	1	item		
1.420	The Contractor shall make such tests of executed work and shall supply such samples or materials fixed or unfixed for tests as the Employer's Representative may direct, executing all necessary removals and reinstatements.	1	item		
1.421	The Contractor shall bear the expense of all tests carried out on the site including the cost of any apparatus required.	1	item		
1.422	The Contractor shall provide for testing concrete cubes in accordance with the requirements of the Consulting Engineers Specifications, allow for all costs in connection with this including transportation and fees for testing (Provisional)	1	item		
1.423	The Contractor shall supply all samples as and when required for the tests ordered by the Employer's Representative / Architect to be carried out by independent persons at any place other than the site.	1	item		
1.424	The Employer's Representative / Architect may, whenever he considers it desirable, test material before they leave the makers premises as well as after delivery on the site, and the Architect shall be at liberty to reject any materials after delivery should he consider them unsatisfactory, notwithstanding the preliminary test and approval of the materials at the makers premises. The costs of these tests are to be borne by the Contractor.	1	item		
1.425	The Contractor shall, whenever so instructed by the Employer's Representative, cut out sections of work executed or samples of materials incorporated therein and shall deliver them where directed for the purpose of testing. All work disturbed shall be made good forthwith by the Contractor. All cost incurred in cutting out, making good and delivering as aforesaid shall be borne by the Contractor unless the result of the test shows that materials etc are in accordance with this Contract.	1	item		
1.426	Allow for fees and charges in connection with such tests.	1	item		
1.427	Regardless of any specified tests the Contractor shall undertake regular checks and tests to ensure that the work is functional and as specified as works proceed.	1	item		
1.428	The Contractor shall ensure that mechanical components are functioning before and after installation.	1	item		
1.429	The Contractor shall provide all labour and items required by the Engineers for testing or measuring the works. The proving or testing of the quality of the ground shall be carried out by an approved laboratory. In the event of any materials failing, partly or wholly any test the contractor shall be responsible for all charges in connection therewith	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.430	The following equipment shall be available on site and in proper working order at all times - 6no steel or cast iron cube moulds 150mm size; 2no standard rammers; 1no slump test apparatus. CONSTRUCTION MANAGEMENT PLAN (CMP)	1	item		
1.431	The contractor shall provide a CMP where input and agreement from local residents and Tipperary County Council Local Area Office is sought before works commence. TEMPORARY TRAFFIC WORKS (TTW) / TRAFFIC MANAGEMENT (TTM)	1	item		
1.432	The contractor shall undertake the role of Designer for Temporary Traffic Works / Traffic Management (TTM). The Designer (TTM) is responsible for the design of the temporary traffic management arrangements and the preparation of the Temporary Traffic Management Plan for the site and shall apply for and secure all road opening licences necessary to execute the works. The Temporary Traffic Management Plan should be provided to the PSDP for inclusion in the Preliminary Safety and Health Plan. The Temporary Traffic Management Plan may need further development to deal with specific operations during the construction stage. Performance of the duties of Designer of Temporary Works / Traffic Management, is as specified in the Safety, Health and Welfare at Work (Construction) Regulations 2013 (S.I. No. 291) of 2013 and the Guidance for the Control and Management of Traffic at Road Works (Chapter 8 of the Department of Transport's Traffic Signs Manual) and any updates to these documents that may occur during the lifetime of the project/contract. Signed acceptance of this role will form part of the contract documentation. The contractor shall present a TTW/TTM to the Planning Authority for agreement and approval prior to the commencement of the development. Works shall not commence on site until the written agreement and approval of the Planning Authority is received WORKPEOPLE:	1	item		
1.433	None but fully qualified and competent workpeople shall be employed on the works and they require as to the qualification and competency of any workperson. The Employer's Representative shall have the power to have dismissed from site any work-person who misconducts himself or who is incompetent or negligent, and he, the Employer's Representative shall be the sole judge in the matter. The Contractor shall be responsible for keeping all workpeople under his control and within the confines to the site. LOCAL LABOUR:	1	item		
1.434	Persons engaged upon the works should in so far as practicable and without affecting the efficiency of the works to be recruited from the local labour offices to the extent that the total labour requirement of the Contract exceeds the Contractor's core workforce. TRANSPORT FOR WORKPEOPLE	1	item		
1.435	The Contractor shall provide for all transport to and from the site as required. BILL OF QUANTITIES	1	item		
1.436	Measurements herein have been measured generally in accordance with the Agreed Rules of Measurement, Issue Four, 2009, but any divergence therefrom will not be accepted as a basis for a variation or claim, (certain composite items are included throughout the bill). All measurements herein, unless otherwise specially mentioned are the nett measurements of the items described when finished and in the Works. In pricing items the Contractors must make allowances as they think fit to cover any necessary waste, laps, straight cutting, etc....	1	item		
1.437	Quantities have been rounded up to the next whole unit. This also applies to quantities less than half a whole unit, which otherwise would be eliminated.	1	item		
1.438	Description shall be deemed to include such incidental works as are specifically mentioned. All information and instructions contained in the Specification of work for the various trades will be deemed to have been taken into consideration in pricing the whole of the Bill of Quantities.	1	item		
1.439	All items in this bill must be priced extended and totalled in detail in ink. Any items left unpriced shall be held to be included in the prices given for other items of the works.	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.440	No unauthorised alterations, additions or notes are to be made by the Contractors to the text of this Bill of Quantities. If any alteration, addition or note be made by the Contractor, such will not be recognised and the text of the Bill as printed will rigidly be adhered to.	1	item		
1.441	The Contractor shall keep one unpriced copy of the Bill of Quantities on the site and the Employer's Representative or his representative shall at all reasonable times have access to it.	1	item		
	TEMPORARY ROAD/SITE ACCESS:				
1.442	The Contractor shall provide all temporary roads and hardstandings required for access and clear away on completion. The Contractor shall be held responsible for any damage to existing road surface, kerbing, boundaries or and the like and shall reinstate to the satisfaction of the Employer's Representative any such work which the Architect deems disturbed or damaged. Allow for cleaning from public roads and paths all dirt caused by haulage of spoil, at frequent intervals. Allow for immediate erection of hazard warning notices in the event of spillage or soiling of roads.	1	item		
	FURTHER DRAWINGS AND INSTRUCTIONS:				
1.443	The Employer's Representative shall have full power and authority to supply the Contractor from time to time during progress of the work any further drawings and instructions as shall be necessary for the purpose of the proper and adequate execution and maintenance of the works and the Contractor shall be bound by the same as if they had been listed herein.	1	item		
	ORDERING OF MATERIALS				
1.444	The Bill of Quantities shall not be used for ordering of materials. The Contractor shall take his own measurements on site and from the drawings for the ordering of materials.	1	item		
	SUPERVISION:				
1.445	The contractor shall be responsible for co-ordination, supervision and administration of the works including all specialists. The contractor shall arrange and monitor a programme with each specialist, supplier, local authority and statutory undertaker and obtain and supply information as necessary for co-ordination of the work.	1	item		
1.446	The Contractor shall give and provide all necessary personal supervision during the execution of the work and for as long thereafter as the Employer's Representative may consider necessary	1	item		
1.447	The Contractor shall provide a competent Site Agent who shall be constantly on the Works, with power to act in the Contractors absence and for all purposes as his general agent.	1	item		
	SETTING OUT:				
1.448	The Contractor shall set out the works and keep them correct. Errors in setting out shall be put right by the Contractor at his own expense. Opening up and excavation shall not be commenced until the Employer's Representative has inspected the setting out. The checking of any setting out or of any line or level by Architect or the Clerk of Works shall not relieve the Contractor of his responsibility for the correctness thereof.	1	item		
	PIPE COURSES:				
1.449	Pipe, cable and wire courses shall be laid out by the Contractor as early as practicable for approval by the Architect and no laying or fixing shall be commenced without such approval	1	item		
1.450	Existing pipe, cable or wire courses interfered with during the execution of the work shall be reinstated if, when and as required	1	item		
	PROTECTION, WATCHING AND LIGHTING:				
1.451	The works shall be protected at all times against damage from inclement weather, impact or any other cause and the Contractor shall provide waterproof and frost proof coverings temporary shelters, temporary drainage, and any other necessary protection for this purpose.	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.452	The Contractor shall be responsible for the stability of all walls during periods of wind and shall support and protect as he considers necessary all newly erected walls etc, until they have reached their full strength or are supported by the erection of adjoining parts of the structure. He shall also be responsible for the stability of trusses.	1	item		
1.453	He shall also provide all watching and lighting etc, necessary for the protection of the pupils, teachers, general public and the works. He shall be responsible for any damage caused by lack of sufficient watching and lighting. The Fire Insurance Company regulations affecting the use of such lighting shall be complied with. FEES PAYABLE TO UTILITIES - Gas, Electricity, Public Lighting, Watre, Drains, Telephone and Television	1	item		
1.454	At Contract Commencement Stage the Contractor will establish from the Utility Companies on or adjacent to the site the extent and nature of the services to be provided by them and to agree a timetable for the installation of the srevices. The contractor will provide unrestricted access to the site.	1	item		
1.455	The employer will be responsible for the payment of properly invoiced non refundable costs, to the Utility. The Contractor is responsible for obtaining quotations from the Utilities Companies and submitting invoices for payment in a timely mannerto the Employers Representative.	1	item		
1.456	Allow for facilitating the works od all firms or Authorities to be employed on the site during the progress of this contract.	1	item		
1.457	Provide for complying with the requirements for works by Utility Providers. CONTRACTORS LIABILITY	1	item		
1.458	The insurances clauses are listed in the General Summary.	1	item		
1.459	Allow for any costs arising from the works outside the curtilage of the site.	1	item		
1.460	The Contractor shall provide for the efficient protection of the public the employers officers servants and visitors and property and all other persons occupying or using the site.	1	item		
1.461	The Contractor is to take all reasonable precautions to minimise nuisance to the occupants/users of adjoining properties and the general public and to include for complying with all statutory regulations in this regard. The Contractor shall be responsible for negotiation as may be required with the Local Authority or adjoining owners for any encroachment necessary for carrying out any work outside the site boundaries. RESPONSIBILITY FOR WORK:	1	item		
1.462	The Contractor shall be given possession of the site at the commencement of the work and he shall take entire responsibility for the building works from commencement to completion of same.	1	item		
1.463	The Contractor shall be held responsible for, and shall make good all injuries, damage and repairs occasioned or rendered necessary to same by any act whatsoever. TRESPASS:	1	item		
1.464	The Contractor shall provide all necessary barriers to exclude unauthorised persons from the Site of the Works and to safeguard against damage and theft. SANITARY CONVENIENCES:	1	item		
1.465	Provide suitable Sanitary Conveniences the workpeople in an appropriate place on the site. They shall be maintained by the Contractor at all times in a clean and hygienic condition and removed on completion of the works, the site being made good and deodorised where necessary. STORAGE SHEDS, MESSROOMS:	1	item		
1.466	Suitable messrooms for the use of the work people and sheds for the storage of materials shall be provided by the Contractor and maintained during the progress of the work and be removed on completions, the site thereof being made good.	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.467	Stores for cement are to be water-tight and to have raised floors to the approval of the Architect. ACCESS TO SITE FOR INSPECTION:	1	item		
1.468	The Employer's Agent / Architect and any person authorised by him shall at all reasonable times have access to the works and to the site and to all workshops and places where the work is being prepared or whence materials, manufactured articles and machinery are being obtained for the works and the Contractor shall afford every facility for and every assistance in or in obtaining the right to such access. INSPECTION OF LOCAL AUTHORITY OFFICERS:	1	item		
1.469	Should a recognised and responsible Officer of a Local Authority desire to see the premises, building or documents, the Contractor shall refer this person to the Employer. ACCESS TO EIRCOM AND OTHERS TO SITE:	1	item		
1.470	The Contractor shall if required allow access to the site and building for the staff of Eircom or others carrying out telephone or other installations and employed by or acting on behalf of the Employer. He shall also allow access to the Employer's staff connected with this work and to the Employer's Contractors in the delivery, storage and execution of furnishing and other fitting out work. RECORDS:	1	item		
1.471	The Contractor shall provide records as required in the Public Works Contract for Building Works designed by the Employer LEVELS:	1	item		
1.472	Before the Contractor commences work and before the existing ground is disturbed he shall confirm in writing his agreement that all existing levels as indicated on the drawings are correct	1	item		
1.473	If the Contractor feels the existing ground levels vary from those shown on the drawings he shall seek clarification and instruction from the Employer's Representative .Failure by the Contractor to comply with this requirement will be taken to indicate that no difference between existing levels and those indicated on the drawings exists. PATENT RIGHTS AND ROYALTIES:	1	item		
1.474	The Contractor shall save harmless and indemnify the Employer from and against all claims and proceedings for or on account of infringement of any patent rights design, trade-mark or name or other protected rights in respect of any constructional plant, machine, work or material used for or in connection with the works. SUPPLY OF PLANT, MATERIAL, LABOUR:	1	item		
1.475	The Contractor shall supply and provide the constructional plant, temporary works, materials both for temporary and for permanent work, labour (including the supervision thereof) transport to and from the site and in and about the works and all sundries required for the construction, completion and maintenance of the works.	1	item		
1.476	The Contractor shall provide also for all freight costs, charges and expenses incidental to the complete performance of the works unless special exemption shall have been made. LABOUR COSTS:	1	item		
1.477	Provide for all costs in respect of labour, including travelling, subsistence, lodging allowance, incentive schemes, overtime costs, P.R.S.I, annual and public holidays, sick pay, FAS levy and redundancy payments. REMOVAL OF WATER:	1	item		
1.478	All water that may accumulate on the site during progress of the works or in trenches, excavations, manholes etc from springs, rain or other causes shall be pumped or bored out at the Contractors expense. PLANT:	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.479	Provide all mechanical and non-mechanical plant necessary for the proper execution of the works. SCAFFOLDING:	1	item		
1.480	The Contractor shall provide all scaffolding necessary for the execution of the works. TEMPORARY SERVICES:	1	item		
1.481	Main contractor to pay all costs (connection fees, connections, standing charges, bills, disconnection, reinstatement) and comply with all requirements EXTRAORDINARY TRAFFIC:	1	item		
1.482	The Contractor shall be responsible for all damage caused to any highway or other road or bridge by reason of extraordinary or excessive traffic arising in or about the execution of the works and shall pay all charges, damages or compensation for or in respect of any such traffic and shall save harmless and indemnify the Employers from and against all claims, demands, actions and proceedings or suits in respect of any such traffic. TEMPORARY WORKS:	1	item		
1.483	The Contractor shall provide all temporary roads that may be required for access and clear away on completion. TEMPORARY HOISTS	1	item		
1.484	Should the Contractor choose to use a temporary hoist(s) to complete the project, the location of the hoist(s) to be discussed and agreed with the Employers Representative. LOCATION AND MAINTENANCE OF EXISTING SERVICES:	1	item		
1.485	The Contractor is required to locate all existing services. He is to include for giving notices to the appropriate authorities for disconnection and reconnection of services and all costs in connection therewith. If any of the services to adjacent buildings are interfered with or damaged then the Contractor will be required to pay all costs in connection therewith. WORKS BEYOND THE BOUNDARY OF THE SITE:	1	item		
1.486	Provide where work is executed beyond the boundary of the site in the public highway for 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. WATER FOR THE WORKS:	1	item		
1.487	The Contractor shall allow for all temporary plumbing work, etc., necessary, and shall make his own arrangements for the supply of water for the works. DRYING OUT:	1	item		
1.488	The Contractor shall allow for all temporary heating which may be required to dry out the structure prior to decoration.	1	item		
1.489	The Contractor should note that drying out of floor slabs within contract period to allow laying of floor finishes is the sole responsibility of the contractor and he should include for providing any necessary heating, plant and equipment in order to achieve this. It is also the Contractors responsibility to liaise directly with the Employer's Representative in order to seek both their advice and recommendations on concrete specification options (e.g.) permitted water and cement content of mixes) which would accelerate the drying out process HISTORICAL FINDS:	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.490	All fossils, coins, articles, structures and other remains or things discovered on the Site of Works shall be the absolute property of the Employer. The Contractor shall take all precautions to prevent his workpeople or any other persons from removing or damaging any such articles or things, and shall immediately upon discovery thereof and before removal acquaint the Architect of such discovery and expect in so far as is provided under this Contract for the removal and disposal of rubble, rubbish demolished materials etc., shall carry out at the expense of the Employer, the Architect's orders as to the disposal of same. MATERIALS ON SITE:	1	item		
1.491	The earth, stone, clay and gravel and sand and all other materials and things excavated from the works or existing on the site thereof, shall remain the property of the Employers and shall be at the disposal of the Contractor, so far only as use can be made of them for the purposes of the Contract, subject to the approval of the Employer's Representative CLEARANCE OF SITE:	1	item		
1.492	On completion of the works and as when directed by the Employer's Representative, the Contractor shall clear away and remove from the site all constructional plant, surplus materials, rubbish and temporary works of every kind and leave the whole of the site clean and in a workmanlike condition ENTRANCE TO SITE:	1	item		
1.493	The Contractor shall maintain public roads, footpaths, kerbs, etc., and keep the entrance of the site clear of mud. CLEAN DOWN BUILDINGS:	1	item		
1.494	When all other works have been completed and prior to the taking over of the building, all floors shall be washed and dried, windows cleaned, surplus material and accumulated rubbish removed, and the building and site left in a clean condition to the satisfaction of the Architect. CONVENIENCE OF OTHERS:	1	item		
1.495	The Contractor shall consult the convenience of anybody who may be affected by the work with regard to users of any rights of way and the approaches to adjoining property, suitable times for making deliveries and all other matters affecting them. CONTROL OF NOISE POLLUTION AND COMPLIANCE WITH STATUTORY OBLIGATIONS:	1	item		
1.496	Provide for taking all precautions necessary to prevent nuisance from noise, smoke, dust, rubbish, water or any other cause and comply with all statutory obligations. CONFINE OPERATIONS TO SITE:	1	item		
1.497	The Contractor shall confine his operations to within the site boundary as outlined on the tender drawings and shall take all precautions to prevent anyone concerned with the building operations from entering on the adjoining property.	1	item		
1.498	The Contractor shall reduce to the absolute minimum the scarring of the ground by unnecessary disposal on site of plant, materials, excavated soil, and rubbish and shall reduce to the lowest possible limit the area occupied by plant on the site. MAINTAIN RIGHT OF WAY:	1	item		
1.499	At no time is vehicular access to and from the existing parking areas on the site to be obstructed. The Contractor is to ensure that a clear access exists to the carpark for traffic at all times. GROUND CONDITIONS	1	item		
1.500	The tenderer is afforded the option of carrying out additional site investigations during the tender period, if required. EIRCOM OTHERS FITTINGS AND EQUIPMENT:	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 1 – PRELIMINARIES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.501	The Contractor will be held responsible for any damage caused through his negligence to any of the fittings, equipment or machinery installed by Eircom Engineers or their agents or others in the building or in other buildings already existing on or adjoining the site.	1	item		
	CONSULTANTS:				
1.502	The Contractor shall note that the 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 shall collaborate with them fully and to any extent that may be required, provided always that the Employer's Representative directions with regard to all the work shall be final and binding.	1	item		
	PRSI & PAYE:				
1.503	The Contractor shall ensure that workpeople employed on the works (including Sub-Contractor's staff) are registered for P.A.Y.E and P.R.S.I.	1	item		
	TAX CLEARANCE CERTIFICATE:				
1.504	It will be a condition for the award of Contract that the firm must be able to produce a Tax Clearance Certificate (unless he has a Sub-Contractor's C2 Certificate).	1	item		
1.505	In the case of a non-resident, a statement from the Revenue Commissioners will be required.	1	item		
1.506	All Sub-Contractors must produce a C2 Certificate to the Contractor, and be properly registered for V.A.T. before they commence on site.	1	item		
	PENSION/SICK PAY SCHEME:				
1.507	The Construction Industry Federation (CIF) Pension/Sick Pay Scheme, and building contractors employed on projects should therefore comply with their obligations to make pension fund/sick pay contributions	1	item		
1.508	It shall be a condition for the award of Contract that the Contractor will be required to produce evidence of membership of the scheme.	1	item		
	PLANT:				
	Plant, tools and vehicles				
1.509	Bringing to site and removing on completion.	1	item		
1.510	Maintaining on site for the duration of the Works.	1	item		
	PROTECTION:				
1.511	Allow for protecting the whole of the Works during the duration of the Contract and clean down and leave perfect on completion.	1	item		
	ADDITIONAL EXPENSES				
1.512	Should any of the conditions referred to in the Preliminaries of this Bill of Quantities involve the Contractor in any additional costs he shall be deemed to have included these costs against this item.	1	item		
	IMPLEMENTATION AND COMPLIANCE WITH THE BUILDING REGULATIONS:				
1.513	The Contractors attention is drawn to his statutory duty to ensure that the construction of the buildings is in accordance with the requirements of the Building Control Acts, The Building Control Regulations and the Building Regulations currently in operation.	1	item		
1.514	The Contractor is referred also to the terms and conditions of the Fire and DAC Certification issued. Refer to Volume A Section 3 for compliance with same.	1	item		
	PRELIMINARIES Building Control (Amendment) Regulations 2014				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 1 – PRELIMINARIES

Code	Description	Quantity	Unit	Rate	Total
1	(06) PRELIMINARIES & INSURANCES				(Continued)
1.515	The contractors attention is drawn to the Architects Preliminaries Section of the Works Requirements relating to compliance with BC(A)R 2014. The contractor is to allow here for all costs associated with complying in full with these requirements including programming and sequencing of inspections and the like as per the Preliminary Inspection Plan & Inspection Notification Framework ANCILLARY CERTIFICATION	1	item		
1.516	The contractors attention is drawn to the requirememnt to provide Ancillary Certification in line with Building Regulations, Contractor to include for complying in full with these requirements and providing associated certificates. PRODUCT CERTIFICATION	1	item		
1.517	The contractors attention is drawn to the requirememnt to provide Product Certification in line with Building Regulations. The contractor is to allow here for all costs associated with complying in full with these requirements and providing associated certificates. OTHER DESIGN TEAM PARTICULAR PRELIMINARIES SECTIONS	1	item		
1.518	The Contractor is advised that both this Preliminaries document and the preliminaries document prepared by Other members of the Design Team in their respective Works requirement Documents shall form part of the works requirements. Where conflict or ambiguity exists between the these documents or where the requirements of one document exceed that of the other, in respect of a particular obligation, the contractor will be deemed to have included for the obligation that provides optimum benefit to the employer. Under no circumstances will a claim for loss or expense from the contractor be entertained as a result of any failure to include for any particular obligation set out in either of the Preliminaries documents or for having included for a lesser obligation where a conflict or ambiguity exists.	1	item		
1.519	Include here for all preliminaries items set out in the architectural specification and Works Requirements Report with are not specifically itemised above	1	item		
1.520	Include here for all preliminaries items set out in the Civil & Sructural engineers specification with are not specifically itemised above	1	item		
1.521	Include here for all preliminaries items set out in the Services engineers specification with are not specifically itemised above Other Items	1	item		
1.522	Provide for all labour, materials, plant and all items which in the tenderers opinion are not specifically allowed for in this section of the works but which can be reasonably inferred from a site inspection and the works requirements as being necessary for the execution and completion of the works. - (List items below) (06) PRELIMINARIES & INSURANCES	1	item		
To Collection					

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 1 – PRELIMINARIES
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

1	(06) PRELIMINARIES & INSURANCES				(Continued)
	COLLECTION Page 1: Page 2: Page 3: Page 4: Page 5: Page 6: Page 7: Page 8: Page 9: Page 10: Page 11: Page 12: Page 13: Page 14: Page 15: Page 16: Page 17: Page 18: Page 19: Page 20: Page 21: Page 22: Page 23: Page 24: Page 25: Page 26: Page 27: Page 28: Page 29: Page 30: Page 31: Page 32: Page 33: (06) PRELIMINARIES & INSURANCES Carried to Summary:				



Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 1 – PRELIMINARIES

Code	Description	Quantity	Unit	Rate	Total
	COLLECTION SUMMARY	PAGE NO			
	(06) PRELIMINARIES & INSURANCES	1 - 33			
	Total Amount:				

BILL NR.2 - SUBSTRUCTURES

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 2 –SUBSTRUCTURES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(19) SUBSTRUCTURE (Units 1,2,3,4)				
1.1	(19) SUBSTRUCTURE TERRACE 1				
1.2	Generally				
1.3	INFORMATION				
1.4	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents		note		
1.5	DRAWINGS				
1.6	For layout and elevations refer to Architectural & Structural plans and elevations		note		
1.7	Refer to Architects Substructure Drawings 1401 & 1402 when pricing this Section of the works.		note		
1.8	General Notes				
1.9	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
1.10	The general notes apply to excavation and earthwork in this and subsequent sections of the Bill of Quantities.		note		
1.11	The rates for excavation work shall include for hand or machine excavation, for excavating in and handling loose and compacted hardcore, rubble and the like, and for grubbing up any disused drains, pipes, cables, roots, concrete, reinforced concrete and brick block stonework structures and any other obstructions met with except only rock.		note		
1.12	Should the contractor excavate below the formation levels shown without specific instructions to do so, he will be required to make good at his own expense, in lean mix C20 concrete.		note		
1.13	Environmentally Friendly Cements for all concrete / mortar works to be used on this project is to conform Architects Specification Section 20.1. GGBS and PFA are permitted under the Irish Concrete Standard to partially replace Portland cement in the manufacture of concrete. The contractor shall include in his rates for complying with this requirement. This note relates to this and subsequent sections of the bill of quantities.		note		
1.14	The Contractor is required to visit the site and ascertain the nature of work involved in this section, including reviewing the boundaries of the site, the access routes, the rights of way to be maintained, delivery routes, site features, live underground/overground services, the proximity of the site to public roads/footpaths, adjoining buildings, bus stops, parking, public service routes and the work area outside the boundary of the site. Contractor to provide for all costs relating to the conditions under which the works shall be carried out herein and within the preliminaries. No charge for extra labour, plant or material will be allowed in consequence of the Contractors failure to do this.	1	item		
1.15	The Contractor shall allow for providing and erecting all necessary barricades, properly planked footways, watching and lighting for the due protection of workmen and the public during the execution of the works. Providing road signs for the diversion of traffic as required by the Authorities. Altering, shifting and adapting barricades as necessary and finally removing when no longer required.		note		
1.16	The Contractor is required to make himself aware of the presence and location of all services over the site and shall take all necessary precautions to avoid interference or damage to these services during the execution of the works. The Contractor shall make due allowance in his rates for working in and around and maintaining live these services as necessary. Any damage caused shall be made good at the Contractors own expense. The Contractor to refer to Structural Engineers and Services Engineers Tender Drawings for the location of all existing site services. Failure to comply with this requirement will not entitle the Contractor to any additional extra's or claims for additional expense.		note		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 2 –SUBSTRUCTURES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(19) SUBSTRUCTURE (Units 1,2,3,4)				(Continued)
1.17	The Contractor should note that drying out of floor slabs within the contract period to allow laying of floor finishes is the sole responsibility of the contractor and he should include for providing any necessary heating, plant and equipment in order to achieve this. It is also the Contractors responsibility to liaise directly with the Structural Engineer in order to seek both their advice and recommendations on concrete specification options (e.g.) permitted water and cement content of mixes) which would accelerate the drying out process. The Contractor should include for this requirement in his/her pricing of the following items. Failure to comply with this requirement will not entitle the Contractor to any additional extras or claims for additional expence.		note		
1.18	The Bill of Quantities is not a design document with regard to health and safety, ordering materials or construction details. All construction detail and specifications are to be established from the Engineers tender documents.		note		
1.19	Power floated and screeded concrete floor slabs are to be finished to a sufficient level to obviate the necessity for the spreading of levelling compounds for all floor coverings measured within this Bill of Quantities / Tender Documentation. Should it arise that it becomes necessary to spread levelling compounds as a preliminary to laying the floor finishes, the cost of this work will be deemed to be included in the prices against the various items of work of floor finishes.		note		
1.20	The Contractor is refered to the enclosed 'Site Investigate Reports' for all information concerning the site, ground conditions, sub-strata water levels and other relevant data.		note		
1.21	The Contractor shall notify the Engineer as soon as excavations are ready so that he may inspect same. On no account is any concrete to be poured or filling laid until the Engineer is satisfied with the conditions of excavation bottoms.		note		
1.22	The Tenderer is advised that the following measurements and descriptions are to be read in conjunction with the Architects, Structural Engineers and Services Engineers Drawings and Specifications.		note		
1.23	STRIP FOUNDATION <u>EXCAVATION AND EARTHWORKS: Excavation</u>				
1.24	Excavation Excavation through existing ground				
1.25	Foundation Trenches; depth not exceeding 2.00m Disposal of water	56	m3		
1.26	Surface	1	item		
1.27	Ground	1	item		
1.28	Disposal of excavated material				
1.29	Off-Site <u>T1 Filling: structural: 0-31.5 crushed rock of 0-40mm crushed gravel up to 900mm in accordance with SR21:2014 Annex 'E': as per Architect's Drawing Nr 1402.</u> To excavations	56	m3		
1.30	Average thickness exceeding 250mm thick To make up levels	35	m3		
1.31	Average thickness not exceeding 250mm thick <u>T2 Filling: Gas Permeable layer 4-40mm; depositing in layers 200mm minimum thickness; compacting by mechanical means; as per Architect's Drawing Nr 1402.</u> To make up levels	19	m3		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 2 –SUBSTRUCTURES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(19) SUBSTRUCTURE (Units 1,2,3,4)				(Continued)
1.32	Average thickness not exceeding 250mm thick <u>Sand Blinding; Surface treatments</u> Blinding; GEN 3	37	m3		
1.33	50mm thick under strip foundations <u>T3 Stone Blinding; Surface treatments</u> Blinding filling; T3	158	m2		
1.34	50mm thick under floor slab <u>CONCRETE WORK: In-situ Concrete</u> <u>Plain in-situ concrete, Grade C12/15N; vibrated (Lean mix); all as per Architect's Drawing Nr. 1402.</u> Blinding	184	m2		
1.35	50mm thick <u>Plain in-situ concrete, Grade C12/15; vibrated (Lean mix); all as per Architect's Drawing Nr. 1402.</u> Bulk filling; foundation footings; poured on or against earth or unblinded hardcore	8	m3		
1.36	150 – 300mm thick <u>Reinforced in-situ concrete; Grade C28/35; vibrated; all as per Architect's Drawing Nr. 1402.</u> Strip Foundations	16	m3		
1.37	Over 150mm thick; reinforced <u>Reinforced in-situ concrete; Grade C30/37; vibrated; all as per Architect's Drawing Nr. 1402.</u> Floor Slab	48	m3		
1.38	Not exceeding 150mm thick; reinforced Cavity Fill	28	m3		
1.39	150 mm wide. Screed	4	m3		
1.40	75mm thick, non structural <u>CONCRETE WORK: Sundries</u> <u>Surface Finishes</u> Powerfloating	184	m2		
1.41	Horizontal surfaces (to screed) Tamp Finish	184	m2		
1.42	Horizontal surfaces to floor slab <u>Isolation Expansion joint in 150 mm thick reinforced concrete ground floor slab, formed with 10 mm thick x 150 mm deep UFH edge insulation, include all necessary formwork, additional reinforcement etc, refer to Architects details on Drawing Nr. 1402.</u> Design Joints in Floor Slab	184	m2		
1.43	150mm deep	267	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 2 –SUBSTRUCTURES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(19) SUBSTRUCTURE (Units 1,2,3,4)				(Continued)
	Labours				
1.44	Allow for coring or leaving ope through 150mm concrete floor slab for 110mm diameter pipework. <u>CONCRETE WORK: Reinforcement</u> <u>Reinforcement; mesh fabric; BS 4483; all as per Architect's Drawing Nr 1402.</u> Reference A393; 600 minimum laps	10	nr		
1.45	Horizontal; exceeding 300mm wide <u>CONCRETE WORK: Formwork</u> <u>Wrought formwork; all in accordance with the Structural Engineers Specification.</u> Edges of Foundation	184	m2		
1.46	>250mm high Edges of Beds	352	m		
1.47	>250mm high <u>BRICKWORK AND BLOCKWORK: Brickwork and Blockwork</u> <u>Standard ordinary quality solid concrete blocks; to BS 6073-1; 13/mm2; 440 x 215 x 100; cement-lime mortar (1:1:4); half lap stretcher bond; all as per Engineer's Specification Clause F10</u> Walls in trenches	14	m		
1.48	100 mm thick.	118	m2		
1.49	350 mm thick. <u>Solid Roadstone thermal light block, thermal concrete blockwork (RED); minimum average compressive strength of 13N/sq.mm, laid stretcher bond; to I.S. 20 1987, bedded and jointed in cement mortar, as per Architects Detail Drawing 1402.</u> Walls in trenches	24	m2		
1.50	100mm thick thermal blockwork <u>BRICKWORK AND BLOCKWORK: Ancillaries to Blockwork/Brickwork</u> <u>Form 150 mm wide cavity between block/brick leaves with 110 mm proprietary PIR Partial Fill insulation, CE Marked and approved, DOP required. Class F fire rating; product to be certified by the British Board of Agreement, wall insulation slab with foil facings to both sides to achieve a thermal conductivity for external wall of 0.022 W/m.K, fix in 150 mm cavity with stainless steel wall ties to BS EN 845-1 with an integral device for holding the insulation in position, keep cavity clear of mortar droppings, allow for additional ties at 225mm centres at wall opes, movement joints, corners and canopy/balcony locations; All as per Structural Engineers and Architect's Specification Section F30</u> Forming Cavities	40	m2		
1.51	150 mm wide <u>INSULATION</u> <u>Insulation to be autohesively bonded low emissivity composite foil faced both sides CFC Freerigid polyisocyanurate (PIR) insulation core with zero ozone depletion, 0.020 W/mK Thermal conductivity, Class O fire rating; installed in strict accordance with the manufacturer's instructions; all as per Architect's Secification Ref: P10 Clause 122A.</u>	47	m2		
1.52	Horizontal; thermal				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 2 –SUBSTRUCTURES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(19) SUBSTRUCTURE (Units 1,2,3,4)				(Continued)
1.53	150mm thick;	184	m2		
1.54	Vertical; thermal				
1.55	25mm thick; to edge of slab	110	m		
1.56	Sundries				
1.57	Forming or cutting holes for pipes in 350mm thick cavity blockwork rising walls; fixing 110mm diameter pipe sleeve; making good structure; all as per Architects and Engineer Drawings				
1.58	Holes				
1.59	350 mm rising wall; 110mm diameter holes for service ducts	10	nr		
1.60	Forming or cutting holes for pipes in 350mm thick blockwork rising walls; fixing 50mm diameter pipe sleeve; making good structure; all as per Architects and Engineer Drawings				
1.61	Holes				
1.62	350 mm rising wall; 110mm diameter holes for service ducts	10	nr		
	<u>ROOFING, CLADDING AND WATERPROOFING: Flexible Sheet Coverings</u>				
	<u>Necoflex RAM system, Radon, Air & Moisture protection Radon membrane to ground floor installed as per manufacturers instructions, 150mm allowance for laps; Tensile strength: MD: 600/50mm, CD: 740/50mm. Tear Resistance – MD: 475, CD: 425; Reinforced with Multifilament Polyester 9x12mm 410 microns thick, sealed with Monobond RT; all as per Architect's Specification Clause J40.140A.</u>				
1.63	Damp Proof Course				
1.64	Damp proof course, 100 mm wide, horizontal.	280	m		
	<u>SC membrane layer; 1000 gauge polythene or equivalent; laid in strict accordance with the manufacturer's instructions; All as per Architect's Specification D21/38</u>				
1.65	Laid in position				
1.66	Over 300mm wide; horizontal	184	m2		
1.67	Dressed up and sealed to blockwork walls.	267	m		
	<u>Manoflex RB400 Radon barrier laid in accordance with manufacturers instructions; as per Architect's Detail B Drawing Nr 1402.</u>				
1.68	Horizontal				
1.69	Over 300mm wide	184	m2		
1.70	Radon Barrier, returned up edge of blockwork 300 mm high block,cranking across 100 mm block and lapped to horizontal radon barrier, 700 mm girth, including sealing and taping joints as before.	176	m		
	<u>"Monarflex Easi-Sump or equivalent; 900 x 600 335mm overall size; provide one sump for an area of 250 sq.m. and for a distance of up to 15m from the sump and for each compartment. In housing each dwelling should have a sump. Ensure that hardcore does not enter the chamber and that the sump is adequately supported. Where obstructions below the floor slab occur, provide free airways equivalent to 12,500 sq mm per metre run of wallpassive type Architects Specification.</u>				
1.71	Laid in position				
1.72	Generally	4	nr		
1.73	"Monarflex" vent pipes or equivalent; upvc				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 2 –SUBSTRUCTURES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(19) SUBSTRUCTURE (Units 1,2,3,4)				(Continued)
1.74	150 mm diameter; fixed to underside of slab / laid in hardcore trench				
1.75	Horizontal.	16	m		
1.76	Vertical; including for concrete bed and surround	5	m		
1.77	Extra over for				
1.78	Extra over for; forming or leaving ope through 350mm blockwork cavity wall for 110mm diameter pipework	8	nr		
1.79	Extra over for; forming or leaving ope through 350mm blockwork cavity wall for 50mm diameter pipework	8	nr		
1.80	90 degree bend; 110mm diameter	8	nr		
	<u>Ruberoid "Top Hat" sections; or equivalent, fitted in strict accordance with the manufacturer's instructions</u>				
1.81	Fixed in position				
1.82	50 mm diameter protrusions through membrane	32	nr		
1.83	100 mm diameter protrusions through membrane	8	nr		
1.84	1100 mm diameter protrusions through membrane	8	nr		
1.85	TESTING				
1.86	Testing				
1.87	CBR Testing				
1.88	Allow for CBR tests on the hardcore sub-grade in accordance with the Specification.	4	nr		
1.89	Testing for Radon Gas				
1.90	Testing				
1.91	At substantial completion stage the Contractor shall carry out such tests – in accordance with the guidelines published by the Radiological Protection Institute of Ireland – to determine radon concentration levels and to determine if sump activation is required. If the radon level detected exceeds the national reference level of 200Bq/m3, the Contractor shall at their own expense install an extraction fan to the vent pipe, complete with electrical connections and all builders work, within three months of completion of tests.	4	nr		
1.92	Other Items				
1.93	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(19) SUBSTRUCTURE (Units 1,2,3,4)				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 2 –SUBSTRUCTURES
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
1	(19) SUBSTRUCTURE (Units 1,2,3,4)				(Continued)
	COLLECTION Page 1: Page 2: Page 3: Page 4: Page 5: Page 6: (19) SUBSTRUCTURE (Units 1,2,3,4) Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 2 –SUBSTRUCTURES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
2	(19) SUBSTRUCTURE (Units 5-6)				
2.1	(19) SUBSTRUCTURE TERRACE 1				
2.2	Generally				
2.3	INFORMATION				
2.4	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents		note		
2.5	DRAWINGS				
2.6	For layout and elevations refer to Architectural & Structural plans and elevations		note		
2.7	Refer to Architects Substructure Drawings 1401 & 1402 when pricing this Section of the works.		note		
2.8	General Notes				
2.9	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
2.10	The general notes apply to excavation and earthwork in this and subsequent sections of the Bill of Quantities.		note		
2.11	The rates for excavation work shall include for hand or machine excavation, for excavating in and handling loose and compacted hardcore, rubble and the like, and for grubbing up any disused drains, pipes, cables, roots, concrete, reinforced concrete and brick block stonework structures and any other obstructions met with except only rock.		note		
2.12	Should the contractor excavate below the formation levels shown without specific instructions to do so, he will be required to make good at his own expense, in lean mix C20 concrete.		note		
2.13	Environmentally Friendly Cements for all concrete / mortar works to be used on this project is to conform Architects Specification Section 20.1. GGBS and PFA are permitted under the Irish Concrete Standard to partially replace Portland cement in the manufacture of concrete. The contractor shall include in his rates for complying with this requirement. This note relates to this and subsequent sections of the bill of quantities.		note		
2.14	The Contractor is required to visit the site and ascertain the nature of work involved in this section, including reviewing the boundaries of the site, the access routes, the rights of way to be maintained, delivery routes, site features, live underground/overground services, the proximity of the site to public roads/footpaths, adjoining buildings, bus stops, parking, public service routes and the work area outside the boundary of the site. Contractor to provide for all costs relating to the conditions under which the works shall be carried out herein and within the preliminaries. No charge for extra labour, plant or material will be allowed in consequence of the Contractors failure to do this.	1	item		
2.15	The Contractor shall allow for providing and erecting all necessary barricades, properly planked footways, watching and lighting for the due protection of workmen and the public during the execution of the works. Providing road signs for the diversion of traffic as required by the Authorities. Altering, shifting and adapting barricades as necessary and finally removing when no longer required.		note		
2.16	The Contractor is required to make himself aware of the presence and location of all services over the site and shall take all necessary precautions to avoid interference or damage to these services during the execution of the works. The Contractor shall make due allowance in his rates for working in and around and maintaining live these services as necessary. Any damage caused shall be made good at the Contractors own expense. The Contractor to refer to Structural Engineers and Services Engineers Tender Drawings for the location of all existing site services. Failure to comply with this requirement will not entitle the Contractor to any additional extra's or claims for additional expense.		note		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 2 –SUBSTRUCTURES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
2	(19) SUBSTRUCTURE (Units 5–6)				(Continued)
2.17	The Contractor should note that drying out of floor slabs within the contract period to allow laying of floor finishes is the sole responsibility of the contractor and he should include for providing any necessary heating, plant and equipment in order to achieve this. It is also the Contractors responsibility to liaise directly with the Structural Engineer in order to seek both their advice and recommendations on concrete specification options (e.g.) permitted water and cement content of mixes) which would accelerate the drying out process. The Contractor should include for this requirement in his/her pricing of the following items. Failure to comply with this requirement will not entitle the Contractor to any additional extras or claims for additional expence.		note		
2.18	The Bill of Quantities is not a design document with regard to health and safety, ordering materials or construction details. All construction detail and specifications are to be established from the Engineers tender documents.		note		
2.19	Power floated and screeded concrete floor slabs are to be finished to a sufficient level to obviate the necessity for the spreading of levelling compounds for all floor coverings measured within this Bill of Quantities / Tender Documentation. Should it arise that it becomes necessary to spread levelling compounds as a preliminary to laying the floor finishes, the cost of this work will be deemed to be included in the prices against the various items of work of floor finishes.		note		
2.20	The Contractor is refered to the enclosed 'Site Investigate Reports' for all information concerning the site, ground conditions, sub-strata water levels and other relevant data.		note		
2.21	The Contractor shall notify the Engineer as soon as excavations are ready so that he may inspect same. On no account is any concrete to be poured or filling laid until the Engineer is satisfied with the conditions of excavation bottoms.		note		
2.22	The Tenderer is advised that the following measurements and descriptions are to be read in conjunction with the Architects, Structural Engineers and Services Engineers Drawings and Specifications.		note		
2.23	STRIP FOUNDATION <u>EXCAVATION AND EARTHWORKS: Excavation</u>				
2.24	Excavation Excavation through existing ground				
2.25	Foundation Trenches; depth not exceeding 2.00m Disposal of water	38	m3		
2.26	Surface	1	item		
2.27	Ground	1	item		
2.28	Disposal of excavated material				
2.29	Off-Site <u>T1 Filling: structural: 0–31.5 crushed rock of 0–40mm crushed gravel up to 900mm in accordance with SR21:2014 Annex 'E': as per Architect's Drawing Nr 1402.</u> To excavations	38	m3		
2.30	Average thickness exceeding 250mm thick To make up levels	29	m3		
2.31	Average thickness not exceeding 250mm thick <u>T2 Filling: Gas Permeable layer 4–40mm; depositing in layers 200mm minimum thickness; compacting by mechanical means; as per Architect's Drawing Nr 1402.</u> To make up levels	16	m3		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 2 –SUBSTRUCTURES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
2	(19) SUBSTRUCTURE (Units 5–6)				(Continued)
2.32	Average thickness not exceeding 250mm thick <u>Sand Blinding; Surface treatments</u> Blinding; GEN 3	32	m3		
2.33	50mm thick under strip foundations <u>T3 Stone Blinding; Surface treatments</u> Blinding filling; T3	127	m2		
2.34	50mm thick under floor slab <u>CONCRETE WORK: In-situ Concrete</u> <u>Plain in-situ concrete, Grade C12/15N; vibrated (Lean mix); all as per Architect's Drawing Nr. 1402.</u> Blinding	159	m2		
2.35	50mm thick <u>Plain in-situ concrete, Grade C12/15; vibrated (Lean mix); all as per Architect's Drawing Nr. 1402.</u> Bulk filling; foundation footings; poured on or against earth or unblinded hardcore	7	m3		
2.36	not exceeding 150mm thick <u>Reinforced in-situ concrete; Grade C28/35; vibrated; all as per Architect's Drawing Nr. 1402.</u> Strip Foundations	13	m3		
2.37	Over 150mm thick; reinforced <u>Reinforced in-situ concrete; Grade C30/37; vibrated; all as per Architect's Drawing Nr. 1402.</u> Floor Slab	38	m3		
2.38	Not exceeding 150mm thick; reinforced Cavity Fill	24	m3		
2.39	150 mm wide. Screed	3	m3		
2.40	75mm thick, non structural <u>CONCRETE WORK: Sundries</u> <u>Surface Finishes</u> Powerfloating	159	m2		
2.41	Horizontal surfaces (to screed) Tamp Finish	159	m2		
2.42	Horizontal surfaces to floor slab <u>Isolation Expansion joint in 150 mm thick reinforced concrete ground floor slab, formed with 10 mm thick x 150 mm deep UFH edge insulation, include all necessary formwork, additional reinforcement etc, refer to Architects details on Drawing Nr. 1402.</u> Design Joints in Floor Slab	159	m2		
2.43	150mm deep	223	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 2 –SUBSTRUCTURES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
2	(19) SUBSTRUCTURE (Units 5–6)				(Continued)
	Labours				
2.44	Allow for coring or leaving ope through 150mm concrete floor slab for 110mm diameter pipework. <u>CONCRETE WORK: Reinforcement</u> <u>Reinforcement; mesh fabric; BS 4483; all as per Architect's Drawing Nr 1402.</u> Reference A393; 600 minimum laps	10	nr		
2.45	Horizontal; exceeding 300mm wide <u>CONCRETE WORK: Formwork</u> <u>Wrought formwork; all in accordance with the Structural Engineers Specification.</u> Edges of Foundation	159	m2		
2.46	>250mm high Edges of Beds	288	m		
2.47	>250mm high <u>BRICKWORK AND BLOCKWORK: Brickwork and Blockwork</u> <u>Standard ordinary quality solid concrete blocks; to BS 6073-1; 13/mm2; 440 x 215 x 100; cement-lime mortar (1:1:4); half lap stretcher bond; all as per Engineer's Specification Clause F10</u>	8	m		
2.48	Walls in trenches 100 mm thick.	94	m2		
2.49	350 mm thick. <u>Solid Roadstone thermal light block, thermal concrete blockwork (RED); minimum average compressive strength of 13N/sq.mm, laid stretcher bond; to I.S. 20 1987, bedded and jointed in cement mortar, as per Architects Detail Drawing 1402.</u>	34	m2		
2.50	Walls in trenches 100mm thick thermal blockwork <u>BRICKWORK AND BLOCKWORK: Ancillaries to Blockwork/Brickwork</u> <u>Form 150 mm wide cavity between block/brick leaves with 110 mm proprietary PIR Partial Fill insulation, CE Marked and approved, DOP required. Class F fire rating; product to be certified by the British Board of Agreement, wall insulation slab with foil facings to both sides to achieve a thermal conductivity for external wall of 0.022 W/m.K, fix in 150 mm cavity with stainless steel wall ties to BS EN 845-1 with an integral device for holding the insulation in position, keep cavity clear of mortar droppings, allow for additional ties at 225mm centres at wall opes, movement joints, corners and canopy/balcony locations; All as per Structural Engineers and Architect's Specification Section F30</u>	33	m2		
2.51	Forming Cavities 150 mm wide <u>INSULATION</u> <u>Insulation to be autohesively bonded low emissivity composite foil faced both sides CFC Freerigid polyisocyanurate (PIR) insulation core with zero ozone depletion, 0.020 W/mK Thermal conductivity, Class O fire rating; installed in strict accordance with the manufacturer's instructions; all as per Architect's Secification Ref: P10 Clause 122A.</u> Horizontal; thermal	34	m2		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 2 –SUBSTRUCTURES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
2	(19) SUBSTRUCTURE (Units 5–6)				(Continued)
2.52	150mm thick;	159	m2		
2.53	Vertical; thermal				
2.54	25mm thick; to edge of slab	77	m		
2.55	Sundries				
2.56	Forming or cutting holes for pipes in 350mm thick cavity blockwork rising walls; fixing 110mm diameter pipe sleeve; making good structure; all as per Architects and Engineer Drawings				
2.57	Holes				
2.58	350 mm rising wall; 110mm diameter holes for service ducts	10	nr		
2.59	Forming or cutting holes for pipes in 350mm thick blockwork rising walls; fixing 50mm diameter pipe sleeve; making good structure; all as per Architects and Engineer Drawings				
2.60	Holes				
2.61	350 mm rising wall; 110mm diameter holes for service ducts	10	nr		
	<u>ROOFING, CLADDING AND WATERPROOFING: Flexible Sheet Coverings</u>				
	<u>Necoflex RAM system, Radon, Air & Moisture protection Radon membrane to ground floor installed as per manufacturers instructions, 150mm allowance for laps; Tensile strength: MD: 600/50mm, CD: 740/50mm. Tear Resistance – MD: 475, CD: 425; Reinforced with Multifilament Polyester 9x12mm 410 microns thick, sealed with Monobond RT; all as per Architect's Specification Clause J40.140A.</u>				
2.62	Damp Proof Course				
2.63	Damp proof course, 100 mm wide, horizontal.	218	m		
	<u>SC membrane layer; 1000 gauge polythene or equivalent; laid in strict accordance with the manufacturer's instructions; All as per Architect's Specification D21/38</u>				
2.64	Laid in position				
2.65	Over 300mm wide; horizontal	159	m2		
2.66	Dressed up and sealed to blockwork walls.	223	m		
	<u>Manoflex RB400 Radon barrier laid in accordance with manufacturers instructions; as per Architect's Detail B Drawing Nr 1402.</u>				
2.67	Horizontal				
2.68	Over 300mm wide	159	m2		
2.69	Radon Barrier, returned up edge of blockwork 300 mm high block, cranking across 100 mm block and lapped to horizontal radon barrier, 700 mm girth, including sealing and taping joints as before.	144	m		
	<u>"Monarflex Easi-Sump or equivalent; 900 x 600 335mm overall size; provide one sump for an area of 250 sq.m. and for a distance of up to 15m from the sump and for each compartment. In housing each dwelling should have a sump. Ensure that hardcore does not enter the chamber and that the sump is adequately supported. Where obstructions below the floor slab occur, provide free airways equivalent to 12,500 sq mm per metre run of wallpassive type Architects Specification.</u>				
2.70	Laid in position				
2.71	Generally	2	nr		
2.72	"Monarflex" vent pipes or equivalent; upvc				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 2 –SUBSTRUCTURES

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
2	(19) SUBSTRUCTURE (Units 5–6)				(Continued)
2.73	150 mm diameter; fixed to underside of slab / laid in hardcore trench				
2.74	Horizontal.	8	m		
2.75	Vertical; including for concrete bed and surround	5	m		
2.76	Extra over for				
2.77	Extra over for; forming or leaving ope through 350mm blockwork cavity wall for 110mm diameter pipework	4	nr		
2.78	Extra over for; forming or leaving ope through 350mm blockwork cavity wall for 50mm diameter pipework	4	nr		
2.79	90 degree bend; 110mm diameter	4	nr		
	<u>Monarflex "Top Hat" sections; or equivalent, fitted in strict accordance with the manufacturer's instructions</u>				
	Fixed in position				
2.80	50 mm diameter protrusions through membrane	16	nr		
2.81	100 mm diameter protrusions through membrane	4	nr		
2.82	1100 mm diameter protrusions through membrane	4	nr		
	<u>TESTING</u>				
	Testing				
2.83	CBR Testing				
2.84	Allow for CBR tests on the hardcore sub-grade in accordance with the Specification.	2	nr		
2.85	Testing for Radon Gas				
2.86	Testing				
2.87	At substantial completion stage the Contractor shall carry out such tests – in accordance with the guidelines published by the Radiological Protection Institute of Ireland – to determine radon concentration levels and to determine if sump activation is required. If the radon level detected exceeds the national reference level of 200Bq/m3, the Contractor shall at their own expense install an extraction fan to the vent pipe, complete with electrical connections and all builders work, within three months of completion of tests.	2	nr		
2.88	Other Items				
2.89	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(19) SUBSTRUCTURE (Units 5-6)				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 2 –SUBSTRUCTURES
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

2	(19) SUBSTRUCTURE (Units 5–6)				(Continued)
	COLLECTION Page 8: Page 9: Page 10: Page 11: Page 12: Page 13: (19) SUBSTRUCTURE (Units 5-6) Carried to Summary:				



Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 2 -SUBSTRUCTURES

Code	Description	Quantity	Unit	Rate	Total
	COLLECTION SUMMARY	PAGE NO			
	(19) SUBSTRUCTURE (Units 1,2,3,4)	1 - 6			
	(19) SUBSTRUCTURE (Units 5-6)	8 - 13			
	Total Amount:				

BILL NR.3 - TYPE A UNITS - 3 BED 2 STOREY

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 3 – House Type A

Code	Description	Quantity	Unit	Rate	Total
1	(21) EXTERNAL WALLS				
	(21) EXTERNAL WALLS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
1.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
1.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
1.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
1.4	For layout, elevations and details refer to Hasset Leyden & Associates Architects Drawings 2701-HLA-ZZ-00-DR-A-0300, 0301) specifically but not limited to.		note		
1.5	NOTES				
1.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>CONCRETE WORK: In-Situ Concrete</u>				
	<u>Unreinforced in-situ concrete Grade 30</u>				
	Filling to back of cills				
1.7	Cross-sectional area < or = 0.10m2	1	m3		
	<u>Formwork</u>				
	Class A formwork to edge of filling to window cill				
1.8	< or = 250mm high; to back cills	12	m		
	<u>Surface finishes</u>				
	Trowelling				
1.9	Trowel smooth surface of unset concrete falls.	12	m		
	<u>Composite Item: Unreinforced in-situ concrete Grade 30</u>				
	<u>Threshold Detail including all concrete, formwork, 2 number courses of 350 mm blockwork, insulation, cast insitu concrete upstand, reinforcement stepped DPC, all as per Architect's Drawings DR-A-1804 - front door threshold detail</u>				
1.10	Composite Item: Unreinforced in-situ concrete Grade 30				
	Cross-sectional area < or = 0.10m2	2	m		
	<u>Threshold Detail including all concrete, formwork, 2 number courses of 350 mm blockwork, insulation, cast insitu concrete upstand, reinforcement stepped DPC, all as per Architect's Drawings DR-A-1805 - rear door threshold detail</u>				
	Composite Item: Unreinforced in-situ concrete Grade 30				
1.11	Cross-sectional area < or = 0.10m2	2	m		
	<u>Composite Item: Bearing Pads</u>				
	<u>Reinforced in-situ concrete: Grade C35/45; vibrated; including reinforcement, fairfaced formwork, floated finish, etc to fully complete the works.</u>				
	Bearing pads to blockwork walls; bearing pads for steel beams; built into new blockwork walls				
1.12	150 x 100 x 100 mm deep;	4	nr		

To Collection

Project: Donohill, Tipp

Details: BQ 3 – House Type A

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(21) EXTERNAL WALLS				(Continued)
	CONCRETE WORK: Precast Concrete				
	<u>Precast Concrete: in the following precast units with a smooth finish on all surfaces to standard BS BS5642-1, conformity to BS 8500-2 mortar for bedding/jointing: cement gauged as section Z21: to standard BS EN 206-1.</u>				
	<u>HD Prestressed Lintels: horizontal, weathered, bearing length min 200mm; to standard BS 845-2. Placement: Bed on mortar used for adjacent work. All as per architects specifications F31 and Drawing Nr. DR-E-1403</u>				
	100 x 150mm deep composite lintel				
1.13	700mm long	1	nr		
1.14	900mm long	2	nr		
1.15	1400mm long	2	nr		
1.16	1800mm long	7	nr		
	<u>Precast Concrete: Precast concrete window cills shall be of approved manufacture to the dimensions shown on the drawings and complying with IS 89-1:1981 in respect of materials and workmanship</u>				
	Cills				
1.17	900mm long	1	nr		
1.18	1800mm long	3	nr		
1.19	2800mm long	2	nr		
	BRICKWORK AND BLOCKWORK: Blockwork				
	<u>Solid concrete blocks, nominal size 440 x 215 mm, minimum compressive strength 10N/mm² to IS EN 771-3, mortar as section Z21 to standard BS EN 998-2, 1:1/2:4-4 1/2 cement:lime:sand. A s per architects specifications F10</u>				
	Walls				
1.20	100 mm thick	230	m ²		
1.21	Extra over for 1 course thermalite block at floor level, 225 mm high; As per Architects drawings	23	m		
1.22	Extra over for 1 course thermalite block at eaves level, 225 mm high; As per Architects drawings	23	m		
	Labours				
1.23	On blockwork	1	item		
	BRICKWORK AND BLOCKWORK: Brickwork				
	<u>Clay facing bricks to be 4 tone mix Ibsotck Birtley Olde English Buff or equivalent for Architects Approval: Bricks are to be body coloured, wire cut, perforated. Size to be standard size 215mm x 102.5mm x 65mm. The durability designation of the bricks is to be F2. The soluble salt content is to be category S2. Bond strength in combination with mortar shall be declared either by means of tests carried out or from a declared value found in BXS 998-2, which is 45 N/mm². The minimum compressive strength of the bricks is to be 60N/mm. The maximum water absorption of the bricks is to be =<9% by weight. The initial rate of suction for the bricks is 1kg/m²/min., coloured mortar to match brickwork, bucket handle joints to architects approval, laid in half lap stretcher bond with recessed joints as Architects specification F10/08 and Z21</u>				
	Walls; Refer to Architects Elevation Drawings: DR-A-1102 for Layout of Brick Areas.				
1.24	100mm thick	13	m ²		
	Extra over for:				
1.25	Reveals	12	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 3 – House Type A

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(21) EXTERNAL WALLS				(Continued)
1.26	Labours				
1.27	On brickwork	1	item		
	<i>Extra Over For</i>				
1.28	Proprietary weepholes to match brick.	12	nr		
1.29	Providing sample panels, 900 x 900 mm sq.	2	nr		
	<u>BRICKWORK AND BLOCKWORK: Ancillaries to Blockwork/Brickwork</u>				
	<u>Bed joint reinforcement -brickforce (brc) stainless steel bed joint reinforcement to b.s 5628 part 2. 3.58mm diameter main wires (fy = 460n/sq.mm) 2.50mm welded cross wires at 304mm ccs. Min. Lap 250mm staggered in alternate courses width 40mm less than nominal masonry width</u>				
	Walls				
1.30	100 mm wide	117	m		
	<u>Form 150 mm wide cavity between block/brick leaves with 110 mm proprietary PIR Partial Fill insulation, CE Marked and approved, DOP required, Class F fire rating, product to be certified by the British Board of Agreement, wall insulation slab with foil facings to both sides to achieve a thermal conductivity for external wall of 0.022 W/m.K, fix in 150 mm cavity with stainless steel wall ties to BS EN 845-1 with an integral device for holding the insulation in position, keep cavity clear of mortar droppings, allow for additional ties at 225mm centres at wall opes, movement joints, corners and canopy/balcony locations; All as per Structural Engineers and Architect's Specification Section F30</u>				
	Forming Cavities				
1.31	150 mm wide	129	m2		
	<u>Closing Cavities</u>				
	<u>Closing cavities at blockwork wall opes to reduce thermal bridging using insulated proprietary cavity closer system: full width of cavity during external leaf course work construction; must comply with BS 476-20:1987; installation as per manufacturers' instructions; cavity closer system to meet part B & L of Irish Building regulations. Manufacturers certified data to confirm minimum R-value of 4.30m2K/W.</u>				
	<u>Supply and fit proprietary cavity closer to close 150mm wide cavity at any Eaves / raking verge. Closing of cavity to comply with Diagram 17 of TGD Part B. Refer to section F301/10 of specifications and architect's drawings DR-A-1801, 1802, 1803 & 1807 for details.</u>				
	Proprietary insulated cavity closer set at jambs; screw fixed				
1.32	150 mm wide.	26	m		
	Close top of cavity with 50mm thick proprietary insulated cavity closer				
1.33	150 mm wide.	23	m		
	Close cavity at head of opening with 50mm thick proprietary insulated cavity closer				
1.34	150 mm wide.	14	m		
	Close top of sloping cavity				
1.35	150 mm wide.	23	m		
	<u>Damp Proof Courses</u>				
	Damp proof course; B.S 743; 1970; 150mm laps; no allowance in measurements for laps.				
1.36	Vertical set at jambs; <300mm wide.	26	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 3 – House Type A

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(21) EXTERNAL WALLS				(Continued)
	Bituthene 4000 or equivalent Damp proof course; B.S 743; 1970; Hyload DPC or equivalent; 150mm laps; and seal in accordance with manufacturer's recommendations to form a gas and watertight joint. Ensure that dpc/ cavity tray overlaps damp proof membrane by not less than 150 mm.no allowance in measurements for laps.				
1.37	Horizontal under and at back of cill; 700 girth.	14	m		
	Cavity trays; fitted as per manufacturers instructions.				
1.38	Horizontal above lintel; 700 girth.	14	m		
	<u>Designed Joints</u>				
	Movement joints; Polythene foam filler 85mm / 200mm wide and pointing with polysulphide sealant 15mm dep one side. To BS EN 140-3: 1995 and BS EN ISO 717-1:1997. Sealant to be installed in accordance with the manufacturer's recommendations. Sealant colour to architect's later approval to match brickwork. Form 10mm wide vertical movement joint in 100mm/ 215mm block wall; Include for wall ties at 225mm vertical centres at either side of joint.. All as Architects specification section F30 and Prepare joints and apply sealant as section Z22				
1.39	10 mm wide; 100 mm deep; vertical	19	m		
	<u>Sundries</u>				
	Leave ope in 100mm thick outer leaf of cavity wall for ESB meter box				
1.40	490 x 690mm high.	1	nr		
	Leave ope in 100mm thick outer leaf of cavity wall for telecom box: include precast concrete lintels				
1.41	155 x 230mm high.	1	nr		
	Form or leave opening in cavity wall for services metering including lintels and associated items, refer to Architects drawing for details				
1.42	409 x 595	1	nr		
	Extra for:				
1.43	Meter cabinets	1	nr		
1.44	Telecom Cabinet	1	nr		
	<u>Barriers</u>				
	Cavity Fire barrier to have a 60 minute fire integrity/insulation, including 400mm wide strip of 2000g polythene damp proof course, fixed vertically at cavity junctions, All as Architects specification section F30 and indicated on drawing nr. DR-A1102 & 1105				
1.45	150mm thick, set vertically in cavity at party wall	11	m		
1.46	150mm thick, set horizontally in cavity at eaves level	14	m		
1.47	150mm thick, set sloping in cavity at party wall	12	m		
	<u>Ventilating Ducts</u>				
1.48	Form or leave opening in 350 mm cavity wall, manufacture to national approved manufacturer. Install across cavity, sloping away from inner leaf, bedding fully in mortar to seal cavity, all as Architects Masonry Specification and Building Regulations Part F. See Architects Spec F30/06.	8	nr		
	<u>Airtight Detail</u>				
	Airtightness, taping around door and window opes, sealed, accordance with the manufacturers instructions, to achieve airtightness				
1.49	Reveals and Heads	40	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 3 – House Type A

Code	Description	Quantity	Unit	Rate	Total
1	(21) EXTERNAL WALLS				(Continued)
	Airtightness, taping at junctions of walls to floors, sealed, accordance with the manufacturers instructions, to achieve airtightness of				
1.50	Floor junction abutting external wall/internal walls	60	m		
1.51	Floor junction abutting party wall.	8	m		
1.52	Junction at eaves.	14	m		
1.53	Junction at gables	12	m		
	<u>STEELWORK: Structural</u>				
	<u>Heavy Duty Galvanised steel lintel (Keystone SL/K or similar approved), to suit 100mm block outer leaf and 100mm block inner leaf.. refer to Structural Engineers Drawing DR-E-1403 for Details.</u>				
	Steel Lintels.				
1.54	Steel Lintel to suit; Window Type EXT D01, structural opening size 1500 mm wide; all as per manufacturers recommendations, include all associated fittings and seals, concrete bearing pads, bolting	1	nr		
1.55	Steel Lintel to suit; Window Type W01, structural opening size 2400 mm wide; all as per manufacturers recommendations, include all associated fittings and seals, concrete bearing pads, bolting	1	nr		
	<u>Refer to Engineers Drawings DR-E-1403 Allow for co-ordinating the erection of the steelwork in association with the other Sub-Contractor.</u>				
	<u>Galvanised Steel Beam: including for Galvanising, shot blasting etc to Engineers Specification</u>				
	Steel Lintels				
1.56	152 x 89 x 16kg/m (2nr)	0.10	tonne		
	<u>PAINTING AND DECORATING: Painting</u>				
	<u>Pre-Fabrication; Shot blast to Swedish Standard Sa 2 1/2 BS 4232; all as per Engineer's structural steel specification</u>				
	Protective coatings; off site				
1.57	General steelwork surfaces	0.10	tonne		
	<u>Steelwork shall be hot dip galvanised in accordance with the requirements of BS 729 (minimum 85 microns D.F.T.) Where galvanized steelwork is affected by white corrosion products they should be removed with a stiff brush. Immediately after galvanizing all steelwork should be treated with an etch primer</u>				
	Protective Coatings: off site				
1.58	General surfaces	0.10	tonne		
	<u>Nullifire S-620 High Build Zinc phosphate or equivalent intumescent paint; to provide one hour fire resistance in accordance with BS 476-21; applied in strict accordance with the manufacturer's instructions; all as per Architect's Specification</u>				
1.59	Structural surfaces				
1.60	General surfaces; not exceeding 300mm girth	3.70	m2		
	Other Items				
1.61	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(21) EXTERNAL WALLS				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

1	(21) EXTERNAL WALLS				(Continued)
	COLLECTION Page 1: Page 2: Page 3: Page 4: Page 5: (21) EXTERNAL WALLS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
2	(22) INTERNAL WALLS, PARTITIONS				
	(22) INTERNAL WALLS, PARTITIONS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
2.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
2.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
2.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
2.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects & Engineers Drawings		note		
2.5	NOTES				
2.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	CONCRETE WORK: Precast Concrete				
	<u>Precast Concrete: HD Prestressed PC Lintel BS BS5642-1, conformity to BS 8500-2 mortar for bedding/jointing: cement gauged as section Z21: to standard BS EN 998-2. Aggregates used shall be free from pyrite or other impurity Bed on mortar used for adjacent work with bearing of not less than 150 mm unless specified otherwise. Refer to Engineer's specification and details.</u>				
	100 x 70mm Lintels				
2.7	1250mm wide	4	nr		
2.8	1800mm wide	1	nr		
	<u>BRICKWORK AND BLOCKWORK: Brickwork/Blockwork</u>				
	<u>Solid concrete blocks, nominal size 440 x 215 mm, minimum compressive strength 10N/mm2 to IS EN 771-3, mortar as section Z21 to standard BS EN 998-2, 1:1/2:4-4 1/2 cement:lime:sand. As per architects specifications F10</u>				
	Walls				
2.9	100 mm thick.	31	m2		
	Party Wall				
2.10	100 mm thick.	60	m2		
	<u>BRICKWORK AND BLOCKWORK: Ancillaries to Brickwork/ Blockwork</u>				
	<u>Form 150 mm wide cavity between block/brick leaves with 110 mm proprietary PIR Partial Fill insulation, CE Marked and approved, DOP required, Class F fire rating, product to be certified by the British Board of Agreement, wall insulation slab with foil facings to both sides to achieve a thermal conductivity for external wall of 0.022 W/m.K, fix in 150 mm cavity with stainless steel wall ties to BS EN 845-1 with an integral device for holding the insulation in position, keep cavity clear of mortar droppings, allow for additional ties at 225mm centres at wall opes, movement joints, corners and canopy/balcony locations; All as per Structural Engineers and Architect's Specification Section F30</u>				
	Forming Cavities				
2.11	150 mm wide	60	m2		
	<u>Closing Cavities</u>				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 3 – House Type A

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
2	(22) INTERNAL WALLS, PARTITIONS				(Continued)
2.12	Closing cavities at blockwork wall opes to reduce thermal bridging using insulated proprietary cavity closer system: full width of cavity during external leaf course work construction; must comply with BS 476-20:1987: installation as per manufacturers' instructions; cavity closer system to meet part B & L of Irish Building regulations. Manufacturers certified data to confirm minimum R-value of 4.30m2K/W. Supply and fit proprietary cavity closer to close 150mm wide cavity at any Eaves / raking verge. Closing of cavity to comply with Diagram 17 of TGD Part B. Refer to section F301/10 of specifications and architect's drawings DR-A-1801, 1802, 1803 & 1807 for details. Close top of sloping cavity 150 mm wide. <u>Damp proof course: BS 743; bitumen felt</u> Damp proof course; B.S 743; 1970; : Bitumen hession based damp proof course to BS 6398 or I.S. 57. No allowance in measurements for laps.	12	m		
2.13	100 mm wide under blockwork. <u>Barriers</u> Cavity Fire barrier to have a 60 minute fire integrity/insulation, including 400mm wide strip of 2000g polythene damp proof course, fixed vertically at cavity junctions, All as Architects specification section F30 and indicated on drawing nr. DR-A1102 & 1105	25	m		
2.14	150mm thick, set sloping in cavity at party wall <u>FLOOR, WALL AND CEILING FINISHES: Stud Partitions</u> <u>Metal Stud Partitions comprising of stud at 600 mm centres.100mm acoustic mineral wool insulation between studs (or similar). studs faced both sides with one layer of 12.5 mm fireline plasterboard. with a skim finish each side. Seal between air barrier to be included where stud partitions meets blockwork external walls; All as Architect Specification K10</u>	12	m		
2.15	Partitions; firerated				
2.16	2640 mm high FF	28	m		
2.17	Extra over for forming 505 x 2100mm high opes	1	nr		
2.18	Extra over for forming 545 x 2100mm high opes	2	nr		
2.19	Extra over for forming 950 x 2100mm high opes	4	nr		
2.20	Extra over for forming 1200 x 2100mm (max) high opes; raking door head	1	nr		
2.21	Extra over for forming 1250 x 2100mm high opes	2	nr		
2.22	Extra over for abutments to other work	10	nr		
2.23	Three Way Intersections.	9	nr		
2.24	Angles / corners	4	nr		
2.25	Extra over for moisture resistant plasterbaord	11	m2		
	Other Items				
2.26	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below) (22) INTERNAL WALLS, PARTITIONS	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

2	(22) INTERNAL WALLS, PARTITIONS				(Continued)
	COLLECTION Page 7: Page 8: (22) INTERNAL WALLS, PARTITIONS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 3 – House Type A

Code	Description	Quantity	Unit	Rate	Total
3	(23) FLOORS; GALLERIES: STRUCTURE				
	(23) FLOORS; GALLERIES: STRUCTURE				
	<u>Generally</u>				
	<u>INFORMATION</u>				
3.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
3.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
3.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
3.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects & Engineers Drawings		note		
3.5	NOTES				
3.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
3.7	Contractor designed Easi Joist System in accordance with requirements set out on the Structural Engineers Drawings and the Specification. The information included in the Engineers Tender Documents is background information only and needs to be supplemented by the Contractor to facilitate the full design and construction of the Floor Joists by the contractors specialist. Allow in this item for providing the additional items required by specialist subcontractor to complete the installation of the structural floor including any special fixings, timbers etc they may require	1	Item		
	<u>WOODWORK: Structural & First Fixings</u>				
	<u>Composite Item: Engineered open web joists system, providing the required loads set out in the Structural Engineers Drawings all as per Structural Engineers specification, include for all associated clips, nail plate, end restraint, drive screw, hangers, grounds, noggings, packing piece, bridging members etc for the complete installation</u>				
	Carcassing; floors				
3.8	J1 & J2 - 219mm deep engineered timber easi joists. Fixed on proprietary joist hangers at 400 mm centres (35.79kg)	30	m		
3.9	J3 219mm deep engineered timber easi joists. Fixed on proprietary joist hangers at 400 mm centres, (35.7kg)	30	m		
3.10	J4 219mm deep engineered timber easi joists. Fixed on proprietary joist hangers at 400 mm centres, (23.2kg)	5	m		
3.11	J5 219mm deep engineered timber easi joists. Fixed on proprietary joist hangers at 400 mm centres, (27.7kg)	18	m		
3.12	J6 219mm deep engineered timber easi joists. Fixed on proprietary joist hangers at 400 mm centres, (28.1kg)	42	m		
	<u>Softwood; sawn unless otherwise stated; double vacuum treatment in accordance with Clause 6.2.2 of I.S. 63; stress graded to Class C16</u>				
3.13	Carcassing; floors				
3.14	220 x 75mm joists; trimmers	12	m		
3.15	220 x 75mm joists; trimmers	15	m		
3.16	100 x 44mm strongback; noggings	22	m		
3.17	47 x97mm noggings	29	m		
3.18	44 x 225mm binder	6	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 3 – House Type A

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
3	(23) FLOORS; GALLERIES: STRUCTURE				(Continued)
	<u>WOODWORK: Ironmongery, Accessories & Sundries</u>				
	<u>Metal and other work associated with woodwork in galvanised mild steel</u>				
	Joist hangers "Bat OPH Type R" or equivalent; galvanised mild steel gauge 12 to BS EN 10142				
3.19	For 225mm ecosjoists; fixed to blockwork in accordance with manufacturer's instructions	39	nr		
3.20	For 225mm ecosjoists; fixed to softwood joist in accordance with manufacturer's instructions	39	nr		
	L Straps "Bat" or equivalent; steel floor restraint straps; to be shot fixed to wall parallel with joists				
3.21	1200 x 30 x 5mm;	21	nr		
	<u>WOODWORK: Boarding and Second Fixings</u>				
	<u>T & G smartply OSB floor boards, to BS 1297:1987; 125mm x 22mm thick with tongued and grooved edges; Irish Agreement Board certified: surface of the board to be Class 3 as defined in BS 476: Part 7: 1997 for surface spread of flame; water vapour resistance factor to EN 12524 and EN 13986 test methods; fixed with 50mm oval flooring brads; two per board. Moisture content 9-13%</u>				
	Floors				
3.22	22mm thick; over 300mm wide	48	m2		
3.23	Extra over for; 18mm thick t & g plywood to be bonded to waterproof adhesive to bathrooms	5	m2		
	Labours				
3.24	Cut and make good around obstruction not exceeding 300 mm girth	5	nr		
3.25	Ditto 0.30 - 1.00 m girth	5	nr		
	Other Items				
3.26	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)				
	(23) FLOORS; GALLERIES: STRUCTURE				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

3	(23) FLOORS; GALLERIES: STRUCTURE				(Continued)
	COLLECTION Page 10: Page 11: (23) FLOORS; GALLERIES: STRUCTURE Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 3 – House Type A

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
4	(24,34) STAIRS & STAIRS COMPLETIONS				
	(24,34) STAIRS & STAIRS COMPLETIONS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
4.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
4.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
4.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
4.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects & Engineers Drawings		note		
	<u>WOODWORK: Composite Construction</u>				
	<u>Staircase comprising White Deal Timber staircase, 850 mm wide; 14nr steps, riser 194mm; going 225mm; generally straight flight consisting of 14 nr steps, 300 x 25 mm thick (finished) treads with bullnosed ends, 203 x 25 riser, 284 x 50 mm string closer, softwood wedges, 50 x 50 x 75 mm glued blocking pieces, 12 mm quadrant slip, 25 x 25 mm cover moulds, 50 x 65 mm diameter timber profiled handrail on top of balustrade formed with 38 x 38 square spindles at 125 mm centers (3800 mm long raking & 3800 m long horizontal section at top of landing), 3 nr 200 x 100 mm square timber post with timber cap and ball, including all labours, fittings and fixings.</u>				
4.5	Staircase and Balustrade				
4.6	2750mm floor to floor height	1	nr		
	<u>FLOOR, WALL AND CEILING FINISHINGS: Board finishes</u>				
	<u>15mm thick Plasterboard Type F: 30 minute fire rated foil-backed plasterboard slabs fixed to timber joists, having the joints filled with gyplite joint filler in conjunction with gyplite tape and finished with gyplite joint finish, screw fixed; refer to Architects Specification; all in accordance with manufacturers instructions.</u>				
	<u>Ceilings</u>				
4.7	Over 300mm wide; raking back of stairs	4	m2		
	Extra over for:				
4.8	75 x 44 framing @ 400mm c/c stairs soffit	12	m		
	<u>PAINTING AND DECORATING: Painting</u>				
	<u>Prepare and apply all preparation works, apply one undercoat of Quick Dry Primer, and two finishing coats of Twater based paint for interior wood, satin finish, pure brilliant white, per Architects Specification on the following wood surfaces: all as Architects Specification M60</u>				
	<u>Balustrades on stairs</u>				
4.9	1120 mm high balustrade.	15	m2		
	<u>Stairs</u>				
4.10	Risers 200 mm High;	12	m		
4.11	Going; 200mm wide	12	m		
4.12	Stringer 235 mm high;	4	m		
4.13	Newell post and capping	2	nr		

To Collection

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

4	(24,34) STAIRS & STAIRS COMPLETIONS	(Continued)			
4.14	<u>Prepare and apply all preparation works, sand, clean down and apply two coats of polyurethane varnish to handrail, per Architects Specification on the following wood surfaces:</u> Handrail Not exceeding 150mm girth; raking	4	m		
4.15	<u>Prepare and apply one initial coat: 22 microns, and two finishing coats of emulsion paint; all as per Architects Drawings and Specification section M60</u> Ceilings; back of staircase Exceeding 300mm wide	4	m2		
4.16	Other Items Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below) (24,34) STAIRS & STAIRS COMPLETIONS	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

4	(24,34) STAIRS & STAIRS COMPLETIONS				(Continued)
	COLLECTION Page 13: Page 14: (24,34) STAIRS & STAIRS COMPLETIONS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 3 – House Type A

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
5	(27) ROOFS				
	(27) ROOFS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
5.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
5.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
5.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
5.4	For layout, elevations and details refer to Hassett Leyden & Associates Architect & Engineers Drawings		note		
5.5	NOTES				
5.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
5.7	Contractor designed Trussed Roof in accordance with requirements set out on the Structural Engineers Drawings and the Specification, The information included in the Engineers Tender Documents is background information only and needs to be supplemented by the Contractor to facilitate the full design and construction of the Trussed Roof by the contractor specialist subcontractor. Allow in this item for providing the additional items required by the specialist subcontractor to complete the roof works including any special fixings, timbers etc. they may require	1	item		
5.8	Contractor to include for any overhang's to joists as per Architects details and manufacturer requirements including any on site alterations/trimming back as necessary	1	item		
	<u>WOODWORK: Structural & First Fixings</u>				
	<u>Pre-fabricated</u>				
	<u>Pre-Fabricated Trussed rafters, roof trusses and the like; Refer to Engineers Drawings DR-E-1405 for details</u>				
5.9	Roof truss design, materials and workmanship shall conform to B.S 5268 Part 2 or I.S 444; the trussed rafter design and construction shall conform to IS193;				
5.10	Truss, profile as Structural Engineers Detailed Drawings (Roof Plans) and associated notes & Specification, fixed at 600 mm centers, roof pitch as indicated; hoisting and fixing at approx 5.00m above ground floor level. Trusses to be designed, fabricated and erected in accordance with EN 1995;				
5.11	Truss Type T1; 8900mm clear span; 1 ply	11	nr		
	<u>Pitched Roof; is to be designed to conform with the geometry indicated on the architects and engineers drawings. The roof shall consist generally of trussed rafters at 600mm max centres with the addition of site infilltimbers, as appropriate</u>				
	Water tank supports; C16				
5.12	100 x 44 mm spreader beam.	16	m		
5.13	150 x 75 mm secondary bearer.	12	m		
5.14	100 x 44 mm primary bearer.	12	m		
5.15	1500 mm wide x 750 mm high Tank Truss Frame; Forming Tank truss frame as shown on Engineers drawings, including all associated timbers, splices, fixings, fittings, truss shoes..	1	nr		
	Carcassing; C16				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 3 – House Type A

Code	Description	Quantity	Unit	Rate	Total
5	(27) ROOFS				(Continued)
5.16	225x44mm; purlins	12	m		
5.17	225x44mm; binders	27	m		
5.18	100 x 25mm; truss ties	26	m		
5.19	97 x 22mm; longitudinal ties	83	m		
	<u>Wall plate: 100 x 75mm pressure impregnated treated timber. Strapped to inner leaf with galvanised 3x50mm bat straps @1200mm c/c - 800mm long</u>				
	Wall Plate; 100 x 75mm pressure impregnated treated timber.				
5.20	100 x 75mm	14	m		
	<u>19mm thick WBP plywood; laid on timber joists</u>				
	Boarding & Sheeting				
5.21	>300mm wide, attic storage area.	16	m2		
5.22	> 300mm wide: soffit	36	m		
5.23	< 300mm fascia	36	m		
	<u>WOODWORK: Ironmongery, Accessories and Sundries</u>				
	<u>Insulation Materials: 400mm mineral wool, 2 layers(200 + 200mm) cross laid. Isover Spacesaver roll or similar; thermal conductivity 0.044W/mK</u>				
	Thermal				
5.24	400 mm thick mineral wool insulation as per Architects Specification	50	m2		
	Insulation to water tank				
5.25	150 mm thick pvc wrapped fibreglass quilt around and over tank	4	m2		
	<u>Accessories</u>				
5.26	Galvanised steel L straps 5 x 30 x 1200mm long, screwed to wall plate and fixed to block wall with HPS nylon plug anchors.	23	nr		
5.27	Ditto 5 x 30 x 1600mm long screwed to 3 No trusses and fixed to block wall ditto.	22	nr		
5.28	Ditto 5 x 30 x 1000mm long, screwed to timber trusses and noggings.	10	nr		
5.29	Galvanised steel truss fixing clip "Bat" or equal approved, fixed to plate and truss in accordance with manufacturers instructions.	23	nr		
	Other Items				
5.30	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(27) ROOFS				

To Collection



Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 3 – House Type A

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

5 (27) ROOFS

(Continued)

COLLECTION

Page 16:

Page 17:

(27) ROOFS

Carried to Summary:

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 3 – House Type A

Code	Description	Quantity	Unit	Rate	Total
6	(31) EXTERNAL WALLS COMPLETIONS				
	(31) EXTERNAL WALLS COMPLETIONS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
6.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
6.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
6.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
6.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects Drawings		note		
6.5	NOTES				
6.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
6.7	This element has been measured from the relevant Architects Drawings together with the Engineers Drawings		note		
6.8	Dimensions provided are indicative, all dimensions should be measured on-site and agreed with the Architect/Employers Representative, before manufacturing begins		note		
6.9	The window system must have the following test certificates available for inspection, air filtration, water penetration, wind resistance, weather tightness. The test procedures are based on British standards, but may be altered prior to testing to meet European standards and procedures		note		
6.10	Where Permavents are outlined, these are to comply with Architects Specifications and achieve a minimum Air tightness as specified		note		
6.11	Tipperary County Council will require that the supplier of the windows demonstrates the elemental U-value of each window shown on the window and door schedule and that their window meets or exceeds the minimum requirement of Technical Guidance Document L. The U-Value calculation will not consider the window in isolation, but will include the BER rated foam to seal gaps in the opening		note		
6.12	The windows and their openings will be made airtight. The Contractor must submit Window and door independent Accredited Approval from the Manufacturer as highlighted on Drawing DR-SC-1601		note		
	<u>WOODWORK: Structural and First Fixings</u>				
	<u>Softwood to B.S. 1186: Red Deal; Class CSH Architects Specification Z10; wrought; moisture content at time of fixing not exceeding 13%; fixed to blockwork on and including softwood bearers or packers as necessary; plugged, screwed and pelleted at 600mm centres; routed to prevent warping; all as per Architects detailed drawings</u>				
6.13	First Fixings				
6.14	34 x 44mm; cut	23	m		
	<u>WOODWORK: Boarding and Second Fixings</u>				
	<u>MDF Windowboard; wrought; selected to BS 1186-3: bullnosed edging; Fix to softwood grounds with lost head nails at 600 mm centres. Prepared and primed as section M60. As per architects specification P20/200</u>				
	Window boards				
6.15	200 x 30 mm thick	12	m		
	<u>METALWORK: Non-Structural</u>				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 3 – House Type A

Code	Description	Quantity	Unit	Rate	Total
6	(31) EXTERNAL WALLS COMPLETIONS				(Continued)
	<u>Composite Items</u>				
	<u>PVC-U Windows: triple glazed tilt and turn windows, to provide an maximum U -Value of 1.2 W/m2K. CE marked and resistance tested to BS EN 14351-1 and BS 7412:.. Ironmongery to be included, Espagnolette lock, Restrictor Trickle ventilator Locking handle, Espagnolette lock. Fire egress: Manufacturer's standard restrictors to be removable and opening section designed in accordance with TGD Part B of Building regs; all in accordance with the Architects Drawing Nr 2701-HLA-ZZ-00-DR-SC-1601 specification Section L10.</u>				
	Windows				
6.16	W01; 2345mm wide x 1950mm high,	1	nr		
6.17	Extra Over; Window Restrictors	1	nr		
6.18	W02; 2345mm wide x 1100mm high,	1	nr		
6.19	Extra Over; Window Restrictors	1	nr		
6.20	W03; 1445mm wide x 1430mm high	3	nr		
6.21	Extra Over; Window Restrictors	3	nr		
6.22	W04; 545mm wide x 1150mm high,	1	nr		
6.23	Extra Over; Window Restrictors	1	nr		
	<u>Composite Items</u>				
	<u>GRP External door with triple glazing; Minimum 70mm thick engineered door leaf. Complete with high quality ironmongery to BS EN 942. Munster joinery ultratech or equivalent. FD30 Fire Rated. 3 point lock heavy duty handles. Min U-Value 1.1W/m2K. Doors to come complete with level access threshold, 5 point locking system with internal thumb or other easily opeable mechanism. Color to be selected. L20/270 in accordance with drawing NR 2701-HLA-ZZ-00-DR-SC-1601 & Specification Section L10.</u>				
	-				
	Glazed Single Door and Side Screen; overall size				
6.24	1445mm wide x 2100mm high including full length fixed side pane, including level threshold	1	nr		
	<u>GRP External door with triple glazing; Rear Door, Multi chamber foam insulated uPVC Single Door certified to BS EN 12608. 90mm profile system, extruded from a high impact strength modified PVC compound. Single door, U value 1.2w/m²k. Glazing: triple glazed, argon filled units, Clear glass, All glazing to be toughened, Door to be internally beaded with triple glazed units. Units to be 90% Argon gas filled with warm edge space bar and have a light transmission of 80% or more. Glass thickness to comply with BS6262. Safety glass to critical areas to meet the requirements of BS6180, BS6399 and part K & D of the building regulations. All glazing units to be certified to BS EN 1279 part 2 and 3. Exposure Category: 1200Pa to BS6375 Part 1 Security: PAS24:2016 Operation and Strength: BS6375-2:2009 Threshold: low level threshold Finish:RAL to match window, include for heavy duty lift off hinges 5 point multi locking system, EPDM weatherseal. Colour to be selected. L10/20, refer to Architects Drawings 2798-HLA-ZZ-00-DR-SC-1601</u>				
	Glazed single door and frame				
6.25	overall size 1015mm wide x 2100mm	1	nr		
	<u>WOODWORK: Ironmongery, Accessories and Sundries</u>				
	<u>Supply and fit the following ironmongery in accordance with Architects Specification</u>				
	Door Number				
6.26	89mm high polished chrome face fixing numerals fixed in accordance with manufactures instructions, to Architects approval, refer to HLA Schedule of Items document	1	nr		

To Collection

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

(31) EXTERNAL WALLS COMPLETIONS		(Continued)			
6.27	Night Latch to front door as specified <u>Wall mounted stainless steel letterbox fixed to blockwork/brickwork wall. refer to Architectes Specification and HLA Schedule of Items document</u> Letterbox	1	nr		
6.28	318mm high x 360mm wide x 115mm deep <u>PAINTING AND DECORATING: Painting</u> <u>Second Fixings</u> Prepare and apply one coat of aluminium type 2 wood primer, one undercoat and two finishing coats to Architects approval	1	nr		
6.29	Windowboards; not exceeding 300mm girth Other Items	12	m		
6.30	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below) (31) EXTERNAL WALLS COMPLETIONS	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

6	(31) EXTERNAL WALLS COMPLETIONS				(Continued)
	COLLECTION Page 19: Page 20: Page 21: (31) EXTERNAL WALLS COMPLETIONS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 3 – House Type A

Code	Description	Quantity	Unit	Rate	Total
7	(32) INTERNAL WALLS COMPLETIONS				
	(32) INTERNAL WALLS COMPLETIONS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
7.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
7.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
7.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
7.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects Drawings.		note		
7.5	NOTES				
7.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>WOODWORK: Boarding and Second Fixings</u>				
	<u>Second Fixings</u>				
	Architrave; White deal with bullnosed leading edges; Refer to Architects Specification L20 Drawing 2798 HLA ZZ 00 DR SC 1602				
7.7	75 x 25mm; bullnosed edge	145	m		
	Door Saddles; Hardwood				
7.8	Door saddles.	14	m		
	<u>WOODWORK: Composite Items</u>				
7.9	Refer to Architects Door and Ironmongery Schedule for Door Tyes and Architects Specification Section L20				
7.10	Refer to the construction details, for sizes and profiles of members, construction of door leafs and frames, glazing specification, vision panels and the like				
7.11	The unit rates are to allow for door leaves, frame jambs and head, 44 x 15mm door stop, mullions, transoms, fanlights, glazing beads, glazing, fixing to blockwork and sealing in accordance with the Specification and Drawings. All doors to include for a flexible vinyl seal rebated into the door frame to achieve a sound reduction value of 30dB unless otherwise stated				
7.12	Seal junction of FD30S/FD60s frame and structure with intumescent pointing in selected colour to form a 3 x 10mm sealed joint with fair concave edge				
7.13	Door widths to habitable rooms to be accordance with TGD Part M (latest edition) primarily 800mm clear width				
	<u>Doors with associated frames</u>				
	<u>44mm European red wood veneered shaker style pre finished doors as agreed with the architect. Doors shall include for 115 x 50mm rebated door frame to class J30 as specified in BS EN 942.</u>				
	Fire Rated Single doors and associated frame set - FD30				
7.14	Single door set to suit structural ope size 950 x 2100 mm high (D01)	7	nr		
7.15	Double door set to suit structural ope size 1500 x 2100 mm high (D02)	1	nr		
7.16	Double door set to suit structural ope size 1200 x 2100 mm (max) high, raking door head to suit profile of stairs (D04)	1	nr		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 3 – House Type A

Code	Description	Quantity	Unit	Rate	Total
7	(32) INTERNAL WALLS COMPLETIONS				(Continued)
	Single doors and associated frame set; non fire rated				
7.17	Single door set to suit structural ope size 505 x 2100 mm high (D07)	1	nr		
7.18	Single door set to suit structural ope size 545 x 2100 mm high (D06)	2	nr		
7.19	Double door set to suit structural ope size 1250 x 2100 mm high (D05)	2	nr		
	<u>WOODWORK: Ironmongery, Accessories and Sundries</u>				
	<u>Supply and fit the following ironmongery in accordance with Architects Specification</u>				
	Ironmongery Set, Satin finished stainless steel; fixed to fire rated timber doors, comprising:				
7.20	ZHS43CP Ball Bearing Hinges Steel 102 x 76 x 3mm to EN1935 as per Architects Specification.	54	nr		
7.21	Lock; 64mm long; 5 lever sash lock; c/W PVD Forend and strike	12	nr		
7.22	Bathroom lock to EN12209. Turn and Release on round nose	2	nr		
7.23	Lever Handle (as a pair).	14	nr		
7.24	Floor fixed doorstep.	14	nr		
7.25	Overhead cam action door closer	9	nr		
7.26	Interdens Bases Intumescent KCC lock protector	9	nr		
7.27	Intumescent hinge plate protector	9	nr		
7.28	Intumescent Pack	9	nr		
	<u>PAINTING & DECORATING: Painting</u>				
	<u>Prepare and apply one coat of Primer-Undercoat., two undercoat of acrylic Gloss (White), or equivalent, on the following wood surfaces:</u>				
	Doorsets				
7.29	Exceeding 300 mm wide	57	m2		
	Architraves and saddle boards				
7.30	Not exceeding 300 mm wide	0	m		
	<u>Prepare and apply one coat of Primer-Undercoat., two undercoat of acrylic Gloss (White), or equivalent, on the following wood surfaces:</u>				
	General Surfaces				
7.31	Frames; not exceeding 300 mm wide	145	m		
	Other Items				
7.32	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(32) INTERNAL WALLS COMPLETIONS				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

7	(32) INTERNAL WALLS COMPLETIONS				(Continued)
	COLLECTION Page 23: Page 24: (32) INTERNAL WALLS COMPLETIONS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 3 – House Type A

Code	Description	Quantity	Unit	Rate	Total
8	(36) ROOF COMPLETIONS				
	(36) ROOF COMPLETIONS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
8.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
8.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
8.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
8.4	For layout, elevations and details refer to Hasset and Leyden & Associates Architects Drawings		note		
8.5	NOTES				
8.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>WOODWORK; Composte Item</u>				
	<u>Attic Hatch</u>				
	<u>Proprietary attic access hatch; Model No. 1000 BF/PL, or equivalent and approved. Frame is exposed incorporating a simulated dry wall edge; panels are powder coat finish all over ; airtight sealing system to match U-Value of ceiling system; all in accordance with Architects Specification Section L20 630</u>				
	Access Hatch, airtight to suit ope size				
8.7	600 x 600mm wide	1	nr		
	Roof Canopy				
	<u>Composite Item; GRP Flat Roof Canopy over entrance door complete including 40 x 40 galvanised steel angles bolted to wall as specified, finished in GRP cladding to top, fascia and soffitt, allow for 125 x 250mm high upstand flashing to external wall; all as detailed on Architects Detail Sheet - Schedule of Items and Specification; fixed in strict accordance with the manufacturers printed instructions and the Structural engineers requirements, include for all fixings, flashings etc</u>				
	Canopy				
8.8	800mm wide x 1850mm long x 175mm thick; including 125 x 250mm high upstand at outer leaf;	1	nr		
	Other Items				
8.9	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(36) ROOF COMPLETIONS				

To Collection



Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 3 – House Type A

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

8 (36) ROOF COMPLETIONS

(Continued)

COLLECTION

Page 26:

(36) ROOF COMPLETIONS
Carried to Summary:

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 3 – House Type A

Code	Description	Quantity	Unit	Rate	Total
9	(41) WALL FINISHES EXTERNALLY				
	(41) WALL FINISHES EXTERNALLY				
	<u>Generally</u>				
	<u>INFORMATION</u>				
9.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
9.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
9.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
9.4	For layout, elevations and details refer to Hasset & Leyden & Associates Architects Drawings		note		
9.5	NOTES				
9.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>FLOOR, WALL AND CEILING FINISHES: In-Situ Finishes</u>				
	<u>K Rend Scraped finish or similar , applied in accordance with manufactures instructions, include for all angles, beads, dividing strips and the like; composition and application in full accordance with manufacturer's instructions; in accordance with the Architects Specification Section M20</u>				
	Walls; to blockwork surfaces; externally				
9.7	> 300mm wide	116	m2		
	Reveals; smooth; girth				
9.8	< or = 150mm.	39	m		
	Plinth; smooth; girth				
9.9	150mm - 300mm.	21	m		
	<u>Sundries: Beads</u>				
	<u>Stainless steel bead or equivalent to be installed, in accordance with the manufacturers specifications</u>				
9.10	Belcast	21			
9.11	Angle Bead.	60	m		
9.12	Stop beads.	38	m		
9.13	Designed expansion joint in render coinciding with movement joints in background.	19	m		
	<u>Form movement joints with stainless steel stop bead edgings to both sides of the external walls movement joints location, stop beads, expamet or equivalent installation, centered over joint in substrate, fixed with stainless steel screws, joint width, to suit that of structural movement joint in background. Sealant colour to architect's later approval to match brickwork. Prepare joints and apply sealant as section Z22. Preparation and application as per Architects specification F30/18.</u>				
	Movement Joints				
9.14	Vertical; 6mm wide	19	m		
	<u>PAINTING AND DECORATING: Painting</u>				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

9 (41) WALL FINISHES EXTERNALLY (Continued)

	<u>Matt External Emulsion Paint ,or equivalent, external painting system, include for cleaning surface, apply one initial coat and two finishing coats to selected colour; all in accordance with Architects Specification Section M60</u>				
	General Areas				
9.15	exceeding 300mm wide	116	m2		
	Reveals; smooth; girth				
9.16	< or = 150mm.	39	m		
	Plinth; smooth; girth				
9.17	150mm - 300mm.	21	m		
	Window cills; girth				
9.18	250mm - 500mm.	12	m		
	Other Items				
9.19	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(41) WALL FINISHES EXTERNALLY				

To Collection

	COLLECTION				
	Page 28:				
	Page 29:				
	(41) WALL FINISHES EXTERNALLY Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 3 – House Type A

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
10	(42) WALL FINISHES INTERNALLY				
	(42) WALL FINISHES INTERNALLY				
	<u>Generally</u>				
	<u>INFORMATION</u>				
10.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
10.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
10.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
10.4	For layout, elevations and details refer to Hasset Leyden & Associates Architects Drawings		note		
10.5	NOTES				
10.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>FLOOR WALL AND CEILING FINISHES: Board Finishes: Drylining</u>				
	<u>12.5mm Plasterboard fixed to and including 45 x 45mm treated timber battens spaced at 400mm centres with absorbing quilt insulation in void between plasterboard and 215mm party wall: complete with painted skim finish: dot and daded fix, tape jointed and skim coated to finish, refer to Architects Drawing Nr 210206-04-048 and Specification Section K10, all in accordance with manufacturers instructions.</u>				
	Walls				
10.7	Exceeding 300mm wide	45	m3		
10.8	Extra over for moisture resistant plasterbaord	5	m2		
	<u>FLOOR, WALL AND CEILING FINISHINGS: In-situ finishes</u>				
	<u>Plaster, first coat of scud coat 1:2, second coat of scratch coat 1:1:6 and third coat of gypsuml plaster finish, 2mm thick: to blockwork base: applied in accordance with BS 5492:2006; including for all "Expamet" or equivalent stainless steel angle and stop beads; in accordance with Architects Specification Section M20</u>				
	Walls;				
10.9	Exceeding 300mm wide.	161	m2		
10.10	Not exceeding 300mm wide; to reveals	39	m		
	<u>FLOOR, WALL AND CEILING FINISHINGS: Tile, Slab or Mosaic finishes</u>				
	<u>Kitchen Splashback; Glazed ceramic wall tiles shall be flat gloss 150mm x 150mm tiles complying with BS EN 14411 and shall be of the colours selected by the Architect. Tiles shall be fixed with adhesive by the thin bed method and shall be wiped clean and fixed dry. Use Proprietary PVC edge strips to match tile at external corners and installed in accordance with the manufacturers instructions; all as Architects Specification Section M40/110A.</u>				
	Walls				
10.11	Exceeding 300mm wide: Splashback to Kitchens	4	m2		
	<u>Glazed ceramic wall tiles shall be 150mm x 150mm x 6mm tiles complying with BS EN 14411 and shall be of the colours selected by the Architect. Tiles shall be fixed with adhesive by the thin bed method and shall be wiped clean and fixed dry. The tiles shall be bedded with straight joints not exceeding 3 mm wide to approved finished sample and colour. Use Proprietary PVC edge strips to match tile at external corners and installed in accordance with the manufacturers instructions, all as Architects Specification section M40/110B.</u>				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

10	(42) WALL FINISHES INTERNALLY				(Continued)
	Walls				
10.12	Exceeding 300mm wide. : Bathrooms	9	m2		
10.13	Not Exceeding 300mm wide; splashback	1	m2		
	Labours on Tiling				
10.14	Cut and make good around obstruction not exceeding 300 mm girth.	5	nr		
10.15	Ditto 300 mm - 1.00 m girth.	3	nr		
10.16	Ditto 1.00 - 2.00 m girth.	1	nr		
10.17	Seal junction between wall tiling and sanitary fittings, built-in fittings and the like with one-part silicone rubber sealant as before in selected colour to form a 6 mm triangular joint with fair concave edge.	14	m		
10.18	stainless steel tile trim.	13	m		
	<u>PAINTING AND DECORATING: Painting</u>				
	<u>Prepare and apply one initial coat, and two finishing coats of approved mid sheen vinyl emulsion paint as Architects Specification Section M60</u>				
	Walls				
10.19	Exceeding 300mm wide.	285	m2		
10.20	Not exceeding 300mm wide; reveals.	39	m		
	Other Items				
10.21	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(42) WALL FINISHES INTERNALLY				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

10 (42) WALL FINISHES INTERNALLY (Continued)

	COLLECTION Page 31: Page 32: (42) WALL FINISHES INTERNALLY Carried to Summary:				
--	--	--	--	--	--

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 3 – House Type A

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
11	(43) FLOOR FINISHES				
	(43) FLOOR FINISHES				
	<u>Generally</u>				
	<u>INFORMATION</u>				
11.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
11.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
11.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
11.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects and Civil Engineers Drawings		note		
11.5	NOTES				
11.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
11.7	Contractor is to include within the rates for any works associated with achieving the required moisture content in concrete floors prior to laying floor finishes		note		
	<u>CONCRETE WORK: In-situ Concrete</u>				
	<u>Include for any works associated with achieving the required moisture content in concrete floors prior to laying floor finishes.</u>		note		
	Achieving Moisture Content				
11.8	Concrete Powerfloat Finish	50	m2		
	<u>FLOOR, WALL AND CEILING FINISHINGS: In Situ Finishes</u>				
	<u>Prepare and apply mixed self levelling compound or equivalent, to concrete floors, 1 number coat: 3mm thick, all in accordance with manufacturers instructions and Architects Specification</u>				
	Floor Levelling Compound				
11.9	Floors; over 300mm wide	50	m2		
	<u>FLOOR, WALL AND CEILING FINISHINGS: In Situ Finishes</u>				
	<u>Two part component waterproof system containing a 1mm butyl based self-adhesive waterproof floor membrane with a fabric top layer suitable for solid floors. all floors to be primed before application of membrane. Allow for 125mm self-adhesive hdpe butyl reinforcing tape and gun applied jointing compound to all wall and floor junctions, butt joints and other detail work within the membrane. All walls to shower areas only to receive 1mm thick brush applied flexible wall membrane to a minimum height of 2200mm and overlapping with reinforcing tape at floor junction. Floors and walls in wc/shower room to be prepared to take tile finish as per spec, all in accordance with manufacturer's instructions and as per Architects Specification J30</u>				
	To Walls & Floors				
11.10	> 300mm wide	13	m2		
	<u>WOODWORK: Boarding Second Fixings</u>				
	<u>Second fixings: softwood skirting, plugged and screwed to blockwork with screw heads countersunk and pelltated at 450mm centres to BS 1186-3: as per Architects Specification P20</u>				
	Skirtings				
11.11	150 x 19mm softwood skirting,	112	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

11	(43) FLOOR FINISHES				(Continued)
11.12	Extra over for Short lengths. WOODWORK: Ironmongery, Accessories and Sundries <u>Silicone/caulk sealant at junction of skirting and wall; gun applied; finish smooth; colour and quality of sealant to Architects selection.</u> Sealing	20	nr		
11.13	Width of seal not exceeding 10mm FLOOR, WALL AND CEILING FINISHINGS: Floor Tiling <u>Floor tiles: R12 Beige porcelain tiles matt finish; 300 x 400 x 10mm thick complying with BSEN 12057; tiles shall be fixed with a thick bed of adhesive CG2 classification, the tiles shall be bedded with straight joints to the approved finished sample and colour as Architects Specification M40</u> Floors; to concrete/timber base	112	m		
11.14	> 300m wide; horizontal PAINTING AND DECORATING: Painting <u>Prepare and apply one coat of primer undercoat, undercoats as directed by manufacturer. Finishing coat of acrylic based Gloss (White), or equivalent, on the following wood surfaces:</u> Skirtings	28	m2		
11.15	General surfaces not exceeding 300 mm wide;	112	m		
11.16	Ditto short lengths Other Items	20	nr		
11.17	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below) (43) FLOOR FINISHES	1	item		
To Collection					

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

11	(43) FLOOR FINISHES				(Continued)
	COLLECTION Page 34: Page 35: (43) FLOOR FINISHES Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 3 – House Type A

