

GENERAL NOTES:

- DO NOT SCALE. ALL DIMENSIONS ON DRAWINGS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE. USE FIGURED DIMENSIONS ONLY.
- ALL SETTING OUT DIMENSIONS TO BE CHECKED AGAINST ARCHITECTS DRAWINGS, ARCHITECTS DRAWINGS & TAKE PRECEDENCE.
- STRUCTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL SPECIFICATIONS, ALL ARCHITECTS AND SERVICES DRAWINGS AND SPECIFICATIONS.
- THE CONTRACTOR STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC., BEFORE RELATED WORK COMMENCES. THE CONTRACTOR SHALL SUBMIT A METHOD STATEMENT AND SEQUENCE OF WORK TO THE ENGINEER AND ARCHITECT FOR APPROVAL.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES IDENTIFIED SHOULD BE NOTIFIED IN WRITING TO BOTH THE ENGINEER AND ARCHITECT AS SOON AS POSSIBLE.
- CONSTRUCTION MATERIALS SHALL BE WELL DISTRIBUTED, IF PLACED ON FRAMED FLOORS OR ROOF, IN SUCH A MANNER THAT THE STRUCTURE IS NOT OVERLOADED IN EITHER THE TEMPORARY OR PERMANENT CONDITION.
- WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM, UNLESS OTHERWISE SPECIFIED. PRIOR APPROVAL BY THE ENGINEER.
- THE CONTRACTOR IS TO ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FROM ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND SUBCONTRACTORS DRAWINGS PRIOR TO CONSTRUCTION, FOR CLARITY. ALL ROOF AND FLOOR OPENINGS MAY NOT BE SHOWN ON FRAMING PLANS. FOR EXACT SIZE, NUMBER AND LOCATION FOR OPENING, SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. WHERE OPENINGS ARE INDICATED ON THE STRUCTURAL DRAWINGS, THESE ARE TO BE CHECKED BY THE CONTRACTOR AGAINST RELEVANT SERVICE ENGINEERS OR SUBCONTRACTORS DRAWINGS PRIOR TO CONSTRUCTION.
- OPTIONS WHERE INDICATED ARE FOR CONTRACTORS CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES NECESSARY IF HE CHOOSES AN OPTION AND HE SHALL COORDINATE ALL DETAILS.
- ALL LEVELS ARE RELATED TO THE ORDNANCE DATUM (O.D.) - MALIN HEAD UNLESS NOTED OTHERWISE
- FOR LOCATION AND DETAILS OF ELECTRICAL EARTHING OF STRUCTURE REFER TO ELECTRICAL ENGINEERS DRAWINGS AND DETAILS.
- FOR FIRE PROOFING REQUIREMENTS REFER TO RELEVANT ARCHITECTS DRAWINGS.
- THE CONTRACTOR SHALL NOTE, AND MAKE ALLOWANCES FOR, THE MEASURES NECESSARY TO COMPLY WITH THE WASTE MINIMISATION AND RECYCLING TARGETS SET OUT IN THE SPECIFICATION.
- FOR DETAILS AND SETTING OUT OF RWP, SWP, WVP AND ALL OPENINGS REFER TO RELEVANT ARCHITECTS DRAWINGS.
- FOR RADON BARRIER, D.P.C. & INSULATION DETAILS REFER TO ARCHITECTS DRAWINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING ALL GROUND AND SURFACE WATER WITHIN THE SITE DURING THE CONSTRUCTION WORKS. AT NO POINT SHOULD ANY CONTAMINATED WATER FROM THE SITE BE DISCHARGED TO AN EXISTING DRAIN OR SEWER. REFER TO SITE INVESTIGATION REPORT FOR FURTHER INFORMATION ON GROUND WATER LEVELS.
- ANY PROPRIETARY PRODUCTS REFERENCED ON THE DRAWINGS CAN BE SUBSTITUTED WITH EQUIVALENT ALTERNATIVES, FOLLOWING APPROVAL BY EITHER THE ENGINEER OR THE ARCHITECT.
- PROPRIETARY PRODUCT NAMES, MANUFACTURERS' NAMES, SUPPLIERS' NAMES, NATIONAL STANDARDS, WHERE A SPECIFICATION OR A DESCRIPTION OF A PRODUCT OR ELEMENT OF WORK INCLUDES A SPECIFIC MAKE OR SOURCE NUMBER OR MANUFACTURERS' NAME OR SUPPLIERS NAME, OR A NATIONAL STANDARD, THE SPECIFICATION OR DESCRIPTION SHALL BE DEEMED TO BE ACCOMPANIED BY THE WORDS "OR EQUIVALENT" NOTWITHSTANDING THAT THOSE EXACT WORDS MAY NOT IN FACT ACCOMPANY THE NAME OR STANDARD. THIS ALSO APPLIES WHERE THE NAME OR STANDARD IS ACCOMPANIED BY OTHER WORDS SUCH AS "OR EQUAL APPROVED" OR SUCHLIKE PHRASES
- VIBRATION AND NOISE MONITORS TO BE INSTALLED ON SITE AND ALSO ON ADJACENT BUILDINGS IN ACCORDANCE WITH ARCHITECTS SPECIFICATION, PUNCH SPECIFICATION, BS 7385, BS 5238 DMBB VOLUME 11 AND CIRIA TECHNICAL NOTE 142.

LOADINGS:

- ALL LOADINGS ARE IN ACCORDANCE WITH THOSE SPECIFIED IN I.S. EN 1991.
- IMPOSED LOADINGS (EXCLUDING WALLS, FINISHES AND SERVICES):

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| GENERAL PUBLIC AREA (LOBBY, FOYER, CAFE ETC.) | : 5.0kn/m ² |
| OFFICES, CHANGING ROOMS, ALL OTHER AREAS | : 4.0 kn/m ² |
| LIBRARY | : 10.0 kn/m ² |
| STORAGE | : 7.5 kn/m ² |
| CORRIDORS/STAIRS ETC. | : 4.0 kn/m ² |
| PLANT ROOM | : 7.5 kn/m ² |
| PARTITIONS | : 1.0 kn/m ² |
| ROOF | : 1.5 kn/m ² |

- SUPERIMPOSED DEAD LOADS:

FINISHES: REFER TO ARCHITECTURAL DRAWINGS & SPECIFICATION
SERVICES: REFER TO M&E DRAWING & SPECIFICATIONS WITH MINIMUM ALLOWANCE OF 0.25 kn/m²

FACADE: REFER TO ARCHITECTS PERFORMANCE SPECIFICATION, TO CONTRACTORS DESIGN.