Code	Description	Quantity	Unit	Rate	Total
12	(45) CEILING FINISHES				
	(45) CEILING FINISHES				
	<u>Generally</u>				
	<u>INFORMATION</u>				
12.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
12.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
12.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
12.4	For layout, elevations and details refer to Hasset Leyden & Associates Architects Drawings		note		
12.5	NOTES				
12.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>WOODWORK: Structural and First Fixings</u>				
	<u>34 x 44mm treated softwood battens, battens fixed to ceiling joist / truss members spaced at 300 mm maximum centres with galvanised wire nails</u>				
	First Fixings				
12.7	Exceeding 300mm Wide	99	m2		
	<u>WOODWORK: Ironmongery, Accessories and Sundries</u>				
	<u>Isover Vario KM Duplex intelligent membrane or equivalent; to be stapled to underside of joints and taped at all lapped joints using siga sicrall tape or equivalent to ensure airtight envelope as per TGD Part L 2011. To underside of roof trusses and taping to all perimeter walls</u>				
	Sundries				
	Seals				
12.8	Exceeding 300mm Wide; To underside of roof trusses	50	m2		
	<u>FLOOR WALL AND CEILING FINISHES: In-Situ Finishes</u>				
	<u>Plaster: Gypsum skim coat plaster; smooth finish; 1-5mm thick; to plasterboard base. CE to be marked and approved. all as per Architects Specification Section M20 clause 220A.</u>				
	Ceilings				
12.9	> 300mm wide; Horizontal	99	m2		
	Making good and labour finishing skim coat around pipework 0.30 - 1.00m girth				
12.10	300 - 1000mm girth.	12	nr		
	<u>FLOOR, WALL AND CEILING FINISHINGS: Board finishes</u>				
	<u>15 mm thick Type A plasterboard to BS EN 520. Screws to be recommended by the manufacturer. Moisture resistant plasterboard to be used in wet areas; refer to Architects Specification; all in accordance with manufacturers instructions refer to Architects Specification K10. allow for Fire stopping around service penetrations as section P12.</u>				
	Ceilings				
12.11	Over 300mm wide; Horizontal	99	m2		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

12 (45) CEILING FINISHES (Continued)

	Extra over to:				
12.12	Moisture resistant board.	26	m2		
	Making good and labour finishing including jointing 15mm plasterboard around pipework				
12.13	300 - 1000mm girth	5	nr		
	<u>PAINTING AND DECORATING: Painting</u>				
	<u>Prepare and apply one initial coat, and two finishing coats of approved Trade Matt Vinyl Emulsion paint as Architects Specification Section M60</u>				
	Ceilings				
12.14	over 300mm wide; to plaster base	99	m2		
	Other Items				
12.15	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(45) CEILING FINISHES				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

12	(45) CEILING FINISHES				(Continued)
	COLLECTION Page 37: Page 38: (45) CEILING FINISHES Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 3 – House Type A

Code	Description	Quantity	Unit	Rate	Total
13	(47) ROOF FINISHES				
	(47) ROOF FINISHES				
	<u>Generally</u>				
	<u>INFORMATION</u>				
13.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
13.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
13.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
13.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects Drawings		note		
	<u>NOTES</u>				
13.5	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>ROOFING, CLADDING AND WATERPROOFING: Slate & Tile Roofing</u>				
	<u>Concrete roof slate, 420mm x 334mm: selected Milford Slate Grey Ref 1532 suggested supplier Morrissey Roof Tiles, smooth finish flat leading edge roof tile, manufactured to EN 490:2011. Treated battens at 245mm c/c. Minimum Headlap 110mm Maximum Batten Gauge 400mm as per architect's specification document; Fittings/ fixings should be fitted in accordance with the Irish Code of Practice for Slating and Tiling; in accordance with Specification H65.</u>				
	Coverings; exceeding 30 degree pitch				
13.6	Sloping; over 300mm wide	82	m2		
13.7	Extra; Thru-vent roof ventilation slate with 15mm PVC underlay installed in accordance with manufactures instructions	3	nr		
	Ridge				
13.8	Ridge tile to be universal concrete angle ridge; in 450mm effective lengths; NWA Universal Ridge kit DRUA02 Antracite; butt jointed, mechanically fixed with proprietary fixings as per Specification	7	m		
	<u>ROOFING, CLADDING AND WATERPROOFING: Rigid Sheet Coverings and Decking</u>				
	<u>Proprietary fascia ventilator Fix to close underside of first course tiles.; First course tiles: Fix with tails projecting 50 mm over gutter or to centre of gutter. Airway: the equivalent of a continuous opening of not less than 10mm for full length of eaves, all as per Architect's Drawings include for eaves skirt/tray to prevent sagging, refer to Specifications Section H65</u>				
	Eaves ventilators				
13.9	17.5 mm x 13.5 mm wide	14	m		
	<u>Rows of ventilator roll to be laid over the rafters before laying roofing underlay.</u>				
	Rafter Roll				
13.10	300 mm wide	14	m		
	<u>Rolled lead to : Flashings BSEN588:2006 Code 5 Refer to Architects Specification H71; Flashings to be treated with patination oil as L.S.A manual to reduce staining.</u>				
	Apron Flashings				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 3 – House Type A

Code	Description	Quantity	Unit	Rate	Total
13	(47) ROOF FINISHES				(Continued)
13.11	2.24 thick flashings; 250mm girth; bends - 1; junction between canopy and external wall;	2	m		
13.12	2.24 thick flashings; 250mm girth; bends - 1; junction between roof and xternal wall; sloping Cover Flashings	12	m		
13.13	2.24 thick flashings; 250mm girth; bends - 1; junction between canopy and external wall;	2	m		
13.14	2.24 thick flashings; 250mm girth; bends - 1; junction between roof and xternal wall; sloping <u>Aluminium dry verge unit fixed to timber backing installed with system fixing accessories in strict accordance with the manuracturers instructions</u> Dry Verge; sloping	12	m		
13.15	not exteeding 300mm wide <u>WOODWORK: Boarding and Second Fixings</u> <u>Fascia and soffits: COLOUR RAL 7001. Fascia 8 mm thick minimum, moulded, height to suit approx. 325 mm; bracket fixed at 915mm centres and at each fitting using number 12x38mm.SOFFIT BOARD 10 mm thick hollow extrusion T&G All holes to be filled, sealed and sanded; continuous sealant, compatible with external finish, to interface with structure</u> Fascia & Soffitt board	12	m		
13.16	Not exceeding 300 mm wide. <u>METALWORK: Non-Structural</u> <u>PVC Eavesline Fascia and Soffit; to selected colour: 325mm x 8mm thick plain fascia, & 75mm soffit or equivalent, fixed to and including 50 x 50 treated timber batten fixed to blockwork wall,include for all fittings, seals, trims, bolts and fixings</u> Sheeting; Expanded Metal Fascia board	38	m		
13.17	Not exceeding 300 mm wide Soffit board	38	m		
13.18	Not exceeding 300 mm wide	38	m		
13.19	Mitered box ends Other Items	4	nr		
13.20	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below) (47) ROOF FINISHES	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

13	(47) ROOF FINISHES				(Continued)
	COLLECTION Page 40: Page 41: (47) ROOF FINISHES Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 3 – House Type A

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
14	(52) DRAINAGE AND REFUSE DISPOSAL				
	(52) DRAINAGE AND REFUSE DISPOSAL				
	<u>Generally</u>				
	<u>INFORMATION</u>				
14.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
14.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
14.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
14.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects Drawings		note		
14.5	NOTES				
14.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>DRAINAGE: Disposal Above Ground</u>				
	<u>Downpipes shall be aluminium, complying with To BS 299. Shall be 75 mm & 100 mm for large capacity round rainwater pipes and shall include all fittings and accessories required. In accordance with architects specification R10 / 370.</u>				
	Downpipes				
14.7	75 mm diameter	11	m		
14.8	Extra; shoes	2	nr		
14.9	Extra; connections to outlets	2	nr		
	<u>Gutters shall Cast Aluminium, powder coated to BS EN 12206-1:2004. Rail to match Window RAL, complying with BS 2997 and shall include all fittings and accessories required. Rainwater pipes shall be 100mm wide and 75mm deep half round gutters, complying with BS EN1559:1997, BS EN 1676:1997 and BS EN 1706:1998 and shall include all fittings and accessories required. In accordance with architects specification R10 / 311</u>				
	Gutters				
14.10	100mm diameter	14	m		
14.11	Ends	4	nr		
14.12	75mm diameter outlets	2	nr		
14.13	Bends	2	nr		
	<u>SOILS AND WASTES</u>				
	<u>Pipes and fittings; MU PVC; solvent welded joints in the running length; standard pipe clips at 500mm centres to concrete requiring hanging; laid to falls</u>				
	Pipes; 100mm diameter				
14.14	Surface fixed; vertical; SVP	15	m		
14.15	Surface fixed; Horizontal; SVP	3	m		
14.16	Extra; bends	2	nr		
14.17	Extra; connection to WC outlets; special adaptor	2	nr		

To Collection

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

14	(52) DRAINAGE AND REFUSE DISPOSAL				(Continued)
14.18	Extra; cleaning eye	2	nr		
14.19	Extra; vent cowl	2	nr		
	Other Items				
14.20	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(52) DRAINAGE AND REFUSE DISPOSAL				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

14 (52) DRAINAGE AND REFUSE DISPOSAL (Continued)

	COLLECTION Page 43: Page 44: (52) DRAINAGE AND REFUSE DISPOSAL Carried to Summary:				
--	--	--	--	--	--

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 3 – House Type A

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
15	(59) MECHANICAL INSTALLATIONS				
	(59) MECHANICAL INSTALLATIONS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
15.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
15.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
15.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
15.4	For layout, elevations and details refer to Don O Malley Services Engineers Drawings.		note		
15.5	NOTES				
15.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
15.7	Tendering Contractors are to refer to Don O Malley Drawings and Specification.		note		
15.8	Tendering Contractors are to include for all testing, commissioning, maintenance manuals, training on safe operation etc. all as specified within Moloney Fox performance specification document.		note		
15.9	Tendering Contractors will be required to provide and include for all maintenance during the 12 months after substantial completion; all in accordance with Don O Malley performance specification document.		note		
15.10	A fully quantified and priced breakdown of the Electrical Installation tender is to be provided by the contractor whos tender is being considered for acceptance. The tenderer under consideration will be expected to provide this information within 7 working days of being requested to do so. Failure to do so may result in the rejection of his tender.		note		
15.11	Element (69) has not been measured in accordance with ARM, Agreed Rules of Measurement (Issue 4). Tendering Contractors are to include hereunder within their rates for any additional costs associated with same.		note		
	<u>MECHANICAL INSTALLATIONS</u>				
	<u>Mechanical Installations</u>				
15.12	Total Contract Value transferred from the Don O Malley & Partners Mechanical Services Installation Tender Document 'Summary of Tender: - House Type A <u>Total Contract Value to Include the breakdown cost on the following items from the Mechanical Services Installation Tender Summary:</u>	1	item		
	Preliminaries				
15.13	General Items 1	1	item		
	Mechanical Services Installations				
15.14	Amount for Internal Mains Water Piping Installation	1	item		
15.15	Amount for Hot & Cold Water Services Installation including Manifolds	1	item		
15.16	Amount for Cold Water storage Tanks with Booster Pump Supply & Installation	1	item		
15.17	Amount Air to Water Heat Pump supply & Installation including all instrumentations	1	item		
15.18	Amount Air to Water Heat Pump external pipeworks installation	1	item		
15.19	Amount For Heating Pipework Supply & Installation Including Manifolds	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 3 – House Type A

Code	Description	Quantity	Unit	Rate	Total
15	(59) MECHANICAL INSTALLATIONS				(Continued)
15.20	Amount For Radiators Supply & Installation Including Thermostatic Valves, Lock Sheid Valves and Thermostat	1	item		
15.21	Amount For Zone Controls Supply & Installation	1	item		
15.22	Amount For Mechanical Ventilation (DCV) Supply & Installation Including Fans, Controls and Sensors	1	item		
15.23	Amount For Kitchen Extractor Hoods Supply & Installation	1	item		
15.24	Amount For Extract Ducting Supply & Installation Including Extract Grilles	1	item		
15.25	Amount For Above Ground Drainage Installation Including Booster Tank Overflow	1	item		
15.26	Amount For Insulation of All Internal Pipework	1	item		
15.27	Amount For Sterilisation, Cleaning and Flushing.	1	item		
15.28	Amount For Fire Extinguishers & Fire Blanket Supply & Installation	1	item		
15.29	Amount For Fire Collars Supply & Installation	1	item		
15.30	Amount For Fire Collars Supply & Installation	1	item		
15.31	Amount For 12 Months Maintenance	1	item		
15.32	Amount For Provision of Handover Documentation	1	item		
15.33	Amount For Any Other Items Deemed Necessary for Completion of Works	1	item		
15.34	Amount For a Water Meter	1	item		
15.35	Amount for Outdoor Tap Installation	1	item		
	BER and BER Certificate				
15.36	Amount to complete and issue a BER cert and Part L compliance report on completion - 1 Nr. Required per property.	1	item		
15.37	Amount to register BER certificate and lodge to SEAI website	1	item		
	<u>Include the following in respect of the foregoing</u>				
15.38	All costs and requirements associated with a complete Mechanical Installation (such as main contractors general and special attendances, unloading, distributing, lifting, hoisting and placing in position all plant and equipment as scheduled, storage for plant, covered storage for welding and portable machine tools, profit and all additional preliminaries over and above normally provided by sub-contractors themselves and the like) if not included in the above item should be included here. Provide for lifting, hoisting, moving and placing into position the following if not already included in the above	1	item		
15.39	Ductwork and accessories	1	item		
15.40	Pipework and accessories	1	item		
15.41	Radiators and accessories	1	item		
15.42	Satellite Units and accessories	1	item		
	<u>SUNDRIES AND BUILDERS WORK</u>				
15.43	Refer to Builders Works drawings for details and locations of openings for services.		note		
15.44	Filling and sealing voids around pipework, ductwork etc. shall achieve a decibel rating equivalent to the structure in which the ope is formed. The filling and sealing shall finish neatly flush with the structure and finishes on both face.		note		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 3 – House Type A

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
15	(59) MECHANICAL INSTALLATIONS				(Continued)
15.45	Fireseal opes shall include for all works included in Architect's Specification; intumescent compound for sealing around service members on both faces to provide a 1 hour period of fire resistance. The fireseal is to finish neatly flush with the structure and finishes on both faces. This specification applies to all sections of the Bill of Quantities.		note		
15.46	Rates are to allow for making good in all trades complete. <u>SUNDRIES AND BUILDERS WORK</u> Airtightness Test		note		
15.47	Undertake a building pressure and air flow test & pre-test at the time of completion of construction to a standard of air permeability of 3m3/hr/m2 at 50 Pa in accordance with the test methods prescribed under Building Regulations TGD-L the new building and other requirements as specified in the tender documents. Include for all disruption associated with the requirement to vacate the premises during the test(s) sealing all inlet/outlet grilles and flues, air supply openings, wedging internal doors open/closed as appropriate, closing fire dampers and any other measures necessary to allow testing to be completed. Any costs arising out of test failure(s) which can be attributed to the poor workmanship and improper detailing of domestic and nominated sub-contractors, including the cost of repeat test(s) shall be at the expense of the Contractor. Testing carried out by an INAB accredited Specialist, 1 test carried out at first fix stage and 1 final test at the end of the project, all site inspection by specialist, sample testing including smoke testing etc, submit a digital copy of test results and all supporting data to the Employer and Design Team no later than 7 days following final test. Refer to Architects Specification for full Details of Airtightness Requirements, no additional costs will be entertained due to the contractor's failure to correctly interpret this section of the specification. Sound Test	1	item		
15.48	Undertake airbourne/sound test to be undertaken by a company compotent in the measurement of sound insulation of buildings in accordance with the test methods prescribed under Building Regulations E1 the new building and other requirements as specified in the tender documents. Include for all disruption associated with the requirement to vacate the premises during the test(s) and any other measures necessary to allow testing to be completed. Any costs arising out of test failure(s) which can be attributed to the poor workmanship and improper detailing of domestic and nominated sub-contractors, including the cost of repeat test(s) shall be at the expense of the Contractor. Certificate to be lodged in the Safety File. 2 number test per house to include floor and party walls carried out in accordance with IS EN ISO 16283 and 3382-2 achieving 53 Dnt,wdB, Refer to Architects Specification for Details. Mechanical Ventilation Testing	1	item		
15.49	All Mechanical Systems when installed and commissioned should be validated by a Certified Third Party compotent in the measurement of ventilation systems in buildings to ensure that they achieve the design flow rates for extract fans and the correct opening area. Airflow measurements should be performed using a calibrated airflow device and results recorded in litres per second (l/s), See Services Engineers Requirements. Mechanical Installations	1	Item		
15.50	Marking the positions of holes, mortices and chases <u>Pipe Casings</u> <u>Pipe casings: comprising of treated sawn softwood framework; 44 x 44mm at 400 centres; 25mm thick medium density fibreboard; moisture resistant; fixed with countersunk wood screws and countersunk pipes to be wrapped in Rockwool Techtube 20 mm thick installed in accordance with manufactures recommendations; all as per Architect's Drawings</u> To blockwork base	1	item		
15.51	Horizontal: 200 x 200 mm wide Box Out (ARM Qualification)	10	m		
15.52	Vertical: 200 x 200 mm wide Box Out (ARM Qualification)	24	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 3 – House Type A

Code	Description	Quantity	Unit	Rate	Total
15	(59) MECHANICAL INSTALLATIONS				(Continued)
	<u>Forming or cutting chases; weathering and making good structure and finishes upon completion; including for all works necessary to complete</u>				
	For pipework in partition walls				
15.53	Not exceeding 25mm bore (ARM Qualification)	5	m		
15.54	Exceeding 25mm bore (ARM Qualification)	12	m		
	<u>Concrete grade C30/37; formwork; trowelled finish</u>				
	Heat Pump Support				
15.55	1000mm x 1000mm x 150mm high	1	nr		
	<u>Woodwork; (ARM Qualification)</u>				
15.56	Timber Grounds including all fixings, notching, bolts and any necessary items to complete the works.				
	HWS Cylinder Support; Floors				
15.57	Sawn white deal, vacuum presure impregnated, stress graded class B				
15.58	Joists 150 x 44 mm.	10	m		
	CWS Cylinder Support; Floors				
15.59	Sawn white deal, vacuum presure impregnated, stress graded class B				
15.60	Joists 150 x 44 mm.	10	m		
	Boiler Support; Wall Mounted				
15.61	Sawn white deal, vacuum presure impregnated, stress graded class B				
15.62	Joists 150 x 44 mm.	6	m		
	Radiator Support; Wall Mounted				
15.63	Sawn white deal, vacuum presure impregnated, stress graded class B				
15.64	Joists 150 x 44 mm.	20	m		
	HMV Unit; Wall Mounted				
15.65	Sawn white deal, vacuum presure impregnated, stress graded class B				
15.66	Joists 150 x 44 mm.	4	m		
	<u>Forming or cutting holes; build in sleeves and/or bridge over with lintols as required; include for all firestopping with intumescent collars to give one hour fire resistance; including for all works necessary to completeweathering and making good structure and finishes upon completion; including for all works necessary to complete; Firestopping in accordance with Architect's Drawings and Specification</u>				
	For pipework through in-situ ground bearing slab				
15.67	55 - 110mm diameter	2	nr		
	For pipework through intermediate floor slabs				
15.68	55 - 110mm diameter	2	nr		
	For pipework through roof structure				
15.69	55 - 110mm diameter	4	nr		
15.70	110 - 200mm diameter	2	nr		
	For pipework through timber floor joists				
15.71	Not exceeding 55mm diameter	7	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 3 – House Type A

Code	Description	Quantity	Unit	Rate	Total
15	(59) MECHANICAL INSTALLATIONS				(Continued)
15.72	For pipework through Concrete Floor Slab Not exceeding 55mm diameter	8	m		
15.73	For pipework through ceiling structure Not exceeding 200mm diameter	5	nr		
	<u>Special Works</u>				
15.74	Building in external ventilation louvres to external walls 150 x 150 mm	2	nr		
15.75	Building in external airbrick termination grilles to external walls 250 x 250mm	2	nr		
15.76	Forming opes in external walls 250 x 250 x 300mm deep	2	nr		
15.77	Forming opes in internal walls 150mm diameter	2	nr		
15.78	Firestopping around flatpack/pipework ducting; through internal walls/floors 150 x 150 mm	3	nr		
15.79	250 x 250mm	2	nr		
15.80	600 x 500mm	2	nr		
	<u>General builders work; grounds; cutting away and making good for the following</u>				
15.81	Additional builders work not outlined above	1	item		
15.82	Any other items or components included in the drawings or specification but not specified in this schedule	1	item		
	<u>PAINTING AND DECORATING: Painting</u>				
	<u>One coat primer, two coats undercoat; one coat alkyd based heat resistant paint, full gloss finish in accordance with services engineers specification</u>				
15.83	Pipes, ducts and the like Not exceeding 32mm bore (ARM Qualification)	10	m		
	<u>One coat primer, two coats undercoat; one coat alkyd based heat resistant paint, full gloss finish in accordance with services engineers specification</u>				
15.84	Pipes, ducts and the like Not exceeding 32mm bore (ARM Qualification)	21	m2		
	<u>Preparing and painting one coat sealer and two coats quick drying water based eggshell paint; as manufactured ; to selected colours; all applied in strict accordance with the manufacturers instructions; all as per Architects Specification</u>				
15.85	Pipe Casings Generally	34	m		
15.86	Other Items Provide for all labour, materials, plant and all items which in the tenderers opinion are not specifically allowed for in this section of the works but which can be reasonably inferred from the works requirements as being necessary for the execution and completion of the works. - (List items below)		item		
	(59) MECHANICAL INSTALLATIONS				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

15	(59) MECHANICAL INSTALLATIONS				(Continued)
	COLLECTION Page 46: Page 47: Page 48: Page 49: Page 50: (59) MECHANICAL INSTALLATIONS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 3 – House Type A

Code	Description	Quantity	Unit	Rate	Total
16	(69) ELECTRICAL INSTALLATIONS				
	(69) ELECTRICAL INSTALLATION				
	<u>Generally</u>				
	<u>INFORMATION</u>				
16.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
16.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
16.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
16.4	For layout, elevations and details refer to Don O Malley Services Engineers Drawings.		note		
16.5	NOTES				
16.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
16.7	Tendering Contractors are to refer to Moloney Fox Drawings and Specification.		note		
16.8	Tendering Contractors are to include for all testing, commissioning, maintenance manuals, training on safe operation etc. all as specified within Moloney Fox performance specification document.		note		
16.9	Tendering Contractors will be required to provide and include for all maintenance during the 12 months after substantial completion; all in accordance with Moloney Fox performance specification document.		note		
16.10	A fully quantified and priced breakdown of the Electrical Installation tender is to be provided by the contractor whos tender is being considered for acceptance. The tenderer under consideration will be expected to provide this information within 7 working days of being requested to do so. Failure to do so may result in the rejection of his tender.		note		
16.11	Element (69) has not been measured in accordance with ARM, Agreed Rules of Measurement (Issue 4). Tendering Contractors are to include hereunder within their rates for any additional costs associated with same.		note		
	<u>ELECTRICAL INSTALLATIONS</u>				
	<u>Electrical Installations</u>				
16.12	Total Contract Value transferred from the Don O' Malley & Partners Electrical Services Installation Tender Document 'Summary of Tender: - House Type A Total Contract Value to Include the breakdown cost on the following items. Preliminaries	1	item		
16.13	General Items 1 Electrical Services Installations	1	item		
16.14	Supply & Installation of Consumer Units	1	item		
16.15	Supply & Installation of Light Fittings	1	item		
16.16	Type A	1	item		
16.17	Type A/D	1	item		
16.18	Type B	1	item		
16.19	Type C	1	item		
16.20	Type D	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
16	(69) ELECTRICAL INSTALLATIONS				(Continued)
16.21	Type E (Emergency LightingTo house C)	1	item		
16.22	Type G	1	item		
16.23	Type H	1	item		
16.24	LightingWiring Installation (including emergency lighting)	1	item		
16.25	General Power sockets & wiring	1	item		
16.26	TV sockets & Wiring	1	item		
16.27	Telephone Sockets & Wiring	1	item		
16.28	Cooker Switches & Wiring	1	item		
16.29	Doorbell Installation & Wiring	1	item		
16.30	Mechanical Plant Wiring (Including Mechanical air source Heat Pump, External Heat pump, Ventilation unit (HRU), C	1	item		
16.31	Immersion Heater wiring	1	item		
16.32	Amount for supply and installation of Intruder/security Alarm system	1	item		
16.33	Earthing and Bonding	1	item		
16.34	Testing & Commissioning	1	item		
	<u>Other Requirements</u>				
16.35	Compliance with all statutory requirements & Engineers requirements for the handover of O&M manuals	1	item		
16.36	Compliance with all statutory requirements & Engineers requirements for the handover of Electrical elements	1	item		
16.37	Provide as Built CAD drawings	1	item		
16.38	Any other items or components in included in the drawings or specification but not specified in this schedule	1	item		
	<u>Include the following in respect of the foregoing</u>				
16.39	All costs and requirements associated with a complete Electrical Installation (such as main contractors general and special attendances, unloading, distributing, lifting, hoisting and placing in position all plant and equipment as scheduled, storage for plant, covered storage for welding and portable machine tools, profit and all additional preliminaries over and above normally provided by sub-contractors themselves and the like) if not included in the above item should be included here	1	item		
	<u>SUNDRIES AND BUILDERS WORK</u>				
16.40	Total Contract Value for builders work transferred from the Electrical Services Installation Tender Document 'Summary of Tender: - House Type A	1	item		
	Other Items				
16.41	Provide for all labour, materials, plant and all items which in the tenderers opinion are not specifically allowed for in this section of the works but which can be reasonably inferred from the works requirements as being necessary for the execution and completion of the works. - (List items below)		item		
	(69) ELECTRICAL INSTALLATIONS				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

16	(69) ELECTRICAL INSTALLATIONS				(Continued)
	COLLECTION Page 52: Page 53: (69) ELECTRICAL INSTALLATIONS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 3 – House Type A

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
17	(73) CULINARY FITTINGS				
	(73) CULINARY FITTINGS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
17.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
17.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
17.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
17.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects Drawings specifically but not limited to.		note		
17.5	NOTES				
17.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>FITTINGS: Fittings, Equipment and Furniture</u>				
	<u>Dimensions of manufactured kitchen to be BS EN 1116. Storage Units: including base, drawers, corners, cupboards, high level wall presses, shelves, worktops etc. Carcass of all units shall be manufactured with 18mm thick MFC coreboard moisture resistant cabinets throughout, all pre-bored and screw fixed. it shall be mounted on adjustable pvc legs. Press Doors to be high pressure laminate facing bonded onto MR MDF core with a balancing bonded melamine veneer to the inside door face finished thickness 20mm as agreed by the architect on 180dia steel "hinges (or equal and approved) self closing. The drawer unit shall be three number Blum metal box drawers with moisture resistant bottom complete with steel runners. 38mm particle board worktop to selected colour, moisture and heat resistant; 600mm deep. Back panel shall be screw fixed and removable from the front to facilitate the installation of plumbing pipes. Include for 75mm high Cornice and 50mm high pelmet. Handles to be brushed stainless steel 150mm long round section. All end units to be finished with side panel to match selected. Include for all aluminium trims at ends and corner joints; all in accordance with the Architects Specification N11 and Drawing number DR-SC-1603</u>				
	Kitchen Units				
17.7	Worktop, L - Shaped straight Base Unit & Overhead Storage Units				
17.8	Overall length; 6130 mm; as per Architects Specification	1	nr		
	<u>Satin Stainless Steel Sink or equivalent inset unit with approved monoblock mixer taps; single drainer; complete. 1 1/2" basket strainer waste (SO226)</u>				
	Stainless Sink Set				
17.9	Overall size 1000mm x 500mm.	1	nr		
	<u>Fire blankets to each kitchen; 1000mm x 1000mm FB 100 including mounting brackets and instructions manuals; all as per Architects Specification</u>				
17.10	Fire Blanket				
17.11	Generally	1	nr		
	<u>MECHANICAL INSTALLATIONS: Generally</u>				
	<u>600mm with Twin motor or equivalent integrated extractor unit with flexi flue pipe connected to wall vent; as per Architects Specification, with removable filters, variable fan settings, min 30 l/s</u>				
	Cooker Hood Extractor				
17.12	Generally	1	nr		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

17 (73) CULINARY FITTINGS (Continued)

17.13	Other Items Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below) (73) CULINARY FITTINGS				
-------	---	--	--	--	--

To Collection



Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 3 – House Type A

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

17 (73) CULINARY FITTINGS

(Continued)

	COLLECTION Page 55: Page 56: (73) CULINARY FITTINGS Carried to Summary:				
--	--	--	--	--	--

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 3 – House Type A

Code	Description	Quantity	Unit	Rate	Total
18	(74) SANITARY FITTINGS				
	(74) SANITARY FITTINGS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
18.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
18.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
18.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
18.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects Drawings		note		
18.5	NOTES				
18.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
18.7	Supply, deliver, install and warrant the works in strict compliance with the materials and workmanship requirements of the Specification		note		
18.8	Where alternative products are offered by the Contractor for acceptance by the Employers representative, provide full supporting documentation in respect of the complete system or installation		note		
18.9	Contractor to include in their rates for installing any necessary grounds for support of any/all sanitary items listed below	1	item		
18.10	Contractor to allow for support of grabrails required by TGD part M (a load of 171kg) applied both vertically and 45 by fixing to either concrete block masonry wall or by secondary structural steel posts within plasterboard partitions fixed from structural floor to structural soffit for architects/engineers approval	1	item		
18.11	All sanitary ware to be white in colour unless otherwise specified, supplied and fixed, including setting aside and re-fixing for other trades including connecting up to waste pipework, providing grounds, plugs, screws, making good finishes disturbed, fixings, fittings, accessories and the like	1	item		
18.12	Seal junction between structure and sanitary fittings and the like with one-part silicone rubber sealant, in selected colour, to form a 6mm triangular joint with fair concave edge, all unit rates below will be deemed to include for same	1	item		
	<u>FITTING, EQUIPMENT AND FURNITURE: Fitting, Equipment and Furniture</u>				
	<u>Supply and fix the following fittings, as specified, fixed in accordance with the manufacturers instructions.. Architects Specifications N13 and Sanitary Ware Schedule</u>				
	<u>WHB - Concept Air Arc 50cm Washbasin Concept Air Arc 55cm washbasin, E1386(01) Contour 21 Thermostatic Sequential Basin Mixer HBN-00-10 HTM64: A4169(AA), 1 taphole with overflow, 1 taphole, with overflow and chain stay hole (Ref E1386(01)), Washbasin Wall Fixings set (Ref E0157(67)), Pedestal Concept Air pedestal (Ref E8976(01)), Waste 1¼" plastic waste with bead chain and plug, 80mm slotted tail, bolt stay (Ref S8800), Trap 1¼" plastic bottle, 75mm seal, multi-purpose outlet (Ref S8910(67)), Sandringham SL 21 basin mixer with pop-up waste and 5 litre per minute eco flow regulator (Ref B3306(AA)).</u>				
	Handrinse Washbasin Set				
18.13	500mm x 400mm; including pedestal	2	nr		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 3 – House Type A

Code	Description	Quantity	Unit	Rate	Total
18	(74) SANITARY FITTINGS				(Continued)
18.14	WC - E8834(01) Sandringham 21 Raised height close coupled WC - horizontal outlet. Armitage Shanks Sandringham 21 close coupled WC pan with horizontal outlet (Ref E8834). Sandringham 21 6/4 litre dual flush bottom supply cistern to achieve 750mm projection with Spatula lever (Ref E8987). Armitage Shanks Sandringham 21 seat and cover (Ref E1316). Armitage Shanks Domex screws (pair) (Ref S9101). All as per sanitary ware schedule and Specifications N13. Close Coupled WC suite WC	2	nr		
18.15	Bath - Sandringham 21 bath 1700 x 700mm standard steel guage steel chrome plated grips, two tap holes, anti-slip ref S1835. Thermostatic bath filler/shower Reef thermostatic bath/shower mixer tap with shower kit included shower head to be plumbed in wall, recommended operating pressure of 1 bar, trap 11/2" plastic P with 75mm seal, multi purpose outlet suitable for plastic and BA copper pipe S8970, bath waste 11/2" combination waste and trap overflow and domed clicker. All as per sanitary ware schedule and Specifications N13. Bath Set 1700 x 700 mm wide. Extra For:	1	nr		
18.16	Forming front bath panel with 18 mm WBP plywood including all grounds, fitting, fixings, seals, etc., include for white front panel	1	nr		
18.17	Forming end bath panel with 18 mm WBP plywood including all grounds, fitting, fixings, seals, etc., include for white end panel	1	nr		
18.18	Shower mixer Shower fittings: Alto Ecotherm Exposed Shower Pack A4741(AA) Alto Ecotherm thermostatic shower mixer with fast fix wall bracket and Idealrain S3 3 function kit. Merlyn Series 6, 90 cm corner door 1900mm high surrounded by a chrome elliptical frame with smooth double sliding doors. Mersfield Stayclear protected 6mm toughened glass and quick release double roller. All as per sanitary ware schedule and Specifications N13. Shower mixer, allow for all fixings	1	nr		
18.19	Bath Screen Bath fixed screen, 6mm clear toughened safety glass, ref 505277270786; include all fixing as per manufacturers instructions 300 x 1400mm high Shower curtain & rail Shower curtain and rail ref AD200200SF fitted in accordance with the manufatcurers instructions	1	nr		
18.20	generally Bathroom Fittings; as per Architects Specification Generally	1	nr		
18.21	Towel Rail	2	nr		
18.22	Soap Holder	2	nr		
18.23	Toilet Roll Holder	2	nr		
18.24	Hand Rail/Grab Bar	2	nr		
18.25	Clothes Hook	2	nr		
	GLAZING: Special Glazing				

To Collection

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

18	(74) SANITARY FITTINGS	(Continued)			
	<u>Mirrors, 4 mm Class C safety glass silvering quality wall mounted mirrors; bevelled edges, tamper proof dome heads</u> Special Glazing 18.26 900 x 700mm Other Items 18.27 Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below) (74) SANITARY FITTINGS		2	nr	
			1	item	

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

18	(74) SANITARY FITTINGS				(Continued)
	COLLECTION Page 58: Page 59: Page 60: (74) SANITARY FITTINGS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 3 – House Type A

Code	Description	Quantity	Unit	Rate	Total
19	(76) STORAGE, SCREENING FITTINGS				
	(76) STORAGE, SCREENING & FITTINGS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
19.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.				
	<u>DRAWINGS</u>				
19.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.				
19.3	For layout, elevations and details refer to Hasset Leyden & Associates Architects Drawings specifically but not limited to.		note		
	<u>NOTES</u>				
19.4	All works to be carried out in accordance with the Project Drawings, Specifications and Preliminary Health & Safety Plan				
19.5	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification.	1	item		
	<u>WOODWORK: Composite Items</u>				
	<u>The Contractor is to include for forming three tiers of prefinished solid wood 19 mm x 44 mm spar shelving, 25mm apart, the full depth of the hotpress/storage press, carried on 19mm x 44mm chamfered cleats secured to walls or on 38mm x 75mm bearers.</u>				
	<u>Shelving to be planed</u>				
	Hotpress shelving				
19.6	960mm wide	3	nr		
	Other Items				
19.7	Provide for all labour, materials, plant and all items which in the tenderers opinion are not specifically allowed for in this section of the works but which can be reasonably inferred from the works requirements as being necessary for the execution and completion of the works. - (List items below)		item		
	(76) STORAGE, SCREENING FITTINGS				

To Collection



Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 3 – House Type A

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

19 (76) STORAGE, SCREENING FITTINGS

(Continued)

COLLECTION

Page 62:

(76) STORAGE, SCREENING FITTINGS
Carried to Summary:

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 3 – House Type A
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
	COLLECTION SUMMARY	PAGE NO			
	(21) EXTERNAL WALLS	1 - 5			
	(22) INTERNAL WALLS, PARTITIONS	7 - 8			
	(23) FLOORS; GALLERIES: STRUCTURE	10 - 11			
	(24,34) STAIRS & STAIRS COMPLETIONS	13 - 14			
	(27) ROOFS	16 - 17			
	(31) EXTERNAL WALLS COMPLETIONS	19 - 21			
	(32) INTERNAL WALLS COMPLETIONS	23 - 24			
	(36) ROOF COMPLETIONS	26			
	(41) WALL FINISHES EXTERNALLY	28 - 29			
	(42) WALL FINISHES INTERNALLY	31 - 32			
	(43) FLOOR FINISHES	34 - 35			
	(45) CEILING FINISHES	37 - 38			
	(47) ROOF FINISHES	40 - 41			
	(52) DRAINAGE AND REFUSE DISPOSAL	43 - 44			
	(59) MECHANICAL INSTALLATIONS	46 - 50			
	(69) ELECTRICAL INSTALLATIONS	52 - 53			
	(73) CULINARY FITTINGS	55 - 56			
	(74) SANITARY FITTINGS	58 - 60			
	(76) STORAGE, SCREENING FITTINGS	62			
	Total Amount:				

BILL NR.4 - HOUSE TYPE B UNIT - 2 BED 2 STOREY

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
1	(21) EXTERNAL WALLS				
	(21) EXTERNAL WALLS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
1.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
1.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
1.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
1.4	For layout, elevations and details refer to Hasset Leyden & Associates Architects Drawings 2701-HLA-ZZ-00-DR-A-0300, 0301) specifically but not limited to.		note		
1.5	NOTES				
1.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>CONCRETE WORK: In-Situ Concrete</u>				
	<u>Unreinforced in-situ concrete Grade 30</u>				
	Filling to back of cills				
1.7	Cross-sectional area < or = 0.10m2	1	m3		
	<u>Formwork</u>				
	Class A formwork to edge of filling to window cill				
1.8	< or = 250mm high; to back cills	10	m		
	<u>Surface finishes</u>				
	Trowelling				
1.9	Trowel smooth surface of unset concrete falls.	10	m		
	<u>Composite Item: Unreinforced in-situ concrete Grade 30</u>				
	<u>Threshold Detail including all concrete, formwork, 2 number courses of 350 mm blockwork, insulation, cast insitu concrete upstand, reinforcement stepped DPC, all as per Architect's Drawings DR-A-1804 - front door threshold detail</u>				
1.10	Composite Item: Unreinforced in-situ concrete Grade 30				
	Cross-sectional area < or = 0.10m2	2	m		
	<u>Threshold Detail including all concrete, formwork, 2 number courses of 350 mm blockwork, insulation, cast insitu concrete upstand, reinforcement stepped DPC, all as per Architect's Drawings DR-A-1805 - rear door threshold detail</u>				
	Composite Item: Unreinforced in-situ concrete Grade 30				
1.11	Cross-sectional area < or = 0.10m2	2	m		
	<u>Composite Item: Bearing Pads</u>				
	<u>Reinforced in-situ concrete: Grade C35/45; vibrated; including reinforcement, fairfaced formwork, floated finish, etc to fully complete the works.</u>				
	Bearing pads to blockwork walls; bearing pads for steel beams; built into new blockwork walls				
1.12	150 x 100 x 100 mm deep;	2	nr		

To Collection

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
1	(21) EXTERNAL WALLS				(Continued)
	CONCRETE WORK: Precast Concrete				
	<u>Precast Concrete: in the following precast units with a smooth finish on all surfaces to standard BS BS5642-1, conformity to BS 8500-2 mortar for bedding/jointing: cement gauged as section Z21: to standard BS EN 206-1.</u>				
	<u>HD Prestressed Lintels: horizontal, weathered, bearing length min 200mm; to standard BS 845-2. Placement: Bed on mortar used for adjacent work. All as per architects specifications F31 and Drawing Nr. DR-E-1403</u>				
	100 x 150mm deep composite lintel				
1.13	700mm long	1	nr		
1.14	900mm long	2	nr		
1.15	1300mm long	2	nr		
1.16	1400mm long	4	nr		
1.17	1800mm long	4	nr		
1.18	2800mm long	2	nr		
	<u>Precast Concrete: Precast concrete window cills shall be of approved manufacture to the dimensions shown on the drawings and complying with IS 89-1:1981 in respect of materials and workmanship</u>				
	Cills				
1.19	900mm long	1	nr		
1.20	1300mm long	1	nr		
1.21	1800mm long	2	nr		
1.22	2800mm long	2	nr		
	BRICKWORK AND BLOCKWORK: Blockwork				
	<u>Solid concrete blocks, nominal size 440 x 215 mm, minimum compressive strength 10N/mm² to IS EN 771-3, mortar as section Z21 to standard BS EN 998-2, 1:1/2:4-4 1/2 cement:lime:sand. As per architects specifications F10</u>				
	Walls				
1.23	100 mm thick	215	m ²		
1.24	Extra over for 1 course thermalite block at floor level, 225 mm high; As per Architects drawings	21	m		
1.25	Extra over for 1 course thermalite block at eaves level, 225 mm high; As per Architects drawings	21	m		
	Labours				
1.26	On blockwork	1	item		
	BRICKWORK AND BLOCKWORK: Brickwork				
	<u>Brick Slips: Brick slips to BS 4729, to match adjacent clay facing brickwork, refer to section F10/05, F10/06: Include for adhesive fixing to blockwork: Fix brick slips using proprietary SBR - modified mortar mixed in accordance with manufacturer's recommendations. SBR Mortar to meet the requirements of the appropriate parts of BS 4551. Ensure substrate to receive the slips is clean, dry and free from dust, mould and oil. Permissible bed thickness in accordance with manufacturer's recommendations. Manufacturer's instructions and advice should be strictly followed. Refer to section F10 and Z20 for further information.</u>				
	Brick Slips				
1.27	less than 100mm thick	2	m ²		

To Collection

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
1	(21) EXTERNAL WALLS				(Continued)
1.28	Extra over for Trim to EXT D2 <u>BRICKWORK AND BLOCKWORK: Ancillaries to Blockwork/Brickwork</u> <u>Bed joint reinforcement -brickforce (brc) stainless steel bed joint reinforcement to b.s 5628 part 2. 3.58mm diameter main wires (fy = 460n/sq.mm) 2.50mm welded cross wires at 304mm ccs. Min. Lap 250mm staggered in alternate courses width 40mm less than nominal masonry width</u>	3	m		
1.29	Walls 100 mm wide <u>Form 150 mm wide cavity between block/brick leaves with 110 mm proprietary PIR Partial Fill insulation. CE Marked and approved. DOP required. Class F fire rating. product to be certified by the British Board of Agreement.wall insulation slab with foil facings to both sides to achieve a thermal conductivity for external wall of 0.022 W/m.K. fix in 150 mm cavity with stainless steel wall ties to BS EN 845-1 with an integral device for holding the insulation in position, keep cavity clear of mortar droppings.allow for additional ties at 225mm centres at wall opes, movement joints, corners and canopy/balcony locations; All as per Structural Engineers and Architect's Specification Section F30</u>	88	m		
1.30	Forming Cavities 150 mm wide <u>Closing Cavities</u> <u>Closing cavities at blockwork wall opes to reduce thermal bridging using insulated proprietary cavity closer system: full width of cavity during external leaf course work construction: must comply with BS 476-20:1987; installation as per manufacturers' instructions; cavity closer system to meet part B & L of Irish Building regulations. Manufacturers certified data to confirm minimum R-value of 4.30m2K/W. Supply and fit proprietary cavity closer to close 150mm wide cavity at any Eaves / raking verge . Closing of cavity to comply with Diagram 17 of TGD Part B. Refer to section F301/10 of specifications and architect's drawings DR-A-1801, 1802, 1803 & 1807 for details.</u>	108	m2		
1.31	Proprietary insulated cavity closer set at jambs; screw fixed 150 mm wide.	26	m		
1.32	Close top of cavity with 50mm thick proprietary insulated cavity closer 150 mm wide.	21	m		
1.33	Close cavity at head of opening with 50mm thick proprietary insulated cavity closer 150 mm wide.	14	m		
1.34	Close top of sloping cavity 150 mm wide. <u>Damp Proof Courses</u>	20	m		
1.35	Damp proof course; B.S 743; 1970; 150mm laps; no allowance in measurements for laps. Vertical set at jambs; <300mm wide.	13	m		
1.36	Bituthene 4000 or equivalent Damp proof course; B.S 743; 1970; Hyload DPC or equivalent; 150mm laps; and seal in accordance with manufacturer's recommendations to form a gas and watertight joint. Ensure that dpc/ cavity tray overlaps damp proof membrane by not less than 150 mm.no allowance in measurements for laps. Horizontal under and at back of cill; 700 girth. Cavity trays; fitted as per manufacturers instructions.	14	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
1	(21) EXTERNAL WALLS				(Continued)
1.37	Horizontal above lintel; 700 girth. <u>Designed Joints</u> Movement joints; Polythene foam filler 85mm / 200mm wide and pointing with polysulphide sealant 15mm dep one side. To BS EN 140-3: 1995 and BS EN ISO 717-1:1997. Sealant to be installed in accordance with the manufacturer's recommendations. Sealant colour to architect's later approval to match brickwork. Form 10mm wide vertical movement joint in 100mm/ 215mm block wall; Include for wall ties at 225mm vertical centres at either side of joint.. All as Architects specification section F30 and Prepare joints and apply sealant as section Z22	14	m		
1.38	10 mm wide; 100 mm deep; vertical <u>Sundries</u> Leave ope in 100mm thick outer leaf of cavity wall for ESB meter box	19	m		
1.39	490 x 690mm high. Leave ope in 100mm thick outer leaf of cavity wall for telecom box: include precast concrete lintels	1	nr		
1.40	155 x 230mm high. Form or leave opening in cavity wall for services metering including lintels and associated items, refer to Architects drawing for details	1	nr		
1.41	409 x 595 Extra for:	1	nr		
1.42	Meter cabinets	1	nr		
1.43	Telecom Cabinet <u>Barriers</u> Cavity Fire barrier to have a 60 minute fire integrity/insulation, including 400mm wide strip of 2000g polythene damp proof course, fixed vertically at cavity junctions, All as Architects specification section F30 and indicated on drawing nr. DR-A1102 & 1105	1	nr		
1.44	150mm thick, set vertically in cavity at party wall	11	m		
1.45	150mm thick, set horizontally in cavity at eaves level	13	m		
1.46	150mm thick, set sloping in cavity at party wall <u>Ventilating Ducts</u>	10	m		
1.47	Form or leave opening in 350 mm cavity wall, manufacture to national approved manufacturer. Install across cavity, sloping away from inner leaf, bedding fully in mortar to seal cavity, all as Architects Masonry Specification and Building Regulations Part F. See Architects Spec F30/06. <u>Airtight Detail</u> Airtightness, taping around door and window opes, sealed, accordance with the manufacturers instructions, to achieve airtightness	6	nr		
1.48	Reveals and Heads Airtightness, taping at junctions of walls to floors, sealed, accordance with the manufacturers instructions, to achieve airtightness of	39	m		
1.49	Floor junction abutting external wall/internal walls	53	m		
1.50	Floor junction abutting party wall.	9	m		
1.51	Junction at eaves.	13	m		
1.52	Junction at gables	10	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
1	(21) EXTERNAL WALLS				(Continued)
1.53	<u>STEELWORK: Structural</u> <u>Refer to Engineers Drawings DR-E-1403 Allow for co-ordinating the erection of the steelwork in association with the other Sub-Contractor.</u> <u>Galvanised Steel Beam: including for Galvanising, shot blasting etc to Engineers Specification</u> Steel Lintols 152 x 89 x 16kg/m (2nr) <u>PAINTING AND DECORATING: Painting</u> <u>Pre-Fabrication: Shot blast to Swedish Standard Sa 2 1/2 BS 4232; all as per Engineer's structural steel specification</u> Protective coatings; off site	0.10	tonne		
1.54	General steelwork surfaces <u>Steelwork shall be hot dip galvanised in accordance with the requirements of BS 729 (minimum 85 microns D.F.T.) Where galvanized steelwork is affected by white corrosion products they should be removed with a stiff brush. Immediately after galvanizing all steelwork should be treated with an etch primer</u> Protective Coatings: off site	0.10	tonne		
1.55	General surfaces <u>Nullifire S-620 High Build Zinc phosphate or equivalent intumescent paint; to provide one hour fire resistance in accordance with BS 476-21; applied in strict accordance with the manufacturer's instructions; all as per Architect's Specification</u>	0.10	tonne		
1.56	Structural surfaces				
1.57	General surfaces; not exceeding 300mm girth	3.70	m2		
1.58	Other Items Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below) (21) EXTERNAL WALLS	1	item		
To Collection					

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 4 – House Type B
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

1	(21) EXTERNAL WALLS				(Continued)
	COLLECTION Page 1: Page 2: Page 3: Page 4: Page 5: (21) EXTERNAL WALLS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
2	(22) INTERNAL WALLS, PARTITIONS				
	(22) INTERNAL WALLS, PARTITIONS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
2.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
2.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
2.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
2.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects & Engineers Drawings		note		
2.5	NOTES				
2.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	CONCRETE WORK: Precast Concrete				
	<u>Precast Concrete: HD Prestressed PC Lintel BS BS5642-1, conformity to BS 8500-2 mortar for bedding/jointing: cement gauged as section Z21: to standard BS EN 998-2. Aggregates used shall be free from pyrite or other impurity Bed on mortar used for adjacent work with bearing of not less than 150 mm unless specified otherwise. Refer to Engineer's specification and details.</u>				
	100 x 70mm Lintels				
2.7	1250mm wide	3	nr		
2.8	1800mm wide	1	nr		
	<u>BRICKWORK AND BLOCKWORK: Brickwork/Blockwork</u>				
	<u>Solid concrete blocks, nominal size 440 x 215 mm, minimum compressive strength 10N/mm2 to IS EN 771-3, mortar as section Z21 to standard BS EN 998-2, 1:1/2:4-4 1/2 cement:lime:sand. As per architects specifications F10</u>				
	Walls				
2.9	100 mm thick.	31	m2		
	Party Wall				
2.10	100 mm thick.	54	m2		
	<u>BRICKWORK AND BLOCKWORK: Ancillaries to Brickwork/ Blockwork</u>				
	<u>Form 150 mm wide cavity between block/brick leaves with 110 mm proprietary PIR Partial Fill insulation, CE Marked and approved, DOP required, Class F fire rating, product to be certified by the British Board of Agreement, wall insulation slab with foil facings to both sides to achieve a thermal conductivity for external wall of 0.022 W/m.K, fix in 150 mm cavity with stainless steel wall ties to BS EN 845-1 with an integral device for holding the insulation in position, keep cavity clear of mortar droppings, allow for additional ties at 225mm centres at wall opes, movement joints, corners and canopy/balcony locations; All as per Structural Engineers and Architect's Specification Section F30</u>				
	Forming Cavities				
2.11	150 mm wide	54	m2		
	<u>Closing Cavities</u>				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
2	(22) INTERNAL WALLS, PARTITIONS				(Continued)
2.12	Closing cavities at blockwork wall opes to reduce thermal bridging using insulated proprietary cavity closer system: full width of cavity during external leaf course work construction; must comply with BS 476-20:1987: installation as per manufacturers' instructions; cavity closer system to meet part B & L of Irish Building regulations. Manufacturers certified data to confirm minimum R-value of 4.30m2K/W. Supply and fit proprietary cavity closer to close 150mm wide cavity at any Eaves / raking verge. Closing of cavity to comply with Diagram 17 of TGD Part B. Refer to section F301/10 of specifications and architect's drawings DR-A-1801, 1802, 1803 & 1807 for details. Close top of sloping cavity 150 mm wide. <u>Damp proof course: BS 743; bitumen felt</u> Damp proof course; B.S 743; 1970; : Bitumen hession based damp proof course to BS 6398 or I.S. 57. No allowance in measurements for laps.	10	m		
2.13	100 mm wide under blockwork. <u>Barriers</u> Cavity Fire barrier to have a 60 minute fire integrity/insulation, including 400mm wide strip of 2000g polythene damp proof course, fixed vertically at cavity junctions, All as Architects specification section F30 and indicated on drawing nr. DR-A1102 & 1105	24	m		
2.14	150mm thick, set sloping in cavity at party wall <u>FLOOR, WALL AND CEILING FINISHES: Stud Partitions</u> <u>Metal Stud Partitions comprising of stud at 600 mm centres.100mm acoustic mineral wool insulation between studs (or similar). studs faced both sides with one layer of 12.5 mm fireline plasterboard, with a skim finish each side. Seal between air barrier to be included where stud partitions meets blockwork external walls; All as Architect Specification K10</u>	10	m		
2.15	Partitions; firerated				
2.16	2640 mm high FF	17	m		
2.17	Extra over for forming 950 x 2100mm high opes	3	nr		
2.18	Extra over for forming 1500 x 2100mm high opes	1	nr		
2.19	Extra over for abutments to other work	5	nr		
2.20	Three Way Intersections.	1	nr		
2.21	Angles / corners	5	nr		
2.22	Extra over for moisture resistant plasterbaord	11	m2		
2.23	Other Items Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below) (22) INTERNAL WALLS, PARTITIONS	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 4 – House Type B
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

2	(22) INTERNAL WALLS, PARTITIONS				(Continued)
	COLLECTION Page 7: Page 8: (22) INTERNAL WALLS, PARTITIONS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
3	(23) FLOORS; GALLERIES: STRUCTURE				
	(23) FLOORS; GALLERIES: STRUCTURE				
	<u>Generally</u>				
	<u>INFORMATION</u>				
3.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
3.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
3.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
3.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects & Engineers Drawings		note		
3.5	NOTES				
3.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
3.7	Contractor designed Easi Joist System in accordance with requirements set out on the Structural Engineers Drawings and the Specification. The information included in the Engineers Tender Documents is background information only and needs to be supplemented by the Contractor to facilitate the full design and construction of the Floor Joists by the contractors specialist. Allow in this item for providing the additional items required by specialist subcontractor to complete the installation of the structural floor including any special fixings, timbers etc they may require	1	Item		
	<u>WOODWORK: Structural & First Fixings</u>				
	<u>Composite Item: Engineered open web joists system, providing the required loads set out in the Structural Engineers Drawings all as per Structural Engineers specification, include for all associated clips, nail plate, end restraint, drive screw, hangers, grounds, noggings, packing piece, bridging members etc for the complete installation</u>				
	Carcassing; floors				
3.8	J1,J2 & J3 - 219mm deep engineered timber easi joists. Fixed on proprietary joist hangers at 400 mm centres (35.79kg)	100	m		
3.9	J4 219mm deep engineered timber easi joists. Fixed on proprietary joist hangers at 400 mm centres, (23.2kg)	34	m		
	<u>Softwood; sawn unless otherwise stated; double vacuum treatment in accordance with Clause 6.2.2 of I.S. 63; stress graded to Class C16</u>				
3.10	Carcassing; floors				
3.11	220 x 75mm joists; trimmers	12	m		
3.12	220 x 75mm joists; trimmers	15	m		
3.13	100 x 44mm strongback; noggings	22	m		
3.14	47 x97mm noggings	29	m		
3.15	44 x 225mm binder	6	m		
	<u>WOODWORK: Ironmongery, Accessories & Sundries</u>				
	<u>Metal and other work associated with woodwork in galvanised mild steel</u>				
	Joist hangers "Bat OPH Type R" or equivalent; galvanised mild steel gauge 12 to BS EN 10142				
3.16	For 225mm ecosjoists; fixed to blockwork in accordance with manufacturer's instructions	39	nr		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 4 – House Type B

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
3	(23) FLOORS; GALLERIES: STRUCTURE				(Continued)
3.17	For 225mm ecosjoists; fixed to softwood joist in accordance with manufacturer's instructions	39	nr		
3.18	L Straps "Bat" or equivalent; steel floor restraint straps; to be shot fixed to wall parallel with joists 1200 x 30 x 5mm; <u>WOODWORK: Boarding and Second Fixings</u> <u>T & G smartply OSB floor boards, to BS 1297:1987; 125mm x 22mm thick with tongued and grooved edges; Irish Agreement Board certified; surface of the board to be Class 3 as defined in BS 476: Part 7: 1997 for surface spread of flame; water vapour resistance factor to EN 12524 and EN 13986 test methods; fixed with 50mm oval flooring brads; two per board. Moisture content 9-13%</u> Floors	21	nr		
3.19	22mm thick; over 300mm wide	41	m2		
3.20	Extra over for; 18mm thick t & g plywood to be bonded to waterproof adhesive to bathrooms Labours	4	m2		
3.21	Cut and make good around obstruction not exceeding 300 mm girth	5	nr		
3.22	Ditto 0.30 - 1.00 m girth	5	nr		
3.23	Other Items Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below) (23) FLOORS; GALLERIES: STRUCTURE				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 4 – House Type B
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

3	(23) FLOORS; GALLERIES: STRUCTURE				(Continued)
	COLLECTION Page 10: Page 11: (23) FLOORS; GALLERIES: STRUCTURE Carried to Summary:				

Project: Donohill, Tipp

Details: BQ 4 – House Type B

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
4	(24,34) STAIRS & STAIRS COMPLETIONS				
	(24,34) STAIRS & STAIRS COMPLETIONS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
4.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
4.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
4.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
4.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects & Engineers Drawings		note		
	<u>WOODWORK: Composite Construction</u>				
	<u>Staircase comprising White Deal Timber staircase, 850 mm wide; 14nr steps, riser 194mm: going 225mm: generally straight flight consisting of 14 nr steps . 300 x 25 mm thick (finished) treads with bullnosed ends, 203 x 25 riser, 284 x 50 mm string closer, softwood wedges, 50 x 50 x 75 mm glued blocking pieces, 12 mm quadrant slip, 25 x 25 mm cover moulds, 50 x 65 mm diameter timber profiled handrail on top of balustrade formed with 38 x 38 square spindles at 125 mm centers (3800 mm long raking & 3800 m long horizontal section at top of landing), 3 nr 200 x 100 mm square timber post with timber cap and ball, including all labours, fittings and fixings.</u>				
4.5	Staircase and Balustrade				
4.6	2750mm floor to floor height	1	nr		
	<u>FLOOR, WALL AND CEILING FINISHINGS: Board finishes</u>				
	<u>15mm thick Plasterboard Type F: 30 minute fire rated foil-backed plasterboard slabs fixed to timber joists, having the joints filled with gyplite joint filler in conjunction with gyplite tape and finished with gyplite joint finish, screw fixed; refer to Architects Specification; all in accordance with manufacturers instructions.</u>				
	<u>Ceilings</u>				
4.7	Over 300mm wide; raking back of stairs	4	m2		
	Extra over for:				
4.8	75 x 44 framing @ 400mm c/c stairs soffit	14	m		
	<u>PAINTING AND DECORATING: Painting</u>				
	<u>Prepare and apply all preparation works, apply one undercoat of Quick Dry Primer, and two finishing coats of Twater based paint for interior wood . satin finish, pure brilliant white, per Architects Specification on the following wood surfaces: all as Architects Specification M60</u>				
	<u>Balustrades on stairs</u>				
4.9	1120 mm high balustrade.	17	m2		
	<u>Stairs</u>				
4.10	Risers 200 mm High;	12	m		
4.11	Going; 200mm wide	12	m		
4.12	Stringer 235 mm high;	4	m		
4.13	Newell post and capping	2	nr		

To Collection

Code	Description	Quantity	Unit	Rate	Total
4	(24,34) STAIRS & STAIRS COMPLETIONS				(Continued)
	<u>Prepare and apply all preparation works, sand, clean down and apply two coats of polyurethane varnish to handrail, per Architects Specification on the following wood surfaces:</u>				
	Handrail				
4.14	Not exceeding 150mm girth; raking	4	m		
	<u>Prepare and apply one initial coat: 22 microns, and two finishing coats of emulsion paint; all as per Architects Drawings and Specification section M60</u>				
	Ceilings; back of staircase				
4.15	Exceeding 300mm wide	4	m2		
	Other Items				
4.16	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(24,34) STAIRS & STAIRS COMPLETIONS				

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 4 – House Type B
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

4	(24,34) STAIRS & STAIRS COMPLETIONS				(Continued)
	COLLECTION Page 13: Page 14: (24,34) STAIRS & STAIRS COMPLETIONS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
5	(27) ROOFS				
	(27) ROOFS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
5.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
5.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
5.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
5.4	For layout, elevations and details refer to Hassett Leyden & Associates Architect & Engineers Drawings		note		
5.5	NOTES				
5.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
5.7	Contractor designed Trussed Roof in accordance with requirements set out on the Structural Engineers Drawings and the Specification, The information included in the Engineers Tender Documents is background information only and needs to be supplemented by the Contractor to facilitate the full design and construction of the Trussed Roof by the contractor specialist subcontractor. Allow in this item for providing the additional items required by the specialist subcontractor to complete the roof works including any special fixings, timbers etc. they may require	1	item		
5.8	Contractor to include for any overhang's to joists as per Architects details and manufacturer requirements including any on site alterations/trimming back as necessary	1	item		
	<u>WOODWORK: Structural & First Fixings</u>				
	<u>Pre-fabricated</u>				
	<u>Pre-Fabricated Trussed rafters, roof trusses and the like; Refer to Engineers Drawings DR-E-1405 for details</u>				
5.9	Roof truss design, materials and workmanship shall conform to B.S 5268 Part 2 or I.S 444; the trussed rafter design and construction shall conform to IS193;				
5.10	Truss, profile as Structural Engineers Detailed Drawings (Roof Plans) and associated notes & Specification, fixed at 600 mm centers, roof pitch as indicated; hoisting and fixing at approx 5.00m above ground floor level. Trusses to be designed, fabricated and erected in accordance with EN 1995;				
5.11	Truss Type T1; 8425mm clear span; 1 ply	14	nr		
	<u>Pitched Roof; is to be designed to conform with the geometry indicated on the architects and engineers drawings. The roof shall consist generally of trussed rafters at 600mm max centres with the addition of site infilltimbers, as appropriate</u>				
	Water tank supports; C16				
5.12	100 x 44 mm spreader beam.	16	m		
5.13	150 x 75 mm secondary bearer.	12	m		
5.14	100 x 44 mm primary bearer.	12	m		
5.15	1500 mm wide x 750 mm high Tank Truss Frame; Forming Tank truss frame as shown on Engineers drawings, including all associated timbers, splices, fixings, fittings, truss shoes..	1	nr		
	Carcassing; C16				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
5	(27) ROOFS				(Continued)
5.16	225x44mm; purlins	12	m		
5.17	225x44mm; binders	27	m		
5.18	100 x 25mm; truss ties	69	m		
5.19	97 x 22mm; longitudinal ties	83	m		
	<u>Wall plate: 100 x 75mm pressure impregnated treated timber. Strapped to inner leaf with galvanised 3x50mm bat straps @1200mm c/c - 800mm long</u>				
	Wall Plate; 100 x 75mm pressure impregnated treated timber.				
5.20	100 x 75mm	13	m		
	<u>19mm thick WBP plywood; laid on timber joists</u>				
	Boarding & Sheeting				
5.21	>300mm wide, attic storage area.	16	m2		
5.22	> 300mm wide: soffit	23	m		
5.23	< 300mm fascia	23	m		
	<u>WOODWORK: Ironmongery, Accessories and Sundries</u>				
	<u>Insulation Materials: 400mm mineral wool, 2 layers(200 + 200mm) cross laid. Isover Spacesaver roll or similar; thermal conductivity 0.044W/mK</u>				
	Thermal				
5.24	400 mm thick mineral wool insulation as per Architects Specification	43	m2		
	Insulation to water tank				
5.25	150 mm thick pvc wrapped fibreglass quilt around and over tank	4	m2		
	<u>Accessories</u>				
5.26	Galvanised steel L straps 5 x 30 x 1200mm long, screwed to wall plate and fixed to block wall with HPS nylon plug anchors.	22	nr		
5.27	Ditto 5 x 30 x 1600mm long screwed to 3 No trusses and fixed to block wall ditto.	22	nr		
5.28	Ditto 5 x 30 x 1000mm long, screwed to timber trusses and noggings.	10	nr		
5.29	Galvanised steel truss fixing clip "Bat" or equal approved, fixed to plate and truss in accordance with manufacturers instructions.	23	nr		
	Other Items				
5.30	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(27) ROOFS				

To Collection



Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

5 (27) ROOFS

(Continued)

COLLECTION

Page 16:

Page 17:

(27) ROOFS

Carried to Summary:

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 4 – House Type B

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
6	(31) EXTERNAL WALLS COMPLETIONS				
	(31) EXTERNAL WALLS COMPLETIONS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
6.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
6.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
6.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
6.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects Drawings		note		
6.5	NOTES				
6.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
6.7	This element has been measured from the relevant Architects Drawings together with the Engineers Drawings		note		
6.8	Dimensions provided are indicative, all dimensions should be measured on-site and agreed with the Architect/Employers Representative, before manufacturing begins		note		
6.9	The window system must have the following test certificates available for inspection, air filtration, water penetration, wind resistance, weather tightness. The test procedures are based on British standards, but may be altered prior to testing to meet European standards and procedures		note		
6.10	Where Permavents are outlined, these are to comply with Architects Specifications and achieve a minimum Air tightness as specified		note		
6.11	Tipperary County Council will require that the supplier of the windows demonstrates the elemental U-value of each window shown on the window and door schedule and that their window meets or exceeds the minimum requirement of Technical Guidance Document L. The U-Value calculation will not consider the window in isolation, but will include the BER rated foam to seal gaps in the opening		note		
6.12	The windows and their openings will be made airtight. The Contractor must submit Window and door independent Accredited Approval from the Manufacturer as highlighted on Drawing DR-SC-1601		note		
	<u>WOODWORK: Structural and First Fixings</u>				
	<u>Softwood to B.S. 1186: Red Deal; Class CSH Architects Specification Z10; wrought; moisture content at time of fixing not exceeding 13%; fixed to blockwork on and including softwood bearers or packers as necessary; plugged, screwed and pelleted at 600mm centres; routed to prevent warping; all as per Architects detailed drawings</u>				
6.13	First Fixings				
6.14	34 x 44mm; cut	22	m		
	<u>WOODWORK: Boarding and Second Fixings</u>				
	<u>MDF Windowboard; wrought; selected to BS 1186-3: bullnosed edging; Fix to softwood grounds with lost head nails at 600 mm centres. Prepared and primed as section M60. As per architects specification P20/200</u>				
	Window boards				
6.15	200 x 30 mm thick	11	m		
	<u>METALWORK: Non-Structural</u>				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
6	(31) EXTERNAL WALLS COMPLETIONS				(Continued)
	<u>Composite Items</u>				
	<u>PVC-U Windows: triple glazed tilt and turn windows, to provide an maximum U -Value of 1.2 W/m2K. CE marked and resistance tested to BS EN 14351-1 and BS 7412: Ironmongery to be included, Espagnolette lock, Restrictor Trickle ventilator Locking handle, Espagnolette lock Fire egress: Manufacturer's standard restrictors to be removable and opening section designed in accordance with TGD Part B of Building regs; all in accordance with the Architects Drawing Nr 2701-HLA-ZZ-00-DR-SC-1601 specification Section L10.</u>				
	Windows				
6.16	W01; 2345mm wide x 1950mm high,	1	nr		
6.17	Extra Over; Window Restrictors	1	nr		
6.18	W02; 2345mm wide x 1100mm high,	1	nr		
6.19	Extra Over; Window Restrictors	1	nr		
6.20	W03; 1445mm wide x 1430mm high	2	nr		
6.21	Extra Over; Window Restrictors	2	nr		
6.22	W04; 545mm wide x 1150mm high,	1	nr		
6.23	Extra Over; Window Restrictors	1	nr		
6.24	W04; 945mm wide x 1430mm high,	1	nr		
6.25	Extra Over; Window Restrictors	1	nr		
	<u>Composite Items</u>				
	<u>GRP External door with triple glazing: Minimum 70mm thick engineered door leaf. Complete with high quality ironmongery to BS EN 942. Munster joinery ultratech or equivalent.FD30 Fire Rated. 3 point lock heavy duty handles. Min U-Value 1.1W/m2K. Doors to come complete with level access threshold, 5 point locking system with internal thumb or other easily opeable mechanism. Color to be selected. L20/270 in accordance with drawing NR 2701-HLA-ZZ-00-DR-SC-1601 & Specification Section L10.</u>				
	-				
	Glazed Single Door				
6.26	1015mm wide x 2100mm high, including level threshold	1	nr		
	<u>GRP External door with triple glazing: Rear Door. Multi chamber foam insulated uPVC Single Door certified to BS EN 12608. 90mm profile system, extruded from a high impact strength modified PVC compound. Single door, U value 1.2w/m²k.Glazing: triple glazed, argon filled units. Clear glass, All glazing to be toughened, Door to be internally beaded with triple glazed units. Units to be 90% Argon gas filled with warm edge space bar and have a light transmission of 80% or more. Glass thickness to comply with BS6262. Safety glass to critical areas to meet the requirements of BS6180, BS6399 and part K & D of the building regulations. All glazing units to be certified to BS EN 1279 part 2 and 3. Exposure Category: 1200Pa to BS6375 Part 1 Security: PAS24:2016 Operation and Strength: BS6375-2:2009 Threshold: low level threshold Finish:RAL to match window, include for heavy duty lift off hinges 5 point multi locking system, EPDM weatherseal. Colour to be selected. L10/20, refer to Architects Drawings 2798-HLA-ZZ-00-DR-SC-1601</u>				
	Glazed single door and frame				
6.27	overall size 1015mm wide x 2100mm	1	nr		
	<u>WOODWORK: Ironmongery, Accessories and Sundries</u>				
	<u>Supply and fit the following ironmongery in accordance with Architects Specification</u>				
	Door Number				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
6	(31) EXTERNAL WALLS COMPLETIONS				(Continued)
6.28	89mm high polished chrome face fixing numerals fixed in accordance with manufactures instructions, to Architects approval, refer to HLA Schedule of Items document	1	nr		
6.29	Night Latch to front door as specified	1	nr		
	<u>Wall mounted stainless steel letterbox fixed to blockwork/brickwork wall, refer to Architects Specification and HLA Schedule of Items document</u>				
	Letterbox				
6.30	318mm high x 360mm wide x 115mm deep	1	nr		
	<u>PAINTING AND DECORATING: Painting</u>				
	<u>Second Fixings</u>				
	Prepare and apply one coat of aluminium type 2 wood primer, one undercoat and two finishing coats to Architects approval				
6.31	Windowboards; not exceeding 300mm girth	22	m		
	Other Items				
6.32	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(31) EXTERNAL WALLS COMPLETIONS				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 4 – House Type B
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

6	(31) EXTERNAL WALLS COMPLETIONS				(Continued)
	COLLECTION Page 19: Page 20: Page 21: (31) EXTERNAL WALLS COMPLETIONS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
7	(32) INTERNAL WALLS COMPLETIONS				
	(32) INTERNAL WALLS COMPLETIONS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
7.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
7.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
7.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
7.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects Drawings.		note		
7.5	NOTES				
7.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>WOODWORK: Boarding and Second Fixings</u>				
	<u>Second Fixings</u>				
	Architrave; White deal with bullnosed leading edges; Refer to Architects Specification L20 Drawing 2798 HLA ZZ 00 DR SC 1602				
7.7	75 x 25mm; bullnosed edge	85	m		
	Door Saddles; Hardwood				
7.8	Door saddles.	9	m		
	<u>WOODWORK: Composite Items</u>				
7.9	Refer to Architects Door and Ironmongery Schedule for Door Tyes and Architects Specification Section L20				
7.10	Refer to the construction details, for sizes and profiles of members, construction of door leafs and frames, glazing specification, vision panels and the like				
7.11	The unit rates are to allow for door leaves, frame jambs and head, 44 x 15mm door stop, mullions, transomes, fanlights, glazing beads, glazing, fixing to blockwork and sealing in accordance with the Specification and Drawings. All doors to include for a flexible vinyl seal rebated into the door frame to achieve a sound reduction value of 30dB unless otherwise stated				
7.12	Seal junction of FD30S/FD60s frame and structure with intumescent pointing in selected colour to form a 3 x 10mm sealed joint with fair concave edge				
7.13	Door widths to habitable rooms to be accordance with TGD Part M (latest edition) primarily 800mm clear width				
	<u>Doors with associated frames</u>				
	<u>44mm European red wood veneered shaker style pre finished doors as agreed with the architect. Doors shall include for 115 x 50mm rebated door frame to class J30 as specified in BS EN 942.</u>				
	Fire Rated Single doors and associated frame set - FD30				
7.14	Single door set to suit structural ope size 950 x 2100 mm high (D01)	6	nr		
7.15	Double door set to suit structural ope size 1500 x 2100 mm high (D02)	1	nr		
	Single doors and associated frame set; non fire rated				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
7	(32) INTERNAL WALLS COMPLETIONS				(Continued)
7.16	Double door set to suit structural ope size 1500 x 2100 mm (max) high, raking door head to suit profile of stairs (D03) <u>WOODWORK: Ironmongery, Accessories and Sundries</u> <u>Supply and fit the following ironmongery in accordance with Architects Specification</u> Ironmongery Set, Satin finished stainless steel; fixed to fire rated timber doors, comprising:	1	nr		
7.17	ZHS43CP Ball Bearing Hinges Steel 102 x 76 x 3mm to EN1935 as per Architects Specification.	30	nr		
7.18	Lock; 64mm long; 5 lever sash lock; c/W PVD Forend and strike	6	nr		
7.19	Bathroom lock to EN12209. Turn and Release on round nose	2	nr		
7.20	Lever Handle (as a pair).	8	nr		
7.21	Floor fixed doorstep.	8	nr		
7.22	Overhead cam action door closer	8	nr		
7.23	Interdens Bases Intumescent KCC lock protector	8	nr		
7.24	Intumescent hinge plate protector	8	nr		
7.25	Intumescent Pack	8	nr		
	<u>PAINTING & DECORATING: Painting</u> <u>Prepare and apply one coat of Primer-Undercoat., two undercoat of acrylic Gloss (White), or equivalent, on the following wood surfaces:</u> Doorsets				
7.26	Exceeding 300 mm wide	37	m2		
	Architraves and saddle boards				
7.27	Not exceeding 300 mm wide	0	m		
	<u>Prepare and apply one coat of Primer-Undercoat., two undercoat of acrylic Gloss (White), or equivalent, on the following wood surfaces:</u> General Surfaces				
7.28	Frames; not exceeding 300 mm wide	85	m		
	Other Items				
7.29	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(32) INTERNAL WALLS COMPLETIONS				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 4 – House Type B
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

7	(32) INTERNAL WALLS COMPLETIONS				(Continued)
	COLLECTION Page 23: Page 24: (32) INTERNAL WALLS COMPLETIONS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
8	(36) ROOF COMPLETIONS				
	(36) ROOF COMPLETIONS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
8.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
8.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
8.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
8.4	For layout, elevations and details refer to Hasset and Leyden & Associates Architects Drawings		note		
8.5	NOTES				
8.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>WOODWORK; Composte Item</u>				
	<u>Attic Hatch</u>				
	<u>Proprietary attic access hatch; Model No. 1000 BF/PL, or equivalent and approved. Frame is exposed incorporating a simulated dry wall edge; panels are powder coat finish all over ; airtight sealing system to match U-Value of ceiling system; all in accordance with Architects Specification Section L20 630</u>				
	Access Hatch, airtight to suit ope size				
8.7	600 x 600mm wide	1	nr		
	Roof Canopy				
	<u>Composite Item; GRP Flat Roof Canopy over entrance door complete including 40 x 40 galvanised steel angles bolted to wall as specified, finished in GRP cladding to top, fascia and soffitt, allow for 125 x 250mm high upstand flashing to external wall; all as detailed on Architects Detail Sheet - Schedule of Items and Specification; fixed in strict accordance with the manufacturers printed instructions and the Structural engineers requirements, include for all fixings, flashings etc</u>				
	Canopy				
8.8	800mm wide x 1850mm long x 175mm thick; including 125 x 250mm high upstand at outer leaf;	1	nr		
	Other Items				
8.9	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(36) ROOF COMPLETIONS				

To Collection



Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 4 – House Type B
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

8 (36) ROOF COMPLETIONS (Continued)

	COLLECTION Page 26: (36) ROOF COMPLETIONS Carried to Summary:				
--	--	--	--	--	--

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
9	(41) WALL FINISHES EXTERNALLY				
	(41) WALL FINISHES EXTERNALLY				
	<u>Generally</u>				
	<u>INFORMATION</u>				
9.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
9.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
9.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
9.4	For layout, elevations and details refer to Hasset & Leyden & Associates Architects Drawings 2701-HLA-ZZ-00-DR-A-0310, 0300) specifically but not limited to.		note		
9.5	NOTES				
9.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>FLOOR, WALL AND CEILING FINISHES: In-Situ Finishes</u>				
	<u>K Rend Scraped finish or similar , applied in accordance with manufactures instructions, include for all angles, beads, dividing strips and the like; composition and application in full accordance with manufacturer's instructions; in accordance with the Architects Specification Section M20</u>				
	Walls; to blockwork surfaces; externally				
9.7	> 300mm wide	100	m2		
	Reveals; smooth; girth				
9.8	< or = 150mm.	39	m		
	Plinth; smooth; girth				
9.9	150mm - 300mm.	19	m		
	<u>Sundries: Beads</u>				
	<u>Stainless steel bead or equivalent to be installed, in accordance with the manufacturers specifications</u>				
9.10	Belcast	19			
9.11	Angle Bead.	109	m		
9.12	Stop beads.	38	m		
9.13	Designed expansion joint in render coinciding with movement joints in background.	19	m		
	<u>Form movement joints with stainless steel stop bead edgings to both sides of the external walls movement joints location, stop beads, expamet or equivalent installation, centered over joint in substrate, fixed with stainless steel screws, joint width, to suit that of structural movement joint in background. Sealant colour to architect's later approval to match brickwork. Prepare joints and apply sealant as section Z22. Preparation and application as per Architects specification F30/18.</u>				
	Movement Joints				
9.14	Vertical; 6mm wide	19	m		
	<u>PAINTING AND DECORATING: Painting</u>				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 4 – House Type B
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

9 (41) WALL FINISHES EXTERNALLY (Continued)

	<u>Matt External Emulsion Paint ,or equivalent, external painting system, include for cleaning surface, apply one initial coat and two finishing coats to selected colour; all in accordance with Architects Specification Section M60</u> General Areas				
9.15	exceeding 300mm wide	100	m2		
	Reveals; smooth; girth				
9.16	< or = 150mm.	39	m		
	Plinth; smooth; girth				
9.17	150mm - 300mm.	19	m		
	Window cills; girth				
9.18	250mm - 500mm.	11	m		
	Other Items				
9.19	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(41) WALL FINISHES EXTERNALLY				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 4 – House Type B
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

9	(41) WALL FINISHES EXTERNALLY				(Continued)
	COLLECTION Page 28: Page 29: (41) WALL FINISHES EXTERNALLY Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 4 – House Type B

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
10	(42) WALL FINISHES INTERNALLY				
	(42) WALL FINISHES INTERNALLY				
	<u>Generally</u>				
	<u>INFORMATION</u>				
10.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
10.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
10.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
10.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects Drawings		note		
10.5	NOTES				
10.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>FLOOR WALL AND CEILING FINISHES: Board Finishes: Drylining</u>				
	<u>12.5mm Plasterboard fixed to and including 45 x 45mm treated timber battens spaced at 400mm centres with absorbing quilt insulation in void between plasterboard and 215mm party wall: complete with painted skim finish: dot and dabbed fix, tape jointed and skim coated to finish, refer to Architects Drawing Nr 210206-04-048 and Specification Section K10, all in accordance with manufacturers instructions.</u>				
	Walls				
10.7	Exceeding 300mm wide	42	m3		
10.8	Extra over for moisture resistant plasterboard	9	m2		
	<u>FLOOR, WALL AND CEILING FINISHINGS: In-situ finishes</u>				
	<u>Plaster, first coat of scud coat 1:2, second coat of scratch coat 1:1:6 and third coat of gypsum plaster finish, 2mm thick; to blockwork base; applied in accordance with BS 5492:2006; including for all "Expamet" or equivalent stainless steel angle and stop beads; in accordance with Architects Specification Section M20</u>				
	Walls;				
10.9	Exceeding 300mm wide.	150	m2		
10.10	Not exceeding 300mm wide; to reveals	37	m		
	<u>FLOOR, WALL AND CEILING FINISHINGS: Tile, Slab or Mosaic finishes</u>				
	<u>Kitchen Splashback; Glazed ceramic wall tiles shall be flat gloss 150mm x 150mm tiles complying with BS EN 14411 and shall be of the colours selected by the Architect. Tiles shall be fixed with adhesive by the thin bed method and shall be wiped clean and fixed dry. Use Proprietary PVC edge strips to match tile at external corners and installed in accordance with the manufacturers instructions; all as Architects Specification Section M40/110A.</u>				
	Walls				
10.11	Exceeding 300mm wide: Splashback to Kitchens	4	m2		
	<u>Glazed ceramic wall tiles shall be 150mm x 150mm x 6mm tiles complying with BS EN 14411 and shall be of the colours selected by the Architect. Tiles shall be fixed with adhesive by the thin bed method and shall be wiped clean and fixed dry. The tiles shall be bedded with straight joints not exceeding 3 mm wide to approved finished sample and colour. Use Proprietary PVC edge strips to match tile at external corners and installed in accordance with the manufacturers instructions, all as Architects Specification section M40/110B.</u>				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
10	(42) WALL FINISHES INTERNALLY				(Continued)
	Walls				
10.12	Exceeding 300mm wide. : Bathrooms	9	m2		
	Labours on Tiling				
10.13	Cut and make good around obstruction not exceeding 300 mm girth.	5	nr		
10.14	Ditto 300 mm - 1.00 m girth.	3	nr		
10.15	Ditto 1.00 - 2.00 m girth.	1	nr		
10.16	Seal junction between wall tiling and sanitary fittings, built-in fittings and the like with one-part silicone rubber sealant as before in selected colour to form a 6 mm triangular joint with fair concave edge.	14	m		
10.17	stainless steel tile trim.	13	m		
	<u>PAINTING AND DECORATING: Painting</u>				
	<u>Prepare and apply one initial coat, and two finishing coats of approved mid sheen vinyl emulsion paint as Architects Specification Section M60</u>				
	Walls				
10.18	Exceeding 300mm wide.	257	m2		
10.19	Not exceeding 300mm wide; reveals.	37	m		
	Other Items				
10.20	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(42) WALL FINISHES INTERNALLY				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 4 – House Type B
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

10	(42) WALL FINISHES INTERNALLY				(Continued)
	COLLECTION Page 31: Page 32: (42) WALL FINISHES INTERNALLY Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 4 – House Type B

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
11	(43) FLOOR FINISHES				
	(43) FLOOR FINISHES				
	<u>Generally</u>				
	<u>INFORMATION</u>				
11.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
11.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
11.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
11.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects and Civil Engineers Drawings		note		
11.5	NOTES				
11.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
11.7	Contractor is to include within the rates for any works associated with achieving the required moisture content in concrete floors prior to laying floor finishes		note		
	<u>CONCRETE WORK: In-situ Concrete</u>				
	<u>Include for any works associated with achieving the required moisture content in concrete floors prior to laying floor finishes.</u>		note		
	Achieving Moisture Content				
11.8	Concrete Powerfloat Finish	43	m2		
	<u>FLOOR, WALL AND CEILING FINISHINGS: In Situ Finishes</u>				
	<u>Prepare and apply mixed self levelling compound or equivalent, to concrete floors, 1 number coat: 3mm thick, all in accordance with manufacturers instructions and Architects Specification</u>				
	Floor Levelling Compound				
11.9	Floors; over 300mm wide	43	m2		
	<u>FLOOR, WALL AND CEILING FINISHINGS: In Situ Finishes</u>				
	<u>Two part component waterproof system containing a 1mm butyl based self-adhesive waterproof floor membrane with a fabric top layer suitable for solid floors. all floors to be primed before application of membrane. Allow for 125mm self-adhesive hdpe butyl reinforcing tape and gun applied jointing compound to all wall and floor junctions, butt joints and other detail work within the membrane. All walls to shower areas only to receive 1mm thick brush applied flexible wall membrane to a minimum height of 2200mm and overlapping with reinforcing tape at floor junction. Floors and walls in wc/shower room to be prepared to take tile finish as per spec, all in accordance with manufacturer's instructions and as per Architects Specification</u>				
	To Walls & Floors				
11.10	> 300mm wide	16	m2		
	<u>WOODWORK: Boarding Second Fixings</u>				
	<u>Second fixings: softwood skirting, plugged and screwed to blockwork with screw heads countersunk and pelltated at 450mm centres to BS 1186-3: as per Architects Specification P20</u>				
	Skirtings				
11.11	150 x 19mm softwood skirting,	84	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 4 – House Type B
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

11 (43) FLOOR FINISHES (Continued)

11.12	Extra over for Short lengths. WOODWORK: Ironmongery, Accessories and Sundries <u>Silicone/caulk sealant at junction of skirting and wall; gun applied; finish smooth; colour and quality of sealant to Architects selection.</u> Sealing	20	nr		
11.13	Width of seal not exceeding 10mm FLOOR, WALL AND CEILING FINISHINGS: Floor Tiling <u>Floor tiles: R12 Beige porcelain tiles matt finish; 300 x 400 x 10mm thick complying with BSEN 12057; tiles shall be fixed with a thick bed of adhesive CG2 classification, the tiles shall be bedded with straight joints to the approved finished sample and colour as Architects Specification M40</u> Floors; to concrete base	84	m		
11.14	> 300m wide; horizontal PAINTING AND DECORATING: Painting <u>Prepare and apply one coat of primer undercoat, undercoats as directed by manufacturer. Finishing coat of acrylic based Gloss (White), or equivalent, on the following wood surfaces:</u> Skirtings	24	m2		
11.15	General surfaces not exceeding 300 mm wide;	84	m		
11.16	Ditto short lengths Other Items	20	nr		
11.17	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below) (43) FLOOR FINISHES	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 4 – House Type B
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

11	(43) FLOOR FINISHES				(Continued)
	COLLECTION Page 34: Page 35: (43) FLOOR FINISHES Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 4 – House Type B

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
12	(45) CEILING FINISHES				
	(45) CEILING FINISHES				
	<u>Generally</u>				
	<u>INFORMATION</u>				
12.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
12.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
12.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
12.4	NOTES				
12.5	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>WOODWORK: Structural and First Fixings</u>				
	<u>34 x 44mm treated softwood battens, battens fixed to ceiling joist / truss members spaced at 300 mm maximum centres with galvanised wire nails</u>				
	First Fixings				
12.6	Exceeding 300mm Wide	86	m2		
	<u>WOODWORK: Ironmongery, Accessories and Sundries</u>				
	<u>Isover Vario KM Duplex intelligent membrane or equivalent; to be stapled to underside of joints and taped at all lapped joints using siga sicrall tape or equivalent to ensure airtight envelope as per TGD Part L 2011. To underside of roof trusses and taping to all perimeter walls</u>				
	Sundries				
	Seals				
12.7	Exceeding 300mm Wide; To underside of roof trusses	43	m2		
	<u>FLOOR WALL AND CEILING FINISHES: In-Situ Finishes</u>				
	<u>Plaster: Gypsum skim coat plaster; smooth finish; 1-5mm thick; to plasterboard base. CE to be marked and approved, all as per Architects Specification Section M20 clause 220A.</u>				
	Ceilings				
12.8	> 300mm wide; Horizontal	86	m2		
	Making good and labour finishing skim coat around pipework 0.30 - 1.00m girth				
12.9	300 - 1000mm girth.	12	nr		
	<u>FLOOR, WALL AND CEILING FINISHINGS: Board finishes</u>				
	<u>15 mm thick Type A plasterboard to BS EN 520. Screws to be recommended by the manufacturer. Moisture resistant plasterboard to be used in wet areas; refer to Architects Specification; all in accordance with manufacturers instructions refer to Architects Specification K10. allow for Fire stopping around service penetrations as section P12.</u>				
	Ceilings				
12.10	Over 300mm wide; Horizontal	86	m2		
	Extra over to:				

To Collection

Project: Donohill, Tipp	Details: BQ 4 – House Type B
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

12	(45) CEILING FINISHES	(Continued)			
12.11	Moisture resistant board. Making good and labour finishing including jointing 15mm plasterboard around pipework	23	m2		
12.12	300 - 1000mm girth <u>PAINTING AND DECORATING: Painting.</u> <u>Prepare and apply one initial coat, and two finishing coats of approved Trade Matt Vinyl Emulsion paint as Architects Specification Section M60.</u> Ceilings	5	nr		
12.13	over 300mm wide; to plaster base Other Items	86	m2		
12.14	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below) (45) CEILING FINISHES	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 4 – House Type B
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

12	(45) CEILING FINISHES				(Continued)
	COLLECTION Page 37: Page 38: (45) CEILING FINISHES Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 4 – House Type B

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
13	(47) ROOF FINISHES				
	(47) ROOF FINISHES				
	<u>Generally</u>				
	<u>INFORMATION</u>				
13.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
13.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
13.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
13.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects Drawings		note		
	<u>NOTES</u>				
13.5	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>ROOFING, CLADDING AND WATERPROOFING: Slate & Tile Roofing</u>				
	<u>Concrete roof slate, 420mm x 334mm: selected Milford Slate Grey Ref 1532 suggested supplier Morrissey Roof Tiles, smooth finish flat leading edge roof tile, manufactured to EN 490:2011. Treated battens at 245mm c/c. Minimum Headlap 110mm Maximum Batten Gauge 400mm as per architect's specification document; Fittings/ fixings should be fitted in accordance with the Irish Code of Practice for Slating and Tiling; in accordance with Specification H65.</u>				
	Coverings; exceeding 30 degree pitch				
13.6	Sloping; over 300mm wide	72	m2		
13.7	Extra; Thru-vent roof ventilation slate with 15mm PVC underlay installed in accordance with manufactures instructions	2	nr		
	Ridge				
13.8	Ridge tile to be universal concrete angle ridge; in 450mm effective lengths; NWA Universal Ridge kit DRUA02 Antracite; butt jointed, mechanically fixed with proprietary fixings as per Specification	7	m		
	<u>ROOFING, CLADDING AND WATERPROOFING: Rigid Sheet Coverings and Decking</u>				
	<u>Proprietary fascia ventilator Fix to close underside of first course tiles.; First course tiles: Fix with tails projecting 50 mm over gutter or to centre of gutter. Airway: the equivalent of a continuous opening of not less than 10mm for full length of eaves, all as per Architect's Drawings include for eaves skirt/tray to prevent sagging, refer to Specifications Section H65</u>				
	Eaves ventilators				
13.9	17.5 mm x 13.5 mm wide	13	m		
	<u>Rows of ventilator roll to be laid over the rafters before laying roofing underlay.</u>				
	Rafter Roll				
13.10	300 mm wide	13	m		
	<u>Rolled lead to : Flashings BSEN588:2006 Code 5 Refer to Architects Specification H71; Flashings to be treated with patination oil as L.S.A manual to reduce staining.</u>				
	Apron Flashings				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
13	(47) ROOF FINISHES				(Continued)
13.11	2.24 thick flashings; 250mm girth; bends - 1; junction between canopy and external wall;	2	m		
13.12	2.24 thick flashings; 250mm girth; bends - 1; junction between roof and external wall; sloping Cover Flashings	12	m		
13.13	2.24 thick flashings; 250mm girth; bends - 1; junction between canopy and external wall;	2	m		
13.14	2.24 thick flashings; 250mm girth; bends - 1; junction between roof and xternal wall; sloping <u>Aluminium dry verge unit fixed to timber backing installed with system fixing accessories in strict accordance with the manuracturers instructions</u> Dry Verge; sloping	12	m		
13.15	not exteeding 300mm wide <u>WOODWORK: Boarding and Second Fixings</u> <u>Fascia and soffits: COLOUR RAL 7001. Fascia 8 mm thick minimum, moulded, height to suit approx. 325 mm; bracket fixed at 915mm centres and at each fitting using number 12x38mm.SOFFIT BOARD 10 mm thick hollow extrusion T&G All holes to be filled, sealed and sanded; continuous sealant, compatible with external finish, to interface with structure</u> Fascia & Soffitt board	23	m		
13.16	Not exceeding 300 mm wide. <u>METALWORK: Non-Structural</u> <u>PVC Eavesline Fascia and Soffit; to selected colour: 325mm x 8mm thick plain fascia, & 75mm soffit or equivalent, fixed to and including 50 x 50 treated timber batten fixed to blockwork wall,include for all fittings, seals, trims, bolts and fixings</u> Sheeting; Expanded Metal Fascia board	36	m		
13.17	Not exceeding 300 mm wide Soffit board	36	m		
13.18	Not exceeding 300 mm wide	36	m		
13.19	Mitered box ends Other Items	4	nr		
13.20	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below) (47) ROOF FINISHES	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 4 – House Type B
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

13	(47) ROOF FINISHES				(Continued)
	COLLECTION Page 40: Page 41: (47) ROOF FINISHES Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
14	(52) DRAINAGE AND REFUSE DISPOSAL				
	(52) DRAINAGE AND REFUSE DISPOSAL				
	<u>Generally</u>				
	<u>INFORMATION</u>				
14.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
14.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
14.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
14.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects Drawings		note		
14.5	NOTES				
14.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>DRAINAGE: Disposal Above Ground</u>				
	<u>Downpipes shall be aluminium, complying with To BS 299. Shall be 75 mm & 100 mm for large capacity round rainwater pipes and shall include all fittings and accessories required. In accordance with architects specification R10 / 370.</u>				
	Downpipes				
14.7	75 mm diameter	11	m		
14.8	Extra; shoes	2	nr		
14.9	Extra; connections to outlets	2	nr		
	<u>Gutters shall Cast Aluminium, powder coated to BS EN 12206-1:2004. Rail to match Window RAL, complying with BS 2997 and shall include all fittings and accessories required. Rainwater pipes shall be 100mm wide and 75mm deep half round gutters, complying with BS EN1559:1997, BS EN 1676:1997 and BS EN 1706:1998 and shall include all fittings and accessories required. In accordance with architects specification R10 / 311</u>				
	Gutters				
14.10	100mm diameter	13	m		
14.11	Ends	4	nr		
14.12	112mm diameter outlets	2	nr		
14.13	Bends	2	nr		
	<u>SOILS AND WASTES</u>				
	<u>Pipes and fittings; MU PVC; solvent welded joints in the running length; standard pipe clips at 500mm centres to concrete requiring hanging; laid to falls</u>				
	Pipes; 100mm diameter				
14.14	Surface fixed; vertical; SVP	15	m		
14.15	Surface fixed; Horizontal; SVP	3	m		
14.16	Extra; bends	2	nr		
14.17	Extra; connection to WC outlets; special adaptor	2	nr		

To Collection

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
14	(52) DRAINAGE AND REFUSE DISPOSAL				(Continued)
14.18	Extra; cleaning eye	2	nr		
14.19	Extra; vent cowl	2	nr		
	Other Items				
14.20	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(52) DRAINAGE AND REFUSE DISPOSAL				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 4 – House Type B
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

14	(52) DRAINAGE AND REFUSE DISPOSAL				(Continued)
	COLLECTION Page 43: Page 44: (52) DRAINAGE AND REFUSE DISPOSAL Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
15	(59) MECHANICAL INSTALLATIONS				
	(59) MECHANICAL INSTALLATIONS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
15.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
15.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
15.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
15.4	For layout, elevations and details refer to Don O Malley Services Engineers Drawings.		note		
15.5	NOTES				
15.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
15.7	Tendering Contractors are to refer to Don O Malley Drawings and Specification.		note		
15.8	Tendering Contractors are to include for all testing, commissioning, maintenance manuals, training on safe operation etc. all as specified within Moloney Fox performance specification document.		note		
15.9	Tendering Contractors will be required to provide and include for all maintenance during the 12 months after substantial completion; all in accordance with Don O Malley performance specification document.		note		
15.10	A fully quantified and priced breakdown of the Electrical Installation tender is to be provided by the contractor whos tender is being considered for acceptance. The tenderer under consideration will be expected to provide this information within 7 working days of being requested to do so. Failure to do so may result in the rejection of his tender.		note		
15.11	Element (69) has not been measured in accordance with ARM, Agreed Rules of Measurement (Issue 4). Tendering Contractors are to include hereunder within their rates for any additional costs associated with same.		note		
	<u>MECHANICAL INSTALLATIONS</u>				
	<u>Mechanical Installations</u>				
15.12	Total Contract Value transferred from the Don O Malley & Partners Mechanical Services Installation Tender Document 'Summary of Tender: - House Type B <u>Total Contract Value to Include the breakdown cost on the following items from the Mechanical Services Installation Tender Summary:</u> Preliminaries	1	item		
15.13	General Items 1 Mechanical Services Installations	1	item		
15.14	Amount for Internal Mains Water Piping Installation	1	item		
15.15	Amount for Hot & Cold Water Services Installation including Manifolds	1	item		
15.16	Amount for Cold Water storage Tanks with Booster Pump Supply & Installation	1	item		
15.17	Amount Air to Water Heat Pump supply & Installation including all instrumentations	1	item		
15.18	Amount Air to Water Heat Pump external pipeworks installation	1	item		
15.19	Amount For Heating Pipework Supply & Installation Including Manifolds	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
15	(59) MECHANICAL INSTALLATIONS				(Continued)
15.20	Amount For Radiators Supply & Installation Including Thermostatic Valves, Lock Sheid Valves and Thermostat	1	item		
15.21	Amount For Zone Controls Supply & Installation	1	item		
15.22	Amount For Mechanical Ventilation (DCV) Supply & Installation Including Fans, Controls and Sensors	1	item		
15.23	Amount For Kitchen Extractor Hoods Supply & Installation	1	item		
15.24	Amount For Extract Ducting Supply & Installation Including Extract Grilles	1	item		
15.25	Amount For Above Ground Drainage Installation Including Booster Tank Overflow	1	item		
15.26	Amount For Insulation of All Internal Pipework	1	item		
15.27	Amount For Sterilisation, Cleaning and Flushing.	1	item		
15.28	Amount For Fire Extinguishers & Fire Blanket Supply & Installation	1	item		
15.29	Amount For Fire Collars Supply & Installation	1	item		
15.30	Amount For Fire Collars Supply & Installation	1	item		
15.31	Amount For 12 Months Maintenance	1	item		
15.32	Amount For Provision of Handover Documentation	1	item		
15.33	Amount For Any Other Items Deemed Necessary for Completion of Works	1	item		
15.34	Amount For a Water Meter	1	item		
15.35	Amount for Outdoor Tap Installation	1	item		
	BER and BER Certificate				
15.36	Amount to complete and issue a BER cert and Part L compliance report on completion - 1 Nr. Required per property.	1	item		
15.37	Amount to register BER certificate and lodge to SEAI website	1	item		
	<u>Include the following in respect of the foregoing</u>				
15.38	All costs and requirements associated with a complete Mechanical Installation (such as main contractors general and special attendances, unloading, distributing, lifting, hoisting and placing in position all plant and equipment as scheduled, storage for plant, covered storage for welding and portable machine tools, profit and all additional preliminaries over and above normally provided by sub-contractors themselves and the like) if not included in the above item should be included here. Provide for lifting, hoisting, moving and placing into position the following if not already included in the above	1	item		
15.39	Ductwork and accessories	1	item		
15.40	Pipework and accessories	1	item		
15.41	Radiators and accessories	1	item		
15.42	Satellite Units and accessories	1	item		
	<u>SUNDRIES AND BUILDERS WORK</u>				
15.43	Refer to Builders Works drawings for details and locations of openings for services.		note		
15.44	Filling and sealing voids around pipework, ductwork etc. shall achieve a decibel rating equivalent to the structure in which the ope is formed. The filling and sealing shall finish neatly flush with the structure and finishes on both face.		note		

To Collection

Project: Donohill, Tipp

Details: BQ 4 – House Type B

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
15	(59) MECHANICAL INSTALLATIONS				(Continued)
15.45	Fireseal opes shall include for all works included in Architect's Specification; intumescent compound for sealing around service members on both faces to provide a 1 hour period of fire resistance. The fireseal is to finish neatly flush with the structure and finishes on both faces. This specification applies to all sections of the Bill of Quantities.		note		
15.46	Rates are to allow for making good in all trades complete. <u>SUNDRIES AND BUILDERS WORK</u> Airtightness Test		note		
15.47	Undertake a building pressure and air flow test & pre-test at the time of completion of construction to a standard of air permeability of 3m3/hr/m2 at 50 Pa in accordance with the test methods prescribed under Building Regulations TGD-L the new building and other requirements as specified in the tender documents. Include for all disruption associated with the requirement to vacate the premises during the test(s) sealing all inlet/outlet grilles and flues, air supply openings, wedging internal doors open/closed as appropriate, closing fire dampers and any other measures necessary to allow testing to be completed. Any costs arising out of test failure(s) which can be attributed to the poor workmanship and improper detailing of domestic and nominated sub-contractors, including the cost of repeat test(s) shall be at the expense of the Contractor. Testing carried out by an INAB accredited Specialist, 1 test carried out at first fix stage and 1 final test at the end of the project, all site inspection by specialist, sample testing including smoke testing etc, submit a digital copy of test results and all supporting data to the Employer and Design Team no later than 7 days following final test. Refer to Architects Specification for full Details of Airtightness Requirements, no additional costs will be entertained due to the contractor's failure to correctly interpret this section of the specification. Sound Test	1	item		
15.48	Undertake airbourne/sound test to be undertaken by a company compotent in the measurement of sound insulation of buildings in accordance with the test methods prescribed under Building Regulations E1 the new building and other requirements as specified in the tender documents. Include for all disruption associated with the requirement to vacate the premises during the test(s) and any other measures necessary to allow testing to be completed. Any costs arising out of test failure(s) which can be attributed to the poor workmanship and improper detailing of domestic and nominated sub-contractors, including the cost of repeat test(s) shall be at the expense of the Contractor. Certificate to be lodged in the Safety File. 2 number test per house to include floor and party walls carried out in accordance with IS EN ISO 16283 and 3382-2 achieving 53 Dnt,wdB, Refer to Architects Specification for Details. Mechanical Ventilation Testing	1	item		
15.49	All Mechanical Systems when installed and commissioned should be validated by a Certified Third Party compotent in the measurement of ventilation systems in buildings to ensure that they achieve the design flow rates for extract fans and the correct opening area. Airflow measurements should be performed using a calibrated airflow device and results recorded in litres per second (l/s), See Services Engineers Requirements. Mechanical Installations	1	Item		
15.50	Marking the positions of holes, mortices and chases <u>Pipe Casings</u> <u>Pipe casings: comprising of treated sawn softwood framework; 44 x 44mm at 400 centres; 25mm thick medium density fibreboard; moisture resistant; fixed with countersunk wood screws and countersunk pipes to be wrapped in Rockwool Techtube 20 mm thick installed in accordance with manufactures recommendations; all as per Architect's Drawings</u> To blockwork base	1	item		
15.51	Horizontal: 200 x 200 mm wide Box Out (ARM Qualification)	10	m		
15.52	Vertical: 200 x 200 mm wide Box Out (ARM Qualification)	24	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
15	(59) MECHANICAL INSTALLATIONS				(Continued)
	<u>Forming or cutting chases; weathering and making good structure and finishes upon completion; including for all works necessary to complete</u>				
	For pipework in partition walls				
15.53	Not exceeding 25mm bore (ARM Qualification)	5	m		
15.54	Exceeding 25mm bore (ARM Qualification)	12	m		
	<u>Concrete grade C30/37; formwork; trowelled finish</u>				
	Heat Pump Support				
15.55	1000mm x 1000mm x 150mm high	1	nr		
	<u>Woodwork; (ARM Qualification)</u>				
15.56	Timber Grounds including all fixings, notching, bolts and any necessary items to complete the works.				
	HWS Cylinder Support; Floors				
15.57	Sawn white deal, vacuum presure impregnated, stress graded class B				
15.58	Joists 150 x 44 mm.	10	m		
	CWS Cylinder Support; Floors				
15.59	Sawn white deal, vacuum presure impregnated, stress graded class B				
15.60	Joists 150 x 44 mm.	10	m		
	Boiler Support; Wall Mounted				
15.61	Sawn white deal, vacuum presure impregnated, stress graded class B				
15.62	Joists 150 x 44 mm.	6	m		
	Radiator Support; Wall Mounted				
15.63	Sawn white deal, vacuum presure impregnated, stress graded class B				
15.64	Joists 150 x 44 mm.	20	m		
	HMV Unit; Wall Mounted				
15.65	Sawn white deal, vacuum presure impregnated, stress graded class B				
15.66	Joists 150 x 44 mm.	4	m		
	<u>Forming or cutting holes; build in sleeves and/or bridge over with lintols as required; include for all firestopping with intumescent collars to give one hour fire resistance; including for all works necessary to completeweathering and making good structure and finishes upon completion; including for all works necessary to complete; Firestopping in accordance with Architect's Drawings and Specification</u>				
	For pipework through in-situ ground bearing slab				
15.67	55 - 110mm diameter	2	nr		
	For pipework through intermediate floor slabs				
15.68	55 - 110mm diameter	2	nr		
	For pipework through roof structure				
15.69	55 - 110mm diameter	4	nr		
15.70	110 - 200mm diameter	2	nr		
	For pipework through timber floor joists				
15.71	Not exceeding 55mm diameter	7	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
15	(59) MECHANICAL INSTALLATIONS				(Continued)
15.72	For pipework through Concrete Floor Slab Not exceeding 55mm diameter	8	m		
15.73	For pipework through ceiling structure Not exceeding 200mm diameter	5	nr		
	<u>Special Works</u>				
15.74	Building in external ventilation louvres to external walls 150 x 150 mm	2	nr		
15.75	Building in external airbrick termination grilles to external walls 250 x 250mm	2	nr		
15.76	Forming opes in external walls 250 x 250 x 300mm deep	2	nr		
15.77	Forming opes in internal walls 150mm diameter	2	nr		
15.78	Firestopping around flatpack/pipework ducting; through internal walls/floors 150 x 150 mm	3	nr		
15.79	250 x 250mm	2	nr		
15.80	600 x 500mm	2	nr		
	<u>General builders work; grounds; cutting away and making good for the following</u>				
15.81	Additional builders work not outlined above	1	item		
15.82	Any other items or components included in the drawings or specification but not specified in this schedule	1	item		
	<u>PAINTING AND DECORATING: Painting</u>				
	<u>One coat primer, two coats undercoat; one coat alkyd based heat resistant paint, full gloss finish in accordance with services engineers specification</u>				
15.83	Pipes, ducts and the like Not exceeding 32mm bore (ARM Qualification)	10	m		
	<u>One coat primer, two coats undercoat; one coat alkyd based heat resistant paint, full gloss finish in accordance with services engineers specification</u>				
15.84	Pipes, ducts and the like Not exceeding 32mm bore (ARM Qualification)	21	m2		
	<u>Preparing and painting one coat sealer and two coats quick drying water based eggshell paint; as manufactured ; to selected colours; all applied in strict accordance with the manufacturers instructions; all as per Architects Specification</u>				
15.85	Pipe Casings Generally	34	m		
15.86	Other Items Provide for all labour, materials, plant and all items which in the tenderers opinion are not specifically allowed for in this section of the works but which can be reasonably inferred from the works requirements as being necessary for the execution and completion of the works. - (List items below)		item		
	(59) MECHANICAL INSTALLATIONS				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 4 – House Type B
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