DEAD LOADS:

TO BE DETERMINED FROM I.S. EN 1991 & BS EN 648 WEIGHTS OF MATERIALS.

WIND LOADS:

TO BE DERIVED FROM I.S. EN 1991 USING INFORMATION DESCRIBED IN FACADE SECTION OF STRUCTURAL SPECIFICATION

- FOR ANY IMPOSED LOADS NOT INDICATED THE LOAD IS TO BE DERIVED FROM I.S. EN 1991.

FOUNDATIONS:

- REFER TO THE FOLLOWING SITE INVESTIGATION DOCUMENTS FOR INDICATIVE INFORMATION OF SITE CONDITIONS.
- REFER TO FOUNDATION LAYOUTS FOR LEVELS TO TOP OF FOUNDATIONS.
- ALL GROUND BEAMS TO BE PROVIDED WITH 200mm DIAMETER SLEEVES, PLACED CENTRALLY IN BEAM DEPTH, TO ACCOMMODATE DRAINAGE RINGS AS NECESSARY.
- FOR LOCATION OF UNDERSLAB DRAINAGE LAYOUT REFER TO ARCHITECTS DRAWINGS & DETAILS.
- CONCRETE BLINDING SHALL BE PROVIDED UNDER ALL FOUNDATIONS TO A MINIMUM THICKNESS OF 75mm. EXCAVATED SURFACES SHALL BE FREE OF LOOSE MATERIAL, DRY AND BLINDED AS SOON AS POSSIBLE AFTER INSPECTION OF BEARING SURFACES BY THE ENGINEER.
- FOUNDATIONS TO BE CENTERED UNDER COLUMNS AND WALLS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- ALL FOUNDATION BASE SLABS, WALLS AND COLUMNS TO BE CONCRETE CLASS C32/40 TO I.S. EN 206-1 AND PUNCH CONSULTING ENGINEERS SPECIFICATION FOR CONCRETE.
- ALL LEVELS ARE TO STRUCTURAL SLAB LEVEL (SSL) UNLESS NOTED OTHERWISE.

RADON SLEEVES

- RISING WALLS TO UNDERSIDE OF FLOOR SLABS TO HAVE 100mm wide x 25mm DEEP DPES AT 2m C/C ALONG LENGTH OF WALLS.
- FOR LOCATION OF RADON PIPE RUNS FROM SUMPS TO VENT REFER TO ARCHITECTS DRAWINGS & DETAILS.

TEMPORARY WORKS FOR EXCAVATIONS

- CONTRACTOR/SUB CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION AND REMOVAL OF ALL TEMPORARY WORKS AND CO-ORDINATION WITH THE PERMANENT WORKS. REFER ALSO TO HEALTH & SAFETY RISK ASSESSMENTS.
- THE DESIGN OF TEMPORARY WORKS FOR ANY EXCAVATION WORK SHALL CONSIDER THE FOLLOWING:
 - ALL CURRENT HEALTH AND SAFETY REGULATIONS
 - SLOPE STABILITY (SOILS NOT CUT STEEPER THAN 1V:2H)
 - CRACK POINT
 - GROUNDWATER
 - UNDERCHARGING FROM ADJACENT MATERIALS / PLANT
 - PRESENCE OF WATER BEARING COARSE GRANULAR SOILS
- TEMPORARY WORKS DESIGNER SHALL BE A CHARTERED ENGINEER WITH RELEVANT EXPERIENCE.
- DETAILS OF TEMPORARY WORKS INCLUDING METHOD STATEMENTS SHALL BE SUBMITTED TO THE DESIGN TEAM INCLUDING THE PSPD FOR COMMENT THREE WEEKS PRIOR TO COMMENCEMENT OF THE WORKS.
- A DETAILED SURVEY OF ADJACENT BUILDINGS AND ROADS IS TO BE CARRIED OUT BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF THE WORKS. COPIES OF THE REPORT TO BE ISSUED TO ALL DESIGN TEAM MEMBERS.
- COMMENTS BY CONSULTANTS IN NO WAY ALLEVIATE THE CONTRACTOR'S RESPONSIBILITY TO MONITOR THE MOVEMENT OF ADJACENT BUILDINGS AND ROADS IN ACCORDANCE WITH THE RELEVANT STANDARDS. REFER ALSO TO ARCHITECTS AND PUNCH SPECIFICATION.
- THE CONTRACTOR TO REFER TO THE PRELIMINARY HEALTH AND SAFETY PLAN, DRAWINGS, SPECIFICATIONS IN ADVANCE OF CARRYING OUT THE WORKS AND THE PREPARATION OF THEIR HEALTH AND SAFETY PLAN.
- CONTRACTOR TO ENSURE THAT THE TEMPORARY WORKS DESIGNER IS ISSUED WITH ALL RELEVANT DOCUMENTATION.
- STABILITY AND INTEGRITY OF ALL CIVIL AND STRUCTURAL ELEMENTS TO BE MAINTAINED BY THE CONTRACTOR DURING THE CONSTRUCTION WORKS.
- THE CONTRACTOR TO PROCURE ALL RELEVANT PERMITS FROM THE LOCAL AUTHORITY PRIOR TO COMMENCEMENT OF THE WORKS.
- THE CONTRACTOR MUST LOCATE ALL BELOW GROUND SERVICES. THIS MAY REQUIRE THE CONTRACTOR TO CARRYOUT ADDITIONAL INVESTIGATION WORKS PRIOR TO COMMENCEMENT ON SITE. ALL SERVICES TO REMAIN TO BE PROTECTED FOR THE DURATION OF THE WORKS.
- TEMPORARY BRACING WHERE REQUIRED TO BE DESIGNED AND CO-ORDINATED BY THE CONTRACTOR. TEMPORARY WORKS DESIGNER AND RELEVANT SUB-CONTRACTORS.