15	(59) MECHANICAL INSTALLATIONS				(Continued)
	COLLECTION Page 46: Page 47: Page 48: Page 49: Page 50: (59) MECHANICAL INSTALLATIONS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
16	(69) ELECTRICAL INSTALLATIONS				
	(69) ELECTRICAL INSTALLATION				
	<u>Generally</u>				
	<u>INFORMATION</u>				
16.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
16.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
16.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
16.4	For layout, elevations and details refer to Don O Malley Services Engineers Drawings.		note		
16.5	NOTES				
16.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
16.7	Tendering Contractors are to refer to Moloney Fox Drawings and Specification.		note		
16.8	Tendering Contractors are to include for all testing, commissioning, maintenance manuals, training on safe operation etc. all as specified within Moloney Fox performance specification document.		note		
16.9	Tendering Contractors will be required to provide and include for all maintenance during the 12 months after substantial completion; all in accordance with Moloney Fox performance specification document.		note		
16.10	A fully quantified and priced breakdown of the Electrical Installation tender is to be provided by the contractor whos tender is being considered for acceptance. The tenderer under consideration will be expected to provide this information within 7 working days of being requested to do so. Failure to do so may result in the rejection of his tender.		note		
16.11	Element (69) has not been measured in accordance with ARM, Agreed Rules of Measurement (Issue 4). Tendering Contractors are to include hereunder within their rates for any additional costs associated with same.		note		
	<u>ELECTRICAL INSTALLATIONS</u>				
	<u>Electrical Installations</u>				
16.12	Total Contract Value transferred from the Don O' Malley & Partners Electrical Services Installation Tender Document 'Summary of Tender: - House Type B Total Contract Value to Include the breakdown cost on the following items. Preliminaries	1	item		
16.13	General Items 1 Electrical Services Installations	1	item		
16.14	Supply & Installation of Consumer Units	1	item		
16.15	Supply & Installation of Light Fittings	1	item		
16.16	Type A	1	item		
16.17	Type A/D	1	item		
16.18	Type B	1	item		
16.19	Type C	1	item		
16.20	Type D	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 4 – House Type B
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
16	(69) ELECTRICAL INSTALLATIONS				(Continued)
16.21	Type E (Emergency LightingTo house C)	1	item		
16.22	Type G	1	item		
16.23	Type H	1	item		
16.24	LightingWiring Installation (including emergency lighting)	1	item		
16.25	General Power sockets & wiring	1	item		
16.26	TV sockets & Wiring	1	item		
16.27	Telephone Sockets & Wiring	1	item		
16.28	Cooker Switches & Wiring	1	item		
16.29	Doorbell Installation & Wiring	1	item		
16.30	Mechanical Plant Wiring (Including Mechanical air source Heat Pump, External Heat pump, Ventilation unit (HRU), C	1	item		
16.31	Immersion Heater wiring	1	item		
16.32	Amount for supply and installation of Intruder/security Alarm system	1	item		
16.33	Earthing and Bonding	1	item		
16.34	Testing & Commissioning	1	item		
	<u>Other Requirements</u>				
16.35	Compliance with all statutory requirements & Engineers requirements for the handover of O&M manuals	1	item		
16.36	Compliance with all statutory requirements & Engineers requirements for the handover of Electrical elements	1	item		
16.37	Provide as Built CAD drawings	1	item		
16.38	Any other items or components in included in the drawings or specification but not specified in this schedule	1	item		
	<u>Include the following in respect of the foregoing</u>				
16.39	All costs and requirements associated with a complete Electrical Installation (such as main contractors general and special attendances, unloading, distributing, lifting, hoisting and placing in position all plant and equipment as scheduled, storage for plant, covered storage for welding and portable machine tools, profit and all additional preliminaries over and above normally provided by sub-contractors themselves and the like) if not included in the above item should be included here	1	item		
	<u>SUNDRIES AND BUILDERS WORK</u>				
16.40	Total Contract Value for builders work transferred from the Electrical Services Installation Tender Document 'Summary of Tender: - House Type A	1	item		
	Other Items				
16.41	Provide for all labour, materials, plant and all items which in the tenderers opinion are not specifically allowed for in this section of the works but which can be reasonably inferred from the works requirements as being necessary for the execution and completion of the works. - (List items below)		item		
	(69) ELECTRICAL INSTALLATIONS				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 4 – House Type B
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

16	(69) ELECTRICAL INSTALLATIONS				(Continued)
	COLLECTION Page 52: Page 53: (69) ELECTRICAL INSTALLATIONS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
17	(73) CULINARY FITTINGS				
	(73) CULINARY FITTINGS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
17.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
17.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
17.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
17.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects Drawings specifically but not limited to.		note		
17.5	NOTES				
17.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>FITTINGS: Fittings, Equipment and Furniture</u>				
	<u>Dimensions of manufactured kitchen to be BS EN 1116. Storage Units: including base, drawers, corners, cupboards, high level wall presses, shelves, worktops etc. Carcass of all units shall be manufactured with 18mm thick MFC coreboard moisture resistant cabinets throughout, all pre-bored and screw fixed. it shall be mounted on adjustable pvc legs. Press Doors to be high pressure laminate facing bonded onto MR MDF core with a balancing bonded melamine veneer to the inside door face finished thickness 20mm as agreed by the architect on 180dia steel "hinges (or equal and approved) self closing. The drawer unit shall be three number Blum metal box drawers with moisture resistant bottom complete with steel runners. 38mm particle board worktop to selected colour, moisture and heat resistant; 600mm deep. Back panel shall be screw fixed and removable from the front to facilitate the installation of plumbing pipes. Include for 75mm high Cornice and 50mm high pelmet. Handles to be brushed stainless steel 150mm long round section. All end units to be finished with side panel to match selected. Include for all aluminium trims at ends and corner joints; all in accordance with the Architects Specification N11 and Drawing number 1604</u>				
	Kitchen Units				
17.7	Worktop, L - Shaped straight Base Unit & Overhead Storage Units				
17.8	Overall length; 4800 mm; as per Architects Specification	1	nr		
	Heat Pump Enclosure;				
17.9	2400 mm high; Double Door	1	nr		
	<u>Satin Stainless Steel Sink or equivalent inset unit with approved monoblock mixer taps; single drainer; complete. 1 1/2" basket strainer waste (SO226)</u>				
	Stainless Sink Set				
17.10	Overall size 1000mm x 500mm.	1	nr		
	<u>Fire blankets to each kitchen; 1000mm x 1000mm FB 100 including mounting brackets and instructions manuals; all as per Architects Specification</u>				
17.11	Fire Blanket				
17.12	Generally	1	nr		
	<u>MECHANICAL INSTALLATIONS: Generally</u>				
	<u>600mm with Twin motor or equivalent integrated extractor unit with flexi flue pipe connected to wall vent; as per Architects Specification, with removable filters, variable fan settings, min 30 l/s</u>				

To Collection

Project: Donohill, Tipp	Details: BQ 4 – House Type B
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

17	(73) CULINARY FITTINGS				(Continued)
17.13	Cooker Hood Extractor Generally Other Items	1	nr		
17.14	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below) (73) CULINARY FITTINGS				

To Collection



Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

17 (73) CULINARY FITTINGS

(Continued)

	COLLECTION Page 55: Page 56: (73) CULINARY FITTINGS Carried to Summary:				
--	--	--	--	--	--

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
18	(74) SANITARY FITTINGS				
	(74) SANITARY FITTINGS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
18.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
18.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
18.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
18.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects Drawings) specifically but not limited to.		note		
18.5	NOTES				
18.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
18.7	Supply, deliver, install and warrant the works in strict compliance with the materials and workmanship requirements of the Specification		note		
18.8	Where alternative products are offered by the Contractor for acceptance by the Employers representative, provide full supporting documentation in respect of the complete system or installation		note		
18.9	Contractor to include in their rates for installing any necessary grounds for support of any/all sanitary items listed below	1	item		
18.10	Contractor to allow for support of grabrails required by TGD part M (a load of 171kg) applied both vertically and 45 by fixing to either concrete block masonry wall or by secondary structural steel posts within plasterboard partitions fixed from structural floor to structural soffit for architects/engineers approval	1	item		
18.11	All sanitary ware to be white in colour unless otherwise specified, supplied and fixed, including setting aside and re-fixing for other trades including connecting up to waste pipework, providing grounds, plugs, screws, making good finishes disturbed, fixings, fittings, accessories and the like	1	item		
18.12	Seal junction between structure and sanitary fittings and the like with one-part silicone rubber sealant, in selected colour, to form a 6mm triangular joint with fair concave edge, all unit rates below will be deemed to include for same	1	item		
	<u>FITTING, EQUIPMENT AND FURNITURE: Fitting, Equipment and Furniture</u>				
	<u>Supply and fix the following fittings, as specified, fixed in accordance with the manufacturers instructions.. Architects Specifications N13.</u>				
	<u>WHB - Concept Air Arc 50cm Washbasin Concept Air Arc 55cm washbasin, E1386(01) Contour 21 Thermostatic Sequential Basin Mixer HBN-00-10 HTM64: A4169(AA), 1 taphole with overflow, 1 taphole, with overflow and chain stay hole (Ref E1386(01)), Washbasin Wall Fixings set (Ref E0157(67)), Pedestal Concept Air pedestal (Ref E8976(01)), Waste 1¼" plastic waste with bead chain and plug, 80mm slotted tail, bolt stay (Ref S8800), Trap 1¼" plastic bottle, 75mm seal, multi-purpose outlet (Ref S8910(67)), Sandringham SL 21 basin mixer with pop-up waste and 5 litre per minute eco flow regulator (Ref B3306(AA)).</u>				
	Handrinse Washbasin Set				
18.13	500mm x 400mm; including pedestal	2	nr		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
18	(74) SANITARY FITTINGS				(Continued)
18.14	WC - E8834(01) Sandringham 21 Raised height close coupled WC - horizontal outlet. Armitage Shanks Sandringham 21 close coupled WC pan with horizontal outlet (Ref E8834). Sandringham 21 6/4 litre dual flush bottom supply cistern to achieve 750mm projection with Spatula lever (Ref E8987). Armitage Shanks Sandringham 21 seat and cover (Ref E1316). Armitage Shanks Domex screws (pair) (Ref S9101). All as per sanitary ware schedule and Specifications N13. Close Coupled WC suite WC	2	nr		
18.15	Bath - Sandringham 21 bath 1700 x 700mm standard steel guage steel chrome plated grips, two tap holes, anti-slip ref S1835. Thermostatic bath filler/shower Reef thermostatic bath/shower mixer tap with shower kit included shower head to be plumbed in wall, recommended operating pressure of 1 bar, trap 1 1/2" plastic P with 75mm seal, multi purpose outlet suitable for plastic and BA copper pipe S8970, bath waste 1 1/2" combination waste and trap overflow and domed clicker. All as per sanitary ware schedule and Specifications N13. Bath Set 1700 x 700 mm wide.	1	nr		
18.16	Extra For: Forming bath panel with 18 mm WBP plywood including all grounds, fitting, fixings, seals, etc. Shower mixer	1	item		
18.17	Shower fittings: Alto Ecotherm Exposed Shower Pack A4741(AA) Alto Ecotherm thermostatic shower mixer with fast fix wall bracket and Idealrain S3 3 function kit. Merlyn Series 6, 90 cm corner door 1900mm high surrounded by a chrome elliptical frame with smooth double sliding doors. Mersfield Stayclear protected 6mm toughened glass and quick release double roller. All as per sanitary ware schedule and Specifications N13. Shower mixer, allow for all fixings	1	nr		
18.18	Bath Screen Bath fixed screen, 6mm clear toughened safety glass.ref 505277270786; include all fixing as per manufacturers instructions 300 x 1400mm high	1	nr		
18.19	Shower curtain & rail Shower curtain and rail ref AD200200SF fitted in accordance with the manufatcurers instructions generally Bathroom Fittings; as per Architects Specification	1	nr		
18.20	Generally Towel Rail	2	nr		
18.21	Soap Holder	2	nr		
18.22	Toilet Roll Holder	2	nr		
18.23	Hand Rail/Grab Bar	2	nr		
18.24	Clothes Hook GLAZING: Special Glazing Mirrors, 4 mm Class C safety glass silvering quality wall mounted mirrors; bevelled edges, tamper proof dome heads	2	nr		

To Collection

Project: Donohill, Tipp	Details: BQ 4 – House Type B
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

18	(74) SANITARY FITTINGS	(Continued)			
	Special Glazing				
18.25	900 x 700mm	2	nr		
	Other Items				
18.26	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(74) SANITARY FITTINGS				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 4 – House Type B
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

18	(74) SANITARY FITTINGS				(Continued)
	COLLECTION Page 58: Page 59: Page 60: (74) SANITARY FITTINGS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 4 – House Type B

Code	Description	Quantity	Unit	Rate	Total
19	(76) STORAGE, SCREENING FITTINGS				
	(76) STORAGE, SCREENING & FITTINGS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
19.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.				
	<u>DRAWINGS</u>				
19.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.				
19.3	For layout, elevations and details refer to Hasset Leyden & Associates Architects Drawings specifically but not limited to.		note		
	<u>NOTES</u>				
19.4	All works to be carried out in accordance with the Project Drawings, Specifications and Preliminary Health & Safety Plan				
19.5	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification.	1	item		
	<u>WOODWORK: Composite Items</u>				
	<u>The Contractor is to include for forming three tiers of prefinished solid wood 19 mm x 44 mm spar shelving, 25mm apart, the full depth of the hotpress/storage press, carried on 19mm x 44mm chamfered cleats secured to walls or on 38mm x 75mm bearers.</u>				
	<u>Shelving to be planed</u>				
	Hotpress shelving				
19.6	960mm wide	3	nr		
	Other Items				
19.7	Provide for all labour, materials, plant and all items which in the tenderers opinion are not specifically allowed for in this section of the works but which can be reasonably inferred from the works requirements as being necessary for the execution and completion of the works. - (List items below)		item		
	(76) STORAGE, SCREENING FITTINGS				

To Collection

19	(76) STORAGE, SCREENING FITTINGS	(Continued)			
	COLLECTION Page 62: (76) STORAGE, SCREENING FITTINGS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 4 – House Type B
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
	COLLECTION SUMMARY	PAGE NO			
	(21) EXTERNAL WALLS	1 - 5			
	(22) INTERNAL WALLS, PARTITIONS	7 - 8			
	(23) FLOORS; GALLERIES: STRUCTURE	10 - 11			
	(24,34) STAIRS & STAIRS COMPLETIONS	13 - 14			
	(27) ROOFS	16 - 17			
	(31) EXTERNAL WALLS COMPLETIONS	19 - 21			
	(32) INTERNAL WALLS COMPLETIONS	23 - 24			
	(36) ROOF COMPLETIONS	26			
	(41) WALL FINISHES EXTERNALLY	28 - 29			
	(42) WALL FINISHES INTERNALLY	31 - 32			
	(43) FLOOR FINISHES	34 - 35			
	(45) CEILING FINISHES	37 - 38			
	(47) ROOF FINISHES	40 - 41			
	(52) DRAINAGE AND REFUSE DISPOSAL	43 - 44			
	(59) MECHANICAL INSTALLATIONS	46 - 50			
	(69) ELECTRICAL INSTALLATIONS	52 - 53			
	(73) CULINARY FITTINGS	55 - 56			
	(74) SANITARY FITTINGS	58 - 60			
	(76) STORAGE, SCREENING FITTINGS	62			
	Total Amount:				

BILL NR.5 - TYPE C UNIT - 4 BED BUNGALOW

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
1	(21) EXTERNAL WALLS				
	(21) EXTERNAL WALLS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
1.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
1.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
1.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
1.4	NOTES				
1.5	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>CONCRETE WORK: In-Situ Concrete</u>				
	<u>Unreinforced in-situ concrete Grade 30</u>				
	Filling to back of cills				
1.6	Cross-sectional area < or = 0.10m2	1	m3		
	<u>Formwork</u>				
	Class A formwork to edge of filling to window cill				
1.7	< or = 250mm high; to back cills	19	m		
	<u>Surface finishes</u>				
	Trowelling				
1.8	Trowel smooth surface of unset concrete falls.	19	m		
	<u>Composite Item: Unreinforced in-situ concrete Grade 30</u>				
	<u>Threshold Detail including all concrete, formwork, 2 number courses of 350 mm blockwork, insulation, cast insitu concrete upstand, reinforcement stepped DPC, all as per Architect's Drawings DR-A-1804 - front door threshold detail</u>				
1.9	Composite Item: Unreinforced in-situ concrete Grade 30	2	m		
	<u>Threshold Detail including all concrete, formwork, 2 number courses of 350 mm blockwork, insulation, cast insitu concrete upstand, reinforcement stepped DPC, all as per Architect's Drawings DR-A-1805 - rear door threshold detail</u>				
1.10	Composite Item: Unreinforced in-situ concrete Grade 30	2	m		
	<u>Composite Item: Bearing Pads</u>				
	<u>Reinforced in-situ concrete: Grade C35/45: vibrated; including reinforcement, fairfaced formwork, floated finish, etc to fully complete the works.</u>				
	Bearing pads to blockwork walls; bearing pads for steel beams; built into new blockwork walls				
1.11	150 x 100 x 100 mm deep;	22	nr		
	<u>CONCRETE WORK: Precast Concrete</u>				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
1	(21) EXTERNAL WALLS				(Continued)
	<u>Precast Concrete: in the following precast units with a smooth finish on all surfaces to standard BS BS5642-1, conformity to BS 8500-2mortar for bedding/jointing:cement gauged as section Z21: to standard BS EN 206-1.</u> <u>HD Prestressed Lintels: horizontal, weathered, bearing length min 200mm; to standard BS 845-2. Placement: Bed on mortar used for adjacent work. All as per architects specifications F31 and Drawing Nr. DR-E-1403</u> 100 x 150mm deep composite lintel				
1.12	900mm long	2	nr		
1.13	1300mm long	4	nr		
1.14	1800mm long	13	nr		
1.15	2300mm long	1	nr		
1.16	2800mm long	1	nr		
	<u>Precast Concrete: Precast concrete window cills shall be of approved manufacture to the dimensions shown on the drawings and complying with IS 89-1:1981 in respect of materials and workmanship</u> Cills				
1.17	900mm long	1	nr		
1.18	1300mm long	4	nr		
1.19	1800mm long	6	nr		
1.20	2800mm long	1	nr		
	<u>BRICKWORK AND BLOCKWORK: Blockwork</u> <u>Solid concrete blocks, nominal size 440 x 215 mm, minimum compressive strength 10N/mm2 to IS EN 771-3, mortar as section Z21 to standard BS EN 998-2, 1:1/2:4-4 1/2 cement:lime:sand. A s per architects specifications F 10</u> Walls				
1.21	100 mm thick	158	m2		
1.22	Extra over for 1 course thermalite block at floor level, 225 mm high; As per Architects Drawings	43	m		
1.23	Extra over for 1 course thermalite block at eaves level, 225 mm high; As per Architects Drawings	43	m		
	Labours				
1.24	On blockwork	1	item		
	<u>BRICKWORK AND BLOCKWORK: Brickwork</u> <u>Clay facing bricks to be 4 tone mix lbsotck Birtley Olde English Buff or equivalent for Architects Approval: Bricks are to be body coloured, wire cut, perforated,Size to be standard size 215mm x 102.5mm x 65mm. The durability designation of the bricks is to be F2. The soluble salt content is to be category S2. Bond strength in combination with mortar shall be declared either by means of tests carried out or from a declared value found in BXS 998-2, which is 45 N/mm2. The minimum compressive strength of the bricks is to be 60N/mm. The maximum water absorption of the bricks is to be =<9% by weight. The initial rate of suction for the bricks is 1kg/m2/min., coloured mortar to match brickwork, bucket handle joints to architects approval, laid in half lap stretcher bond with recessed joints as Architects specification F10/08 and Z21</u> Walls				
1.25	100 mm thick	21	m2		
	Extra over for:				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 5 – House Type C

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(21) EXTERNAL WALLS				(Continued)
1.26	Reveals	12	m		
	Labours				
1.27	On brickwork	1	item		
	<u>BRICKWORK AND BLOCKWORK: Ancillaries to Blockwork/Brickwork</u>				
	<u>Bed joint reinforcement -brickforce (brc) stainless steel bed joint reinforcement to b.s 5628 part 2. 3.58mm diameter main wires (fy = 460n/sq.mm) 2.50mm welded cross wires at 304mm ccs. Min. Lap 250mm staggered in alternate courses width 40mm less than nominal masonry width</u>				
	Walls				
1.28	100 mm wide	183	m		
	<u>Form 150 mm wide cavity between block/brick leaves with 110 mm proprietary PIR Partial Fill insulation, CE Marked and approved, DOP required. Class F fire rating. product to be certified by the British Board of Agreement, wall insulation slab with foil facings to both sides to achieve a thermal conductivity for external wall of 0.022 W/m.K, fix in 150 mm cavity with stainless steel wall ties to BS EN 845-1 with an integral device for holding the insulation in position, keep cavity clear of mortar droppings, allow for additional ties at 225mm centres at wall opes, movement joints, corners and canopy/balcony locations; All as per Structural Engineers and Architect's Specification Section F30</u>				
	Forming Cavities				
1.29	150 mm wide	86	m2		
	<u>Closing Cavities</u>				
	<u>Closing cavities at blockwork wall opes to reduce thermal bridging using insulated proprietary cavity closer system: full width of cavity during external leaf course work construction: must comply with BS 476-20:1987: installation as per manufacturers' instructions; cavity closer system to meet part B & L of Irish Building regulations. Manufacturers certified data to confirm minimum R-value of 4.30m2K/W. Supply and fit proprietary cavity closer to close 150mm wide cavity at any Eaves / raking verge. Closing of cavity to comply with Diagram 17 of TGD Part B. Refer to section F301/10 of specifications and architect's drawings DR-A-1801, 1802, 1803 & 1807 for details.</u>				
	Proprietary insulated cavity closer set at jambs; screw fixed				
1.30	150 mm wide.	61	m		
	Close top of cavity with 50mm thick proprietary insulated cavity closer				
1.31	140 mm wide.	39	m		
	Close top of sloping cavity				
1.32	140 mm wide.	10	m		
	<u>Damp Proof Courses</u>				
	Damp proof course; B.S 743; 1970; 150mm laps; no allowance in measurements for laps.				
1.33	Vertical set at jambs; <300mm wide.	48	m		
	Bituthene 4000 or equivalent Damp proof course; B.S 743; 1970; Hyload DPC or equivalent; 150mm laps; and seal in accordance with manufacturer's recommendations to form a gas and watertight joint. Ensure that dpc/ cavity tray overlaps damp proof membrane by not less than 150 mm.				
1.34	Horizontal under and at back of cill; 700 girth.	19	m		
	Cavity trays; fitted as per manufacturers instructions.				
1.35	Horizontal above lintel; 700 girth.	51	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 5 – House Type C

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(21) EXTERNAL WALLS				(Continued)
	<u>Designed Joints</u>				
	Movement joints; Polythene foam filler 85mm / 200mm wide and pointing with polysulphide sealant 15mm dep one side. To BS EN 140-3: 1995 and BS EN ISO 717-1:1997. Sealant to be installed in accordance with the manufacturer's recommendations. Sealant colour to architect's later approval to match brickwork. Form 10mm wide vertical movement joint in 100mm/ 215mm block wall; Include for wall ties at 225mm vertical centres at either side of joint.. All as Architects specification section F30 and Prepare joints and apply sealant as section Z22				
1.36	10 mm wide; 100 mm deep; vertical	13	m		
	<u>Sundries</u>				
	Leave ope in 100mm outer leaf of wall for ESB meter box				
1.37	490 x 690mm high.	1	nr		
	Leave ope in 100mm thick outer leaf of cavity wall for telecom box: include precast concrete lintels				
1.38	155 x 230mm high.	1	nr		
	Form or leave opening in cavity wall for services metering including lintels and associated items, refer to Architects drawing for details				
1.39	409 x 595	1	nr		
	Extra for:				
1.40	Meter cabinets	1	nr		
1.41	Telecom Cabinet	1	nr		
	<u>Barriers</u>				
	Cavity Fire barrier to have a 60 minute fire integrity/insulation, including 400mm wide strip of 2000g polythene damp proof course, fixed vertically at cavity junctions, All as Architects specification section F30 and indicated on drawing nr. DR-A1102 & 1105				
1.42	150mm thick, set vertically in cavity at party wall	9	m		
1.43	150mm thick, set horizontally in cavity at eaves level	39	m		
	<u>Ventilating Ducts</u>				
1.44	Form or leave opening in 350 mm cavity wall, manufacture to national approved manufacturer. Install across cavity, sloping away from inner leaf, bedding fully in mortar to seal cavity, all as Architects Masonry Specification and Building Regulations Part F. See Architects Spec F30/06.	8	nr		
	<u>Airtight Detail</u>				
	Airtightness, taping around door and window opes, sealed, accordance with the manufacturers instructions, to achieve airtightness				
1.45	Reveals and Heads	60	m		
	Airtightness, taping at junctions of walls to floors, sealed, accordance with the manufacturers instructions, to achieve airtightness of				
1.46	Floor junction abutting external wall/internal walls	128	m		
1.47	Floor junction abutting party wall.	9	m		
1.48	Junction at eaves.	39	m		
1.49	Junction at gables	10	m		
	<u>STEELWORK: Structural</u>				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 5 – House Type C

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(21) EXTERNAL WALLS				(Continued)
	Heavy Duty Galvanised steel lintel (Keystone SL/K or similar approved), to suit 100mm block outer leaf and 100mm block inner leaf.. refer to Structural Engineers Drawing DR-E-1403 for Details.				
	Steel Lintels.				
1.50	Steel Lintel to suit; Telecom Box, structural opening size 700mm wide; all as per manufacturers recommendations, include all associated fittings and seals, concrete bearing pads, bolting	1	nr		
1.51	Steel Lintel to suit; Window Type W05A, structural opening size 1300mm wide; all as per manufacturers recommendations, include all associated fittings and seals, concrete bearing pads, bolting	2	nr		
1.52	Steel Lintel to suit; External Door Type ED01, structural opening size 1800mm wide; all as per manufacturers recommendations, include all associated fittings and seals, concrete bearing pads, bolting	1	nr		
1.53	Steel Lintel to suit; External Door Type ED04, structural opening size 2300mm wide; all as per manufacturers recommendations, include all associated fittings and seals, concrete bearing pads, bolting	1	nr		
	<u>Refer to Engineers Drawings DR-E-1403 Allow for co-ordinating the erection of the steelwork in association with the other Sub-Contractor.</u>				
	<u>Galvanised Steel Beam: including for Galvanising, shot blasting etc to Engineers Specification</u>				
	Steel Lintols				
1.54	152 x 89 x 16kg/m (1nr)	0.10	tonne		
1.55	203 x 102 x 23kg/m (5nr)	0.40	tonne		
	<u>PAINTING AND DECORATING: Painting</u>				
	<u>Pre-Fabrication: Shot blast to Swedish Standard Sa 2 1/2 BS 4232; all as per Engineer's structural steel specification</u>				
	Protective coatings; off site				
1.56	General steelwork surfaces	0.50	tonne		
	<u>Steelwork shall be hot dip galvanised in accordance with the requirements of BS 729 (minimum 85 microns D.F.T.) Where galvanized steelwork is affected by white corrosion products they should be removed with a stiff brush. Immediately after galvanizing all steelwork should be treated with an etch primer</u>				
	Protective Coatings: off site				
1.57	General surfaces	0.50	tonne		
	<u>Nullifire S-620 High Build Zinc phosphate or equivalent intumescent paint; to provide one hour fire resistance in accordance with BS 476-21; applied in strict accordance with the manufacturer's instructions; all as per Architect's Specification</u>				
1.58	Structural surfaces				
1.59	General surfaces; not exceeding 300mm girth	11.70	m2		
	Other Items				
1.60	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(21) EXTERNAL WALLS				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 5 – House Type C
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

1	(21) EXTERNAL WALLS				(Continued)
	COLLECTION Page 1: Page 2: Page 3: Page 4: Page 5: (21) EXTERNAL WALLS Carried to Summary:				

Project: Donohill, Tipp

Details: BQ 5 – House Type C

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
2	(22) INTERNAL WALLS, PARTITIONS				
	(22) INTERNAL WALLS, PARTITIONS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
2.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
2.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
2.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
2.4	NOTES				
2.5	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	CONCRETE WORK: Precast Concrete				
	<u>Precast Concrete: HD Prestressed PC Lintel BS BS5642-1, conformity to BS 8500-2mortar for bedding/jointing:cement gauged as section Z21: to standard BS EN 998-2.Aggregates used shall be free from pyrite or other impurity Bed on mortar used for adjacent work with bearing of not less than 150 mm unless specified otherwise. Refer to Engineer's specification and details.</u>				
	100 x 70mm Lintels				
2.6	1250mm wide	8	nr		
2.7	1800mm wide	1	nr		
	<u>BRICKWORK AND BLOCKWORK: Brickwork/Blockwork</u>				
	<u>Solid concrete blocks, nominal size 440 x 215 mm, minimum compressive strength 10N/mm2 to IS EN 771-3, mortar as section Z21 to standard BS EN 998-2, 1:1/2:4-4 1/2 cement:lime:sand. A s per architects specifications F10</u>				
	Walls				
2.8	100 mm thick.	103	m2		
	Party Wall				
2.9	100 mm thick.	33	m2		
	<u>BRICKWORK AND BLOCKWORK: Ancillaries to Brickwork/ Blockwork</u>				
	<u>Form 150 mm wide cavity between block/brick leaves with 110 mm proprietary PIR Partial Fill insulation, CE Marked and approved, DOP required, Class F fire rating, product to be certified by the British Board of Agreement,wall insulation slab with foil facings to both sides to achieve a thermal conductivity for external wall of 0.022 W/m.K, fix in 150 mm cavity with stainless steel wall ties to BS EN 845-1 with an integral device for holding the insulation in position, keep cavity clear of mortar droppings,allow for additional ties at 225mm centres at wall opes, movement joints, corners and canopy/balcony locations; All as per Structural Engineers and Architect's Specification Section F30</u>				
	Forming Cavities				
2.10	150 mm wide	33	m2		
	<u>Closing Cavities</u>				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
2	(22) INTERNAL WALLS, PARTITIONS				(Continued)
	<u>Closing cavities at blockwork wall opes to reduce thermal bridging using insulated proprietary cavity closer system: full width of cavity during external leaf course work construction; must comply with BS 476-20:1987: installation as per manufacturers' instructions; cavity closer system to meet part B & L of Irish Building regulations. Manufacturers certified data to confirm minimum R-value of 4.30m2K/W. Supply and fit proprietary cavity closer to close 150mm wide cavity at any Eaves / raking verge . Closing of cavity to comply with Diagram 17 of TGD Part B. Refer to section F301/10 of specifications and architect's drawings DR-A-1801, 1802, 1803 & 1807 for details.</u> Close top of sloping cavity 2.11 150 mm wide. <u>Damp proof course: BS 743; bitumen felt</u> Damp proof course; B.S 743; 1970; : Bitumen hession based damp proof course to BS 6398 or I.S. 57. No allowance in measurements for laps. 2.12 100 mm wide under blockwork. <u>Barriers</u> Cavity Fire barrier to have a 60 minute fire integrity/insulation, including 400mm wide strip of 2000g polythene damp proof course, fixed vertically at cavity junctions, All as Architects specification section F30 and indicated on drawing nr. DR-A1102 & 1105 2.13 150mm thick, set sloping in cavity at party wall Other Items 2.14 Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)				
	(22) INTERNAL WALLS, PARTITIONS				

To Collection

Project: Donohill, Tipp	Details: BQ 5 – House Type C
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

2	(22) INTERNAL WALLS, PARTITIONS				(Continued)
	COLLECTION Page 7: Page 8: (22) INTERNAL WALLS, PARTITIONS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 5 – House Type C

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
3	(27) ROOFS				
	(27) ROOFS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
3.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
3.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
3.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
3.4	NOTES				
3.5	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
3.6	Contractor designed Trussed Roof in accordance with requirements set out on the Structural Engineers Drawings and the Specification, The information included in the Engineers Tender Documents is background information only and needs to be supplemented by the Contractor to facilitate the full design and construction of the Trussed Roof by the contractor specialist subcontractor. Allow in this item for providing the additional items required by the specialist subcontractor to complete the roof works including any special fixings, timbers etc. they may require	1	item		
3.7	Contractor to include for any overhang's to joists as per Architects details and manufacturer requirements including any on site alterations/trimming back as necessary	1	item		
	<u>WOODWORK: Structural & First Fixings</u>				
	<u>Pre-fabricated</u>				
	<u>Pre-Fabricated Trussed rafters, roof trusses and the like; Refer to Engineers Drawings Nr. 2798-HLA-00-ZZ-DR-E-1405</u>				
3.8	Roof truss design, materials and workmanship shall conform to B.S 5268 Part 2 or I.S 444; the trussed rafter design and construction shall conform to IS193;				
3.9	Truss, profile as Structural Engineers Detailed Drawings (Roof Plans) and associated notes & Specification, fixed at 600 mm centers, roof pitch as indicated; hoisting and fixing at approx 5.00m above ground floor level. Trusses to be designed, fabricated and erected in accordance with EN 1995;				
3.10	Truss Type T1; 7800mm clear span; 1 ply	22	nr		
3.11	Truss Type T2; 7800mm clear span; 1 ply	3	nr		
3.12	Truss Type T3; 2100mm clear span; 1 ply	2	nr		
3.13	Truss Type T4; 930mm clear span; 1 ply	1	nr		
3.14	Truss Type T5; 930mm clear span; 1 ply	2	nr		
3.15	Truss Type T6; 1450mm clear span; 1 ply	3	nr		
3.16	Truss Type T7; 1450mm clear span; 1 ply	2	nr		
3.17	Truss Type T8; 848mm clear span; 1 ply	4	nr		
	<u>Pitched Roof; Sawn white deal, vacuum pressure impregnated; stress graded C16</u>				
	Water tank supports.				
3.18	100 x 44 mm spreader beam.	24	m		
3.19	150 x 75 mm secondary bearer.	12	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
3	(27) ROOFS				(Continued)
3.20	100 x 44 mm primary bearer.	12	m		
3.21	1500 mm wide x 750 mm high Tank Truss Frame; Forming Tank truss frame as shown on Engineers drawings, including all associated timbers, splices, fixings, fittings, truss shoes..	1	nr		
	Carcassing				
3.22	225x44mm; purlins	12	m		
3.23	225x44mm; binders	27	m		
3.24	100 x 25mm; truss ties	26	m		
3.25	97 x 22mm; longitudinal ties	48	m		
	<u>Wall plate: 100 x 75mm pressure impregnated treated timber. Strapped to inner leaf with galvanised 3x50mm bat straps @1200mm c/c - 800mm long</u>				
	Wall Plate; 100 x 75mm pressure impregnated treated timber.				
3.26	100 x 75mm	39	m		
	<u>19mm thick WBP plywood; laid on timber joists</u>				
	Boarding & Sheeting				
3.27	>300mm wide, attic storage area.	16	m2		
3.28	650mm girth; valley board	16	m		
3.29	> 300mm wide: soffit	49	m		
3.30	< 300mm fascia	49	m		
	<u>WOODWORK: Ironmongery, Accessories and Sundries</u>				
	<u>Insulation Materials: 400mm mineral wool, 2 layers(200 + 200mm) cross laid. Isover Spacesaver roll or similar; thermal conductivity 0.044W/mK</u>				
	Thermal				
3.31	400 mm thick mineral wool insulation as per Architects Specification	109	m2		
	Insulation to water tank				
3.32	150 mm thick pvc wrapped fibreglass quilt around and over tank	4	m2		
	<u>Accessories</u>				
3.33	Galvanised steel L straps 5 x 30 x 1200mm long, screwed to wall plate and fixed to block wall with HPS nylon plug anchors.	1	nr		
3.34	Ditto 5 x 30 x 1600mm long screwed to 3 No trusses and fixed to block wall ditto.	30	nr		
3.35	Ditto 5 x 30 x 1000mm long, screwed to timber trusses and noggings.	7	nr		
3.36	Galvanised steel truss fixing clip "Bat" or equal approved, fixed to plate and truss in accordance with manufacturers instructions.	65	nr		
	Other Items				
3.37	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(27) ROOFS				

To Collection



Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

3 (27) ROOFS

(Continued)

COLLECTION

Page 10:

Page 11:

(27) ROOFS

Carried to Summary:

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
4	(31) EXTERNAL WALLS COMPLETIONS				
	(31) EXTERNAL WALLS COMPLETIONS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
4.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
4.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
4.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
4.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects Drawings		note		
4.5	NOTES				
4.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
4.7	This element has been measured from the relevant Architects Drawings together with the Engineers Drawings		note		
4.8	Dimensions provided are indicative, all dimensions should be measured on-site and agreed with the Architect/Employers Representative, before manufacturing begins		note		
4.9	The window system must have the following test certificates available for inspection, air filtration, water penetration, wind resistance, weather tightness. The test procedures are based on British standards, but may be altered prior to testing to meet European standards and procedures		note		
4.10	Where Permavents are outlined, these are to comply with Architects Specifications and achieve a minimum Air tightness as specified		note		
4.11	Tipperary County Council will require that the supplier of the windows demonstrates the elemental U-value of each window shown on the window and door schedule and that their window meets or exceeds the minimum requirement of Technical Guidance Document L. The U-Value calculation will not consider the window in isolation, but will include the BER rated foam to seal gaps in the opening		note		
4.12	The windows and their openings will be made airtight. The Contractor must submit Window and door independent Accredited Approval from the Manufacturer as highlighted on Drawing DR-SC-1601		note		
	<u>WOODWORK: Structural and First Fixings</u>				
	<u>Softwood to B.S. 1186: Red Deal; Class CSH Architects Specification Z10; wrought; moisture content at time of fixing not exceeding 13%; fixed to blockwork on and including softwood bearers or packers as necessary; plugged, screwed and pelleted at 600mm centres; routed to prevent warping; all as per Architects detailed drawings</u>				
4.13	First Fixings				
4.14	34 x 44mm; cut	35	m		
	<u>WOODWORK: Boarding and Second Fixings</u>				
	<u>MDF Windowboard; wrought; selected to BS 1186-3: quarter rounded edging; Fix to softwood grounds with lost head nails at 600 mm centres. Prepared and primed as section M60. As per architects specification P20/200</u>				
	Window boards				
4.15	200 x 30 mm thick	19	m		
	<u>METALWORK: Non-Structural</u>				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 5 – House Type C

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
4	(31) EXTERNAL WALLS COMPLETIONS				(Continued)
	<u>Composite Items</u>				
	<u>PVC-U Windows: triple glazed tilt and turn windows, to provide an maximum U -Value of 1.2 W/m2K. CE marked and resistance tested to BS EN 14351-1 and BS 7412. Ironmongery to be included. Espagnolette lock. Restrictor Trickle ventilator Locking handle. Espagnolette lock. Fire egress: Manufacturer's standard restrictors to be removable and opening section designed in accordance with TGD Part B of Building regs; all in accordance with the Architects Drawing Nr 2701-HLA-ZZ-00-DR-SC-1601 specification Section L10.</u>				
	Windows				
4.16	W01; 2345mm wide x 1950mm high,	1	nr		
4.17	Extra Over; Window Restrictors	1	nr		
4.18	W03a; 1445mm wide x 1430mm high,	5	nr		
4.19	Extra Over; Window Restrictors	5	nr		
4.20	W04a; 545mm wide x 1150mm high	1	nr		
4.21	Extra Over; Window Restrictors	1	nr		
4.22	Extra Over; Frosted Glazing	1	nr		
4.23	W05a; 945mm wide x 1430mm high,	3	nr		
4.24	Extra Over; Window Restrictors	3	nr		
4.25	W06: 1445mm wide x 1100mm high,	1	nr		
4.26	Extra Over; Window Restrictors	1	nr		
4.27	W07: 945mm wide x 1100mm high,	1	nr		
4.28	Extra Over; Window Restrictors	1	nr		
	<u>Composite Items</u>				
	<u>GRP External door with triple glazing; Minimum 70mm thick engineered door leaf. Complete with high quality ironmongery to BS EN 942. Munster joinery ultratech or equivalent. FD30 Fire Rated. 3 point lock heavy duty handles. Min U-Value 1.1W/m2K. Doors to come complete with level access threshold, 5 point locking system with internal thumb or other easily opeable mechanism. Color to be selected. L20/270 in accordance with drawing NR 2701-HLA-ZZ-00-DR-SC-1601 & Specification Section L10.</u>				
	-				
	Single Door & Sidelight complete; overall size				
4.29	1445mm wide x 2100mm high including full length fixed side panel	1	nr		
	<u>GRP External door with triple glazing; Rear Door, Multi chamber foam insulated uPVC Double Door certified to BS EN 12608. 90mm profile system. extruded from a high impact strength modified PVC compound. Single door, U value 1.2w/m²k. Glazing: triple glazed, argon filled units. Clear glass, All glazing to be toughened. Door to be internally beaded with triple glazed units. Units to be 90% Argon gas filled with warm edge space bar and have a light transmission of 80% or more. Glass thickness to comply with BS6262. Safety glass to critical areas to meet the requirements of BS6180, BS6399 and part K & D of the building regulations. All glazing units to be certified to BS EN 1279 part 2 and 3. Exposure Category: 1200Pa to BS6375 Part 1 Security: PAS24:2016 Operation and Strength: BS6375-2:2009 Threshold: low level threshold Finish:RAL to match window, include for heavy duty lift off hinges 5 point multi locking system, EPDM weatherseal. Colour to be selected. L10/20. refer to Architects Drawings 2798-HLA-ZZ-00-DR-SC-1601</u>				
4.30	1845mm wide x 2100mm PVC double door Exitex threshold, 5 point lock heavy duty handles	1	nr		
	<u>WOODWORK: Ironmongery, Accessories and Sundries</u>				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 5 – House Type C
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

4	(31) EXTERNAL WALLS COMPLETIONS				(Continued)
	<u>Supply and fit the following ironmongery in accordance with Architects Specification</u>				
	Door Number				
4.31	89mm high polished chrome face fixing numerals fixed in accordance with manufactures instructions, to Architects approval, refer to HLA Schedule of Items document	1	nr		
4.32	Night Latch to front door as specified	1	nr		
	<u>Wall mounted stainless steel letterbox fixed to blockwork/brickwork wall, refer to Architectes Specification and HLA Schedule of Items document</u>				
	Letterbox				
4.33	318mm high x 360mm wide x 115mm deep	1	nr		
	<u>PAINTING AND DECORATING: Painting</u>				
	<u>Second Fixings</u>				
	Prepare and apply one coat of aluminium type 2 wood primer, one undercoat and two finishing coats to Architects approval				
4.34	Windowboards; not exceeding 300mm girth	19	m		
	Other Items				
4.35	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(31) EXTERNAL WALLS COMPLETIONS				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 5 – House Type C
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

4	(31) EXTERNAL WALLS COMPLETIONS				(Continued)
	COLLECTION Page 13: Page 14: Page 15: (31) EXTERNAL WALLS COMPLETIONS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
5	(32) INTERNAL WALLS COMPLETIONS				
	(32) INTERNAL WALLS COMPLETIONS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
5.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
5.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
5.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
5.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects Drawings.		note		
5.5	NOTES				
5.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>WOODWORK: Boarding and Second Fixings</u>				
	<u>Second Fixings</u>				
	Architrave; White deal with bullnosed leading edges; Refer to Architects Specification L20 Drawing 2798 HLA ZZ 00 DR SC 1602				
5.7	75 x 25mm; bullnosed	94	m		
	<u>WOODWORK: Composite Items</u>				
5.8	Refer to Architects Door and Ironmongery Schedule for Door Tyes and Architects Specification Section L20				
5.9	Refer to the construction details, for sizes and profiles of members, construction of door leafs and frames, glazing specification, vision panels and the like				
5.10	The unit rates are to allow for door leaves, frame jambs and head, 44 x 15mm door stop, mullions, transomes, fanlights, glazing beads, glazing, fixing to blockwork and sealing in accordance with the Specification and Drawings. All doors to include for a flexible vinyl seal rebated into the door frame to achieve a sound reduction value of 30dB unless otherwise stated				
5.11	Seal junction of FD30S/FD60s frame and structure with intumescent pointing in selected colour to form a 3 x 10mm sealed joint with fair concave edge				
5.12	Door widths to habitable rooms to be accordance with TGD Part M (latest edition) primarily 800mm clear width				
	<u>Doors with associated frames</u>				
	<u>44mm European red wood veneered shaker style pre finished doors as agreed with the architect. Doors shall include for 115 x 50mm rebated door frame to class J30 as specified in BS EN 942.</u>				
	Fire Rated Single doors and associated frame set - FD30				
5.13	Single door set to suit structural ope size 950 x 2100 mm high (D01)	8	nr		
5.14	Double door set to suit structural ope size 1500 x 2100 mm high (D02)	1	nr		
	<u>WOODWORK: Ironmongery, Accessories and Sundries</u>				
	<u>Supply and fit the following ironmongery in accordance with Architects Specification</u>				
	Ironmongery Set, Satin finished stainless steel; fixed to fire rated timber doors, comprising:				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
5	(32) INTERNAL WALLS COMPLETIONS				(Continued)
5.15	ZHS43CP Ball Bearing Hinges Steel 102 x 76 x 3mm to EN1935 as per Architects Specification.	30	nr		
5.16	Lock ZUKS564SS; 64mm C/W PVD forend and strike	7	nr		
5.17	Bathroom Lock ZUKB64SS; 64mm C/W PVD forend and strike	2	nr		
5.18	Lever Handle FB030CP (as a pair). 19mm return to door lever on round rose	9	nr		
5.19	Escutcheon FB52CP (as a pair); Standard profile	7	nr		
5.20	Bathroom Indicator/Turn & Release ZCZ004CP; Turn and release on round rose	2	nr		
5.21	Floor fixed doorstep.	9	nr		
5.22	Overhead cam action door closer	9	nr		
5.23	Interdens Bases Intumescent KCC lock protector	9	nr		
5.24	Intumescent hinge plate protector	9	nr		
5.25	Intumescent Pack	9	nr		
	<u>PAINTING & DECORATING: Painting</u>				
	<u>Prepare and apply one coat of Primer - Undercoat, two undercoat and one finishing coat of Acrylic Gloss, or equivalent, on the following wood surfaces:</u>				
	Doorsets				
5.26	Exceeding 300 mm wide	41	m2		
	Architraves				
5.27	Not exceeding 300 mm wide	94	m		
	<u>Prepare and apply one coat of Primer - Undercoat, two undercoat and one finishing coat of Acrylic Gloss, or equivalent, on the following wood surfaces:</u>				
	General Surfaces				
5.28	Frames; not exceeding 300 mm wide	47	m		
	Other Items				
5.29	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(32) INTERNAL WALLS COMPLETIONS				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 5 – House Type C
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

5	(32) INTERNAL WALLS COMPLETIONS				(Continued)
	COLLECTION Page 17: Page 18: (32) INTERNAL WALLS COMPLETIONS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 5 – House Type C
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
6	(36) ROOF COMPLETIONS				
	(36) ROOF COMPLETIONS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
6.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
6.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
6.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
6.4	For layout, elevations and details refer to Hasset and Leyden & Associates Architects Drawings		note		
6.5	NOTES				
6.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>WOODWORK; Composte Item</u>				
	<u>Attic Hatch</u>				
	<u>Proprietary attic access hatch; Model No. 1000 BF/PL, or equivalent and approved. Frame is exposed incorporating a simulated dry wall edge; panels are powder coat finish all over ; airtight sealing system to match U-Value of ceiling system; all in accordance with Architects Specification Section L20 630</u>				
	Access Hatch, airtight to suit ope size				
6.7	600 x 600mm wide	1	nr		
	Other Items				
6.8	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(36) ROOF COMPLETIONS				

To Collection



Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

6 (36) ROOF COMPLETIONS

(Continued)

COLLECTION

Page 20:

(36) ROOF COMPLETIONS
Carried to Summary:

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
7	(41) WALL FINISHES EXTERNALLY				
	(41) WALL FINISHES EXTERNALLY				
	<u>Generally</u>				
	<u>INFORMATION</u>				
7.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
7.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
7.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
7.4	For layout, elevations and details refer to Hasset & Leyden & Associates Architects Drawings		note		
7.5	NOTES				
7.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>FLOOR, WALL AND CEILING FINISHES: In-Situ Finishes</u>				
	<u>K Rend Scraped finish or similar , applied in accordance with manufactures instructions, include for all angles, beads, dividing strips and the like; composition and application in full accordance with manufacturer's instructions; in accordance with the Architects Specification Section M20</u>				
	Walls; to blockwork surfaces; externally				
7.7	> 300mm wide	66	m2		
	Reveals; smooth; girth				
7.8	< or = 150mm.	49	m		
	Plinth; smooth; girth				
7.9	150mm - 300mm.	39	m		
	<u>Sundries: Beads</u>				
	<u>Stainless steel bead or equivalent to be installed, in accordance with the manufacturers specifications</u>				
7.10	Belcast	39	m		
7.11	Angle Bead.	54	m		
7.12	Stop beads.	49	m		
7.13	Designed expansion joint in render coinciding with movement joints in background.	13	m		
	<u>Form movement joints with stainless steel stop bead edgings to both sides of the external walls movement joints location, stop beads, expamet or equivalent installation, centered over joint in substrate, fixed with stainless steel screws, joint width, to suit that of structural movement joint in background. Sealant colour to architect's later approval to match brickwork. Prepare joints and apply sealant as section Z22. Preparation and application as per Architects specification F30/18.</u>				
	Movement Joints				
7.14	Vertical; 6mm wide	13	m		
	<u>PAINTING AND DECORATING: Painting</u>				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 5 – House Type C
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

7 (41) WALL FINISHES EXTERNALLY (Continued)

	<u>Matt External Emulsion Paint ,or equivalent, external painting system, include for cleaning surface, apply one initial coat and two finishing coats to selected colour; all in accordance with Architects Specification Section M60</u>				
	Walls				
7.15	>300mm wide	66	m2		
	Reveals; smooth; girth				
7.16	< or = 150mm.	49	m		
	Plinth; smooth; girth				
7.17	150mm - 300mm.	39	m		
	Window cills; girth				
7.18	250mm - 500mm.	16	m		
	Other Items				
7.19	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(41) WALL FINISHES EXTERNALLY				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 5 – House Type C
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

7	(41) WALL FINISHES EXTERNALLY				(Continued)
	COLLECTION Page 22: Page 23: (41) WALL FINISHES EXTERNALLY Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
8	(42) WALL FINISHES INTERNALLY				
	(42) WALL FINISHES INTERNALLY				
	<u>Generally</u>				
	<u>INFORMATION</u>				
8.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
8.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
8.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
8.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects Drawings		note		
8.5	NOTES				
8.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>FLOOR WALL AND CEILING FINISHES: Board Finishes: Drylining</u>				
	<u>12.5mm Plasterboard fixed to and including 45 x 45mm treated timber battens spaced at 400mm centres with absorbing quilt insulation in void between plasterboard and 215mm party wall: complete with painted skim finish: dot and dabbed fix, tape jointed and skim coated to finish, refer to Architects Drawing Nr 2798-HLA-00-ZZ-DR-A-1103 and Specification Section K10, all in accordance with manufacturers instructions.</u>				
	Walls				
8.7	Exceeding 300mm wide	22	m2		
	<u>FLOOR, WALL AND CEILING FINISHINGS: In-situ finishes</u>				
	<u>Plaster, first coat of scud coat 1:2, second coat of scratch coat 1:1:6 and third coat of gypsum plaster finish, 2mm thick; to blockwork base: applied in accordance with BS 5492:2006; including for all "Expamet" or equivalent stainless steel angle and stop beads; in accordance with Architects Specification Section M20</u>				
	Walls;				
8.8	Exceeding 300mm wide.	289	m2		
8.9	Not exceeding 300mm wide; to reveals	61	m		
	<u>FLOOR, WALL AND CEILING FINISHINGS: Tile, Slab or Mosaic finishes</u>				
	<u>Kitchen Splashback: Glazed ceramic wall tiles shall be flat gloss 150mm x 150mm tiles complying with BS EN 14411 and shall be of the colours selected by the Architect. Tiles shall be fixed with adhesive by the thin bed method and shall be wiped clean and fixed dry. Use Proprietary PVC edge strips to match tile at external corners and installed in accordance with the manufacturers instructions; all as Architects Specification Section M40/110A.</u>				
	Walls				
8.10	Exceeding 300mm wide: Splashback to Kitchens	4	m2		
	<u>Glazed ceramic wall tiles shall be 150mm x 150mm x 6mm tiles complying with BS EN 14411 and shall be of the colours selected by the Architect. Tiles shall be fixed with adhesive by the thin bed method and shall be wiped clean and fixed dry. The tiles shall be bedded with straight joints not exceeding 3 mm wide to approved finished sample and colour. Use Proprietary PVC edge strips to match tile at external corners and installed in accordance with the manufacturers instructions, all as Architects Specification section M40/110B.</u>				
	Walls				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
8	(42) WALL FINISHES INTERNALLY				(Continued)
8.11	Exceeding 300mm wide. : Bathrooms	24	m2		
8.12	Not Exceeding 300mm wide; splashback	1	m2		
	Labours on Tiling				
8.13	Cut and make good around obstruction not exceeding 300 mm girth.	5	nr		
8.14	Ditto 300 mm - 1.00 m girth.	3	nr		
8.15	Ditto 1.00 - 2.00 m girth.	1	nr		
8.16	Seal junction between wall tiling and sanitary fittings, built-in fittings in selected colour to form a 6mm joint with fair concave edge.	20	m		
8.17	stainless steel tile trim.	5	m		
	<u>PAINTING AND DECORATING: Painting</u>				
	<u>Prepare and apply one initial coat, and two finishing coats of approved mid sheen vinyl emulsion paint as Architects Specification Section M60</u>				
	Walls				
8.18	Exceeding 300mm wide.	289	m2		
8.19	Not exceeding 300mm wide; reveals.	61	m		
	Other Items				
8.20	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(42) WALL FINISHES INTERNALLY				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 5 – House Type C
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

8	(42) WALL FINISHES INTERNALLY				(Continued)
	COLLECTION Page 25: Page 26: (42) WALL FINISHES INTERNALLY Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 5 – House Type C

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
9	(43) FLOOR FINISHES				
	(43) FLOOR FINISHES				
	<u>Generally</u>				
	<u>INFORMATION</u>				
9.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
9.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
9.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
9.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects and Civil Engineers Drawings		note		
9.5	NOTES				
9.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
9.7	Contractor is to include within the rates for any works associated with achieving the required moisture content in concrete floors prior to laying floor finishes		note		
	<u>CONCRETE WORK: In-situ Concrete</u>				
	<u>Include for any works associated with achieving the required moisture content in concrete floors prior to laying floor finishes.</u>		note		
	Achieving Moisture Content				
9.8	Concrete Powerfloat Finish	111	m2		
	<u>FLOOR, WALL AND CEILING FINISHINGS: In Situ Finishes</u>				
	<u>Prepare and apply mixed self levelling compound or equivalent, to concrete floors, 1 number coat: 3mm thick, all in accordance with manufacturers instructions and Architects Specification.</u>				
	Floor Levelling Compound				
9.9	Floors; over 300mm wide	111	m2		
	<u>FLOOR, WALL AND CEILING FINISHINGS: In Situ Finishes</u>				
	<u>Two part component waterproof system containing a 1mm butyl based self-adhesive waterproof floor membrane with a fabric top layer suitable for solid floors. all floors to be primed before application of membrane. Allow for 125mm self-adhesive hdpe butyl reinforcing tape and gun applied jointing compound to all wall and floor junctions, butt joints and other detail work within the membrane. All walls to shower areas only to receive 1mm thick brush applied flexible wall membrane to a minimum height of 2200mm and overlapping with reinforcing tape at floor junction. Floors and walls in wc/shower room to be prepared to take tile finish as per spec, all in accordance with manufacturer's instructions and as per Architects Specification J30.</u>				
	To Walls & Floors				
9.10	> 300mm wide	31	m2		
	<u>WOODWORK: Boarding Second Fixings</u>				
	<u>Second fixings: softwood skirting, plugged and screwed to blockwork with screw heads countersunk and pelltated at 450mm centres to BS 1186-3: as per Architects Specification P20</u>				
	Skirtings				
9.11	150 x 19mm softwood skirting,	123	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
9	(43) FLOOR FINISHES				(Continued)
9.12	Extra over for Short lengths. WOODWORK: Ironmongery, Accessories and Sundries <u>Silicone/caulk sealant at junction of skirting and wall; gun applied; finish smooth; colour and quality of sealant to Architects selection.</u> Sealing	12	nr		
9.13	Width of seal not exceeding 10mm FLOOR, WALL AND CEILING FINISHINGS: Floor Tiling <u>Floor tiles: R12 Beige porcelain tiles matt finish; 300 x 400 x 10mm thick complying with BSEN 12057; tiles shall be fixed with a thick bed of adhesive CG2 classification, the tiles shall be bedded with straight joints to the approved finished sample and colour as Architects Specification M40</u> Floors; to concrete base	123	m		
9.14	> 300m wide; horizontal to Kitchen	11	m2		
9.15	> 300m wide; horizontal to Bathroom & WC PAINTING AND DECORATING: Painting <u>Prepare and apply one coat of primer undercoat, undercoats as directed by manufacturer. Finishing coat of acrylic based Gloss (White), or equivalent, on the following wood surfaces:</u> Skirtings	9	m2		
9.16	General surfaces not exceeding 300 mm wide;	123	m		
9.17	Ditto short lengths Other Items	12	nr		
9.18	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below) (43) FLOOR FINISHES	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 5 – House Type C
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

9	(43) FLOOR FINISHES				(Continued)
	COLLECTION Page 28: Page 29: (43) FLOOR FINISHES Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
10	(45) CEILING FINISHES				
	(45) CEILING FINISHES				
	<u>Generally</u>				
	<u>INFORMATION</u>				
10.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
10.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
10.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
10.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects Drawings		note		
10.5	NOTES				
10.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>WOODWORK: Structural and First Fixings</u>				
	<u>34 x 44mm treated softwood battens, battens fixed to ceiling joist / truss members spaced at 300 mm maximum centres with galvanised wire nails</u>				
	First Fixings				
10.7	Exceeding 300mm Wide	111	m2		
	<u>WOODWORK: Ironmongery, Accessories and Sundries</u>				
	<u>Isover Vario KM Duplex intelligent membrane or equivalent; to be stapled to underside of joints and taped at all lapped joints using siga sicrall tape or equivalent to ensure airtight envelope as per TGD Part L 2011. To underside of roof trusses and taping to all perimeter walls</u>				
	Sundries				
	Seals				
10.8	Exceeding 300mm Wide; To underside of roof trusses	111	m2		
	<u>FLOOR WALL AND CEILING FINISHES: In-Situ Finishes</u>				
	<u>Plaster: Gypsum skim coat plaster; smooth finish; 1-5mm thick; to plasterboard base. CE to be marked and approved. all as per Architects Specification Section M20 clause 220A.</u>				
	Ceilings				
10.9	> 300mm wide; Horizontal	111	m2		
	Making good and labour finishing skim coat around pipework 0.30 - 1.00m girth				
10.10	300 - 1000mm girth.	12	nr		
	<u>FLOOR, WALL AND CEILING FINISHINGS: Board finishes</u>				
	<u>15 mm thick Type A plasterboard to BS EN 520. Screws to be recommended by the manufacturer. Moisture resistant plasterboard to be used in wet areas; refer to Architects Specification; all in accordance with manufacturers instructions refer to Architects Specification K10. allow for Fire stopping around service penetrations as section P12.</u>				
	Ceilings				
10.11	Over 300mm wide; Horizontal	111	m2		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 5 – House Type C
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

10	(45) CEILING FINISHES				(Continued)
10.12	Extra over for: Moisture resistant board.	16	m2		
10.13	Making good and labour finishing including jointing 15mm plasterboard around pipework 300 - 1000mm girth <u>PAINTING AND DECORATING: Painting</u> <u>Prepare and apply one initial coat, and two finishing coats of approved Trade Matt Vinyl Emulsion paint as Architects Specification Section M60</u> Ceilings	5	nr		
10.14	over 300mm wide; to plaster base	111	m2		
10.15	Other Items Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below) (45) CEILING FINISHES	1	item		
To Collection					

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 5 – House Type C
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

10 (45) CEILING FINISHES (Continued)

	COLLECTION Page 31: Page 32: (45) CEILING FINISHES Carried to Summary:				
--	---	--	--	--	--

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
11	(47) ROOF FINISHES				
	(47) ROOF FINISHES				
	<u>Generally</u>				
	<u>INFORMATION</u>				
11.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
11.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
11.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
11.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects Drawings		note		
	<u>NOTES</u>				
11.5	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>ROOFING, CLADDING AND WATERPROOFING: Slate & Tile Roofing</u>				
	<u>Concrete roof slate, 420mm x 334mm: selected Milford Slate Grey Ref 1532 suggested supplier Morrissey Roof Tiles, smooth finish flat leading edge roof tile, manufactured to EN 490:2011. Treated battens at 245mm c/c. Minimum Headlap 110mm Maximum Batten Gauge 400mm as per architect's specification document; Fittings/ fixings should be fitted in accordance with the Irish Code of Practice for Slating and Tiling; in accordance with Specification H65.</u>				
	Coverings; not exceeding 45 degree pitch				
11.6	Sloping; over 300mm wide	159	m2		
11.7	Extra; Thru-vent roof ventilation slate with PVC underlay installed in accordance with manufacturers instructions	4	nr		
	Ridge				
11.8	Ridge tile to be universal concrete angle ridge; in 450mm effective lengths; NWA Universal Ridge kit DRUA02 Antracite; butt jointed, mechanically fixed with proprietary fixings as per Specification	24	m		
	<u>ROOFING, CLADDING AND WATERPROOFING: Rigid Sheet Coverings and Decking</u>				
	<u>Proprietary fascia ventilator Fix to close underside of first course tiles.; First course tiles: Fix with tails projecting 50 mm over gutter or to centre of gutter. Airway: the equivalent of a continuous opening of not less than 10mm for full length of eaves, all as per Architect's Drawings include for eaves skirt/tray to prevent sagging, refer to Specifications Section H65</u>				
	Eaves ventilators				
11.9	17.5 mm x 13.5 mm wide	49	m		
	<u>Rows of ventilator roll to be laid over the rafters before laying roofing underlay.</u>				
	Rafter Roll				
11.10	300 mm wide	10	m		
	<u>Rolled lead to : Flashings BSEN588:2006 Code 5 Refer to Architects Specification H71; Flashings to be treated with patination oil as L.S.A manual to reduce staining.</u>				
	Flashings				
11.11	2.24 thick flashings; 250mm girth; bends - 1; junction with adjoining house	10	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 5 – House Type C
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
11	(47) ROOF FINISHES				(Continued)
11.12	2.24 thick flashings; 250mm girth; bends - 1; junction at gable end <u>Aluminium dry verge unit fixed to timber backing installed with system fixing accessories in strict accordance with the manufacturers instructions</u> Dry Verge; sloping	6	m		
11.13	not exceeding 300mm wide <u>WOODWORK: Boarding and Second Fixings</u> <u>Fascia and soffits: COLOUR RAL 7001. Fascia 8 mm thick minimum, moulded, height to suit approx. 325 mm; bracket fixed at 915mm centres and at each fitting using number 12x38mm.SOFFIT BOARD 10 mm thick hollow extrusion T&G. All holes to be filled, sealed and sanded; continuous sealant, compatible with external finish, to interface with structure</u> Fascia & Soffitt board	10	m		
11.14	Not exceeding 300 mm wide. <u>METALWORK: Non-Structural</u> <u>PVC Eavesline Fascia and Soffit; to selected colour; 325mm x 8mm thick plain fascia, & 75mm soffit or equivalent, fixed to and including 50 x 50 treated timber batten fixed to blockwork wall,include for all fittings, seals, trims, bolts and fixings</u> Sheeting; Expanded Metal Fascia board	49	m		
11.15	Not exceeding 300 mm wide Soffit board	49	m		
11.16	Not exceeding 300 mm wide	49	m		
11.17	Mitered box ends Other Items	6	nr		
11.18	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below) (47) ROOF FINISHES	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 5 – House Type C
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

11	(47) ROOF FINISHES				(Continued)
	COLLECTION Page 34: Page 35: (47) ROOF FINISHES Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
12	(52) DRAINAGE AND REFUSE DISPOSAL				
	(52) DRAINAGE AND REFUSE DISPOSAL				
	<u>Generally</u>				
	<u>INFORMATION</u>				
12.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
12.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
12.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
12.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects Drawings		note		
12.5	NOTES				
12.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>DRAINAGE: Disposal Above Ground</u>				
	<u>Downpipes shall be aluminium, complying with To BS 299. Shall be 75 mm & 100 mm for large capacity round rainwater pipes and shall include all fittings and accessories required. In accordance with architects specification R10 / 370.</u>				
	Downpipes				
12.7	75 mm diameter	15	m		
12.8	Extra; shoes	6	nr		
12.9	Extra; connections to outlets	6	nr		
	<u>Gutters shall Cast Aluminium, powder coated to BS EN 12206-1:2004. Rail to match Window RAL, complying with BS 2997 and shall include all fittings and accessories required. Rainwater pipes shall be 100mm wide and 75mm deep half round gutters, complying with BS EN1559:1997, BS EN 1676:1997 and BS EN 1706:1998 and shall include all fittings and accessories required. In accordance with architects specification R10 / 311</u>				
	Gutters				
12.10	100mm diameter	39	m		
12.11	Ends	6	nr		
12.12	100mm diameter outlets	6	nr		
12.13	Bends	6	nr		
	<u>SOILS AND WASTES</u>				
	<u>Pipes and fittings: MU PVC; solvent welded joints in the running length; standard pipe clips at 500mm centres to concrete requiring hanging; laid to falls</u>				
	Pipes; 100mm diameter				
12.14	Surface fixed; vertical; SVP	4	m		
12.15	Surface fixed; Horizontal; SVP	3	m		
12.16	Extra; bends	2	nr		
12.17	Extra; connection to WC outlets; special adaptor	2	nr		
12.18	Extra; cleaning eye	2	nr		

To Collection

Project: Donohill, Tipp	Details: BQ 5 – House Type C
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

12	(52) DRAINAGE AND REFUSE DISPOSAL				(Continued)
12.19	Extra; vent cowl Other Items	2	nr		
12.20	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below) (52) DRAINAGE AND REFUSE DISPOSAL	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 5 – House Type C
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

12	(52) DRAINAGE AND REFUSE DISPOSAL				(Continued)
	COLLECTION Page 37: Page 38: (52) DRAINAGE AND REFUSE DISPOSAL Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 5 – House Type C

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
13	(59) MECHANICAL INSTALLATIONS				
	(59) MECHANICAL INSTALLATIONS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
13.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
13.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
13.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
13.4	For layout, elevations and details refer to Don O Malley Services Engineers Drawings.		note		
13.5	NOTES				
13.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
13.7	Tendering Contractors are to refer to Don O Malley Drawings and Specification.		note		
13.8	Tendering Contractors are to include for all testing, commissioning, maintenance manuals, training on safe operation etc. all as specified within Moloney Fox performance specification document.		note		
13.9	Tendering Contractors will be required to provide and include for all maintenance during the 12 months after substantial completion; all in accordance with Don O Malley performance specification document.		note		
13.10	A fully quantified and priced breakdown of the Electrical Installation tender is to be provided by the contractor whos tender is being considered for acceptance. The tenderer under consideration will be expected to provide this information within 7 working days of being requested to do so. Failure to do so may result in the rejection of his tender.		note		
13.11	Element (69) has not been measured in accordance with ARM, Agreed Rules of Measurement (Issue 4). Tendering Contractors are to include hereunder within their rates for any additional costs associated with same.		note		
	<u>MECHANICAL INSTALLATIONS</u>				
	<u>Mechanical Installations</u>				
13.12	Total Contract Value transferred from the Don O Malley & Partners Mechanical Services Installation Tender Document 'Summary of Tender: - House Type C <u>Total Contract Value to Include the breakdown cost on the following items from the Mechanical Services Installation Tender Summary:</u> Preliminaries	1	item		
13.13	General Items 1 Mechanical Services Installations	1	item		
13.14	Amount for Internal Mains Water Piping Installation	1	item		
13.15	Amount for Hot & Cold Water Services Installation including Manifolds	1	item		
13.16	Amount for Cold Water storage Tanks with Booster Pump Supply & Installation	1	item		
13.17	Amount Air to Water Heat Pump supply & Installation including all instrumentations	1	item		
13.18	Amount Air to Water Heat Pump external pipeworks installation	1	item		
13.19	Amount For Heating Pipework Supply & Installation Including Manifolds	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 5 – House Type C
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
13	(59) MECHANICAL INSTALLATIONS				(Continued)
13.20	Amount For Radiators Supply & Installation Including Thermostatic Valves, Lock Sheid Valves and Thermostat	1	item		
13.21	Amount For Zone Controls Supply & Installation	1	item		
13.22	Amount For Mechanical Ventilation (DCV) Supply & Installation Including Fans, Controls and Sensors	1	item		
13.23	Amount For Kitchen Extractor Hoods Supply & Installation	1	item		
13.24	Amount For Extract Ducting Supply & Installation Including Extract Grilles	1	item		
13.25	Amount For Above Ground Drainage Installation Including Booster Tank Overflow	1	item		
13.26	Amount For Insulation of All Internal Pipework	1	item		
13.27	Amount For Sterilisation, Cleaning and Flushing.	1	item		
13.28	Amount For Fire Extinguishers & Fire Blanket Supply & Installation	1	item		
13.29	Amount For Fire Collars Supply & Installation	1	item		
13.30	Amount For Fire Collars Supply & Installation	1	item		
13.31	Amount For 12 Months Maintenance	1	item		
13.32	Amount For Provision of Handover Documentation	1	item		
13.33	Amount For Any Other Items Deemed Necessary for Completion of Works	1	item		
13.34	Amount For a Water Meter	1	item		
13.35	Amount for Outdoor Tap Installation	1	item		
	BER and BER Certificate				
13.36	Amount to complete and issue a BER cert and Part L compliance report on completion - 1 Nr. Required per property.	1	item		
13.37	Amount to register BER certificate and lodge to SEAI website	1	item		
	<u>Include the following in respect of the foregoing</u>				
13.38	All costs and requirements associated with a complete Mechanical Installation (such as main contractors general and special attendances, unloading, distributing, lifting, hoisting and placing in position all plant and equipment as scheduled, storage for plant, covered storage for welding and portable machine tools, profit and all additional preliminaries over and above normally provided by sub-contractors themselves and the like) if not included in the above item should be included here. Provide for lifting, hoisting, moving and placing into position the following if not already included in the above	1	item		
13.39	Ductwork and accessories	1	item		
13.40	Pipework and accessories	1	item		
13.41	Radiators and accessories	1	item		
13.42	Satellite Units and accessories	1	item		
	<u>SUNDRIES AND BUILDERS WORK</u>				
13.43	Refer to Builders Works drawings for details and locations of openings for services.		note		
13.44	Filling and sealing voids around pipework, ductwork etc. shall achieve a decibel rating equivalent to the structure in which the ope is formed. The filling and sealing shall finish neatly flush with the structure and finishes on both face.		note		

To Collection

Project: Donohill, Tipp

Details: BQ 5 – House Type C

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
13	(59) MECHANICAL INSTALLATIONS				(Continued)
13.45	Fireseal opes shall include for all works included in Architect's Specification; intumescent compound for sealing around service members on both faces to provide a 1 hour period of fire resistance. The fireseal is to finish neatly flush with the structure and finishes on both faces. This specification applies to all sections of the Bill of Quantities.		note		
13.46	Rates are to allow for making good in all trades complete. <u>SUNDRIES AND BUILDERS WORK</u> Airtightness Test		note		
13.47	Undertake a building pressure and air flow test & pre-test at the time of completion of construction to a standard of air permeability of 3m3/hr/m2 at 50 Pa in accordance with the test methods prescribed under Building Regulations TGD-L the new building and other requirements as specified in the tender documents. Include for all disruption associated with the requirement to vacate the premises during the test(s) sealing all inlet/outlet grilles and flues, air supply openings, wedging internal doors open/closed as appropriate, closing fire dampers and any other measures necessary to allow testing to be completed. Any costs arising out of test failure(s) which can be attributed to the poor workmanship and improper detailing of domestic and nominated sub-contractors, including the cost of repeat test(s) shall be at the expense of the Contractor. Testing carried out by an INAB accredited Specialist, 1 test carried out at first fix stage and 1 final test at the end of the project, all site inspection by specialist, sample testing including smoke testing etc, submit a digital copy of test results and all supporting data to the Employer and Design Team no later than 7 days following final test. Refer to Architects Specification for full Details of Airtightness Requirements, no additional costs will be entertained due to the contractor's failure to correctly interpret this section of the specification. Sound Test	1	item		
13.48	Undertake airbourne/sound test to be undertaken by a company compotent in the measurement of sound insulation of buildings in accordance with the test methods prescribed under Building Regulations E1 the new building and other requirements as specified in the tender documents. Include for all disruption associated with the requirement to vacate the premises during the test(s) and any other measures necessary to allow testing to be completed. Any costs arising out of test failure(s) which can be attributed to the poor workmanship and improper detailing of domestic and nominated sub-contractors, including the cost of repeat test(s) shall be at the expense of the Contractor. Certificate to be lodged in the Safety File. 2 number test per house to include floor and party walls carried out in accordance with IS EN ISO 16283 and 3382-2 achieving 53 Dnt,wdB, Refer to Architects Specification for Details. Mechanical Ventilation Testing	1	item		
13.49	All Mechanical Systems when installed and commissioned should be validated by a Certified Third Party compotent in the measurement of ventilation systems in buildings to ensure that they achieve the design flow rates for extract fans and the correct opening area. Airflow measurements should be performed using a calibrated airflow device and results recorded in litres per second (l/s), See Services Engineers Requirements. Mechanical Installations	1	Item		
13.50	Marking the positions of holes, mortices and chases <u>Pipe Casings</u> <u>Pipe casings: comprising of treated sawn softwood framework; 44 x 44mm at 400 centres; 25mm thick medium density fibreboard; moisture resistant; fixed with countersunk wood screws and countersunk pipes to be wrapped in Rockwool Techtube 20 mm thick installed in accordance with manufactures recommendations; all as per Architect's Drawings</u> To blockwork base	1	item		
13.51	Horizontal: 200 x 200 mm wide Box Out (ARM Qualification)	10	m		
13.52	Vertical: 200 x 200 mm wide Box Out (ARM Qualification)	24	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
13	(59) MECHANICAL INSTALLATIONS				(Continued)
	<u>Forming or cutting chases; weathering and making good structure and finishes upon completion; including for all works necessary to complete</u>				
	For pipework in partition walls				
13.53	Not exceeding 25mm bore (ARM Qualification)	5	m		
13.54	Exceeding 25mm bore (ARM Qualification)	12	m		
	<u>Concrete grade C30/37; formwork; trowelled finish</u>				
	Heat Pump Support				
13.55	1000mm x 1000mm x 150mm high	1	nr		
	<u>Woodwork; (ARM Qualification)</u>				
13.56	Timber Grounds including all fixings, notching, bolts and any necessary items to complete the works.				
	HWS Cylinder Support; Floors				
13.57	Sawn white deal, vacuum presure impregnated, stress graded class B				
13.58	Joists 150 x 44 mm.	10	m		
	CWS Cylinder Support; Floors				
13.59	Sawn white deal, vacuum presure impregnated, stress graded class B				
13.60	Joists 150 x 44 mm.	10	m		
	Boiler Support; Wall Mounted				
13.61	Sawn white deal, vacuum presure impregnated, stress graded class B				
13.62	Joists 150 x 44 mm.	6	m		
	Radiator Support; Wall Mounted				
13.63	Sawn white deal, vacuum presure impregnated, stress graded class B				
13.64	Joists 150 x 44 mm.	20	m		
	HMV Unit; Wall Mounted				
13.65	Sawn white deal, vacuum presure impregnated, stress graded class B				
13.66	Joists 150 x 44 mm.	4	m		
	<u>Forming or cutting holes; build in sleeves and/or bridge over with lintols as required; include for all firestopping with intumescent collars to give one hour fire resistance; including for all works necessary to completeweathering and making good structure and finishes upon completion; including for all works necessary to complete; Firestopping in accordance with Architect's Drawings and Specification</u>				
	For pipework through in-situ ground bearing slab				
13.67	55 - 110mm diameter	2	nr		
	For pipework through intermediate floor slabs				
13.68	55 - 110mm diameter	2	nr		
	For pipework through roof structure				
13.69	55 - 110mm diameter	4	nr		
13.70	110 - 200mm diameter	2	nr		
	For pipework through timber floor joists				
13.71	Not exceeding 55mm diameter	7	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
13	(59) MECHANICAL INSTALLATIONS				(Continued)
13.72	For pipework through Concrete Floor Slab Not exceeding 55mm diameter	8	m		
13.73	For pipework through ceiling structure Not exceeding 200mm diameter	5	nr		
	<u>Special Works</u>				
13.74	Building in external ventilation louvres to external walls 150 x 150 mm	2	nr		
13.75	Building in external airbrick termination grilles to external walls 250 x 250mm	2	nr		
13.76	Forming opes in external walls 250 x 250 x 300mm deep	2	nr		
13.77	Forming opes in internal walls 150mm diameter	2	nr		
13.78	Firestopping around flatpack/pipework ducting; through internal walls/floors 150 x 150 mm	3	nr		
13.79	250 x 250mm	2	nr		
13.80	600 x 500mm	2	nr		
	<u>General builders work; grounds; cutting away and making good for the following</u>				
13.81	Additional builders work not outlined above	1	item		
13.82	Any other items or components included in the drawings or specification but not specified in this schedule	1	item		
	<u>PAINTING AND DECORATING: Painting</u>				
	<u>One coat primer, two coats undercoat; one coat alkyd based heat resistant paint, full gloss finish in accordance with services engineers specification</u>				
13.83	Pipes, ducts and the like Not exceeding 32mm bore (ARM Qualification)	10	m		
	<u>One coat primer, two coats undercoat; one coat alkyd based heat resistant paint, full gloss finish in accordance with services engineers specification</u>				
13.84	Pipes, ducts and the like Not exceeding 32mm bore (ARM Qualification)	21	m2		
	<u>Preparing and painting one coat sealer and two coats quick drying water based eggshell paint; as manufactured ; to selected colours; all applied in strict accordance with the manufacturers instructions; all as per Architects Specification</u>				
13.85	Pipe Casings Generally	34	m		
13.86	Other Items Provide for all labour, materials, plant and all items which in the tenderers opinion are not specifically allowed for in this section of the works but which can be reasonably inferred from the works requirements as being necessary for the execution and completion of the works. - (List items below)		item		
	(59) MECHANICAL INSTALLATIONS				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 5 – House Type C
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

13	(59) MECHANICAL INSTALLATIONS				(Continued)
	COLLECTION Page 40: Page 41: Page 42: Page 43: Page 44: (59) MECHANICAL INSTALLATIONS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
14	(69) ELECTRICAL INSTALLATIONS				
	(69) ELECTRICAL INSTALLATION				
	<u>Generally</u>				
	<u>INFORMATION</u>				
14.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
14.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
14.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
14.4	For layout, elevations and details refer to Don O Malley Services Engineers Drawings.		note		
14.5	NOTES				
14.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
14.7	Tendering Contractors are to refer to Moloney Fox Drawings and Specification.		note		
14.8	Tendering Contractors are to include for all testing, commissioning, maintenance manuals, training on safe operation etc. all as specified within Moloney Fox performance specification document.		note		
14.9	Tendering Contractors will be required to provide and include for all maintenance during the 12 months after substantial completion; all in accordance with Moloney Fox performance specification document.		note		
14.10	A fully quantified and priced breakdown of the Electrical Installation tender is to be provided by the contractor whos tender is being considered for acceptance. The tenderer under consideration will be expected to provide this information within 7 working days of being requested to do so. Failure to do so may result in the rejection of his tender.		note		
14.11	Element (69) has not been measured in accordance with ARM, Agreed Rules of Measurement (Issue 4). Tendering Contractors are to include hereunder within their rates for any additional costs associated with same.		note		
	<u>ELECTRICAL INSTALLATIONS</u>				
	<u>Electrical Installations</u>				
14.12	Total Contract Value transferred from the Don O' Malley & Partners Electrical Services Installation Tender Document 'Summary of Tender: - House Type C Total Contract Value to Include the breakdown cost on the following items. Preliminaries	1	item		
14.13	General Items 1 Electrical Services Installations	1	item		
14.14	Supply & Installation of Consumer Units	1	item		
14.15	Supply & Installation of Light Fittings	1	item		
14.16	Type A	1	item		
14.17	Type A/D	1	item		
14.18	Type B	1	item		
14.19	Type C	1	item		
14.20	Type D	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 5 – House Type C
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
14	(69) ELECTRICAL INSTALLATIONS				(Continued)
14.21	Type E (Emergency LightingTo house C)	1	item		
14.22	Type G	1	item		
14.23	Type H	1	item		
14.24	LightingWiring Installation (including emergency lighting)	1	item		
14.25	General Power sockets & wiring	1	item		
14.26	TV sockets & Wiring	1	item		
14.27	Telephone Sockets & Wiring	1	item		
14.28	Cooker Switches & Wiring	1	item		
14.29	Doorbell Installation & Wiring	1	item		
14.30	Mechanical Plant Wiring (Including Mechanical air source Heat Pump, External Heat pump, Ventilation unit (HRU), C	1	item		
14.31	Immersion Heater wiring	1	item		
14.32	Amount for supply and installation of Intruder/security Alarm system	1	item		
14.33	Earthing and Bonding	1	item		
14.34	Testing & Commissioning	1	item		
	<u>Other Requirements</u>				
14.35	Compliance with all statutory requirements & Engineers requirements for the handover of O&M manuals	1	item		
14.36	Compliance with all statutory requirements & Engineers requirements for the handover of Electrical elements	1	item		
14.37	Provide as Built CAD drawings	1	item		
14.38	Any other items or components in included in the drawings or specification but not specified in this schedule	1	item		
	<u>Include the following in respect of the foregoing</u>				
14.39	All costs and requirements associated with a complete Electrical Installation (such as main contractors general and special attendances, unloading, distributing, lifting, hoisting and placing in position all plant and equipment as scheduled, storage for plant, covered storage for welding and portable machine tools, profit and all additional preliminaries over and above normally provided by sub-contractors themselves and the like) if not included in the above item should be included here	1	item		
	<u>SUNDRIES AND BUILDERS WORK</u>				
14.40	Total Contract Value for builders work transferred from the Electrical Services Installation Tender Document 'Summary of Tender: - House Type A	1	item		
	Other Items				
14.41	Provide for all labour, materials, plant and all items which in the tenderers opinion are not specifically allowed for in this section of the works but which can be reasonably inferred from the works requirements as being necessary for the execution and completion of the works. - (List items below)		item		
	(69) ELECTRICAL INSTALLATIONS				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 5 – House Type C
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

14	(69) ELECTRICAL INSTALLATIONS				(Continued)
	COLLECTION Page 46: Page 47: (69) ELECTRICAL INSTALLATIONS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
15	(73) CULINARY FITTINGS				
	(73) CULINARY FITTINGS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
15.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
15.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
15.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
15.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects Drawings specifically but not limited to 2798-HLA-00-ZZ-DR-A-1103 & 1605.		note		
15.5	NOTES				
15.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
	<u>FITTINGS: Fittings, Equipment and Furniture</u>				
	<u>Dimensions of manufactured kitchen to be BS EN 1116. Storage Units: including base, drawers, corners, cupboards, high level wall presses, shelves, worktops etc. Carcass of all units shall be manufactured with 18mm thick MFC coreboard moisture resistant cabinets throughout, all pre-bored and screw fixed. it shall be mounted on adjustable pvc legs. Press Doors to be high pressure laminate facing bonded onto MR MDF core with a balancing bonded melamine veneer to the inside door face finished thickness 20mm as agreed by the architect on 180dia steel "hinges (or equal and approved) self closing. The drawer unit shall be three number Blum metal box drawers with moisture resistant bottom complete with steel runners. 38mm particle board worktop to selected colour, moisture and heat resistant; 600mm deep. Back panel shall be screw fixed and removable from the front to facilitate the installation of plumbing pipes. Include for 75mm high Cornice and 50mm high pelmet. Handles to be brushed stainless steel 150mm long round section. All end units to be finished with side panel to match selected. Include for all aluminium trims at ends and corner joints; all in accordance with the Architects Specification N11 and Drawing number DR-SC-1603</u>				
	Kitchen Units				
15.7	Worktop, U Shaped Base Unit & Overhead Storage Units				
15.8	Overall length; 6250 mm; as per Architects Specification	1	nr		
	<u>Satin Stainless Steel Sink or equivalent inset unit with approved monoblock mixer taps; single drainer; complete. 1 1/2" basket strainer waste (SO226)</u>				
	Stainless Sink Set				
15.9	Overall size 1000mm x 500mm.	1	nr		
	<u>Fire blankets to each kitchen; 1000mm x 1000mm FB 100 including mounting brackets and instructions manuals; all as per Architects Specification</u>				
15.10	Fire Blanket				
15.11	Generally	1	nr		
	<u>MECHANICAL INSTALLATIONS: Generally</u>				
	<u>600mm with Twin motor or equivalent integrated extractor unit with flexi flue pipe connected to wall vent; as per Architects Specification, with removable filters, variable fan settings, min 30 l/s</u>				
	Cooker Hood Extractor				
15.12	Generally	1	nr		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 5 – House Type C
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

15 (73) CULINARY FITTINGS (Continued)

15.13	Other Items Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below) (73) CULINARY FITTINGS				
-------	---	--	--	--	--

To Collection



Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

15 (73) CULINARY FITTINGS

(Continued)

	COLLECTION				
	Page 49:				
	Page 50:				
	(73) CULINARY FITTINGS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
16	(74) SANITARY FITTINGS				
	(74) SANITARY FITTINGS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
16.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
16.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
16.3	The following specifications to be read in conjunction with the relevant Engineers, Services and Architects Specification		note		
16.4	For layout, elevations and details refer to Hassett Leyden & Associates Architects Drawings		note		
16.5	NOTES				
16.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification	1	item		
16.7	Supply, deliver, install and warrant the works in strict compliance with the materials and workmanship requirements of the Specification		note		
16.8	Where alternative products are offered by the Contractor for acceptance by the Employers representative, provide full supporting documentation in respect of the complete system or installation		note		
16.9	Contractor to include in their rates for installing any necessary grounds for support of any/all sanitary items listed below	1	item		
16.10	Contractor to allow for support of grabrails required by TGD part M (a load of 171kg) applied both vertically and 45 by fixing to either concrete block masonry wall or by secondary structural steel posts within plasterboard partitions fixed from structural floor to structural soffit for architects/engineers approval	1	item		
16.11	All sanitary ware to be white in colour unless otherwise specified, supplied and fixed, including setting aside and re-fixing for other trades including connecting up to waste pipework, providing grounds, plugs, screws, making good finishes disturbed, fixings, fittings, accessories and the like	1	item		
16.12	Seal junction between structure and sanitary fittings and the like with one-part silicone rubber sealant, in selected colour, to form a 6mm triangular joint with fair concave edge, all unit rates below will be deemed to include for same	1	item		
	<u>FITTING, EQUIPMENT AND FURNITURE: Fitting, Equipment and Furniture</u>				
	<u>Supply and fix the following fittings, as specified, fixed in accordance with the manufacturers instructions. Architects Specifications N13 and Sanitary Ware Schedule</u>				
	<u>WHB - Concept Air Arc 50cm Washbasin Concept Air Arc 55cm washbasin, E1386(01) Contour 21 Thermostatic Sequential Basin Mixer HBN-00-10 HTM64: A4169(AA), 1 taphole with overflow, 1 taphole, with overflow and chain stay hole (Ref E1386(01)), Washbasin Wall Fixings set (Ref E0157(67)), Pedestal Concept Air pedestal (Ref E8976(01)), Waste 1¼" plastic waste with bead chain and plug, 80mm slotted tail, bolt stay (Ref S8800), Trap 1¼" plastic bottle, 75mm seal, multi-purpose outlet (Ref S8910(67)), Sandringham SL 21 basin mixer with pop-up waste and 5 litre per minute eco flow regulator (Ref B3306(AA)).</u>				
	Handrinse Washbasin Set				
16.13	500mm x 400mm; including pedestal	2	nr		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
16	(74) SANITARY FITTINGS				(Continued)
16.14	WC - E8834(01) Sandringham 21 Raised height close coupled WC - horizontal outlet. Armitage Shanks Sandringham 21 close coupled WC pan with horizontal outlet (Ref E8834). Sandringham21 6/4 litre dual flush bottom supply cistern to achieve 750mm projection with Spatula lever(Ref E8987). Armitage Shanks Sandringham 21 seat and cover (Ref E1316). Armitage Shanks Domex screws (pair) (Ref S9101). All as per sanitary ware schedule and Specifications N13. Close Coupled WC suite WC Bath Bath - Sandringham 21 bath 1700 x 700mm standard steel guage steel chrome plated grips, two tap holes, anti-slip ref S1835. Thermostatic bath filler/shower Reef thermostatic bath/shower mixer tap with shower kit included shower head to be plumbed in wall, recommended operating pressure of 1 bar, trap 11/2" plastic P with 75mm seal, multi purpose outlet suitable for plastic and BA copper pipe S8970, bath waste 11/2" combination waste and trap overflow and domed clicker. All as per sanitary ware schedule and Specifications N13. Bath with Shower Kit	2	nr		
16.15	Generally Extra For:	1	nr		
16.16	Forming bath panel with 18 mm WBP plywood including all grounds, fitting, fixings, seals, etc. Shower Alto Ecotherm Exposed Shower Pack A4741(AA) Alto Ecotherm thermostatic shower mixer with fast fix wall bracket and Idealrain S3 3 function kit. Product code: A4741(AA) Shower Mixer; allow for all fixings	1	item		
16.17	Generally Sonas Kristal Square Low Profile Shower Tray; 900x900 anti-slip Height of tray: 40mm or 53mm with upstand Double skinned acrylic capped 90mm high flow waste REF: KLP80100AS 1.8 lm of bathroom butyl tape to 2 sides TRAP: Easy Plumb riser kit 3 ref FP 1290100 Shower Tray	1	nr		
16.18	900 x 900mm Corner Shower Curtain; 900x900mm, Colour: Chrome, Material: Aluminium +Chrome Curtain Rings No.12 Corner Shower Curtain	1	nr		
16.19	Generally Bath Screen Bath fixed screen, 6mm clear toughened safety glass,ref 505277270786; include all fixing as per manufacturers instructions.	1	nr		
16.20	300 x 1400mm high Bathroom Fittings; as per Architects Specification Generally	1	nr		
16.21	Towel Rail	2	nr		
16.22	Soap Holder	2	nr		

To Collection

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
16	(74) SANITARY FITTINGS				(Continued)
16.23	Toilet Roll Holder	2	nr		
16.24	Hand Rail/Grab Bar	1	nr		
16.25	Clothes Hook	2	nr		
	<u>GLAZING: Special Glazing</u>				
	<u>Mirrors,4 mm Class C safety glass silvering quality wall mounted mirrors; bevelled edges, tamper proof dome heads</u>				
	Special Glazing				
16.26	900 x 700mm	2	nr		
	Other Items				
16.27	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)	1	item		
	(74) SANITARY FITTINGS				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 5 – House Type C
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

16	(74) SANITARY FITTINGS				(Continued)
	COLLECTION Page 52: Page 53: Page 54: (74) SANITARY FITTINGS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 5 – House Type C

Code	Description	Quantity	Unit	Rate	Total
17	(76) STORAGE, SCREENING FITTINGS				
	(76) STORAGE, SCREENING & FITTINGS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
17.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.				
	<u>DRAWINGS</u>				
17.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.				
17.3	For layout, elevations and details refer to Hasset Leyden & Associates Architects Drawings specifically but not limited to.		note		
	<u>NOTES</u>				
17.4	All works to be carried out in accordance with the Project Drawings, Specifications and Preliminary Health & Safety Plan				
17.5	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification.	1	item		
	<u>WOODWORK: Composite Items</u>				
	<u>The Contractor is to include for forming three tiers of prefinished solid wood 19 mm x 44 mm spar shelving, 25mm apart, the full depth of the hotpress/storage press, carried on 19mm x 44mm chamfered cleats secured to walls or on 38mm x 75mm bearers.</u>				
	<u>Shelving to be planed</u>				
	Hotpress shelving				
17.6	960mm wide	2	nr		
	Other Items				
17.7	Provide for all labour, materials, plant and all items which in the tenderers opinion are not specifically allowed for in this section of the works but which can be reasonably inferred from the works requirements as being necessary for the execution and completion of the works. - (List items below)		item		
	(76) STORAGE, SCREENING FITTINGS				

To Collection

Project: Donohill, Tipp	Details: BQ 5 – House Type C
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

17 (76) STORAGE, SCREENING FITTINGS (Continued)

	COLLECTION Page 56: (76) STORAGE, SCREENING FITTINGS Carried to Summary:				
--	---	--	--	--	--

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 5 – House Type C
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
	COLLECTION SUMMARY	PAGE NO			
	(21) EXTERNAL WALLS	1 - 5			
	(22) INTERNAL WALLS, PARTITIONS	7 - 8			
	(27) ROOFS	10 - 11			
	(31) EXTERNAL WALLS COMPLETIONS	13 - 15			
	(32) INTERNAL WALLS COMPLETIONS	17 - 18			
	(36) ROOF COMPLETIONS	20			
	(41) WALL FINISHES EXTERNALLY	22 - 23			
	(42) WALL FINISHES INTERNALLY	25 - 26			
	(43) FLOOR FINISHES	28 - 29			
	(45) CEILING FINISHES	31 - 32			
	(47) ROOF FINISHES	34 - 35			
	(52) DRAINAGE AND REFUSE DISPOSAL	37 - 38			
	(59) MECHANICAL INSTALLATIONS	40 - 44			
	(69) ELECTRICAL INSTALLATIONS	46 - 47			
	(73) CULINARY FITTINGS	49 - 50			
	(74) SANITARY FITTINGS	52 - 54			
	(76) STORAGE, SCREENING FITTINGS	56			
	Total Amount:				

BILL NR.6- SITE EXTERNAL WORKS

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 6 – Site External Works

Code	Description	Quantity	Unit	Rate	Total
1	(20) SITE STRUCTURES				
	<u>(20) SITE STRUCTURES</u> <u>Generally</u> <u>INFORMATION</u> 1.1 For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents. <u>DRAWINGS</u> 1.2 For layout and elevations refer to Architectural & Structural Plans and Elevations. <u>NOTES</u> 1.3 All works to be carried out in accordance with the Project Drawings, Specifications and Preliminary Health & Safety Plan 1.4 Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification. <u>ANCILLARY SITE STRUCTURES</u> <u>Composite Item, Bin Compound: Biohort HighBoard Wheelie Bin Storage Unit complete or equivalent, include all framing, cladding to front, rear, sides and top, double door opening to front and top opening section, include for all ironmongery and locking mechanism, level access flooring, fixed to concrete footpath, include for all fixings, all in accordance with Architects Schedule of Items</u> 1.5 Bin Store Complete 1.6 External Bin Store complete, overall plan size 2357 x 900 mm deep on plan x 1300 mm high Other Items 1.7 Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below) (20) SITE STRUCTURES				
			note		
			note		
			note		
		1	item		
		6	nr		
		1	item		

To Collection

Project: Donohill, Tipp	Details: BQ 6 – Site External Works
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

1	(20) SITE STRUCTURES				(Continued)
	COLLECTION Page 1: (20) SITE STRUCTURES Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 6 – Site External Works

Code	Description	Quantity	Unit	Rate	Total
2	(30) SITE ENCLOSURES				
	(30) SITE ENCLOSURES				
	<u>Generally</u>				
	<u>INFORMATION</u>				
2.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
2.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
2.3	Refer Specifically but not limited to Architects Drawings; 2741-HLA-A-0001 to 0003.		note		
2.4	Refer Specifically but not limited to Engineers Drawings; 1001		note		
2.5	Refer Specifically but not limited to Services Engineers Drawings.		note		
	<u>NOTES</u>				
2.6	All works to be carried out in accordance with the Project Drawings, Specifications and Preliminary Health & Safety Plan		note		
2.7	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification.		item		
2.8	The Contractor is referred to the Site Investigation report for the information concerning the site, ground conditions sub-strata water levels and other relevant data.		note		
	<u>EXCAVATION AND EARTHWORKS: Excavation</u>				
	<u>Excavation</u>				
	Foundation trenches				
2.9	Starting at stripped or reduced ground levels; not exceeding 2.00m deep	62	m3		
	Isolated Pits				
2.10	Starting at stripped or reduced ground levels; not exceeding 2.00m deep	13	m3		
	Disposal of water				
2.11	Surface.	1	item		
	Disposal of excavated material				
2.12	Off site.	75	m3		
	<u>Filling; hardcore filling to be Granular material, free from excessive dust, well graded, all pieces less than 75 mm in any direction, minimum 10% fines value of 50 kN when tested in a soaked condition to BS 812-111, spread and levelled in 150mm maximum layers; as per Engineers Specification for Structural Works</u>				
	To excavations				
2.13	Average thickness exceeding 250mm thick.	30	m3		
	<u>CONCRETE WORK: In-Situ Concrete</u>				
	<u>Plain in-situ concrete, Grade C12/15; vibrated (Lean mix); all as per Engineer's Specification</u>				
	Blinding; foundation footings; poured on or against earth or unblinded hardcore				
2.14	Generally	7	m3		
	<u>Reinforced in-situ concrete; Grade C30/37; vibrated</u>				
	Foundations; poured on or against earth or unblinded hardcore				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 6 – Site External Works

Code	Description	Quantity	Unit	Rate	Total
2	(30) SITE ENCLOSURES				(Continued)
2.15	Generally. <u>CONCRETE WORK: Reinforcement</u> <u>Reinforcement; mesh fabric: BS 4483;</u> Reference A393; 400mm laps	26	m3		
2.16	Horizontal in Foundations <u>Reinforcement; bars: BS 4449:2005; high yield steel; all as per Engineer's Specification.</u> Straight or bent	85	m2		
2.17	12mm - 25mm diameter <u>Sawn formwork</u> Walls	0.85	tn		
2.18	Sides of foundation, exceeding 250mm high. <u>BRICKWORK AND BLOCKWORK: Brickwork/Blockwork</u> <u>Solid concrete blocks to BS EN 6073-1, dense aggregate, nominal size 440 x 215 x 100 mm, minimum compressive strength 15 N/mm2, half lap stretcher bond; all as per Engineers Specification Clause F10 350A</u> Walls in trenches	235	m		
2.19	215 mm thick Walls (Wall Type 3)	45	m2		
2.20	215 mm thick Walls (Wall Type 4)	24	m2		
2.21	215 mm thick	5	m2		
2.22	Extra over for fairfaced finish finish on one side Walls (Wall Type 5)	5	m2		
2.23	215 mm thick	57	m2		
2.24	Extra over for fairfaced finish finish on one side <u>BRICKWORK AND BLOCKWORK: Brickwork/Blockwork</u> <u>Composite Item: Hollow Blockwork 440 x 215 x 215 mm, fill the block using concrete grade C30N10 with 10 mm maximum aggregate size, reinforced with 2 no H12 rebar and H8 links at 100 mm c/c cast into foundation, refer to Architect's Drawings 3001, 3002 & 3003. for details.</u> Piers	57	m2		
2.25	440 mm thick <u>BRICKWORK AND BLOCKWORK: Sundries</u> <u>Movement joints: 10mm thick Flexcell Board or equivalent to blockwork closed cell at 5400mm centres; faced both sides with 10 x 10mm Hilastic 44 or equivalent; refer to Architect's Drawings 3001, 3002 & 3003. for details.</u> Design Joints	17	m2		
2.26	10 mm wide; 650 mm deep; vertical <u>CONCRETE WORK:In-situ Concrete - Composite Item</u>	17	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 6 – Site External Works

Code	Description	Quantity	Unit	Rate	Total
2	(30) SITE ENCLOSURES				(Continued)
	Reinforced in-situ Concrete; Concrete grade 40N/mm2, 2nr 10mm diameter reinforcement bars; with a fair finish on all surfaces, bed and point in gauged mortar; 150mm x 50mm galvanised steel anchor built into blockwork, weathered and throated both sides; including concrete, formwork, reinforcement; refer to Architect's Drawings 3002 & 3003, for details.				
2.27	Wall Capping 550 x 150 mm thick.	38	m		
2.28	Pier Capping 550 x 550 mm	26	nr		
	<u>FLOOR, WALL AND CEILING FINISHINGS: In-Situ Finishes</u>				
	<u>External Render: cement:sand (air entrained); preparation: spatterdash keying coat; undercoats:- mix: 1:2.5-3.5 masonry cement:sand; thickness (excluding dubbing out and keys): first undercoat 8-12 mm (exclusive of keys). second undercoat 6-10 mm; final coat: mix: 1:2.5-3.5 masonry cement:sand; other requirements: screen sand through 3 mm mesh sieve; thickness: 8-11 mm prior to scraping; finish: nap; accessories: stainless steel beads including all stop beads, angles beads and associated accessories;</u>				
2.29	Walls; to blockwork surfaces; externally Blockwork walls, exceeding 300 mm wide.	120	m2		
2.30	Piers; not exceeding 300mm wide	74	m		
	<u>Sundries: Beads</u>				
	<u>"Expamet" or equal plaster beads; stainless steel; fixing with dabs of mortar</u>				
2.31	Beads Angle Beads.	74	m		
	<u>Stainless steel, grade 304/S15; 'Expamet' by the Expanded Metal Company Limited or equal approved; to masonry.</u>				
2.32	Beads Stop Beads.	45	m		
	<u>SURFACE PAVING, FENCING & LANDSCAPING: Gates</u>				
	<u>Composite Item: External Matchboarded Timber Gate; Hardwood matchboarded gate to BS 459, preservative treated, moisture content on delivery 12-18%; basecoat stain and first topcoat applied before delivery. Complete with all ironmongery, fixings, fittings and making good. All in accordance with Architect's Specification Clause L20/215.</u>				
2.33	Side Gates 1000 x 1800mm high	6	nr		
	<u>SURFACE PAVING, FENCING & LANDSCAPING: Fencing</u>				
	<u>Composite Item: Concrete H Post with Timber Infill Panel Fencing; 1800mm high posts above ground & 800 mm below ground, with spacing at 1800mm wide, 2nr 300mm concrete infill base panels; 50 mm timber infill planks to be pre-treated timber delivered primed & painted and contractor to install between conc posts grooves; include for forming foundations 750 x 500 mm wide, including all concrete, excavations, disposal, backfilling, include for additional paint finish if required and the like for complete installation of the rear garden dividing walls as per manufacturers recommendations; all as per Architect's Drawing Nr. 3001</u>				
2.34	Fencing; boundary type 1 1800 mm high above ground	83	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 6 – Site External Works

Code	Description	Quantity	Unit	Rate	Total
2	(30) SITE ENCLOSURES				(Continued)
2.35	<u>Composite Item: Black Powder Coated Steel Flat Top fence, 12.5mm bars hot dipped galvanised mild steel, vertical members at 100mm centres, bolted construction cast 200mm into concrete footing as per manufacturers recommendations; all as per Architect's Drawing Nr. 3001</u> Fencing; boundary type 2 1200 mm high above ground <u>Heat Pump Plinth and Enclosure</u> <u>Composite Item: Heat Pump Enclosure, constructed from galvanised metal sheeting; as per Architect's Schedule of Items: Reference Nr 2798-HLA-ZZ-00-SC-A-9004.</u>	23	m		
2.36	Heat Pump Enclosure				
2.37	over size 1500mm wide x 1200mm high 800mm deep	6	nr		
2.38	<u>Composite Item: Heat Pump Concrete, constructed insitu concrete Grade 35N20 base, A393 mesh reinforcement, formwork to edge of plinth; Clause 804 hardcore filling base under plinth; allow for all excavation, disposal etc;</u> Heat Pump Plinth				
2.39	1750 x 900 x 150mm thick	6	nr		
2.40	Extra over for 900mm long ACO channel set into concrete plinth and connected to surface water drainage; allow for all connections, ends, additional formwork etc	6	nr		
2.41	Other Items Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below) (30) SITE ENCLOSURES		item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 6 – Site External Works
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

2	(30) SITE ENCLOSURES				(Continued)
	COLLECTION Page 3: Page 4: Page 5: Page 6: (30) SITE ENCLOSURES Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 6 – Site External Works