PRECAST CONCRETE:

- IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY OR DETERMINE ALL DIMENSIONS AND LEVELS REQUIRED PRIOR TO COMMENCEMENT OF CONSTRUCTION OR PRODUCTION OF FABRICATION DRAWINGS.
- CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH IS EN 1992. CERTAIN PORTLAND CEMENT COMPLYING WITH I.S. EN 206-1 OR BS EN 197-1 UNLESS OTHERWISE APPROVED. REINFORCEMENT SHALL BE HOT ROLLED DEFORMED BARS COMPLYING WITH BS 4449. ALL HIGH YIELD BARS SHALL BE DEFORMED BARS TYPE 2. STEEL FABRIC SHALL COMPLY WITH BS 4483.
- ALL CONCRETE SHALL BE IN ACCORDANCE WITH BS 8508 & IS EN 206-1.
- UNITS ARE TO BE ERECTED BY COMPETENT CONTRACTORS AS APPROVED BY PRECAST SUPPLIER / MANUFACTURER, AND THE ENGINEER.
- OPENINGS - NO OPES, NOTCHES OR ALTERATIONS ARE TO BE MADE TO UNITS WITHOUT PRIOR CONSULTATION WITH PRECAST SUPPLIER / MANUFACTURER AND ENGINEER.
- ALL PRECAST UNITS TO BE DESIGNED TO CATER FOR A 300mmx300mm FUTURE OPE PRIOR TO MANUFACTURE. COMPRESSIVE STRENGTH CLASS M4 AS GIVEN IN I.S. EN 1996 UNLESS OTHERWISE STATED ON DRAWINGS. MORTAR TESTING SHALL BE IN ACCORDANCE WITH IS EN 1996.
- SAND FOR MORTAR SHALL COMPLY WITH IS EN 13139.
- THE CONTRACTOR SHALL SUBMIT FULLY DETAILED FABRICATION DRAWINGS TO THE ENGINEER FOR APPROVAL. A MINIMUM OF 10 WORKING DAYS BEFORE FABRICATION IS DUE TO COMMENCE.
- NO FABRICATION SHALL COMMENCE UNTIL APPROVAL OF THE SHOP DRAWINGS IS RECEIVED AND UNTIL ALL COMMENTS HAVE BEEN INCORPORATED.
- COMMENTS BY THE ENGINEER IN NO WAY RELIEVES THE CONTRACTOR FOR ANY RESPONSIBILITY FOR THE ACCURACY, CORRECTNESS AND ADEQUACY OF CALCULATIONS, DESIGN, DETAILS AND DIMENSIONS.
- PROVIDE A MINIMUM OF 24 HOURS NOTICE TO THE ENGINEER FOR INSPECTION OF ALL REINFORCING STEEL PRIOR TO PLACING CONCRETE.
- CONCRETE CUBES SHALL BE TAKEN AT A RATE OF ONE SET OF THREE CUBES PER 20m³ OR FRACTION THEREOF, WITH A MINIMUM OF ONE SET PER DAY PER CLASS OF CONCRETE. CUBES SHALL BE TESTED AT 7 AND 28 DAYS.
- ALL THE RESULTS SHALL BE FORWARDED DIRECTLY TO THE ENGINEER. ALL SAMPLING AND TESTING OF CONCRETE TO COMPLY WITH BS 1881 AND I.S. EN 12350 AND I.S. EN 12504.
- CAVITY UNDER ALL SUSPENDED GROUND FLOOR SLABS MUST BE FULLY VENTILATED.
- THE CONCRETE STRUCTURAL SCREED IS TO BE DESIGNED AND DETAILED BY THE PRECAST SUB-CONTRACTOR TO PREVENT CRACKING IN THE SLAB/SCREED. DESIGN TO BE FORWARDED TO THE ENGINEER FOR APPROVAL PRIOR TO MANUFACTURE OF PRECAST UNITS.
- THE FOLLOWING PRECAST LINTEL TYPE TO BE USED UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- PRECAST CONCRETE ELEMENT TOLERANCES SHOULD BE CLASS A AS PER IS EN 14992.

DRAINAGE GENERAL:

- CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING OUT ALL DRAINAGE INFRASTRUCTURE TO ENSURE NO CLASHES OCCUR WITH SERVICE DUCTS, CHAMBERS ETC.
- CARE SHOULD BE TAKEN BY THE CONTRACTOR WHEN HANDLING PIPES, PARTICULARLY WHEN UNLOADING AND STACKING, SO AS TO AVOID DAMAGING THEM.
- ALL RECEPTOR BASKETS SHOULD BE SETTED INDORS AWAY FROM DIRECT SUNLIGHT.
- ALL SEWERS TO BE THERMOPLASTIC STRUCTURED WALL SEWER PIPE SHALL COMPLY WITH THE RELEVANT PROVISIONS OF WIS 4-35-01. (I.E. POLYSEWER BY POLYPIPE CIVILS OR EQUIVALENT)
- EXCAVATION SHOULD NOT BE CARRIED OUT TOO FAR IN ADVANCE OF PIPE INSTALLATION. ALL RELEVANT HEALTH & SAFETY REQUIREMENTS IN RESPECT OF EXCAVATION SHOULD BE OBSERVED BY THE CONTRACTOR DURING EXCAVATION WORKS.
- MINIMUM COVER TO PIPES:
 - 1200mm ROADWAYS
 - 900mm OPEN SPACES & FOOTPATHS NOT ADJACENT TO ROADS
 - 600mm GARDENS
- THE CONTRACTOR SHOULD PLAN HIS WORK FOR CHAMBERS AND MANHOLES SO AS TO MINIMISE AS MUCH AS POSSIBLE WORKING REQUIRED IN CONFINED SPACES.
- JOINT LUBRICANTS FOR SLIDING JOINTS SHALL HAVE NO DELETERIOUS EFFECT ON EITHER THE JOINT RINGS OR PIPES AND SHALL BE UNAFFECTED BY SEWAGE.
- ALL ABANDONED SEWER PIPES TO BE FILLED WITH C12/15 CONCRETE. ABANDONED MANHOLES TO BE BROKEN OUT IF POSSIBLE. OTHERWISE THEY SHOULD BE FILLED WITH C12/15 CONCRETE.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE RELEVANT SERVICE PROVIDERS IN ADVANCE OF ANY PLANNED EXCAVATION WORKS TO VERIFY THE LOCATION, DEPTH AND NATURE OF ANY UNDERGROUND SERVICES.
- ROCKER PIPES:
 - ROCKER PIPES SHOULD BE PROVIDED AT ALL LOCATIONS WHERE:
 - A PIPE ENTERS OR LEAVES A MANHOLE, PUMPING STATION OR OTHER RIGID STRUCTURE.
 - A PIPE ENTERS OR LEAVES A CONCRETE ENCASEMENT.
 - ONLY AT LOCATION AS DIRECTED BY THE ENGINEER.
 - ROCKER PIPE JOINT TO BE LOCATED NO MORE THAN 150mm FROM THE OUTSIDE FACE OF THE STRUCTURE TO WHICH THE PIPEWORK IS SERVING, THE EFFECTIVE LENGTH OF THE ROCKER PIPE SHOULD BE:
 - PIPE DIAMETER 150mm TO 600mm: 0.60m
 - PIPE DIAMETER 600mm TO 750mm: 1.00m
 - PIPE DIAMETER GREATER THAN 750mm: 1.25m
 - ALL ROCKER PIPES ARE TO BE FORMED BY CUTTING AND TRIMMING A LENGTH OF SPIGOT & SOCKET PIPE TO FORM A SPOUT AT THE JOINT END, THEREBY FORMING SPIGOT & SOCKET JOINTS AT BOTH ENDS OF THE ROCKER PIPE.
- PIPEWORK AND BENCHING TO A SINGLE MANHOLE CHAMBER SHOULD BE COMPLETED AND THE ENGINEER INVITED TO INSPECT SAME BEFORE ALL REMAINING CHAMBERS ARE COMPLETED.
- WHERE CONNECTIONS TO FLEXIBLE PIPES TO BE USED FOR MAKING CONNECTIONS TO SEWERS.
- WHEN INSTALLING FLEXIBLE PIPES (SINGLE/TWIN WALL PVC OR SIMILAR) PARTICULAR CARE SHOULD BE TAKEN BY THE CONTRACTOR TO ENSURE THE PIPES ARE WELL SEDDED AND SURROUNDED IN GOOD QUALITY GRANULAR MATERIAL IN ACCORDANCE WITH THE SPECIFICATION.
- THE CONTRACTOR MUST TAKE GREAT CARE WHEN COMPACTING MATERIAL OVER DRAINAGE PIPES SO AS NOT TO DISLodge THEM FROM THEIR CORRECT LINE AND LEVEL.
- TYPE E BEDDING TO BE USED WHERE MINIMUM COVER OR GREATER IS PROVIDED TO FLEXIBLE PIPES.
- FOR PIPES IN ROADWAYS WHERE COVER IS LESS THAN 1200mm BUT GREATER THAN 800mm TYPE G BEDDING TO BE USED.
- FOR PIPES IN ROADWAYS WHERE COVER IS LESS THAN 800mm TYPE X BEDDING TO BE USED.
- FOR PIPES IN OPEN SPACES, FOOTPATHS NOT ADJACENT TO ROADS AND GARDENS WHERE MINIMUM COVER OR GREATER IS NOT ACHIEVED, TYPE G BEDDING TO BE USED.
- ALL MANHOLES TO BE CONSTRUCTED WITH PRECAST CONCRETE RINGS IN ACCORDANCE WITH RELEVANT ENGINEERS DETAILS DRAWING.
- PROPRIETARY CONNECTIONS TO BE USED THROUGHOUT.
- ALL JOINTS TO BE WATERTIGHT TO CL 504 SUB CLAUSE 3 OF THE NRA SPECIFICATION FOR ROADWORKS.
- MANHOLES WITHIN PAVING TO BE D400 AND RECESSED TO RECEIVE PAVIORS.
- MANHOLES IN TARMACADAM/GRASSED AREAS TO BE NON ROCK D400 LOCKABLE MANHOLES.
- TRENCHES IN EXISTING SURFACES TO BE SAW CUT.
- IF CONSTRUCTING MANHOLE CHAMBERS USING PRECAST CONCRETE RINGS, THE CONTRACTOR SHOULD ENSURE THAT THE JOINTS IN THE PRECAST CONCRETE RINGS ARE STAGGERED WITH THE JOINTS IN THE CONCRETE SURROUND TO REDUCE THE POSSIBILITY OF GROUND WATER INGRESS.
- WHERE A CONNECTION IS REQUIRED TO AN EXISTING PUBLIC SEWER SYSTEM, THE CONTRACTOR MUST MAKE A FORMAL APPLICATION TO THE LOCAL AUTHORITY TO DO SO.
- A DETAILED METHOD STATEMENT MUST BE SUBMITTED TO THE LOCAL AUTHORITY FOR APPROVAL AT LEAST FOUR WEEKS IN ADVANCE OF THE PLANNED CONSTRUCTION WORKS.
- WHERE NEW DRAINAGE INFRASTRUCTURE IS TO CROSS AN EXISTING ROAD, THE CONTRACTOR IS REQUIRED TO:
 - CONTACT THE RELEVANT AUTHORITIES WELL IN ADVANCE OF THE PLANNED WORKS.
 - MAKE AN APPLICATION AND PAY FOR A ROAD OPENING LICENCE IF APPLICABLE.
 - MAKE GOOD THE EXISTING ROAD TO THE SATISFACTION OF THE ENGINEER & THE RELEVANT AUTHORITIES ON COMPLETION OF THE WORKS.
- THE CONTRACTOR IS ADVISED TO COMPLETE AIR TESTING ON A DAILY BASIS DURING THE COURSE OF THE WORKS TO ENSURE ISOLATION OF ANY FAILED TESTS.
- THE COMPLETE DRAINAGE WORKS SHOULD BE PROTECTED, WHERE NECESSARY, FROM LOADS IMPOSED BY CONSTRUCTION PLANT DURING CONSTRUCTION.
- ON COMPLETION OF THE WORKS, THE CONTRACTOR MUST ENSURE ALL INTERNAL SURFACES OF THE NEW SEWERS ARE THOROUGHLY CLEANED TO REMOVE ALL DELETERIOUS MATERIAL. THIS MATERIAL MUST BE PREVENTED FROM ENTERING THE PUBLIC SEWER SYSTEM.
- A CCTV SURVEY OF THE COMPLETED UNDERGROUND DRAINAGE NETWORK SHOULD BE CARRIED OUT BY THE CONTRACTOR ON COMPLETION OF THE WORKS. IT IS RECOMMENDED THAT THIS EXERCISE IS COMPLETED BEFORE FINAL SURFACE COURSES AND FINISHES ARE APPLIED IN CASE ANY REMEDIAL WORKS ARE REQUIRED TO THE DRAINAGE.