Code	Description	Quantity	Unit	Rate	Total
3	(40) ROADS PATH PAVINGS				
	(40) ROADS, PATHS & PAVINGS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
3.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
3.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
3.3	Refer Specifically but not limited to Architects Drawings; 2798-HLA-00-ZZ-DR-A-1001 & 2798-HLA-00-ZZ-DR-E-1007		note		
3.4	Refer Specifically but not limited to Services Engineers Drawings.		note		
	<u>NOTES</u>				
3.5	All works to be carried out in accordance with the Project Drawings, Specifications and Preliminary Health & Safety Plan		note		
3.6	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification.	1	item		
	Contractor is to allow for leakage report on sewers from specialist after 12 months.	1	item		
	Contractor must gave personnel available to attend site with 200L of dyed water to test flows	1	item		
	(40) ROADS PATH PAVINGS				
	<u>EXCAVATION AND EARTHWORK: Excavation</u>				
	<u>Filling; crushed stone; Clause 803 compacted gravel; as per Engineers Report</u>				
	To make up levels				
3.7	Not exceeding 250mm thick	163	m3		
	<u>Filling; hardcore filling to be Granular material, free from excessive dust, well graded, all pieces less than 75 mm in any direction, minimum 10% fines value of 50 kN when tested in a soaked condition to BS 812-111, spread and levelled in 150mm maximum layers; as per Engineers Specification for Structural Works</u>				
	To make up levels				
3.8	Exceeding 250mm thick	69	m3		
	<u>Filling; course graded aggregate to BS7533-13:2009; depositing in layers 150 maximum thickness; compacting by mechanical means; All to Engineer's Specification and Drawing Nr. DR-A-1007</u>				
	To make up levels				
3.9	Exceeding 250mm thick	142	m3		
	<u>T3 Stone Blinding; Surface treatments; Architect's Drawing Nr 1007</u>				
	Blinding filling; T3				
3.10	50mm thick	651	m2		
	<u>Surface treatments</u>				
	Filling; graded 6.3 - 2mm grit to BS1342:2002 ; 50mm thick; to BS 7533-13:2009 and BS 13242:2002; as per Architect's Drawing Nr 1007				
3.11	Blinding surfaces of hardcore filling; 50mm thick	405	m2		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 6 – Site External Works

Code	Description	Quantity	Unit	Rate	Total
3	(40) ROADS PATH PAVINGS				(Continued)
3.12	SC membrane layer; 2000 gauge Impermeable Membrane to BS 7533-13:2009; as per Architect's Drawing Nr 1007. Laid in position Over 300mm wide; horizontal	405	m2		
3.13	SC membrane layer; permeable geotextile membrane to BS 7533-13:2009; as per Architect's Drawing Nr 1007. Laid in position Over 300mm wide; horizontal CONCRETE WORK: In-Situ Concrete Reinforced in-situ concrete; Grade C40/50; vibrated	405	m2		
3.14	Paths; to falls and crossfalls Not exceeding 150mm thick CONCRETE WORK: Sundries Movement joint comprising 10mm thick 'Flexcell' or equivalent, top of joint filled with deep gun applied 'Colpor 200' or similar approved on bond breaking tape.	37	m3		
3.15	Design Joints Not exceeding 150mm deep; CONCRETE WORK: Surface Finish Compact using a vibrating screed, tamp and brush finish top of slab to a fair surface to falls and cross falls	102	m		
3.16	Surface Finish Over 300mm wide Bullnosed edging	246	m2		
3.17	Trowelling Over 300mm wide CONCRETE WORK: Formwork Sawn formwork to provide a fairfaced finish	405	m		
3.18	Edges of paths Not exceeding 250mm high SURFACE PAVINGS, FENCING AND LANDSCAPING: Pre-Formed Pavings and Edging Units Permeable Concrete Paving Slabs; Pattern as per Architect's Drawings and Architects Specification. Tobermore Hydropave block paver, to selected colours and mix range, lay stretcher bond pattern, bed on 50 mm good quality grit sand, system designed in accordance with the CIRIA 697, SUDS Manual, minimum joint width 6mm, area of surface voids must exceed 6% of the total paved surface area as per Drawing Nr 1007.	405	m		
3.19	Pavings 208mm x 173mm x 60mm thick, laid to falls and crossfalls	381	m2		
3.20	208mm x 173mm x 80mm thick, laid to falls and crossfalls SURFACE PAVINGS, FENCING AND LANDSCAPING: Pre-Formed Pavings and Edging Units	25	m2		

To Collection

Project: Donohill, Tipp	Details: BQ 6 – Site External Works
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

3		(40) ROADS PATH PAVINGS		(Continued)	
	<u>Precast Concrete Kerb, or equivalent; C16/20 concrete, placed over a minimum width of 300mm and to an initial thickness of 200mm. kerbs to be minimum 125mm and maximum 150mm above finished road surface; all as per Civil Engineers Specification Clauses 5.38 and 5.39.</u> Kerbs				
3.21	254 x 127 mm	89	m		
	Extra over For:				
3.22	Dropped Kerbs	42	m		
3.23	Curved Kerbs	10	m		
	Other Items				
3.24	Provide for all labour, materials, plant and all items which in the tenderers opinion are not specifically allowed for in this section of the works but which can be reasonably inferred from the works requirements as being necessary for the execution and completion of the works. - (List items below)		item		
	(40) ROADS PATH PAVINGS				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 6 – Site External Works
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

3	(40) ROADS PATH PAVINGS				(Continued)
	COLLECTION Page 8: Page 9: Page 10: (40) ROADS PATH PAVINGS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 6 – Site External Works

Code	Description	Quantity	Unit	Rate	Total
4	(50) SITE SERVICES (PIPED & DUCTED)				
	(50) SITE SERVICES (PIPED & DUCTED)				
	<u>Generally</u>				
	<u>INFORMATION</u>				
4.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
4.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
4.3	Refer Specifically but not limited to Architects Drawings; 2741-HLA-A-0001 to 0003.		note		
	<u>NOTES</u>				
4.4	All works to be carried out in accordance with the Project Drawings, Specifications and Preliminary Health & Safety Plan		note		
4.5	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification.		item		
	<u>FOUL WATER DRAINAGE: Drainage Below ground</u>				
	<u>Excavating trenches to receive pipes; starting from existing or stripped level; backfill above the pipe bed and surround (m.e) to formation level with granular material per Clause 601 of the NRA Specification for Roadworks</u>				
4.6	Excavating trenches to receive pipes not exceeding 250mm nominal diameter Trench average 1.50m - 2.00 m deep.	159	m		
	Excavating trenches to receive pipes not exceeding 250mm nominal diameter; Underslab Drainage.				
4.7	Trench average 1.00m - 1.50 m deep.	54	m		
	Extra over excavating to reduced levels irrespective of depth;				
4.8	Excavating around existing services; parallel to excavations;(ARM Qualification)	1	item		
4.9	Excavating around existing services; crossing excavations; (ARM Qualification)	1	item		
	Disposal				
4.10	Ground water	1	item		
4.11	Surface water	1	item		
	<u>Granular fill: to Highways Agency 'Specification for highway works', clause 803: obtained off site; Crushed non-expansive slag to clause 801.2; as per Engineers Specification for Structural Works</u>				
4.12	Beds and coverings to pipes 600 x 700 to 150mm diameter pipe	213	m		
	<u>Drains: approved Thermoplastic structured wall pipes and fittings; to IS EN 13476 (2007/2009) in accordance with section 3.13 of "Wastewater Code of Practice" class 8 kn/m2 for refer to Engineers Specification</u>				
4.13	Pipework; laid in trenches 150mm nominal size	213	m		
	Extra over pipes in which they occur				
4.14	Short lengths; not exceeding 3000 mm long; 100mm nominal size	30	nr		
4.15	Bends 150mm nominal size	54	nr		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 6 – Site External Works

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
4	(50) SITE SERVICES (PIPED & DUCTED)				(Continued)
4.16	Swept branches 150 x 150 x 150mm <u>Pipe accessories: uPVC</u> Pipe accessories; Back Inlet Gully traps; bedding and surround in concrete; excavation; as per Architect's Specification.	36	nr		
4.17	150 outlet; trapped; square 200 x 200 cover top Pipe accessories; Gully traps bedding and surrounding in Grade 20N20 concrete; excavation; as per Architect's Specification.	16	nr		
4.18	150 outlet; trapped; square 200 x 200 cover top Pipe accessories; Access Junctions; bedding and surround in concrete; excavation; as per Architect's and Engineers Specification, covers shall be to IS EN 124	9	nr		
4.19	Square single seal galvanized mild steel locking cover and frame <u>Excavations, disposal, earthwork support, working space, backfilling in clause 808 as before, bed, 225mm thick plain in-situ concrete grade C25/30 on 75mm thick grade C12/15 concrete blinding layer; walls, 225 mm thick blockwork with clause 808 hardcore surround, benching to bottoms in plain in-situ concrete grade 20, steel float finish, include building in ends of pipes, watertight sealing and making good, fully seal base of manholes, include for 3 number courses of Class B engineering brickwork under cover, 600 x 600 mm internal clear opening for cover and frame measured elsewhere, including channels, benching and the like necessary for a complete installation; all as per Engineer's Drawings and Specification;</u> Pipe accessories; Inspection Chambers; as per Engineers Drawings	24	nr		
4.20	1100 mm Square; 1.50m - 2.00m deep <u>Sealed Manholes covers and frames: ductile iron to IS EN 124, Class D400; non-ventilating type with closed keyways, bedding frame in cement mortar [1:3] / to manufacturers requirements; with 215mm solid engineering bricks; sealing cover with grease; all as per Engineer's Specification & Drawings, and Irish Water Code of Practice.</u> Sundries; galvanised cast iron	6	nr		
4.21	Generally; 1200 mm diameter <u>Testing and Commissioning</u> Sundries	6	nr		
4.22	Foul and Surface Water Drainage; in stages and on completion. <u>Completion of a "CCTV" survey; results to be distributed to the Design Team</u> Sundries	1	item		
4.23	Foul and Surface Water Drainage. <u>SURFACE WATER DRAINAGE: Below ground</u> <u>Excavating trenches to receive pipes: starting from existing or stripped level; backfill above pipe bed and surround to formation level with granular material per Clause 601 of the NRA Specification for Roadworks</u> Excavating trenches to receive pipes not exceeding 250mm nominal diameter	1	item		
4.24	Trench average 1.50m - 2.00 m deep. Excavating trenches to receive pipes not exceeding 250mm nominal diameter; Underslab Drainage.	204	m		
4.25	Trench average 1.00m - 1.50 m deep. Extra over excavating to reduced levels irrespective of depth;	25	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 6 – Site External Works

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
4	(50) SITE SERVICES (PIPED & DUCTED)				(Continued)
4.26	Excavating around existing services; parallel to excavations;(ARM Qualification)	1	item		
4.27	Excavating around existing services; crossing excavations; (ARM Qualification)	1	item		
	Disposal				
4.28	Ground water	1	item		
4.29	Surface water	1	item		
	<u>Granular fill to SR21, hardcore clause 808; obtained off site; well compacted with 10mm single size class S granular material to BS 882, all as per Engineer's Specification Section 5.13, and in accordance with the Irish Water Code of Practice for Wastewater Infrastructure.</u>				
	Beds and coverings to pipes				
4.30	600 x 700 to 150mm diameter pipe	228	m		
	<u>Drains: approved Thermoplastic structured wall pipes and fittings; to IS EN 13476 (2007/2009) in accordance with section 3.13 of "Wastewater Code of Practice" class 8 kn/m2 for refer to Engineers Specification</u>				
	Pipework; laid in trenches				
4.31	100 mm nominal size	228	m		
	Extra over pipes in which they occur				
4.32	Short lengths; not exceeding 3000 mm long; 100mm nominal size	48	nr		
4.33	Bends 100mm nominal size	62	nr		
4.34	Swept branches 100 x 100 x 100mm	12	nr		
	<u>Pipe accessories; uPVC</u>				
	Pipe accessories; Gully traps; bedding and surround in concrete; excavation; as per Architect's Specification.				
4.35	100 outlet; trapped; square 200 x 200 cover top	21	nr		
	Pipe accessories; Access Junctions; bedding and surround in concrete; excavation; as per Architect's Specification.				
4.36	Square single seal galvanized mild steel locking cover and frame	14	nr		
4.37	Extra over for; inset type cover; as per Architect's Specification	14	nr		
	<u>Excavations, disposal, earthwork support, working space, backfilling in clause 808 as before, bed, 225mm thick plain in-situ concrete grade C25/30 on 75mm thick grade C12/15 concrete blinding layer ; walls, 225 mm thick blockwork with clause 808 hardcore surround, benching to bottoms in plain in-situ concrete grade 20, steel float finish, include building in ends of pipes, watertight sealing and making good, fully seal base of manholes, include for 3 number courses of Class B engineering brickwork under cover, 600 x 600 mm internal clear opening for cover and frame measured elsewhere, including channels, benching and the like necessary for a complete installation; all as per Engineer's Drawings and Specification;</u>				
	Pipe accessories; Inspection Chambers; as per Engineers Drawings				
4.38	1100 mm Square; 1.50m - 2.00m deep	6	nr		
	<u>Sealed Manholes covers and frames; ductile iron to IS EN 124, Class D400; non-ventilating type with closed keyways, bedding frame in cement mortar [1:3] / to manufacturers requirements; with 215mm solid engineering bricks; sealing cover with grease; all as per Engineer's Specification & Drawings, and Irish Water Code of Practice.</u>				
	Sundries; galvanised cast iron				
4.39	Generally; 1200 mm diameter	6	nr		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 6 – Site External Works

Code	Description	Quantity	Unit	Rate	Total
4	(50) SITE SERVICES (PIPED & DUCTED)				(Continued)
	<u>DRAINAGE CHANNEL</u>				
	<u>Cast in Drain to front doors; as shown on Detail Drawing Nr 1804.</u>				
	Cast In Drains				
4.40	125mm wide.	24	m		
4.41	Extra for end cap.	24	nr		
4.42	Extra for end cap with 100 mm upvc outlet.	12	nr		
	<u>WATERMAIN</u>				
	<u>DRAINAGE: Drainage Below Ground</u>				
	<u>Excavating service trenches to receive pipes; starting from existing or reduced ground levels; filling in with granular material to a depth of 300 over top of pipes; filling in with material to Clause 808 to remainder</u>				
	Excavating trenches to receive pipes not exceeding 250mm nominal diameter				
4.43	Average 1000mm deep	50	m		
4.44	Extra; placing marker tape 350mm below finished ground surface	50	m		
	Extra over excavating to reduced levels irrespective of depth;				
4.45	Excavating around existing services; parallel to excavations;(ARM Qualification)	1	item		
4.46	Excavating around existing services; crossing excavations; (ARM Qualification)	1	item		
	<u>Granular fill: to Highways Agency 'Specification for highway works', clause 803: obtained off site; Crushed non-expansive slag to clause 801.2; as per Engineers Specification for Structural Works</u>				
	Beds and coverings to pipes				
4.47	450 x 450 to 150mm diameter pipe	50	m		
	<u>MDPE / HDPE pipes shall be of a type PE-80 and have an SDR-11 rating. They shall conform to IS EN 12201: Part 1 and Part 2 (Plastic Systems for Water Supply, Drainage and Sewerage Under Pressure Part 1, General, and Part 2, Pipes) and I.S. EN 12201-3 (Plastic Systems for Water Supply, Drainage and Sewerage Under Pressure Part 3: Fittings); as per Engineers's Drawing Nr 1005.</u>				
	Pipework ; laid in trenches				
4.48	25mm nominal size	50	m		
	Extra over pipes in which they occur				
4.49	Bends; 25mm nominal size	21	nr		
	<u>Talbot or Altas range boundary box approved by Local Authority/ Irish Water; telescopic body and circular plastic sealed lid complete with isolation valve, non return valve and push-fit outlets, Water Meter; to Local Authority and Irish Water Specification including control kiosk; with integral stopcock; installed in accordance with the manufacturer's instructions</u>				
	Boundary Box and Connections, as per Engineers Specification				
4.50	Generally	6	nr		
	<u>Water Meter Chamber; to Local Authority and Irish Water Specification including all excavation, disposal, backfilling, formwork, fittings, etc to form enclosure around meter in accordance with engineers specification.</u>				
	Water Meter				
4.51	Generally	6	nr		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 6 – Site External Works
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

4 (50) SITE SERVICES (PIPED & DUCTED) (Continued)

4.52	Indicator posts and plates For Water Meter <u>SUNDRIES: Testing and commissioning</u> <u>Testing and commissioning</u> Testing and Commissioning & Certification in accordance with the Code of Practice for Water Infrastructure IW-CDS-5020-03.	6	nr		
4.53	Allow for testing the watermain in accordance with the Code of Practice for Water Infrastructure refer to section 4.10. including Cleansing of Pipe by scouring and swabbing, pressure testing by experienced personnel in the presence of IW representative, swabbing after testing, disinfection, water quality testing, connection to water network, flushing of water mains, bacteriological tests and submission of final documents. Contractor is strictly referres to IW-CDS-5020-03 and the information contained within tofully comply with the complete instllation of the watermain.	1	item		
4.54	Allow for testing the watermain joints in accordance with the Code of Practice for Water Infrastructure Section 3.10.4, including but not limited to Burst Test, Joint Toughness Test, Joint Ductility Tensile Test, Destructive Weld Test, Pressure Test.	1	item		
4.55	Certification including Independant Third Party Certification as per IW Code of Practice for Water Infrastructure Section 3.10.4. to be PI Bcaked by a qualified Engineer employer by the Contractor.	1	item		
4.56	Tapping to Main Line using under pressure tapplings and suitable tapping rig refer to section 4.14 of the Code of Practice for Water Infrastructure IW-CDS-5020-03, including ferrules and straps meeting requirements of WIS 4-22-02. Other Items	6	nr		
4.57	Provide for all labour, materials, plant and all items which in the tenderers opinion are not specifically allowed for in this section of the works but which can be reasonably inferred from the works requirements as being necessary for the execution and completion of the works. - (List items below) (50) SITE SERVICES (PIPED & DUCTED)		item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 6 – Site External Works
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

4	(50) SITE SERVICES (PIPED & DUCTED)				(Continued)
	COLLECTION Page 12: Page 13: Page 14: Page 15: Page 16: (50) SITE SERVICES (PIPED & DUCTED) Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 6 – Site External Works

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
5	(60) SITE SERVICES (MAINLY ELECTRICAL)				
	(60) SITE SERVICES (MAINLY ELECTRICAL)				
	<u>Generally</u>				
	<u>INFORMATION</u>				
5.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
5.2	Refer specifically but not limited to the following drawings.		note		
5.3	Refer to Don O'Malley Engineers Dwgs - 2306 E100, 2306E101 & 2306 BLD100 Site Services.		note		
	<u>NOTES</u>				
5.4	The Contractor is required to visit the site and ascertain the nature of work involved in this section. No charge for extra labour, plant or material will be allowed in consequence of the Contractors failure to do this.		note		
5.5	The Contractor is required to make himself aware of the presence and location of all existing services and shall take all necessary precautions to avoid interference or damage to these services both overhead and underground during the execution of the works. The Contractor shall make due allowance in his rates for working in and around and maintaining live these services as necessary including the erection of 'goal posts' where necessary. Any damage caused shall be made good at the Contractors own expense.		note		
5.6	All works associated with this element must be executed in strict accordance with the requirements of the Services Engineers; Tenderers must carefully review these documents and make all necessary allowance in their rates for executing work in accordance with these requirements.		note		
5.7	The works hereunder are for the scope of works to be carried out, irrespective of phasing requirements; Tendering Contractors are to include hereunder or elsewhere within the tender for executing the works in the separate phases set out in the Preliminaries section of the Bill of Quantities.		note		
5.8	Working outside the contractors site compound / contractors encroachment area has not been measured separately; Refer to Architects Drawings for details of contractors encroachment area; The Contractor is to include hereunder within his rates for all additional costs in the form of liaising with the employers representative, the camp authorities, additional temporary watching, security, hoarding, lighting, traffic management, road cones etc. when working outside the encroachment area identified.		note		
5.9	Tendering Contractors are to include here or elsewhere within their rates for all costs associated in connection with allowing access to the site to the public utility providers; Contractors are to include for any general or special attendances deemed necessary.		item		
5.10	Tendering Contractors are to include here or elsewhere within the tender for all costs in connection with liasing and programming required in connection with the public utility providers.		item		
	<u>ESB & TELECOMS</u>				
	<u>Excavating services trenches to receive pipes; starting from existing or stripped level; filling in with sand to a depth of 200mm over top of pipes; filling in with hardcore obtained off site to remainder; as detailed on drawing nr. 2306/BLD100</u>				
	Excavating trenches to receive multiple ducts Detail E-E				
5.11	Average 900mm deep	73	m		
5.12	Extra; placing marker tape 150mm below top of filling	146	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 6 – Site External Works

Code	Description	Quantity	Unit	Rate	Total
5	(60) SITE SERVICES (MAINLY ELECTRICAL)				(Continued)
	Granular fill: to Highways Agency 'Specification for highway works', clause 803: obtained off site: Crushed non-expansive slag to clause 801.2: in accordance ESB & Local Authority Requirements; as per Engineers Specification for Structural Works				
	Bedding and Surround; trenches to receive pipes; refer to Engineers Drawing 2306/BLD100 for details				
5.13	Width & Thickness; to Suit; (Detail E-E)	73	m		
	<u>Disposal</u>				
	Water				
5.14	Surface	1	item		
5.15	Ground	1	item		
	<u>ESB</u>				
	<u>Hard PVC pipes and fittings; BS3506; loose coupler and sealing ring</u>				
	Pipework; laid in trenches				
5.16	50 mm nominal size; ESB	73	m		
5.17	Extra over for; draw wire	73	m		
	Extra over pipes in which they occur				
5.18	Bends; 50mm nominal size	12	nr		
5.19	Long radius Bends shorts connection piece and hockey stick to meter box as per ESB Requirements & Drawing BLD 200; 50mm nominal size	6	nr		
	<u>EIR</u>				
	<u>Hard PVC pipes and fittings; BS3506; loose coupler and sealing ring</u>				
	Pipework; laid in trenches				
5.20	50mm nominal size; Eir.	73	m		
5.21	Extra over for; draw wire	73	m		
	Extra over pipes in which they occur				
5.22	Bends; 50mm nominal size	12	nr		
5.23	Long radius Bends shorts connection piece and hockey stick to meter box as per ESB Requirements & Drawing BLD200; 50mm nominal size	6	nr		
	Other Items				
5.24	Provide for all labour, materials, plant and all items which in the tenderers opinion are not specifically allowed for in this section of the works but which can be reasonably inferred from a site inspection and the works requirements as being necessary for the execution and completion of the works. – (List items below)	1	item		
	(60) SITE SERVICES (MAINLY ELECTRICAL)				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 6 – Site External Works
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

5	(60) SITE SERVICES (MAINLY ELECTRICAL)				(Continued)
	COLLECTION Page 18: Page 19: (60) SITE SERVICES (MAINLY ELECTRICAL) Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 6 – Site External Works

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
6	(80) LANDSCAPING				
	(80) LANDSCAPING				
	<u>Generally</u>				
	<u>INFORMATION</u>				
6.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
6.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
6.3	Refer Specifically but not limited to Architects Drawings; 2798-HLA-00-ZZ-DR-A-1001		note		
	<u>NOTES</u>				
6.4	All works to be carried out in accordance with the Project Drawings, Specifications and Preliminary Health & Safety Plan		note		
6.5	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification.		item		
	<u>SURFACE PAVINGS, FENCING AND LANDSCAPING: Grassing and Planting</u>				
	<u>Topsoil; depositing in layers 150mm maximum thickness; gentle firm each layer before spreading next; treated with weedkiller; to side and rear of Housing Units; Spread and level preserved topsoil in 150 mm compacted layers over areas to be grassed, 450 mm overall thickness</u>				
6.6	Topsoil; from spoil heaps 450 mm overall thickness.	1,278	m2		
	<u>Cultivating; surfaces of filling; Arch Spec; to side and rear of Housing Units</u>				
	Cultivating;				
6.7	Rotavating 150mm deep; grading, removing debris; harrowing; weeding; preparing for seeding	1,278	m2		
	<u>Grading; to front, side and rear of Housing Units</u>				
	Grading;				
6.8	Preparing for final cultivation	1,278	m2		
	<u>Surface applications; Apply both Superphosphate with a minimum of 18% water soluble phosphoric acid; A sulfate of ammonia with a minimum of 20% nitrogen; Spread evenly, each type at 70 g/m2, in transverse directions Arch Spec; to front, side and rear of Housing Units</u>				
6.9	Surface Applications; >300 mm wide	1,278	m2		
	<u>Final Cultivating; surfaces of filling; to rear of Housing Units</u>				
	Final Cultivating;				
6.10	Preparing for seeding	1,278	m2		
	<u>Seeding; Quality of seed; standard EC purity and germination regulations; Blue Label Certification; to side and rear of Housing Units</u>				
	Seeding;				
6.11	Grass seed; 20-35g/m2; raking in	1,278	m2		
	<u>MAINTENANCE</u>				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 6 – Site External Works
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
6	(80) LANDSCAPING				(Continued)
6.12	First Cut: When grass is reasonably dry and height of 75mm contractors to carry out first cut : removing all large stones and any litter/debris. Cutting Exceeding 300mm wide Contractor is to carry out the maintenance of grass areas until the end of the defects liability period. in accordance with Architects Specification	1,278	m2		
6.13	Maintenance >300 mm wide.	1	item		
6.14	Other Items Provide for all labour, materials, plant and all items which in the tenderers opinion are not specifically allowed for in this section of the works but which can be reasonably inferred from a site inspection and the works requirements as being necessary for the execution and completion of the works. - (List items below) (80) LANDSCAPING	1	item		
To Collection					



Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 6 – Site External Works

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

6 (80) LANDSCAPING

(Continued)

COLLECTION

Page 21:

Page 22:

(80) LANDSCAPING
Carried to Summary:

Project: Donohill, Tipp	Details: BQ 6 – Site External Works
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
	COLLECTION SUMMARY	PAGE NO			
	(20) SITE STRUCTURES	1			
	(30) SITE ENCLOSURES	3 - 6			
	(40) ROADS PATH PAVINGS	8 - 10			
	(50) SITE SERVICES (PIPED & DUCTED)	12 - 16			
	(60) SITE SERVICES (MAINLY ELECTRICAL)	18 - 19			
	(80) LANDSCAPING	21 - 22			
	Total Amount:				

BILL NR.7 - SITE DEVELOPMENT WORKS

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 7 – Site Development Works

Code	Description	Quantity	Unit	Rate	Total
1	(10) PREPARED SITE				
	(10) PREPARED SITE				
	<u>Generally</u>				
	<u>INFORMATION</u>				
1.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
1.2	The Contractor can make arrangements to visit the site by contacting the Architect. The Contractor will be deemed to have visited the site to ascertain the the nature, character, dimensions, levels and other features of all existing buildings and features described below for demolition/repair. The Contractor will be deemed to have taken all the above matters into account when tendering and no charge for any extra labour or materials will be allowed in consequence of the Contractor's failure to do this.				
1.3	The rates for excavation works shall include for hand or machine excavation, for excavating in and handling whatever materials may be met with including loose and compacted hardcore, rubble and the like, and for grubbing up any disused drains, pipes, cables, roots and any other obstructions met with except only rock, concrete, reinforced concrete and brick block stonework structures.				
1.4	The Contractor shall allow for providing and erecting all necessary barricades, properly planked footways, watching and lighting for the due protection of workmen and the public during the execution of the works. Providing road signs for the diversion of traffic as required by the Authorities. Altering, shifting and adapting barricades as necessary and finally removing when no longer required.	1	item		
1.5	The Contractor is required to make himself aware of the presence and location of all services over the site and shall take all necessary precautions to avoid interference or damage to these services during the execution of the works. The Contractor shall make due allowance in his rates for working in and around and maintaining live these services as necessary. Any damage caused shall be made good at the Contractors own expense.				
1.6	Should the Contractor excavate below the reduce levels shown without specific instructions to do so, he will be required to make good at his own expense, in hardcore.				
1.7	The Contractor is required to visit the site and ascertain the nature of work involved in this section. No charge for extra labour, plant or material will be allowed in consequence of the Contractors failure to do this.				
1.8	ARM Qualification: Refer to Architects Drawings for the location of the works outside the Contractors site boundary. Excavation within 1.00 m of an existing building is not measured separately.				
	<u>DRAWINGS</u>				
1.9	Refer Specifically but not limited to Architects Drawings; 2798-HLA-00-ZZ-DR-A-1001 & 2798-HLA-00-ZZ-DRE-E-1009.		note		
	<u>NOTES</u>				
1.10	Tendering Contractor to visit the site in accordance with the Invitation To Tender to ascertain the full extent of the works to be completed.		note		
1.11	Contractor to uncover manholes and determine all Invert Levels of all connections before commencing construction works.		note		
1.12	All demolition work is to be carried out in accordance with BS 6187 and the Health and Safety Executive Guidance Notes GS29/1, 3 and 4; All operatives must be appropriately skilled and experienced for the type of work and must hold or be training to obtain relevant CITB Certificates of Competence; All site staff responsible for supervision and control of work are to be experienced in the assessment of the risks involved and in the methods of demolition to be used.	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 7 – Site Development Works

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(10) PREPARED SITE				(Continued)
1.13	It is recommended that the accepting disposal facility is contacted prior to disposal of the fill material in order to verify the class of soil for disposal. Individual facilities may require additional testing prior to disposal, the contractor must include for all relevant testing in line with their chosen receiver to classify the material. Prior to removal of all soil material from the site, the contractor is to ensure that the Receiver is appropriately licenced to receive the material. This should involve obtaining a letter of acceptance from the Receiver & a copy of relevant waste disposal licence/certificate from the receiver. All dockets pertaining to the disposal & testing of waste should be kept on file for the duration of the contract. The contractor should allow sufficient time in their programme for detailed soil classification testing prior to any bulk removal of soil from the site. The contractor should also allow for the segregation of soil waste into different categories in accordance with the quantities found. The contractor is ultimately responsible for obtaining the necessary licences for the disposal off material off site and any required testing to classify same. Refer to Engineers Specifications & Site Investigation Report.	1	item		
1.14	Prior to the commencement of development, the contractor shall prepare a Construction and demolition resource waste management plan (RWMP) as set out in the Best Practice Guidelines for the Preparation of Resource and Waste Management Plans for C&D Projects (2021) including demonstration of proposals to adhere to best practice and protocols. The RWMP shall include specific proposals as to how the RWMP will be measured and monitored for effectiveness, these details shall be placed on the file and retained as part of the public record. The RWMP must be submitted to the planning authority for written agreement prior to the commencement of the development. All records (including for waste and all resources) pursuant to the agreed RWMP shall be made available for inspection at the site office at all times <u>RISK ITEMS</u> Schedule Part 1 Section K	1	item		
1.15	An Item of archaeological interest or human remains is found on the Site and it was unforeseeable	1	item		
1.16	The Contractor encounters on the site unforeseeable ground conditions (not resulting from weather) or unforeseeable human-made obstructions in the ground other than Utilities	1	item		
1.17	The Contractor encounters unforeseeable Utilities in the ground on the Site.	1	item		
1.18	Owners of Utilities on the Site do not relocate or disconnect Utilities as stated in the Works Requirements, when the Contractor has complied with their procedures and procedures in the contract and the failure is unforeseeable. <u>TEMPORARY TRAFFIC WORKS/TRAFFIC MANAGEMENT</u>	1	item		
1.19	The contractor shall undertake the role of Designer for Temporary Traffic Works / Traffic Management (TTM). The Designer (TTM) is responsible for the design of the temporary traffic Management arrangements and the preparation of the Temporary Traffic Management Plan for the site and shall apply for and secure all road opening licences necessary to execute the works. the Temporary Traffic Management Plan should be provided to the PSDP for inclusion in the Preliminary Safety & Health Plan. The Temporary Traffic Management Plan may need further development to deal with specific operations during the Construction Stage	1	item		
1.20	Performance of the duties of Designer of Temporary Works / Traffic Management, is as specified in the Safety, Health and Welfare at Work (Construction) Regulations 2013 (S.I. No. 291) of 2013 and the Guidance for the Control and Management of Traffic at Road Works (Chapter 8 of the Dept of Transport Traffic Signs Manual) and any updates to these documents that may occur during the lifetime of the project/contract.	1	item		
1.21	Signed acceptance of this role will form part of the contract documentation	1	item		
1.22	The contractor shall present a TTM/TTW to the Planning Authority for agreement and approval prior to the commencement of the development	1	item		
1.23	Works shall not commence on site until the written agreement and approval of the Planning Authority is received <u>CONSTRUCTION MANAGEMENT PLAN</u>	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 7 – Site Development Works

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(10) PREPARED SITE				(Continued)
1.24	The contractor shall provide a CMP where input and agreement from local residents and Tipperary County Council Local Area Office is sought before works commence <u>WHEEL WASH</u>	1	item		
1.25	The contractor shall provide a wheel wash facility on site and details of this shall be provided to the Planning Authority for agreement and approval prior to works commencing <u>NOISE,VIBRATION, DUST</u>	1	item		
1.26	The contractor shall include for having continuous monitoring of noise, vibration an dust during the contract to show that noise, vibration and dust levels are within the limits required by the planning or other acceptable environmental limits <u>SITE MATERIAL MANAGEMENT AND ENVIRONMENTAL COMPLIANCE</u>	1	item		
1.27	Contractors must refer to the detailed findings of the site investigation report to ascertain the classification and characteristics of the material to be removed from the site. Prior to the commencement of any haulage or disposal activites, it is the Contractors responsibility to engage with the intended waste facility to confirm acceptance of the material. This engagement must include veri9fication of the facilitys acceptance criteria against the materials current classification, ensuring compliance with the Waste Acceptance Criteria (WAC) and other relevant regulations. Documentation of this confirmation must be provided as part of the waste management plan	1	item		
1.28	The EWC code 17 05 04 described a non-hazardous material, this code is needed for the transport company haulage licence	1	item		
1.29	The WAC is needed at the gate of the landfill facility, the WAC identified an excedence of TOC 4.4% inert limit 3% but DOC was <500mg/kg so an inert landfill may be able to accept the material	1	item		
1.30	The Contractor should present the WAC cert to the landfill at which they intend to dispose of the excavated made ground material to check if the excavated material can be accepted at that landfill	1	item		
1.31	If the contractor is proposing to reuse the material on site. The Contractor must submit a detailed Method Statement if proposing to reuse excavated matrial on-site. This statement must outline the procedures and measures to be undertaken to ensure that the reused material meets inert waste criteria as per relevant environmental regulations	1	item		
1.32	A comprehensive Testing Regime must also be provided, specifying the frequency and types of tests (such as TOC and DOC analyses) to confirm the inert status of the material. The Contractor shall be responsible for the validity and reliability of the test results	1	item		
1.33	Furthermore, the Contractor shall acknowledge that the Waste Acceptance Criteria (WAC) certificate for the material in question is dated 2021. An updated WAC certificate may be required to reflect current conditions of the material, and the costs for obtaining this updated certification should be factored into the pricing document	1	item		
1.34	All proposed reuse of material must be in strict compliance with the current legal and environmental standards, ensuring no contamination risk to the site or the surrounding environment. Failure to provide the necessary documentation or to comply with the outlined standards will result in the rejectionof the proposed reuse of the material. Note all this must be assessed in conjunction with the Jananese Knotweed report and specification <u>CONDITION SURVEY</u>	1	item		
1.35	The Contractor is to allow for detailed pre-construction and detailed post construction dilapidation surveys of all shared boundary walls and adjoining properties as well as liaison with adjoining owners and/or their representatives. The Contractor is to allow for liaising with and providing detailed methodologies for works close to adjoining properties to the adjoining owners and/or their representatives. Two number copies of all surveys are to be made available to the Architect. The Contractor is to communicate to the adjoining owners the updated programme of works on a regular basis.	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 7 – Site Development Works

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
1	(10) PREPARED SITE				(Continued)
1.36	The Contractor shall carry out all necessary vibration monitoring for the duration of the contract and the defects liability period. The contractor will be responsible for making good at his own expense all remedial works (if any) as a result of his own work on site <u>ARCHAEOLOGIST</u>	1	item		
1.37	The Contractor's attention is drawn to the requirements for the presence and supervision of all excavation works by a professional Archaeologist. Please refer to Architects Specification for details regarding archaeology on the site and the employment of an Archaeologist.	1	item		
1.38	The Contractor shall provide for employment of a suitably qualified Archaeologist for the duration of the works where necessary to monitor excavation and earthmoving works. Should archaeological material be found during the course of the works, work shall be stopped pending decision from National Monuments Service of the Department of Culture, Heritage and the Gaeltacht of how to proceed. The Contractor shall facilitate the Archaeologist in recording any material discovered. Any such artefacts shall be recorded and a report furnished to the Heritage and Planning Division of the Planning Authority describing the results of the monitoring.	1	item		
1.39	The Contractor shall note that a licence for monitoring the scheme has been obtained by the Clients archaeologist from the Dept. of Culture, Heritage and the Gaeltacht. The Contractor shall allow sufficient time for the licence to be transferred to the Contractors archaeologist prior to commencement of groundworks <u>DEMOLITIONS AND ALTERATIONS - Demolitions Site Structures</u> <u>DEMOLITION & ALTERATIONS: Removal of hard pavings</u> <u>Breaking up Existing: Boundary walls to be demolished and removed off site.</u> <u>Contractors to liaise with neighbors. and temporary protection to be included for the duration of the boundary works</u> Walls (Site Boundary with neighbours)	1	item		
1.40	Generally <u>Breaking up and excavation of Existing Road surface and dispose off site in accordance with waste disposal regulations.</u> Hardscaped Areas	129	m2		
1.41	Generally <u>Breaking up and excavation of Existing footpaths and dispose off site in accordance with waste disposal regulations.</u> Hardscaped Areas	746	m2		
1.42	Generally <u>EXCAVATION AND EARTHWORKS: Excavation</u> <u>Composite Item: Allow for the removal of all trees, plants, shrubs, grass and scrub, blocks, manhole rings, hoarding to the site areas and any other items deemed necessary to be removed for commencement of the works.</u> Site Clearance	213	m2		
1.43	Generally. Removing	1	item		
1.44	Site vegetation. <u>Excavation</u> Topsoil; stored in spoil heaps	2,333	m2		
1.45	Average 400mm deep. Reduce levels	934	m3		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 7 – Site Development Works

Code	Description	Quantity	Unit	Rate	Total
1	(10) PREPARED SITE				(Continued)
1.46	Starting at stripped level; Exceeding 2.00m deep.	1,675	m3		
	Extra over excavating to reduced levels irrespective of depth;				
1.47	Excavating through rock	335	m3		
	Extra over for grading				
1.48	Graded Works; slope exceeding 15 degrees	151	m2		
	Extra over excavating to reduced levels irrespective of depth;				
1.49	Excavating alongside or next to existing water services pipework	1	item		
	Disposal of water				
1.50	Surface	1	item		
1.51	Ground	1	item		
	Disposal of excavated material				
1.52	Off-site	1,675	m3		
1.53	Extra over for				
1.54	Off-site to a to licenced waste facility including compliance with the facility's acceptance criteria against the materials current classification and compliance with the Waste Acceptance Criteria (WAC) Certificate	1	item		
	<u>Filling: hardcore filling to be Granular material, free from excessive dust, well graded, all pieces less than 75 mm in any direction, minimum 10% fines value of 50 kN when tested in a soaked condition to BS 812-111, spread and levelled in 150mm maximum layers; as per Engineers Specification for Structural Works</u>				
	To make up levels				
1.55	Starting at stripped level; Exceeding 2.00m deep	168	m3		
	Other Items				
1.56	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below)		item		
	(10) PREPARED SITE				

To Collection



Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 7 – Site Development Works

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

1 (10) PREPARED SITE

(Continued)

COLLECTION

Page 1:

Page 2:

Page 3:

Page 4:

Page 5:

(10) PREPARED SITE
Carried to Summary:

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 7 – Site Development Works

Code	Description	Quantity	Unit	Rate	Total
2	(30) SITE ENCLOSURES				
	(30) SITE ENCLOSURES				
	<u>Generally</u>				
	<u>INFORMATION</u>				
2.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
2.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
	<u>NOTES</u>				
2.3	All works to be carried out in accordance with the Project Drawings, Specifications and Preliminary Health & Safety Plan		note		
2.4	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification.		item		
2.5	The Contractor is referred to the Site Investigation report for the information concerning the site, ground conditions sub-strata water levels and other relevant data.		note		
2.6	The contractor should note that the following measured works are bounding two number neighbours property. The Contractor must liaise with the neighbours prior to commencing works.	1	item		
2.7	The Contractor must make good any work disturbed in the Neighbours garden/property	1	item		
2.8	Refer to Drawing Nr. DR-A-1001 for locations of Boundary Wall Type 6 & 7	1	item		
	<u>EXCAVATION AND EARTHWORKS: Excavation</u>				
	<u>Excavation</u>				
	Foundation trenches				
2.9	Starting at stripped or reduced ground levels; not exceeding 2.00m deep	45	m3		
2.10	Extra over for				
2.11	Working in neighbours garden/property (52m long approx)	1	item		
2.12	Shoring up existing neighbours shed to facilitate the construction of the retaining wall	1	item		
2.13	Making good all works disturbed in neighbours property during the course of the boundary wall works (52m long approx)	1	item		
2.14	Allow for temporary protection/security to protect neighbours property/boundary during the course of the boundary wall works (52m approx)	1	item		
	Disposal of water				
2.15	Surface.	1	item		
	Disposal of excavated material				
2.16	Off site.	45	m3		
	<u>Filling: crushed stone; to SR21 specification, Clause 804 filling; depositing in layers 150mm maximum thickness; compacting by mechanical means</u>				
	To excavations				
2.17	Average thickness exceeding 250mm thick.	34	m3		
	<u>CONCRETE WORK: In-Situ Concrete</u>				
	<u>Plain in-situ concrete, Grade C12/15; vibrated (Lean mix); all as per Engineer's Specification</u>				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 7 – Site Development Works

Code	Description	Quantity	Unit	Rate	Total
2	(30) SITE ENCLOSURES				(Continued)
2.18	Bulk filling; foundation footings; poured on or against earth or unblinded hardcore Generally <u>Reinforced in-situ concrete; Grade C30/37; vibrated</u>	8	m3		
2.19	Foundations; poured on or against earth or unblinded hardcore Generally. <u>CONCRETE WORK: Reinforcement</u> <u>Reinforcement; mesh fabric: BS 4483;</u> Reference A393; 400mm laps	21	m3		
2.20	Horizontal in Foundations <u>Reinforcement; bars: BS 4449:2005; high yield steel; all as per Engineer's Specification.</u>	68	m2		
2.21	Straight or bent 12mm - 25mm diameter <u>Sawn formwork</u>	1.60	tn		
2.22	Walls Sides of foundation, exceeding 250mm high. <u>BRICKWORK AND BLOCKWORK: Brickwork/Blockwork</u> <u>Solid concrete blocks to BS EN 6073-1, dense aggregate, nominal size 440 x 215 x 100 mm, minimum compressive strength 13 N/mm2, half lap stretcher bond; all as per Engineers Specification Clause F10 350A; refer to Engineers Drawing Nr. DR-E-3002 for details</u>	104	m		
2.23	Retaining Walls (wall type 6) 440mm thick <u>Composite Item: Hollow Blockwork 440 x 215 x 215 mm, minimum compressive strength 13 N/mm2, fill the block using concrete grade C30N10 with 10 mm maximum aggregate size, reinforced with 2 no H12 rebar and H8 links at 100 mm c/c cast into foundation, refer to Engineer's Drawings DR-E- 3003. for details.</u>	51	m2		
2.24	Retaining Walls (Wall Type 7) 440mm thick <u>Solid concrete blocks to BS EN 6073-1, dense aggregate, nominal size 440 x 215 x 100 mm, minimum compressive strength 7.5 N/mm2, half lap stretcher bond; all as per Engineers Specification Clause F10 350A; refer to Engineers drawings DR-E-3002 & 3003 for details</u>	31	m2		
2.25	Walls (Wall Type 6 & 7) 215 mm thick	94	m2		
2.26	Piers 440 mm thick <u>BRICKWORK AND BLOCKWORK: Sundries</u> <u>Movement joints: 10mm thick Flexcell Board or equivalent to blockwork closed cell at 5400mm centres; faced both sides with 10 x 10mm Hilastic 44 or equivalent; refer to Architect's Drawings 3001, 3002 & 3003. for details.</u>	20	m2		
2.27	Design Joints 10 mm wide; 650 mm deep; vertical	17	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 7 – Site Development Works

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
2	(30) SITE ENCLOSURES				(Continued)
	<u>CONCRETE WORK: In-situ Concrete - Composite Item</u>				
	<u>Reinforced in-situ Concrete: Concrete grade 40N/mm². 2nr 10mm diameter reinforcement bars: with a fair finish on all surfaces. bed and point in gauged mortar: 150mm x 50mm galvanised steel anchor built into blockwork, weathered and throated both sides: including concrete, formwork, reinforcement; refer to Architect's Drawings 3002 & 3003. for details.</u>				
	Wall Capping				
2.28	550 x 150 mm thick.	52	m		
	Pier Capping				
2.29	550 x 550 mm	24	nr		
	<u>FLOOR, WALL AND CEILING FINISHINGS: In-Situ Finishes</u>				
	<u>External Render: cement:sand (air entrained); preparation: spatterdash keying coat; undercoats:- mix: 1:2.5-3.5 masonry cement:sand; thickness (excluding dubbing out and keys): first undercoat 8-12 mm (exclusive of keys). second undercoat 6-10 mm; final coat: mix: 1:2.5-3.5 masonry cement:sand; other requirements: screen sand through 3 mm mesh sieve; thickness: 8-11 mm prior to scraping; finish: nap; accessories: stainless steel beads including all stop beads, angles beads and associated accessories:</u>				
	Walls; to blockwork surfaces; externally				
2.30	Blockwork walls, exceeding 300 mm wide.	260	m ²		
2.31	Extra over for plastering neighbour side of wall; in neighbours property, make good any work disturbed	94	m ²		
	<u>Sundries: Beads</u>				
	<u>"Expamet" or equal plaster beads; stainless steel; fixing with dabs of mortar</u>				
	Beads				
2.32	Angle Beads.	137	m		
	<u>Stainless steel, grade 304/S15; 'Expamet' by the Expanded Metal Company Limited or equal approved: to masonry.</u>				
	Beads				
2.33	Stop Beads.	45	m		
	<u>EXCAVATION AND EARTHWORK: French Drain to Retaining Wall</u>				
	<u>Excavating trenches to receive pipes; starting from existing or stripped level; Engineers Drawing DR-E-3002 & 3003.</u>				
	Excavating trenches to receive pipes not exceeding 100mm nominal diameter				
2.34	Trench average 1.5 – 2.0m deep.	52	m		
	<u>Gravel bed and surround laid in trench consisting of 20-30mm single sized pea gravel, include for carrying up for the full width of the bed in a square section to a minimum thickness of 600 mm deep, as shown as Engineers Drawing DR-E-3002 & 3003</u>				
	Beds and coverings to pipes				
2.35	600 x 600 to 150mm diameter pipe	52	m		
2.36	Disposal				
2.37	Disposal of surface water.	1	item		
2.38	Disposal of ground water.	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 7 – Site Development Works
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
2	(30) SITE ENCLOSURES				(Continued)
2.39	<u>Drains; approved uPVC pipes and fittings</u> Pipework; laid in trenches 150 mm diameter perforated land pipe laid and jointed in trench. <u>Terram Geotextile membrane; Terram 1000 or equivalent; laid in strict accordance with the manufacturer's instructions; All as per Architect's Specification; as shown as Engineers Drawing DR-E-3002 & 3003</u> Wrapped around pipe bedding; Laid in position	52	m		
2.40	Girth 4200 mm; horizontal Other Items	52	m		
2.41	Provide here for all labour, materials, plant and other items not specifically mentioned above but which, in the tenderers opinion, are inferred from the works requirements documents as being necessary for the proper execution and completion of the works (List Items Below) (30) SITE ENCLOSURES	1	item		
To Collection					

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 7 – Site Development Works
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

2	(30) SITE ENCLOSURES				(Continued)
	COLLECTION Page 7: Page 8: Page 9: Page 10: (30) SITE ENCLOSURES Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 7 – Site Development Works

Code	Description	Quantity	Unit	Rate	Total
3	(40) ROADS PATH PAVINGS				
	(40) ROADS PATH PAVINGS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
3.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
3.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
3.3	Refer Specifically but not limited to Architects Drawings; 2798-HLA-00-ZZ-DR-A-1001 & 2798-HLA-00-ZZ-DR-E-1007		note		
3.4	Refer Specifically but not limited to Services Engineers Drawings.		note		
	<u>NOTES</u>				
3.5	All works to be carried out in accordance with the Project Drawings, Specifications and Preliminary Health & Safety Plan		note		
3.6	Accessible on-street parking spaces will be built as shown on Architects & Engineers Layouts, and are distinct from the new access road		note		
3.7	The proposed car parking spaces will be delineated as shown on Architects & Engineers Layouts,		note		
3.8	The contractor will obtain the appropriate Road Opening License from Tipperary County Council before doing any excavation or work in the public realm: landscaped open spaces, foot-paths, roads, kerbs, verges		note		
3.9	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification.	1	item		
	<u>EXCAVATION AND EARTHWORK: Excavation</u>				
	<u>Filling: crushed stone; Clause 803 compacted gravel; as per Engineers Report</u>				
	To make up levels				
3.10	Not exceeding 250mm thick	60	m3		
	<u>Filling: hardcore filling to be Granular material, free from excessive dust, well graded, all pieces less than 75 mm in any direction, minimum 10% fines value of 50 kN when tested in a soaked condition to BS 812-111, spread and levelled in 150mm maximum layers; as per Engineers Specification for Structural Works</u>				
	To make up levels				
3.11	Exceeding 250mm thick	39	m3		
	<u>Surface treatments</u>				
	Filling; graded 6.3 - 2mm grit to BS1342:2002; 50mm thick				
3.12	Blinding surfaces of hardcore filling	238	m2		
	<u>SC membrane layer; 2000 gauge Impermeable Membrane to BS 7533-13:2009; as per Architect's Drawing Nr 1007.</u>				
	Laid in position				
3.13	Over 300mm wide; horizontal.	25	m2		
	<u>CONCRETE WORK: In-Situ Concrete</u>				
	<u>Reinforced in-situ concrete; Grade C30; as per Engineers Report</u>				
	Paths; to falls and crossfalls				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 7 – Site Development Works

Code	Description	Quantity	Unit	Rate	Total
3	(40) ROADS PATH PAVINGS				(Continued)
3.14	Exceeding 150mm thick <u>CONCRETE WORK: Sundries</u> <u>Movement joint comprising 10mm thick 'Flexcell' or equivalent to comply to I.S. 36 type IF, in concrete footpaths.</u> Design Joints	32	m3		
3.15	Not exceeding 150mm deep; <u>CONCRETE WORK: Surface Finish</u> <u>Compact using a vibrating screed, tamp and wire brush finish top of slab to a fair surface to falls and cross falls</u> Surface Finish	70	m		
3.16	Over 300mm wide <u>Bullnosed edging</u> Trowelling	213	m2		
3.17	Over 300mm wide <u>CONCRETE WORK: Formwork</u> <u>Sawn formwork to provide a fairfaced finish</u> Edges of paths	220	m		
3.18	Not exceeding 250mm high <u>SURFACE PAVINGS, FENCING AND LANDSCAPING: Pre-Formed Pavings and Edging Units</u> <u>Blister Tactile Type A concrete paving slabs to comply with BS EN 1338: Concrete paving flags with buff (yellow) colour at uncontrolled crossing points: as per Architect's Drawing Nr 1007.</u> Tactile Paving; (2 Number Isolated Locations)	220	m		
3.19	400 x 400 x 50 mm thick, laid to falls and crossfalls.	5	m2		
3.20	Extra over for breaking up existing footpath and kerb, installing dropped kerb, to facilitate the installation of the tactile paving on existing footpath; outside site boundary; allow for all traffic and pedestrian management; refer to drawing nr. DR-A-1001 <u>SURFACE PAVINGS, FENCING AND LANDSCAPING: Pre-Formed Pavings and Edging Units</u> <u>Precast Concrete Kerb, or equivalent; 254 x 127 mm foundation and 100 x 100mm haunching in concrete grade 30N20; excavation; formwork; including all ends and angles, bedding and jointing in cement mortar (1:4); as per Engineer's Drawing</u> Kerbs	2	nr		
3.21	254 x 127 mm, half battered Extra over For:	72	m		
3.22	Dropped Kerbs <u>SURFACE PAVINGS, FENCING AND LANDSCAPING: In-Situ Surface Pavings</u> <u>Asphalt Concrete Surface to Roads. Refer to Engineers Drawing DR-A-1001 & for details</u> Surface Course; 40mm graded asphalt surface course of AC 10 close surf 70/100, to Clause 912 of CC-SPW-00900 and I.S. EN 13108-1; all as per Specification for Civils Works.	44	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 7 – Site Development Works
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
3	(40) ROADS PATH PAVINGS				(Continued)
3.23	Laid to falls and crossfalls. Binder Course; 60mm asphalt concrete binder surface course of AC20 dense bin 70/100 des' binder course to Clause 906/929 of CC-SPW-00900, laid in accordance with Table 16 thickness limits and CC-SPW-00700; as per Specification for Civils Works.	746	m2		
3.24	Laid to falls and crossfalls. Extra over for:	746	m2		
3.25	Fair joint with existing road surface	15	m		
3.26	Fair joint with paving surface	25	m		
3.27	Working around manhole covers, or the like.	15	nr		
3.28	Working around road gullies, or the like.	8	nr		
	<u>SURFACE PAVINGS, FENCING AND LANDSCAPING: In-Situ Surface Pavings</u> <u>Thermoplastic road marking paint; to selected colours as per Architects Schedule of Items Number 8; applied in strict accordance with the manufacturers instructions; all as per Architect's Drawing Nr 1007.</u> Line Marking				
3.29	RRM 001.	6	m		
3.30	RRM 017	3	m		
3.31	Middle Broken Line RRM 002B	72	m		
3.32	Solid Line	37	m		
3.33	Stop Lettering M 114. The following are to be in accordance with Chapter 7 of the Department of Transport Traffic Signs Manual:	1	nr		
3.34	Standard disabled car parking sign approximate size 2.50 x 1.20 m	1	nr		
3.35	Extra over last for marking spaces with blue thermoplastic paint, size 4.00 x 6.00 m. The following are to be in accordance with Chapter 7 of the Department of Transport Traffic Signs Manual:	1	nr		
3.36	Standard EV car parking sign approximate size 2.50 x 1.20 m	1	nr		
3.37	Extra over last for marking spaces with green thermoplastic paint, size 4.00 x 6.00 m. Other Items	1	nr		
3.38	Provide for all labour, materials, plant and all items which in the tenderers opinion are not specifically allowed for in this section of the works but which can be reasonably inferred from the works requirements as being necessary for the execution and completion of the works. - (List items below) (40) ROADS PATH PAVINGS	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 7 – Site Development Works
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