DRAINAGE: SURFACE WATER:

- ALL GULLY TRAPS/ACCESS JUNCTION PIPE RUNS TO BE 150mm DIAMETER UPVC LAID TO GRADIENTS NOT EXCEEDING 1:50, UNLESS NOTED OTHERWISE.
- ALL GULLIES TO BE LOCKABLE CAVANAUGH HIPPO STYLE GULLY OR APPROVED EQUIVALENT
- GULLIES CONNECTING TO A FOUL SEWER MUST BE TRAPPED.
- TESTING OF ALL SEWERS MUST BE COMPLETED AND SIGNED OFF BY THE ENGINEER PRIOR TO ANY GULLY CONNECTIONS BEING MADE TO THE MAIN SEWER BY THE CONTRACTOR.
- ALL DRAINAGE CHANNEL TO BE "M1500 MULTIRAIN" CHANNEL BY ACO OR SIMILAR APPROVED
- COVERS TO DRAINAGE CHANNELS TO BE LOCKABLE D400 DUCTILE IRON "HEALTHGUARD" GRATING BY ACO OR SIMILAR APPROVED
- IN RESPECT OF EXCAVATION WORKS TO BE SEALED WITH SILICONE.
- ALL SEPARATORS TO BE FITTED WITH OIL LEVEL ALARM SYSTEM AND AUTOMATIC CLOSURE VALVES.
- ALL PETROL INTERCEPTORS TO BE A KINGSPAN NSB051 CLASS 1 BYPASS SEPARATOR OR SIMILAR APPROVED.

FOUL WATER SEWER:

- ALL DRAINAGE PIPES BETWEEN ACCESS JUNCTIONS (AJS) TO BE 150mm DIAMETER UPVC LAID TO GRADIENTS NOT EXCEEDING AT 1:40, UNLESS NOTED OTHERWISE.

FILTER DRAIN

- RAIN WATER PIPE TO BE TERMINATED IN THE FILTER MATERIAL. NO DIRECT CONNECTION TO THE PIPE, OPENING THROUGH GEOTEXTILE TO BE MADE GOOD AT RAIN WATER PIPE ENTRY.
- LOCKABLE COVERS TO BE PROVIDED TO ALL PRIVATE MANHOLES GREATER THAN 1.8m DEEP.

WATERMAIN:

- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS & MANUFACTURERS DRAWINGS & SPECIFICATIONS.
- ALL PIPE DIAMETERS ARE NOMINAL.
- WHERE CONNECTION IS REQUIRED TO AN EXISTING PUBLIC WATERMAIN, THE CONTRACTOR MUST ISSUE DETAILED DOCUMENTATION FOR APPROVAL TO THE RELEVANT LOCAL AUTHORITY AND IRISH WATER. THIS DOCUMENTATION MUST BE ISSUED AT LEAST 40 WORKING DAYS IN ADVANCE OF THE PLANNED WORKS OR AS AGREED WITH THE LOCAL AUTHORITY AND IRISH WATER.
- ALL THRUST BLOCKS MUST BE CAST AGAINST UNDISTURBED GROUND. FLEXIBLE PIPES SHOULD BE WRAPPED IN ONE LAYER OF 1000 GAUGE POLYETHENE TO AVOID DIRECT CONTACT WITH THE CONCRETE. MARKER POSTS AND PLATES TO BE PROVIDED FOR ALL VALVES, METERS AND HYDRANTS.
- CHORINATION AND BACTERIOLOGICAL TESTS TO BE UNDERTAKEN BY EXTERNAL TESTER AND TEST CERTIFICATION TO BE SUBMITTED TO ENGINEER.
- MARKER POSTS AND PLATES TO BE PROVIDED FOR ALL VALVES.
- IN ADVANCE OF TESTING OF THE WATERMANS, THE CONTRACTOR MUST PRESENT TO THE ENGINEER A CALIBRATION CERTIFICATE FOR THE APPARATUS TO BE USED IN THE TEST.
- ALL DETAILS TO BE AGREED WITH LOCAL AUTHORITY
- ALL EXISTING WATERMANS TO BE ADEQUATELY PROTECTED, ANY WATERMANS DAMAGED DURING THE COURSE OF CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR AT THEIR COST.
- COVERS OF ALL HYDRANT CHAMBERS TO BE PAINTED YELLOW
- ALL ROCKER PIPES SHALL BE NO MORE THAN 150mm FROM THEIR ASSOCIATED CHAMBER
- WHERE PIPE RUN IS LOCATED ADJACENT TO FOUNDATION AND IS AT A LEVEL BELOW UNDERSIDE OF THE FOUNDATION, PIPE TRENCH TO BE BACKFILLED TO FORMATION LEVEL WITH CLASS 15/20 CONCRETE.
- PROVIDE ANCHOR/THRUST BLOCKS ON ALL BENDS EQUAL TO OR IN EXCESS OF 22.5 DEGREE ANGLES OR EQUIVALENT SYSTEM.
- TRENCHES IN EXISTING SURFACES TO BE SAW CUT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING OUT WATERMANS & SLICE VALVES TO ENSURE NO CLASHES WITH SERVICE DUCTS OR PIPES.

NOTES FOR CONNECTION TO IRISH WATER SERVICES

- CONTRACTOR TO LIASE WITH IRISH WATER PRIOR TO MOBILISATION ON SITE TO DETERMINE THE DURATION OF THE APPROVAL PROCESS AND WHAT DOCUMENTATION AND FEES ARE REQUIRED BY IRISH WATER AND THE LOCAL AUTHORITY AND PROGRAM THIS INTO THE CONSTRUCTION PROGRAM. CONTRACTOR TO CONFIRM EXTENT OF NOTICE REQUIRED BY IRISH WATER TO INSPECT WORKS AND ALSO PROGRAM INTO THE CONSTRUCTION PROGRAM.
- IRISH WATER TO BE CONTACTED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY FOUL SEWER AND WATERMAIN WORKS. ALL DETAILS TO BE AGREED WITH IRISH WATER. IRISH WATER TO BE GIVEN 40 WORKING DAYS NOTICE FOR ALL FOUL SEWER AND WATERMAIN CONNECTION WORKS.
- EXACT LOCATION AND DEPTH OF THE EXISTING FOUL SEWERS, RISING MAINS AND WATERMANS SHOULD BE ESTABLISHED BY THE CONTRACTOR IN ADVANCE OF THE MAIN EXCAVATION FOR THE NEW FOUL SEWER AND WATERMAIN SO AS TO AVOID THE POSSIBILITY OF DAMAGE TO THE EXISTING FOUL SEWER, RISING MAINS AND WATERMAIN DURING CONSTRUCTION WORKS. SLIT TRENCHES TO BE UNDERTAKEN.
- ALL EXISTING FOUL SEWERS, RISING MAINS AND WATERMANS TO BE ADEQUATELY PROTECTED. ANY FOUL SEWERS, RISING MAINS OR WATERMANS DAMAGED DURING THE COURSE OF CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR AT THEIR OWN COST.
- THE CONTRACTOR SHALL APPLY FOR A ROAD OPENING LICENSE AND PAY THE REQUIRED ROAD OPENING LICENSE FEE. THIS FEE IS A NON-NEGOTIABLE AND NON-REFUNDABLE FIGURE. THE CONTRACTOR SHALL BE DEEMED TO HAVE INCLUDED IN HIS TENDER PRICE FOR ALL REQUIREMENTS SUCH AS CONTRIBUTION FOR CONNECTIONS TO PUBLIC INFRASTRUCTURE, LICENSE APPLICATION, PAYMENT OF FEES, STATUTORY TIME PERIODS, TRAFFIC MANAGEMENT PLANS AND APPLICATION, REINSTATEMENT, ETC.

REINFORCED CONCRETE:

- CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH IS EN 1992 AND I.S. EN 13670.
- CEMENT SHALL BE ORDINARY PORTLAND CEMENT COMPLYING WITH I.S. EN 197 UNLESS OTHERWISE APPROVED.
- REINFORCEMENT SHALL BE HOT ROLLED DEFORMED TYPE 2 BARS, GRADE 500 STEEL COMPLYING WITH BS 4449. STEEL FABRIC (I.E. MESH) SHALL COMPLY WITH BS 4483. "FLYING ENDS" SHALL BE USED TO AVOID LAYERING OF FABRIC. JOINT THICKNESS SHALL BE 10mm.
- THE NORMALIZED MEAN COMPRESSIVE STRENGTH OF MASONRY UNITS SHALL BE 20N/mm² UNLESS NOTED OTHERWISE ON DRAWINGS. BLOCKS SHALL BE TESTED AT A RATE OF 5 PER 1000 BY AN INDEPENDENT TESTING AGENCY.
- MORTAR SHALL BE COMPRESSIVE STRENGTH M4 IN ACCORDANCE WITH TABLE NA.3. IS EN 1996-1-1:2005, UNLESS OTHERWISE STATED ON DRAWINGS.
- MORTAR TESTING SHALL BE IN ACCORDANCE WITH I.S. EN 1996.
- BEAD JOINT REINFORCEMENT SHALL BE BRICKWORKER REINFORCEMENT BY BRC BUILDING PRODUCTS OR EQUAL AND APPROVED. BEAD JOINT REINFORCEMENT SHALL BE PROVIDED IN ACCORDANCE WITH THE MATERIAL TYPE, SIZE AND SPACING INDICATED ON THE DRAWINGS AND THE SPECIFICATION. IT SHALL BE IN STAINLESS STEEL GRADE 304, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- RISING WALL INTERSECTIONS SHALL BE TIED TOGETHER IN A MASONRY BOND. OTHER WALLS SHALL BE TIED IN MASONRY BOND AT CORNERS UNLESS NOTED OTHERWISE ON DRAWINGS.
- CAVITY WALL TIES SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED ON DRAWINGS:
 - CAVITIES UP TO & INCLUDING 100mm: STAINLESS STEEL WALL TIES @ 450mm c/c VERTICALLY & 750mm c/c HORIZONTALLY IN STAGGERED ROWS.
 - CAVITIES OF 100mm TO 150mm: STAINLESS STEEL WALL TIES @ 450mm BOTH VERTICALLY & HORIZONTALLY IN STAGGERED ROWS.
- ADDITIONAL TIES IN EVERY COURSE AT MIN. 225mm FROM EDGE OF ALL OPENINGS IN BLOCK PATTERN AND ALSO AT EACH SIDE OF CONTROL JOINTS. 50mm MIN. EMBEDMENT OF TIES IN MORTAR (WALL TIES TO I.S. EN 845).
- CAVITY WALL TIES SHALL BE STAINLESS STEEL TYPE 1 TIES IN ACCORDANCE WITH BS EN 845 AND I.S. EN 845, UNLESS OTHERWISE NOTED ON DRAWINGS. TIES SHALL BE SPACED IN ACCORDANCE WITH THE SPECIFICATION AND I.S. 325, PART 1.
- FOR MASONRY CONSTRUCTION DURING COLD WEATHER REFER TO THE SPECIFICATION AND TREATMENT OF CONSTRUCTION JOINTS SHALL BE AS APPLIED WITH THE CURRENT EDITION OF THE "NATIONAL STRUCTURAL CONCRETE SPECIFICATION FOR BUILDING CONSTRUCTION" PUBLISHED BY THE CONCRETE SOCIETY, UK. AND WITH IS EN 13670, UNLESS AGREED OTHERWISE WITH THE ENGINEER. PRIOR TO CONTRACT POSITION AND TREATMENT OF CONSTRUCTION JOINTS SHALL BE TO THE APPROVAL OF THE ENGINEER.
- PROVIDE A 25 x 25mm CHAMFER TO ALL EXPOSED CORNERS AND EDGES, UNLESS NOTED OTHERWISE ON THE ENGINEER AND ARCHITECT DRAWINGS AND SPECIFICATION.
- MOVEMENT JOINT FILLER SHALL BE A COMPRESSIBLE FIBRE BOARD, FOSROC EQUIVALENT. MOVEMENT JOINT SEALANT SHALL BE A TWO-PART POLYISOBUTYLENE SEALANT, FOSROC THIOFLEX 600 OR EQUIVALENT, UNLESS OTHERWISE NOTED OTHERWISE ON DRAWINGS.
- CONCRETE VERTICAL SURFACES ADJOINING MASONRY WALLS SHALL HAVE CONTINUOUS STAINLESS STEEL PROPRIETARY CHANNELS CAST-IN, TO RECEIVE STAINLESS STEEL WALL TIES. ANCON 21/18 OMEGA CHANNELS AND SP21 CHANNEL WALL TIES OR EQUIVALENT SYSTEM.
- PROVIDE A MINIMUM OF 72 HOURS NOTICE TO THE ENGINEER FOR INSPECTION OF ALL REINFORCING STEEL PRIOR TO PLACING CONCRETE.
- WHERE CONCRETE STRUCTURE INTERFACE TO WALLS PROPRIETARY REINFORCEMENT T1@150mm c/c ANCHORAGE TO BE USED UNDO ON THE DRAWINGS OR ANCHORAGE REINFORCEMENT PROVIDED.
- ALL NON-STRUCTURAL SCREENS TO HAVE ONE LAYER OF A252 MESH AND SAW CUTS AT MAX. 4.0m C/C. ISOLATION JOINTS ARE TO BE PROVIDED AT THE BASE OF VERTICAL CORES.
- ALL ALU-BLOCK AND KEYSTONE LINTEL OR EQUAL AND APPROVED PRODUCTS ARE TO BE SUPPORTED ON A MIN. OF 215mm DEEP x 440mm LONG CONCRETE BEARING PAD.
- REFER TO ARCHITECTS DRAWING FOR DETAILS OF SETTING OUT TO MASONRY WALLS.
- CONTROL JOINTS TO BE PROVIDED AT 6000mm CENTERS TYPICAL. REFER TO THE ARCHITECTS DRAWINGS.) REFER TO SPECIFICATION.
- ALL VERTICAL STRAPS TO BE 30 X 30 STRIPS.
- ALL PROPRIETY SYSTEMS TO BE USED TO BE PROVIDED WITH BBA CERTIFICATION OR APPROVED TEST HOUSE CERTIFICATION.
- ALL BRICKWORK TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 15N/mm² AND HAVE A WATER ABSORPTION OF LESS THAN 12%.
- SHOT FINISH OF WALL TIES IS NOT PERMITTED FOR ANY MASONRY WALL ABUTTING STEEL OR CONCRETE ELEMENTS. PROPRIETARY CAST-IN CONNECTIONS TO BE USED FOR CONCRETE ELEMENTS AND PROPRIETARY BOLT CONNECTION TIE TO STEEL ELEMENTS TO BE USED. PRODUCTS ARE SUBJECT TO APPROVAL BY THE ENGINEER. REFER ALSO TO PUNCH SPECIFICATIONS.