3	(40) ROADS PATH PAVINGS				(Continued)
	COLLECTION Page 12: Page 13: Page 14: (40) ROADS PATH PAVINGS Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 7 – Site Development Works

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
4	(50) SITE SERVICES (PIPED & DUCTED)				
	(50) SITE SERVICES (PIPED & DUCTED)				
	<u>Generally</u>				
	<u>INFORMATION</u>				
4.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
4.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
4.3	Refer Specifically but not limited to Architects Drawings; 2741-HLA-A-0001 to 0003.		note		
4.4	Refer Specifically but not limited to M&E Engineers Drawings 23.2654-bld 100 to 23.2654-bld 400.		note		
	<u>NOTES</u>				
4.5	The Contractor is required to visit the site and ascertain the nature of work involved in this section. No charge for extra labour, plant or material will be allowed in consequence of the Contractors failure to do this.		note		
4.6	The Contractor is strictly referred to Irish Water Code of Practice for Wastewater Infrastructure and the Details contained within, when pricing this Section.		note		
4.7	The Contractor is required to make himself aware of the presence and location of all existing services and shall take all necessary precautions to avoid interference or damage to these services both overhead and underground during the execution of the works. The Contractor shall make due allowance in his rates for working in and around and maintaining live these services as necessary including the erection of 'goal posts' where necessary. Any damage caused shall be made good at the Contractors own expense.		note		
4.8	All works associated with this element must be executed in strict accordance with the requirements of the Services Engineers; Tenderers must carefully review these documents and make all necessary allowance in their rates for executing work in accordance with these requirements.		note		
4.9	The works hereunder are for the scope of works to be carried out, irrespective of phasing requirements; Tendering Contractors are to include hereunder or elsewhere within the tender for executing the works in the separate phases set out in the Preliminaries section of the Bill of Quantities.		note		
4.10	Working outside the contractors site compound / contractors encroachment area has not been measured separately; Refer to Architects Drawings for details of contractors encroachment area; The Contractor is to include hereunder within his rates for all additional costs in the form of liaising with the employers representative, the camp authorities, additional temporary watching, security, hoarding, lighting, traffic management, road cones etc. when working outside the encroachment area identified.		note		
4.11	Tendering Contractors are to include here or elsewhere within their rates for all costs associated in connection with allowing access to the site to the public utility providers; Contractors are to include for any general or special attendances deemed necessary.		item		
4.12	Tendering Contractors are to include here or elsewhere within the tender for all costs in connection with liasing and programming required in connection with the public utility providers.		item		
4.13	Tendering Contractors are to include here or elsewhere within the tender, for all costs with submitting detailed structural designs of manholes, layouts, etc to Irish Water for approval.		item		
	<u>ARCHAEOLOGIST</u>				
4.14	The Contractor's attention is drawn to the requirements for the presence and supervision of all excavation works by a professional Archaeologist. Please refer to Architects Specification for details regarding archaeology on the site and the employment of an Archaeologist.	1	item		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 7 – Site Development Works

Code	Description	Quantity	Unit	Rate	Total
4	(50) SITE SERVICES (PIPED & DUCTED)				(Continued)
4.15	The Contractor shall provide for employment of a suitably qualified Archaeologist for the duration of the works where necessary to monitor excavation and earthmoving works. Should archaeological material be found during the course of the works, work shall be stopped pending decision from National Monuments Service of the Department of Culture, Heritage and the Gaeltacht of how to proceed. The Contractor shall facilitate the Archaeologist in recording any material discovered. Any such artefacts shall be recorded and a report furnished to the Heritage and Planning Division of the Planning Authority describing the results of the monitoring.	1	item		
4.16	The Contractor shall note that a licence for monitoring the scheme has been obtained by the Clients archaeologist from the Dept. of Culture, Heritage and the Gaeltacht. The Contractor shall allow sufficient time for the licence to be transferred to the Contractors archaeologist prior to commencement of groundworks <u>ARCHAEOLOGIST</u>	1	item		
4.17	The Contractor's attention is drawn to the requirements for the presence and supervision of all excavation works by a professional Archaeologist.	1	item		
4.18	The Contractor shall provide for employment of a suitably qualified Archaeologist for the duration of the works where necessary to monitor excavation and earthmoving works. Should archaeological material be found during the course of the works, work shall be stopped pending decision from National Monuments Service of the Department of Culture, Heritage and the Gaeltacht of how to proceed. The Contractor shall facilitate the Archaeologist in recording any material discovered. Any such artefacts shall be recorded and a report furnished to the Heritage and Planning Division of the Planning Authority describing the results of the monitoring. <u>FOUL WATER DRAINAGE: Drainage Below ground</u> <u>Excavating trenches to receive pipes; starting from existing or stripped level; backfill above pipe bed and surround to formation level with granular material per Clause 601 of the NRA Specification for Roadworks</u> Excavating trenches to receive pipes not exceeding 250mm nominal diameter	1	item		
4.19	Trench average 1.50 - 2.00 m deep.	33	m		
4.20	Extra on trench excavation for warning tapes. Extra over excavating to reduced levels irrespective of depth;	33	m		
4.21	Excavating around existing services; parallel to excavations; (ARM Qualification)	1	item		
4.22	Excavating around existing services; crossing excavations; (ARM Qualification)	1	item		
4.23	Crossing sewer line	4	nr		
4.24	Crossing ESB line Extra over excavating to reduced levels irrespective of depth;	2	nr		
4.25	Excavating alongside or next to existing foul water manhole Extra over excavating and disposal below ground water level (Composite Item)	1	nr		
4.26	Extra over for excavating and disposal of material below ground water level. Disposal	33	m		
4.27	Ground water	1	item		
4.28	Surface water <u>Concrete bed and surround; well compacted with 10mm single size class S granular material to BS 882, all as per Engineer's Specification, and in accordance with the Irish Water Code of Practice for Wastewater Infrastructure.</u> Beds and coverings to pipes	1	item		
4.29	600 x 650 to 150mm diameter pipe	33	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 7 – Site Development Works

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
4	(50) SITE SERVICES (PIPED & DUCTED)				(Continued)
	<u>Granular fill to SR21, hardcore clause 808; obtained off site; well compacted with 10mm single size class S granular material to BS 882, all as per Engineer's Specification, and in accordance with the Irish Water Code of Practice for Wastewater Infrastructure.</u>				
	Beds and coverings to pipes				
4.30	600 x 650 to 150mm diameter pipe	33	m		
	<u>Drains; Thermoplastic Structured Wall Pipes and fittings to ISEN13476(2007/2009)</u>				
	Pipework; laid in trenches				
4.31	150mm nominal size	33	m		
	Extra over pipework runs for				
4.32	Y-junctions; 150 x 150 x 150.	12	nr		
4.33	T-junctions; 150 x 150 x 150	12	nr		
4.34	Bends 150 mm nominal size	32	nr		
4.35	Connection to manholes including rocker pipes with flexible joint and fittings, all in accordance with manufactures recommendations	18	nr		
4.36	Connection to existing foul water manhole	1	nr		
4.37	Short lengths; not exceeding 3000 mm long; 100mm nominal size	32	nr		
	Extra Over for; Alteration to Existing Drainage				
4.38	Allow for breaking into existing foul water manhole; include for locating and excavating to expose existing drain, temporary diversion, break into manhole and form new manhole channel, maintain the existing system in operation during the work and make good on completion, road opening licence, all traffic management and associated management requirements for the completion of the works. (ARM Qualification)	1	nr		
	<u>Testing</u>				
	Testing and Commissioning				
4.39	Foul Water Drainage; in stages and on completion, in accordance with Irish Water Code of Practice.	1	item		
4.40	The Contractor shall include for the employment on this site of a Chartered Engineer with P.I. Insurance of €2.5m to supervise, inspect and certify all installations, backfilling, testing of water and waste water systems in the site and shall provide all confirmations required by the Irish Water Quality Assurance (QA) Field Inspection Requirements Manual, refer to Engineers Particular Specification Section 9.	1	item		
4.41	The contractor shall comply with all insurance and testing requirements set out in the Engineers Particular Specification.	1	item		
	<u>Final Walk-Off Request from Uisce Éireann</u>				
	<u>The Contractor is to allow for all costs associated with providing the following information to the Employer at the end of the defects liability period:</u>				
4.42	1. Lift all manholes for final inspection	1	item		
4.43	2. Prepare and issue a Leak Detection Report, including carrying out a Dye Test	1	item		
4.44	3. CCTV of all foul lines	1	item		
4.45	4. Carry out and necessary repairs of any defects which arose during the Defects Liability Period.	1	item		
4.46	5. Attend site and provide all attendances to facilitate Uisce Éireann Developers Scheduling Team to carry out Final Walk-Off Inspection.	1	item		
	<u>Drainage Surveys</u>				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 7 – Site Development Works

Code	Description	Quantity	Unit	Rate	Total
4	(50) SITE SERVICES (PIPED & DUCTED)				(Continued)
4.47	CCTV Survey Allow for carrying out a CCTV Survey of the existing and constructed foul water sewers and manholes on substantial completion of the works. Forward to the Architect in both hardcopy and softcopy formats. Where defects are discovered, carry out necessary repairs. <u>Alteration to Existing Drainage</u> Protection of Existing Drainage	1	item		
4.48	Allow for temporary protection, watching and lighting during the execution of the surface water services connections. <u>SURFACE WATER DRAINAGE: Below ground</u> <u>Excavating trenches to receive pipes; starting from existing or stripped level; backfill above pipe bed and surround to formation level with granular material per Clause 808 of the NRA Specification for Roadworks</u> Excavating trenches to receive pipes not exceeding 300mm nominal diameter	1	item		
4.49	Trench average 1.00 - 1.50m deep.	29	m		
4.50	Trench average 1.50 - 2.00m deep.	17	m		
4.51	Trench average 2.00 - 2.50m deep.	15	m		
4.52	Extra on trench excavation for warning tapes. Extra over excavating to reduced levels irrespective of depth;	61	m		
4.53	Excavating around existing services; parallel to excavations;(ARM Qualification)	1	item		
4.54	Excavating around existing services; crossing excavations; (ARM Qualification)	1	item		
4.55	Excavating alongside or next to existing water services pipework	9	m		
4.56	Excavating alongside or next to existing storm drain	35	m		
4.57	Excavating alongside or next to existing foul drain	55	m		
4.58	Excavating alongside or next to existing live electrical cable	8	m		
4.59	Crossing sewer line	4	nr		
4.60	Crossing ESB line Extra over excavating to reduced levels irrespective of depth;	2	nr		
4.61	Excavating alongside or next to existing surface water manhole Extra over excavating and disposal below ground water level (Composite Item)	1	nr		
4.62	Extra over for excavating and disposal of material below ground water level. Disposal	54	m		
4.63	Ground water	1	item		
4.64	Surface water <u>Concrete bed and surround; well compacted with 10mm single size class S granular material to BS 882, all as per Engineer's Specification, and in accordance with the Irish Water Code of Practice for Wastewater Infrastructure.</u> Beds and coverings to pipes	1	item		
4.65	600 x 650 to 225mm diameter pipe <u>Granular fill to SR21, hardcore clause 808; obtained off site; well compacted with 10mm single size class S granular material to BS 882, all as per Engineer's Specification, and in accordance with the Irish Water Code of Practice for Wastewater Infrastructure.</u>	54	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 7 – Site Development Works

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
4	(50) SITE SERVICES (PIPED & DUCTED)				(Continued)
4.66	Beds and coverings to pipes 750 x 725 to 225mm diameter pipe <u>Drains: approved uPVC pipes and fittings</u> Pipework; laid in trenches	54	m		
4.67	225 mm nominal size Extra over pipework runs for	54	m		
4.68	Y-junctions; 150 x 150 x 150.	18	nr		
4.69	Y-junctions; 150 x 225 x 225.	16	nr		
4.70	T-junctions; 150 x 225 x 225	20	nr		
4.71	Bends; 150 mm nominal size	15	nr		
4.72	Bends; 225 mm nominal size	15	nr		
4.73	Connection to manholes including rocker pipes with flexible joint and fittings, all in accordance with manufactures recommendations	35	nr		
4.74	Short lengths; not exceeding 3000 mm long; 100mm nominal size <u>Excavations, disposal, earthwork support, working space, backfilling in Clause 804 as before, bed, 225mm thick plain in-situ concrete grade C25/30; walls, 1200 mm nominal diameter precast concrete chamber rings to IS 420 with 150 mm thick plain in-situ grade C16/20 concrete surround externally, benching to bottoms in plain in-situ concrete grade 20, steel float finish, include building in ends of pipes and making good, fully seal base of manholes, cover slab, 150 mm thick precast concrete with 600 x 600 mm clear opening for cover and frame measured elsewhere, galvanised steel heavy duty manhole step iron with ends cut and pinned to precast concrete manhole wall and spaced at 250mm or 300 mm staggered centres, including channels, self cleaning toe holes, benching and the like necessary for a complete installation; all as per Engineer's Specification.</u> Manholes	22	nr		
4.75	1200 mm internal diameter; 1.00 - 1.50 m deep	2	nr		
4.76	1200 mm internal diameter; 1.50 - 2.00 m deep	2	nr		
4.77	1200 mm internal diameter; 2.00 - 2.50 m deep <u>Sundries: Supported on Class B solid engineering brick to IS EN 771, one course minimum, set in C50/60 mortar. In grass areas, surround with concrete plinth, 200mm all round and 100mm deep, C20/25 concrete. Installed in accordance with manufacturer's instructions; as per Civil Engineers Report and Drawing Nr 1004.</u> Manholes covers and frames;	1	nr		
4.78	Generally; 1200 mm diameter <u>Pipe accessories: precast concrete road gully pots to comply with EN 124, BS 5911, Part 6: 350mm diameter with a depth of 750mm square concrete road gully; 150mm concrete bed and surround grade C16/20; fitted with a rodding eye and approved stopper and chain; including all necessary excavation, disposal; forming openings; fittings, connections, saddle piece (m.e) all as per Engineer's Specification</u> Road Gullies	5	nr		
4.79	Generally <u>Pipe accessories: corporation type road gullies, class D400 cover; heavy duty; black coated; hinged; lockable; ductile iron; gully grating and frame to EN 124 : 2015; 150mm thick bedding and haunching in concrete grade C30/37; as per Engineer's Specification</u> Gully Cover	8	nr		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 7 – Site Development Works

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
4	(50) SITE SERVICES (PIPED & DUCTED)				(Continued)
4.80	Generally	8	nr		
4.81	Connection to existing Manhole on Public Roadway				
4.82	Allow for breaking into existing manhole on main line and building new manhole to suit new levels, include for locating and excavating to expose existing drain, temporary diversion, break into pipe and form new manhole channel measured, maintain the existing system in operation during the work and make good on completion, road opening licence, all traffic management and associated management requirements for the completion of the works. (ARM Qualification); on Public Roadway	1	nr		
4.83	Allow for temporary protection, watching and lighting outside the site boundaries during the execution of the surface water services connections. <u>Sundries</u> <u>Testing</u> Testing and Commissioning	1	item		
4.84	Storm Water Drainage; in stages and on completion, in accordance with Irish Water Code of Practice.	1	item		
4.85	The Contractor shall include for the employment on this site of a Chartered Engineer with P.I. Insurance of €2.5m to supervise, inspect and certify all installations, backfilling, testing of water and waste water systems in the site and shall provide all confirmations required by the Irish Water Quality Assurance (QA) Field Inspection Requirements Manual, refer to Engineers Particular Specification Section 9.	1	item		
4.86	The contractor shall comply with all insurance and testing requirements set out in the Engineers Particular Specification. <u>Drainage Surveys</u> CCTV Survey	1	item		
4.87	Allow for carrying out a CCTV Survey of the existing and constructed storm water sewers and manholes on substantial completion of the works. Forward to the Architect in both hardcopy and softcopy formats. Where defects are discovered, carry out necessary repairs. <u>Alteration to Existing Drainage</u> Protection of Existing Drainage	1	item		
4.88	Allow for temporary protection, watching and lighting during the execution of the surface water services connections. <u>ATTENUATION TANK</u> <u>Excavation</u> Reduce Levels	1	item		
4.89	Depth not exceeding 2.00m <u>Disposal</u> Excavated material	96	m3		
4.90	Off site. <u>CONCRETE WORK: In-Situ Concrete</u> <u>Plain in-situ concrete, Grade C12/15; vibrated (Lean mix); all as per Engineer's Specification</u> Bulk filling; foundation footings; poured on or against earth or unblinded hardcore	96	m3		
4.91	Generally	13	m3		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 7 – Site Development Works

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
4	(50) SITE SERVICES (PIPED & DUCTED)				(Continued)
4.92	Soakaway Tank; Ecobloc or similar equivalent with overflow to main storm network; as per Engineers Drawing Nr 1004. Attenuation Tank: Composite Item 8000 x 8000 x 1500 mm deep	1	item		
4.93	<u>Terram 700 geotextile; include in rate for all necessary laps and joints; to manufacturers instructions</u> Terram Generally <u>HYDRO BRAKE MANHOLE</u> <u>Excavations, disposal, earthwork support, working space, backfilling in clause 804 as before, bed, 225mm thick plain in-situ concrete grade 20 on 75mm thick lean mix blinding layer; walls, 1200 mm nominal diameter precast concrete chamber rings with 150 mm thick plain in-situ grade 20 concrete surround externally, benching to bottoms in plain in-situ concrete grade 20, steel float finish, include building in ends of pipes and making good, fully seal base of manholes, cover slab, 150 mm thick precast concrete with 600 x 600 mm clear opening for cover and frame measured elsewhere, galvanised steel heavy duty manhole step iron with ends cut and pinned to precast concrete manhole wall and spaced at 300 mm staggered centres, including channels, benching and the like necessary for a complete installation.</u> Manholes 1200 mm internal diameter; 1.00 m - 1.50 m deep	64	m2		
4.94	<u>Hydro-Brake flow control device; flow 5 litre / second; including excavation; disposal off site; backfilling with hardcore obtained off site; concrete base, surround and preparation works; including manhole connection to storm drainage; fitted in strict accordance with the manufacturer's instructions; all as per Engineer's instructions and Drawing</u> Flow Control Device Generally	1	nr		
4.95	<u>Manholes covers and frames; ductile iron to IS EN 124, Class D400; bedding frame in cement mortar [1:3]; with 215mm solid engineering bricks; sealing cover with grease; all as per Engineer's Drawing.</u> Sundries; galvanised cast iron	1	nr		
4.96	Generally 1200 mm diameter <u>BYPASS INTERCEPTOR SYSTEM</u> <u>Bypass Petrol Interceptor to be Klargestor NSBP004 as highlighted on Engineers Drawing 1004; Designed to meet the performance requirements of IS / EN 858 1 : 2002, EN 858 2 : 2003 and EPA PPG3. Chamber covers shall be D400 in accordance with EN124; fitted with automatic closure devices comprising a float system or similar approved; as per Engineers Report</u> Composite Item	1	nr		
4.97	1.35m x 1.70m x 1.42m deep overall size <u>WATERMAIN</u> <u>Excavating service trenches to receive pipes; starting from existing or reduced ground levels; backfill above pipe bed and surround to formation level with granular material per Clause 808 of the NRA Specification for Roadworks; all as per Engineer's Specification</u> Excavating trenches to receive pipes not exceeding 250mm nominal diameter	1	nr		
4.98	Average 1000mm deep	34	m		
4.99	Extra; placing marker tape 350mm from surface of road	34	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 7 – Site Development Works

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
4	(50) SITE SERVICES (PIPED & DUCTED)				(Continued)
4.100	Extra over excavating to reduced levels irrespective of depth; ^^Excavating trenches outside site boundary; providing traffic management system and protection as required; through existing public footpath; reinstatement on completion including sand bed, concrete surround, backfilling with hardcore, new concrete surface connected to existing including all impermeable sheeting, joints, dowels, etc; <u>Granular fill hardcore clause 808; obtained off site; well compacted with 10mm single size granular material to IS EN 12620, and in accordance with the Irish Water Code of Practice for Water Infrastructure, all as per Engineer's Specification</u> Beds and coverings to pipes	2	m		
4.101	500 x 550 to 125 mm diameter pipe MDPE / HDPE pipes shall be of a type PE-100 and have an SDR-17 and 10 bar rating. They shall conform to IS EN 12201: Part 1 and Part 2 (Plastic Systems for Water Supply, Drainage and Sewerage Under Pressure Part 1, General, and Part 2, Pipes) and I.S. EN 12201-3 (Plastic Systems for Water Supply, Drainage and Sewerage Under Pressure Part 3: Fittings).	20	m		
4.102	Pipework ; laid in trenches 125mm nominal size <u>Connect end of 125 diameter pipes to ex. watermain; including all necessary excavation; forming openings; inserting new branch connections as required; making good all work disturbed; on Public Footpath</u> Connections to existing watermain	20	m		
4.103	125 diameter pipes; connections at 1.50m (approximately) below stripped ground level Extra over pipework runs for	1	nr		
4.104	Bends; 125mm nominal size	10	nr		
4.105	Extra over 100 mm Bend to 90 degrees <u>Composite Item: Connection to existing 300 mm diameter watermain, including 3 number Sluice Valves, 3 number dismantling joints, Tee flanged, separation pipe, double flanges, all in accordance with IW specification; All joints to be Fusion Welded as per Section 3.10.4 of the Code of Practice for Water Infrastructure, including remote inspection system allowing real time inspection of the weld integrity, refer to 7190-5-200. Contractor to include for excavation, locating existing watermain, disposal of material and reinstatement of landscaped upon completion of the works.</u> Watermain Connection	10	nr		
4.106	Connect to existing 125mm diameter pipe. <u>Thrust block; triangular; concrete to be grade C20/25 including for excavation, disposal of surplus spoil; levelling and compacting, formwork etc;</u> Sundries	1	nr		
4.107	600 x 200mm 90 degree bend	4	nr		
4.108	380 x 200mm 45 degree bend	5	nr		
4.109	530 x 220mm T junction <u>SUNDRIES: Testing and commissioning</u> <u>Testing and commissioning</u> Testing and Commissioning & Certification in accordance with the Code of Practice for Water Infrastructure IW-CDS-5020-03.	8	nr		

To Collection

Project: Donohill, Tipp	Details: BQ 7 – Site Development Works
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

4	(50) SITE SERVICES (PIPED & DUCTED)	(Continued)		
4.110	Allow for testing the watermain in accordance with the Code of Practice for Water Infrastructure refer to section 4.10. including Cleansing of Pipe by scouring and swabbing, pressure testing by experienced personnel in the presence of IW representative, swabbing after testing, disinfection, water quality testing, connection to water network, flushing of water mains, bacteriological tests and submission of final documents. Contractor is strictly referes to IW-CDS-5020-03 and the information contained within tofully comply with the complete instillation of the watermain.	1	item	
4.111	Allow for testing the watermain joints in accordance with the Code of Practice for Water Infrastructure Section 3.10.4, including but not limited to Burst Test, Joint Toughness Test, Joint Ductility Tensile Test, Destructive Weld Test, Pressure Test.	1	item	
4.112	Certification including Independant Third Party Certification as per IW Code of Practice for Water Infrastructure Section 3.10.4. to be PI Backed by an Independant Engineer employed by the contractor.	1	item	
4.113	The Contractor shall include for the employment on this site of a Chartered Engineer with P.I. Insurance of €2.5m to supervise, inspect and certify all installations, backfilling, testing of water and waste water systems in the site and shall provide all confirmations required by the Irish Water Quality Assurance (QA) Field Inspection Requirements Manual, refer to Engineers Paticular Specification Section 9.	1	item	
4.114	The contractor shall comply with all insurance and testing requirements set out in the Engineers Paticular Specifcatuon.	1	item	
4.115	Watermain Testing Other Items	1	item	
4.116	Provide for all labour, materials, plant and all items which in the tenderers opinion are not specifically allowed for in this section of the works but which can be reasonably inferred from the works requirements as being necessary for the execution and completion of the works. - (List items below) (50) SITE SERVICES (PIPED & DUCTED)	1	item	

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 7 – Site Development Works
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

4	(50) SITE SERVICES (PIPED & DUCTED)				(Continued)
	COLLECTION Page 16: Page 17: Page 18: Page 19: Page 20: Page 21: Page 22: Page 23: Page 24: (50) SITE SERVICES (PIPED & DUCTED) Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 7 – Site Development Works

Code	Description	Quantity	Unit	Rate	Total
5	(60) SITE SERVICES (MAINLY ELECTRICAL)				
	SITE SERVICES (MAINLY ELECTRICAL)				
	<u>Generally</u>				
	<u>INFORMATION</u>				
5.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
5.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
5.3	Refer Specifically but not limited to M&E Engineers Dwgs - 2306 E100, 2306E101 & 2306 BLD100 Site Services.		note		
	<u>NOTES</u>				
5.4	The Contractor is required to visit the site and ascertain the nature of work involved in this section. No charge for extra labour, plant or material will be allowed in consequence of the Contractors failure to do this.		note		
5.5	The Contractor is required to make himself aware of the presence and location of all existing services and shall take all necessary precautions to avoid interference or damage to these services both overhead and underground during the execution of the works. The Contractor shall make due allowance in his rates for working in and around and maintaining live these services as necessary including the erection of 'goal posts' where necessary. Any damage caused shall be made good at the Contractors own expense.		note		
5.6	All works associated with this element must be executed in strict accordance with the requirements of the Services Engineers; Tenderers must carefully review these documents and make all necessary allowance in their rates for executing work in accordance with these requirements.		note		
5.7	The works hereunder are for the scope of works to be carried out, irrespective of phasing requirements; Tendering Contractors are to include hereunder or elsewhere within the tender for executing the works in the separate phases set out in the Preliminaries section of the Bill of Quantities.		note		
5.8	Working outside the contractors site compound / contractors encroachment area has not been measured separately; Refer to Architects Drawings for details of contractors encroachment area; The Contractor is to include hereunder within his rates for all additional costs in the form of liaising with the employers representative, the camp authorities, additional temporary watching, security, hoarding, lighting, traffic management, road cones etc. when working outside the encroachment area identified.		note		
5.9	Tendering Contractors are to include here or elsewhere within their rates for all costs associated in connection with allowing access to the site to the public utility providers; Contractors are to include for any general or special attendances deemed necessary.		item		
5.10	Tendering Contractors are to include here or elsewhere within the tender for all costs in connection with liasing and programming required in connection with the public utility providers.		item		
	<u>EXCAVATION AND EARTHWORK: Excavation</u>				
	<u>Excavating services trenches to receive pipes; starting from existing or stripped level; filling in with sand to a depth of 200mm over top of pipes; filling in with hardcore obtained off site to remainder</u>				
5.11	Excavating trenches to receive multiple ducts (1nr 100mm EIR Duct & 5nr 50mm ESB) Average 900mm deep	14	m		
5.12	Excavating trenches to receive multiple ducts (1nr 100mm EIR Duct & 4nr 50mm ESB) Average 900mm deep	4	m		
	Excavating trenches to receive multiple ducts (1nr 125mm EIR Duct & 3nr 50mm ESB)				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 7 – Site Development Works

Code	Description	Quantity	Unit	Rate	Total
5	(60) SITE SERVICES (MAINLY ELECTRICAL)				(Continued)
5.13	Average 900mm deep Excavating trenches to receive multiple ducts (1nr 125mm EIR Duct, 1nr 50mm ESB Duct & 2nr 37mm EIR Duct)	17	m		
5.14	Average 900mm deep Excavating trenches to receive multiple ducts (1nr 125mm ESB Duct)	4	m		
5.15	Average 900mm deep Excavating trenches to receive multiple ducts (1nr 125mm EIR Duct)	35	m		
5.16	Average 900mm deep <u>Compacted fill: Clause 804; to conform to ISEN 13285, as per Services Engineers Drawing 2306 BLD100 and Specification for Civils Works.</u> Beds and coverings to pipes	39	m		
5.17	Width & Thickness; to Suit; 50mm duct	141	m		
5.18	Width & Thickness; to Suit; 110mm duct	51	m		
5.19	Width & Thickness; to Suit; 125mm duct Beds & Surrounds	95	m		
5.20	Width & Thickness; to Suit; 125mm duct <u>ESB, EIRCOM, EV</u> <u>Disposal</u> Water	95	m		
5.21	Surface	1	item		
5.22	Ground <u>Plastic Warning Tape; to ESB & Services Engineers Specification</u> Sundries	1	item		
5.23	Plastic warning tape, lay above service pipe duct at a depth of 350 mm below finished ground level. <u>ESB</u> <u>Hard PVC pipes and fittings; BS3506; loose coupler and sealing ring</u> Pipework; laid in trenches	404	m		
5.24	125 mm nominal size	35	m		
5.25	Extra over for; draw wire	35	m		
5.26	Extra; placing marker tape 150mm below top of filling	35	m		
5.27	50mm nominal size; ESB.	136	m		
5.28	Extra over for; draw wire	136	m		
5.29	Extra; placing marker tape 150mm below top of filling	136	m		
5.30	100mm nominal size EV charging Points	40	m		
5.31	Extra over for; draw wire	40	m		
5.32	Extra; placing marker tape 150mm below top of filling Extra over pipes in which they occur	40	m		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 7 – Site Development Works

Code	Description	Quantity	Unit	Rate	Total
5	(60) SITE SERVICES (MAINLY ELECTRICAL)				(Continued)
5.33	Bends; 50mm nominal size	25	nr		
5.34	Bends; 100mm nominal size	5	nr		
5.35	Bends; 125mm nominal size	4	nr		
	<u>Micro & Mini Pillar Bases</u>				
	Junction box; all as typical ESB manhole construction including cover as detailed on Drawing Nr. BLD100.				
5.36	950 x 500mm; average 800mm deep	2	nr		
5.37	EV Charging Points Chamber and cover complete				
5.38	615 x 615mm avg 650mm deep	3	nr		
	<u>Manhole cover and frame; galvanised cast iron, with locking device; bedded frame in cement mortar (1:3); sealing cover with grease</u>				
	Sundries				
5.39	Heavy duty; to suit 600 x 600mm manhole	5	nr		
	<u>EV Foundation retention sockets & retention sockets as per DOM builders works schedule, including all</u>				
5.40	EV foundation & retention sockets	2	nr		
	<u>Connect new utility supply to existing utility supply on the public road outside the site boundary; including all necessary excavation, new pipework, pipe surround, backfilling; forming openings; making good all work disturbed to the satisfaction of the Local Council; including the provision of traffic management for the duration of the works; include for co-ordination of works and connection with the utility provider; include for all works necessary to complete</u>				
	Connection to existing utilities				
5.41	New 125mm diameter ESB MV duct to existing; connections at 1.0m (approximately) below ground level	2	nr		
	<u>EV KIOSK BASE</u>				
5.42	Composite Item; EV Kiosk Base including excavation, hardcore, concrete, mesh reinforcement and formwork complete				
5.43	900 x 500 x 100mm high	1	nr		
	<u>EIR</u>				
	<u>Hard twin wall PVC pipes and fittings; BS3506; loose coupler and sealing ring</u>				
	Pipework; laid in trenches				
5.44	110mm nominal size	77	m		
5.45	Extra over for; draw wire	77	m		
5.46	Extra; placing marker tape 150mm below top of filling	77	m		
5.47	50mm nominal size	31	m		
5.48	Extra over for; draw wire	31	m		
5.49	Extra; placing marker tape 150mm below top of filling	31	m		
	Extra over pipes in which they occur				
5.50	Bends; 110mm nominal size	28	nr		
5.51	Bends; 50mm nominal size	12	nr		
	<u>Inspection chamber; JB4 Junction box</u>				

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp

Details: BQ 7 – Site Development Works

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
5	(60) SITE SERVICES (MAINLY ELECTRICAL)				(Continued)
5.52	Inspection chamber; all as typical Telecom manhole construction 1110 x 640 x 800mm Deep; average 800mm deep <u>Manhole cover and frame: galvanised cast iron, with locking device; bedded frame in cement mortar (1:3); sealing cover with grease</u> Sundries	3	nr		
5.53	Heavy duty; to suit 1110 x 640mm manhole <u>Connect end of pipes to existing manhole; including all necessary excavation; forming openings; including all necessary temporary works; making good all work disturbed; North Location of Site Refer to Drawing BLD200.</u> Connect to Existing	3	nr		
5.54	110mm diameter pipes; connection at 1.50m (approximately) below existing cover level (Telcom) <u>EIR (OUTSIDE SITE BOUNDARY ON PUBLIC ROAD)</u> <u>Excavating trenches to receive pipes; starting existing road level; backfill above pipe bed and surround to formation level with granular material per Clause 601 of the NRA Specification for Roadworks</u> Excavating trenches to receive pipes not exceeding 250mm nominal diameter	2	nr		
5.55	Trench average 0.50 - 1.00 m deep. (Outside Site Boundary on Public road)	27	m		
5.56	Extra on trench excavation for warning tapes.	27	m		
5.57	Extra; placing marker tape 150mm below top of filling	27	m		
5.58	Extra over excavating trenches irrespective of depth Excavating trenches outside site boundary; on public roadway; through existing macadam roadway; reinstatement on completion including sand bed, concrete surround, backfilling with hardcore, 100mm thick macadam roadway, making good to any additional areas disturbed during the course of the works, etc; all as per Engineer's Specification. Disposal	27	m		
5.59	Ground water	1	item		
5.60	Surface water	1	item		
5.61	<u>Concrete bed and surround; well compacted with 10mm single size class S granular material to BS 882, all as per Engineer's Specification, and in accordance with the Irish Water Code of Practice for Wastewater Infrastructure.</u> Beds and coverings to pipes 550 x 550 to 125mm diameter pipe <u>Hard PVC pipes and fittings; BS3506; loose coupler and sealing ring</u> Pipework; laid in trenches	27	m		
5.62	125mm nominal size	27	m		
5.63	Extra over for; draw wire	27	m		
5.64	Extra; placing marker tape 150mm below top of filling	27	m		
5.65	Extra over pipes in which they occur Bends; 110mm nominal size <u>Inspection chamber; JB4 Junction box</u> Inspection chamber; all as typical Telecom manhole construction	6	nr		

To Collection

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 7 – Site Development Works
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
5	(60) SITE SERVICES (MAINLY ELECTRICAL)				(Continued)
5.66	1110 x 640 x 800mm Deep; average 800mm deep <u>Manhole cover and frame; galvanised cast iron, with locking device; bedded frame in cement mortar (1:3); sealing cover with grease.</u> Sundries	2	nr		
5.67	Heavy duty; to suit 950 x 500mm manhole Other Items	2	nr		
5.68	Provide for all labour, materials, plant and all items which in the tenderers opinion are not specifically allowed for in this section of the works but which can be reasonably inferred from the works requirements as being necessary for the execution and completion of the works. - (List items below) (60) SITE SERVICES (MAINLY ELECTRICAL)		item		
To Collection					

Donohill Bill of Quantities

Project: Donohill, Tipp	Details: BQ 7 – Site Development Works
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

5	(60) SITE SERVICES (MAINLY ELECTRICAL)				(Continued)
	COLLECTION Page 26: Page 27: Page 28: Page 29: Page 30: (60) SITE SERVICES (MAINLY ELECTRICAL) Carried to Summary:				

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 7 – Site Development Works

Code	Description	Quantity	Unit	Rate	Total
6	(70) SITE FITTINGS				
	(70) SITE FITTINGS				
	<u>Generally</u>				
	<u>INFORMATION</u>				
6.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
6.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
6.3	Refer Specifically but not limited to Architects Drawings		note		
	<u>NOTES</u>				
6.4	Provide for constructing and subsequent demolition and disposal of samples, relative to the works included in this element, in accordance with the requirements of the relevant specification, refer to Clause L10 for contractors requirements in respect of post contract samples and mock-ups.	1	item		
	<u>FITTINGS: Fittings Equipment and Furniture</u>				
	<u>Standard road signage including galvanised steel pole 2000mm high set in 600 x 600 x 600mm concrete bases including all necessary excavations, concrete, reinforcement, disposal, formwork etc; sign layout and colours to County Council Specification</u>				
	Road Traffic Signage				
6.5	Standard shape and size RUSO27 to read "Stop"	1	nr		
6.6	Standard shape and size to read "Disabled Person Parking Bay" in accordance with NRA Specification	2	nr		
	<u>Composite Item: Site Sign: on and including 2 nr 3600 mm high structural steel supports : including all lettering, logo's of all Design Team compaines, picture of proposed development, Client logo and lettering, Contractor Details and the like; all to Engineers Approval and Architects Approval; as per Architect's Drawing Nr 3004.</u>				
	Site Sign				
6.7	3600 x 2400 mm overall size of sign.	1	nr		
	<u>STONEWORK: Plaque</u>				
	<u>Limestone Memorial Plaque to be set in concrete; as per Architect's Drawing Nr 1001.</u>				
	Limestone Plaque				
6.8	500 x 500mm overall size	1	nr		
	<u>STONEWORK: Plaque</u>				
	<u>Limestone Blue Plaque (Polished) with white lettering to read "Donohill Housing Estate" (Pricing Purposes Estate name to be confirmed) fixed to and including ornamental boulder salvaged from site works, cleaned and laid on 1000 x 1000 mm wide lean-mix bed 75 mm thick; all as per Architects Specification and Schedule of Items.</u>				
	Limestone Plaque				
6.9	800 x 600mm overall size 30mm thick	1	nr		
	Other Items				
6.10	Provide for all labour, materials, plant and all items which in the tenderers opinion are not specifically allowed for in this section of the works but which can be reasonably inferred from the works requirements as being necessary for the execution and completion of the works. - (List items below)		item		
	(70) SITE FITTINGS				

To Collection



Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 7 – Site Development Works

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

6 (70) SITE FITTINGS

(Continued)

COLLECTION

Page 32:

(70) SITE FITTINGS
Carried to Summary:

Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 7 – Site Development Works

Code	Description	Quantity	Unit	Rate	Total
7	(80) LANDSCAPING				
	(80) LANDSCAPING				
	<u>Generally</u>				
	<u>INFORMATION</u>				
7.1	For a detailed description of materials and workmanship, contractors are to refer to both the Architectural & Engineering Specification documents.		note		
	<u>DRAWINGS</u>				
7.2	For layout and elevations refer to Architectural & Structural Plans and Elevations.		note		
7.3	Refer Specifically but not limited to Architects Drawings; 2798-HLA-00-ZZ-DR-A-1001		note		
	<u>NOTES</u>				
7.4	The Contractor shall allow in his rates for carrying out the planting element of the following works, at a time recommended as best practice for growth. This may be a period after substantial completion, depending on the programme, if so required.		note		
7.5	All shrubs / plants shall be best quality nursery stock, similar in size and quality in accordance with BS 3969 Part 1.		note		
7.6	The trees should be grown in Ireland for at least one growing season, unless otherwise ap-proved. The contractor will provide documentation to prove that the trees have been so grown.		note		
7.7	From previous experience all the below trees should be available from the bigger suppliers in Ireland. Although the girths specified are large, many "native" species of tree of similar girth are imported.		note		
7.8	Each tree is to be secured to a straight pointed stake of minimum diameter 50mm of larch, oak or chestnut. All stakes are to be firmly embedded in the ground at a minimum 300mm below ground level and cut to approximately 600mm above ground level. Each stake is to be tied firmly but not rigidly to stake with at least two ties within 25mm of top of stake.		item		
7.9	Tree ties are to be of rubber with a solid rubber spacer, hollowed on two sides and twice slotted for tie. The tie is to be strapped around tree and spacer and nailed to the stake with galvanised nails. The Contractor is to supply and fix two ties to each stake positioned both at the top stake and centrally positioned.		item		
7.10	Grass seed sowing season generally April to October; 2 equal sowings at right angles to one another.		note		
	<u>SURFACE PAVINGS, FENCING AND LANDSCAPING: Grassing and Planting</u>				
	<u>Cultivating; surfaces of filling; Arch Spec; to Public Areas</u>				
	Cultivating;				
7.11	Rotavating 150mm deep; grading, removing debris; harrowing; weeding; preparing for seeding	677	m2		
	<u>Grading; Arch Spec Q28; to Public Areas</u>				
	Grading;				
7.12	Preparing for final cultivation	677	m2		
	<u>Surface applications: Apply both Superphosphate with a minimum of 18% water soluble phosphoric acid; A sulfate of ammonia with a minimum of 20% nitrogen: Spread evenly, each type at 70 g/m2, in transverse directions Arch Spec: to Public Areas</u>				
	Surface Applications;				
7.13	>300 mm wide	677	m2		
	<u>Final Cultivating; surfaces of filling; to Public Areas</u>				
	Final Cultivating;				

To Collection

Project: Donohill, Tipp

Details: BQ 7 – Site Development Works

Building: Donohill BOQ

Code	Description	Quantity	Unit	Rate	Total
7	(80) LANDSCAPING				(Continued)
7.14	Preparing for seeding <u>Seeding Arch Spec Q30: Quality of seed: standard EC purity and germination regulations: Blue Label Certification:; sow in accordance with Arch Spec Q30: to public areas</u> Seeding;	677	m2		
7.15	Grass seed; 20-35g/m2; raking in <u>SURFACE PAVINGS, FENCING AND LANDSCAPING: Planting</u> <u>Excavate pit for tree:75 mm deeper than root system and wide enough to accommodate roots when fully spread, fill pit bottom with compost and soil ameliorant to 150mm thickness; backfill with topsoil previously excavated from pit, allow for 75mm diameter drainage pipe to surround rootball for watering; use imported topsoil if needed; as per Architects Specification and on drawing nr 2741-A-0003.</u> Tree Pits	677	m2		
7.16	>300 mm wide <u>Trees, Plants, Shrubs, Hedges, Grassing, Seeding etc. including excvataion of pits, disposal, backfilling as necessary, in accordance with Architectes Specification and drawing nr. 2741-A-0003.</u> Trees	8	nr		
7.17	Tree A - Crategus Pauls Scarlet/ Red Hawthorn	4	nr		
7.18	Tree B - Semi Mature Prunus Accolade Cherry Tree <u>MAINTENANCE</u> <u>First Cut: When grass is reasonably dry and height of 75mm contractors to carry out first cut in accordance with Architects Specification: removing all large stones and any litter/debris.</u> Cutting	4	nr		
7.19	>300 mm wide <u>Contractor is to carry out the maintence of grass areas until the end of the defects liability period. in accordance with Architects Specification</u> Maintenance	677	m2		
7.20	Allow for 1 Nr. establishment cut to all grass areas and remove arisings from site. Other Items	1	item		
7.21	Provide for all labour, materials, plant and all items which in the tenderers opinion are not specifically allowed for in this section of the works but which can be reasonably inferred from a site inspection and the works requirements as being necessary for the execution and completion of the works. - (List items below) (80) LANDSCAPING	1	item		

To Collection



Donohill Bill of Quantities

Project: Donohill, Tipp
Building: Donohill BOQ

Details: BQ 7 – Site Development Works

Code	Description	Quantity	Unit	Rate	Total
------	-------------	----------	------	------	-------

7 (80) LANDSCAPING

(Continued)

COLLECTION

Page 34:

Page 35:

(80) LANDSCAPING
Carried to Summary:

Project: Donohill, Tipp	Details: BQ 7 – Site Development Works
Building: Donohill BOQ	

Code	Description	Quantity	Unit	Rate	Total
	COLLECTION SUMMARY	PAGE NO			
	(10) PREPARED SITE	1 - 5			
	(30) SITE ENCLOSURES	7 - 10			
	(40) ROADS PATH PAVINGS	12 - 14			
	(50) SITE SERVICES (PIPED & DUCTED)	16 - 24			
	(60) SITE SERVICES (MAINLY ELECTRICAL)	26 - 30			
	(70) SITE FITTINGS	32			
	(80) LANDSCAPING	34 - 35			
	Total Amount:				

APPENDIX A - MECHANICAL PRICING DOCUMENT



Don O'Malley & Partners

Consulting Engineers - Building Services

**MECHANICAL INSTALLATION
PRICING DOCUMENT FOR
HOUSING DEVELOPMENT
AT
DONOHILL CO. TIPPERARY,**

Reference No.: 2306

ISSUE	REVISION	DATE	BY	APPROVED
Tender	T1	30-07-2026	Anna Kureczko	Conor Brouder

© No part of this document may be re-produced or transmitted in any form or stored in any retrieval system of any nature without the permission of the consulting engineer as copyright holder except as agreed for use on the project for which the document was originally issued.

TABLE OF CONTENTS

1	NOTES.....	1
2	SUMMARY OF TENDER PRICES – MECHANICAL SERVICES INSTALLATION.....	2
3	FORM OF TENDER	4
4	TENDER DECLARATION	4

1 NOTES

- A. The complete installation of Mechanical services comprising of all heating, ventilation, domestic water services, Soil&Waste drainage, Heating generation plant and control etc. All as per Don O'Malley & Partners Drawings and Specifications as included in Works Requirement Documentation.
- B. References in the following Tender Pricing Document are from the Drawings for Mechanical Services Installation in the Works Requirements Documentation and all items in the Drawings and as mentioned in the Equipment Schedules are to be included in tender price. The mechanical Systems commissioning and hand over documentation to be included.
- C. All items must be priced, the word "included" will not be accepted as a price.
- D. The Mechanical Contractor will perform as a domestic Sub-Contractor to the main Contractor for the duration of this contract.

2 SUMMARY OF TENDER PRICES – MECHANICAL SERVICES INSTALLATION

Note: 6 number units in total

	<u>Description</u>	Euro
1	Amount For Preliminaries including: Site set up and accommodation Engineering/Lead Co-ordination Supervision Management	€
2	Amount For Internal Mains Water Piping Installation	€
3	Amount For Hot and Cold-Water Services Installation Including Manifolds	€
4	Amount For Cold Water Storage Tanks with Booster Pump Supply & Installation	€
5	Amount For Air to Water Heat Pumps Supply & Installation Including all Instrumentations	€
6	Amount For Air to Water Heat Pump External Pipework's Installation	€
7	Amount For Heating Pipework Supply & Installation Including Manifolds	€
8	Amount For Radiators Supply & Installation Including Thermostatic Valves, Lock Sheid Valves and Thermostat	€
9	Amount For Zone Controls Supply & Installation	€
10	Amount For Mechanical Ventilation (DCV) Supply & Installation Including Fans, Controls and Sensors	€
11	Amount For Kitchen Extractor Hoods Supply & Installation	€
12	Amount For Extract Ducting Supply & Installation Including Extract Grilles	€
13	Amount For Above Ground Drainage Installation Including Booster Tank Overflow	€
14	Amount For Insulation of All Internal Pipework	€
15	Amount For Sterilisation, Cleaning and Flushing.	€
16	Amount For Fire Extinguishers & Fire Blanket Supply & Installation	€
17	Amount For Fire Collars Supply & Installation	€
18	Amount For Testing and Commissioning of All Services	€
19	Amount For 12 Months Maintenance	€
20	Amount For Provision of Handover Documentation	€
21	Amount For Any Other Items Deemed Necessary for Completion of Works	€
22	Amount For a Water Meter	€

23	Amount for Outdoor Tap Installation	€
	SUB-TOTAL	€
	VAT @ 13.5%	€
	TOTAL AMOUNT FOR ALL HOUSE UNITS	€

The Contractor shall fill in every section with a price. The word 'included' will not be accepted as a price.

3 FORM OF TENDER

To: Tipperary County council
Civic Offices,
Clonmel,
Co. Tipperary.

I/We.....

Having examined the Drawings, Specification and Conditions of Contract for the
Housing development at Donohill, Co. Tipperary:

Do hereby offer in accordance with the terms and conditions contained therein to execute and
complete the whole of the works described therein for the sum of:

(Words).....

..... (Ex-cluding VAT)

€..... Including VAT)

I/We undertake in the event of the acceptance of this tender to execute a form of contract and
warranty embodying all the conditions and terms contained in this offer.

CONTRACTOR'S SIGNATURE:

ADDRESS:

.....

DATE: **TELEPHONE NO:**

4 TENDER DECLARATION

Having examined the drawings, specification and associated documentation for the Mechanical
services installations, we hereby confirm that our tender submission is in accordance and in
full compliance with tender documents, including all associated specification and drawings.

CONTRACTOR'S SIGNATURE:

ADDRESS:

.....

DATE: **TELEPHONE NO:**

APPENDIX B - ELECTRICAL PRICING DOCUMENT



Don O'Malley & Partners

Consulting Engineers - Building Services

**ELECTRICAL INSTALLATION
PRICING DOCUMENT
FOR
HOUSING DEVELOPMENT AT
DONOHILL
CO. TIPPERARY,**

Reference No.: 2306

ISSUE	REVISION	DATE	BY	APPROVED
Tender	T1	30-07-2026	Pat Condon	Conor Brouder

© No part of this document may be re-produced or transmitted in any form or stored in any retrieval system of any nature without the permission of the consulting engineer as copyright holder except as agreed for use on the project for which the document was originally issued.

TABLE OF CONTENTS

1	NOTES.....	1
2	SUMMARY OF TENDER PRICES – ELECTRICAL SERVICES INSTALLATION.....	2
2.1	SUMMARY OF PRICES - Note: 6 number HOUSE units in total	2
3	FORM OF TENDER	4
4	TENDER DECLARATION	5

1 NOTES

- A. The Electrical Services strip out and installations comprising of all lighting, fire alarm, power distribution, General small power services, security, etc. All as per Don O'Malley & Partners Drawings and Specifications as included in Works Requirement Documentation.
- B. References in the following Tender Pricing Document are from the Drawings for Electrical Services Installation in the Works Requirements Documentation and all items in the Drawings are to be included in tender price.
- C. All items must be priced, the word "included" will not be accepted as a price.
- D. The Electrical Contractor will perform as a domestic Sub-Contractor to the main Contractor for the duration of this contract.

2 SUMMARY OF TENDER PRICES – ELECTRICAL SERVICES INSTALLATION

2.1 SUMMARY OF PRICES - NOTE: 6 NUMBER HOUSE UNITS IN TOTAL

	<u>Description</u>	<u>€</u>
1.	Preliminaries including: Site set up and accommodation Engineering/Lead Co-ordination Supervision Management	€
2.	Supply and Installation of Consumer Units	€
3.	Supply and Installation of the following Light Fittings: • Type A • Type A/D • Type B • Type C • Type D • Type E (Emergency Lighting to House type C) • Type G • Type H	€ € € € € € € €
	Sub-total	€
4.	Lighting Wiring Installation (including Emergency)	€
5.	General Power Sockets and Wiring	€
6.	TV Sockets and Wiring	€
7.	Telephone Sockets and Wiring	€
8.	Cooker Switches and Wiring	€
9.	Doorbell Installation and Wiring	€
10.	Mechanical Plant Wiring (Including Mechanical air source Heat Pump, External Heat pump, Ventilation unit (HRU), Cold water booster pump, kitchen extract hood etc.	€
11.	Fire alarm System and Wiring	€

12.	Immersion Heater Wiring	€
13.	Amount for supply and installation of Intruder/security Alarm System.	€
14.	Earthing and Bonding	€
15.	Testing and Commissioning	€
	SUB-TOTAL	
	VAT @ 13.5%	
	TOTAL AMOUNT FOR HOUSE UNITS	€

The Contractor shall fill in every section with a price. The word 'included' will not be accepted as a price.

3 FORM OF TENDER

To: Tipperary County council
Civic Offices,
Clonmel,
Co. Tipperary.

I/We

.....

Having examined the Drawings, Specification and Conditions of Contract for the
Housing development at Donohill, Co. Tipperary:

Do hereby offer in accordance with the terms and conditions contained therein to execute
and complete the whole of the works described therein for the sum of:

(Words).....

..... (Including VAT)

€..... Including VAT)

I/We undertake in the event of the acceptance of this tender to execute a form of contract
and warranty embodying all the conditions and terms contained in this offer.

CONTRACTOR'S SIGNATURE:

ADDRESS:

.....

DATE: **TELEPHONE NO:**

4 TENDER DECLARATION

Having examined the drawings, specification and associated documentation for the Electrical services installations, we hereby confirm that our tender submission is in accordance and in full compliance with tender documents, including all associated specification and drawings.

CONTRACTOR'S SIGNATURE:

ADDRESS:

.....

DATE: **TELEPHONE NO:**