STRUCTURAL STEELWORK AND COLD FORMED PURLINS, SHEETING RAILS:

- IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY OR DETERMINE ALL DIMENSIONS AND LEVELS REQUIRED PRIOR TO COMMENCEMENT OF CONSTRUCTION OR PRODUCTION OF FABRICATION DRAWINGS.
- ALL STRUCTURAL STEELWORK SHALL BE CARRIED OUT IN ACCORDANCE WITH I.S. EN 1993.
- THE CONTRACTOR IS TO INCLUDE FOR TESTING OF WORKSHOP WELDS AND SITE WELDS IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATION.
- STEEL GRADES:
 - UB/LC: S355 TO I.S. EN 10025, U.N.O.
 - CH/S/HS/RHS: S355 TO I.S. EN 10025, U.N.O.
 - CHANNELS/PLATES: S275 TO I.S. EN 10210, U.N.O.
 - EQUAL/UNEQUAL ANGLES: S275 TO BS EN 10056, U.N.O.
 - HICK FLATS/BARS: S275 TO I.S. EN 10025, U.N.O.
- STEEL SHALL BE SAW CUT.
- BOLTS SHALL BE GRADE 8.8 TO I.S. EN 1993, GALVANISED TO BS 7371 AND SIZE M20 UNLESS SHOWN OTHERWISE ON DRAWINGS. BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS. HOLES FOR BOLTS SHALL BE DRILLED ONLY.
- FITTING SHALL BE EX. 10mm PLATE UNLESS NOTED OTHERWISE.
- ALL TIMBER TO BE CONTINUOUS 60mm FILL MINIMUM, UNLESS OTHERWISE SHOWN, WELDING IN ACCORDANCE WITH BS EN 10111
- ANCHOR BOLTS SHALL BE GRADE 8.8 MATERIAL UNLESS STATED OTHERWISE ON THE DRAWINGS. GROUT UNDER BASE PLATES SHALL BE SBD FIVE STAR NON-SHRINK GROUT MIXED AND INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. HOLDING DOWN BOLTS AND LEVELING PACKS SHALL BE TOTALLY ENCLOSED BY GROUT.
- SLAB CLEAN STEEL TO SA 2.1/2. FINISH TO BE PAINTED OR GALVANIZED AS INDICATED ON THE ARCHITECTURAL G.A. DRAWINGS OR SPECIFICATIONS.
- COLD FORMED PURLINS AND SHEETING RAILS SHALL BE DESIGNED TO I.S. EN 1993 AND SHALL BE MANUFACTURED FROM HOT DIPPED GALVANIZED STEEL TO I.S. EN 10147: 2012. STEEL SHALL BE GRADE E350 WITH A 225 MINIMUM TENSILE STRENGTH.
- ALL CONNECTIONS NOT SHOWN ON THE ENGINEERS DRAWINGS SHALL BE DESIGNED AND DETAILED BY THE CONTRACTOR. CALCULATIONS SHALL BE SUBMITTED FOR APPROVAL WITH THE FABRICATION DRAWINGS.
- THE CONTRACTOR SHALL SUBMIT FULLY DETAILED FABRICATION DRAWINGS TO THE ENGINEER (INCLUDING DESIGN CALCULATION FOR CONNECTIONS) FOR APPROVAL A MINIMUM OF 10 WORKING DAYS BEFORE FABRICATION IS DUE TO COMMENCE. NO FABRICATION SHALL COMMENCE UNTIL APPROVAL OF THE SHOP DRAWINGS IS RECEIVED AND UNTIL ALL COMMENTS HAVE BEEN INCORPORATED.
- COMMENTS BY THE ENGINEER IN NO WAY RELIEVES THE CONTRACTOR FOR ANY RESPONSIBILITY FOR THE ACCURACY, CORRECTNESS AND ADEQUACY OF CALCULATIONS, DESIGN, DETAILS AND DIMENSIONS.
- STEELWORK BELOW GROUND TO BE ENCASED IN CONCRETE. MINIMUM COVER TO STEEL TO BE 75mm WITH D49 WRAPPING MESH.
- ALL CONTACT SURFACES IN FRICTION GRIP BOLTED CONNECTIONS TO BE LEFT UNPAINTED.
- ALL ARCHITECTURAL STEELWORK TO HAVE ALL VISIBLE WELDS GROUND FLUSH.
- ALL STAINLESS STEEL TO BE GRADE 316L.
- REFER TO THE ARCHITECTS DRAWINGS FOR FIRE PROTECTION AND SURFACE FINISHES.
- FOR HOLDING DOWN BOLT AND PLATE CONNECTIONS WHICH ARE CAST INTO CONCRETE ELEMENTS, THE CONTRACTOR TO SURVEY AS-BUILT LOCATIONS PRIOR TO FABRICATION OF CONNECTIONS AND ALLOW SUITABLE TOLERANCES IN THE CONNECTIONS. ANY TOLERANCES OUTSIDE THE NATIONAL STEELWORK SPECIFICATION TO BE NOTIFIED TO THE ENGINEER PRIOR TO FABRICATION.
- IN ADDITION TO ANY STEELWORK SPECIFIED ON THE DRAWINGS AND ADDITIONAL ALLOWANCE OF 5 TONNES TO BE TAKEN FOR AND SHOULD ALLOW FOR THE SUPPLY, FABRICATION, PAINTING, ERECTION AND DELIVERY.
- ALL CONNECTIONS TO ALLOW FOR A TENSION FORCE OF 75KN.
- ALL COMPOSITE FLOORS TO HAVE SHEAR STUDS AT MAX 323mm C/C TO SUPPORTING STEEL MEMBERS, WITH H10 PER METAL DECK TROUGH AND A22ZMESH TOP U.N.O ON DRAWINGS

CONTRACTORS DESIGN RESPONSIBILITIES:

- THE FOLLOWING IS A NON-EXHAUSTIVE LIST OF THE CONTRACTOR DESIGN RESPONSIBILITIES. REFERENCE SHOULD ALSO BE MADE TO THE DESIGN CONTRACT SPECIFICATIONS:
 - ALL PRECAST CONCRETE ELEMENTS AND STRUCTURAL SLEEVES.
 - ALL HANDRAILS AND BALUSTRADES, INCLUDING ALL FIXINGS.
 - ALL TIMBER TO TIMBER CONNECTIONS AND PREFABRICATED ELEMENTS
 - ALL FACADE DETAILS INCLUDING FRAME, GLAZING, FIXINGS AND CONNECTIONS. REFER TO FACADE SPECIFICATION.
 - ALL STEEL CONNECTIONS, INCLUDING ALL STEEL TO STEEL WELDS AND BOLTS ON EXPOSED PARTS OF CAST-IN ELEMENTS. ALL STEEL TO STEEL CONNECTIONS TO BE DESIGNED FOR 100% OF THEIR SHEAR CAPACITY U.N.O ON THE DRAWINGS.
 - SECONDARY STEELWORK FOR PARTITIONS/WINDOW /DOOR SUPPORTS & MASONRY SUPPORT SYSTEM.
 - ROCK ANCHORS, PILING AND PILING MAT.
 - ALL TEMPORARY WORKS.
 - ATTENUATION TANK.
 - WATERPROOFING DETAILS
 - GLULAM MEMBERS AND STABILITY OF SAME
 - LIGHTWEIGHT ROOF STRUCTURE
- THE CONTRACTOR MUST SUPPLY ALL ANCILARY DESIGN CERTIFICATES AND MATERIALS CERTIFICATES IN COMPLIANCE WITH THEIR DUTIES AS SET OUT BY THE "BUILDING CONTROL REGULATIONS 2014 CODE OF PRACTICE FOR INSPECTING AND CERTIFYING BUILDING WORKS". THE CONTRACTOR MUST ALSO ENSURE THE COORDINATION AND PROVISION OF ALL TEST CERTIFICATES AND CONFIRMATIONS TO THE SATISFACTION OF THE ASSIGNED CERTIFIER OR OTHER DESIGNATED INSPECTOR OR CERTIFIERS PROVIDING ANCILARY CERTIFICATES, MAINTAIN RECORDS AND FACILITATE THE COORDINATION OF SITE INSPECTIONS.

COLLATERAL WARRANTIES REQUIRED FROM CONTRACTOR:

- PRECAST CONCRETE ELEMENTS
- STEEL CONNECTIONS
- PILING AND ROCK ANCHORS
- PREFABRICATED TIMBER ELEMENTS
- ATTENUATION TANK SYSTEMS
- HANDRAILS & BALUSTRADES INCLUDING FIXINGS
- WATERPROOFING
- GLULAM

RECORD DRAWINGS

- THE CONTRACTOR SHALL SUBMIT RECORD DRAWINGS OF THE AS BUILT WORKS FOR THE ENGINEERS APPROVAL.

MINIMUM MATERIAL STRENGTHS:

- CONCRETE - C32/40 U.N.O.
- STEEL - S355 U.N.O.
- MASONRY - 20N/mm²sq NORMALIZED COMPRESSIVE STRENGTH IN ACCORDANCE WITH BS 1996-1-1

LIFTSHAFT LIFTING BEAMS

- TWO NUMBER 15Z137 BEAMS TO BE PROVIDED TO EACH LIFT SHAFT. BEAM TYPICAL END PLATE CONNECTION TO CONCRETE WALL TO CONSIST OF 300mmx300mmx12mm END PLATES WITH TWO MORTAR M20 GRADE 8.8 WITH HILTI HIT-RE 500 INJECTION ADHESIVE MORTAR WITH 175MM ANCHORAGE DEPTH OR EQUAL SIMILAR APPROVED

NOTE:

- THIS DRAWING PROVIDES A BRIEF SUMMARY OF THE PROJECT SPECIFICATION. IT SHOULD BE READ IN CONJUNCTION WITH THE PUNCH AND DESIGN TEAM PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHOULD CHECK FOR DISCREPANCIES AND THEY SHOULD BE REPORTED TO THE ENGINEER FOR CLARIFICATION BEFORE ANY WORK COMMENCES.
- IT SHOULD BE NOTED THAT ANY REFERENCE TO "ENGINEER" WITHIN ARCHITECTURAL AND/OR M&E DOCUMENTS MAY NOT RELATE TO PUNCH CONSULTING ENGINEERS AS BEING THAT "ENGINEER". REFERENCE SHOULD BE MADE TO CONTRACTORS DESIGN RESPONSIBILITIES ON THE STANDARD NOTES DRAWING.
- ALL INSULATION, DPC, DPM AND RADON/GAS BARRIERS TO ARCHITECTS DETAILS.
- MAIN CONTRACTOR TO CARRY OUT CONDITION SURVEY OF ADJACENT PROPERTIES AND BOUNDARY WALLS PRIOR TO COMMENCEMENT OF WORKS ON SITE.
- THE CONTRACTOR MUST PROVIDE CE MARKING WITH DECLARATION OF PERFORMANCE FOR ALL PRODUCTS COVERED UNDER THE CONSTRUCTION PRODUCTS REGULATIONS.

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Client:

Job: STEEPLES ROAD, DULEEK - RESIDENTIAL DEVELOPMENT

Title: GENERAL NOTES

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