General Notes

G.O. General

- G.1 This drawing is to be read in conjunction with all relevant Architects and Engineers drawings and specifications, as well as the structural Design Criteria report (L01212-DC-001).
- G 2 Do not eagle from this drawing All details and Do not scale from this drawing. All detail dimensions are to be checked by the contractor prior to commencement of construction. Any discrepancies are to be reported to the Engineer.
- G.3 All dimensions are in millimeters unless noted
- G.4. All proprietory materials are to be used in
- G.5 Temporary stability of all parts of the structure at all stages of construction is the responsibility of the contractor.
- G.6 Refer to Architects drawings for the
 - Water Proofing and membranes details
 - Thermal insulction details Cladding and cladding systems

 - Finishes and screed details
- G7 Refer to Services drawings for the following:-
- . Details of the holes required in the slabs

- PL.1 Piles shall be accurately installed in the correct position, a maximum tolerance of 75mm on position of piles shall be accepted 75mm on position of piles shall be accepted at the discretion of the engineer. The maximum tolerance to the perpendicular of vertical piles shall be 40mm variance in 3m provided that moments or forces created by inaccurate driving are taken directly by the piles within the accepted factor of safety.
- PL2 The setting out of grid lines shall be done by the contractor who shall provide the permanent datum evel and bock mark for the purpose of establishing cut off levels, setting out of individual piles shall also be carried out by the contractor.
- PL.3 The contractor shall accurately log each day total pilling length, empty boring length, delay time, obstruction time etc. cross reference
- PL.4 The contractor shall provide the structural consultant with two copies of the driving record detailing items required by the engineer as the work proceeds.
- PL.5 Piles shall be concreted up to a leve 300mm above the required cut off level. each pile shall have at least four bars of 12mm diameter each projecting 450mm above the required cut off leve for tying into the ground beams.
- PL.6 All piles to be designed with a FOS = 3 and of sufficient size and strength and durability to transmit the working loads.
- PL.7 All piles to be integrity tested following
- PL.8 All piles to be 450mmø (Or as required by Piling subcontractor). To support the loads
- PI 9 Concrete in piles to be 35N strength

TW.O Temporary Works

- TW.1 Design, installation and maintaining of all temporary works is to be carried out by the contractor
- TW.2 Contractor to advise the architect and structural engineer of their proposals for temporary works and sequence a works, prior to works commencing on site.
- TO Timber
- T.1 All structural Glulam timber is to be in accordance with Curtins specification for Timber.
- T.2 All structural Glulam timber to be minimum grade GL28 to BS:EN1995 and to be preservative treated. All other structural timber to be minimum grade C16 and to be preservative treated.
- T.3 All timber members not visible to be supported on heavy duty joist hange unless noted otherwise.
- T.4 All timber steel fixings eg. hangers, straps bracket, nalls etc to be galvanised to BS729 UNO.
- T.5 All joist hangers to have min. 675mm of masonry above to flange of joist hangers.
- T.6 All structural plywood diaphragms to be screw fixed using 12 gauge x 63 long windscrews @ 150mm c/c along edges and windscrews or Isomin c/c along edges divided a 300mm c/c elsewhere. All WPB decking to be staggered and joists to be screw fixed to TJI joists or noggins when joint perpendicular to span of joist.
- T.7 Contractor to include full depth noggins at every third point in accordance with BS5268.
- T.8 All timber joists spanning parallel to external masonry wall to be tied to wall with BAT M30's straps @ 1200mm centres.
- T.9 Timber joists spanning perpendicular to external masonry walls to be tied to wall with BAT M30's straps @ 1200 centres.
- T.10 All vertical restraint straps to be BAT M30's minimum 1100 long © 1200mm centres, fixed to external masonry walls. T.11 Double up joists under all partitions. Double joists to be boited using M12 bolts @ 600 centres UNO.

S.D. Steelwork

- S.1 All steelwork is to be in accordance with Curtins specification
- S.2 Steelwork to be grade S275 in occordance with B.S.4360.
- S.3 Structural steel fabricator to provide fabrication drawings for all steelmark for Engineers and Architects approval prior to fabrication. Steel fabrication to obtain dimensions from site. Setting out dimensions to be obtained from Architects
- S.4 All connections to be minimum of 4No. M16 Grade 8.8 bolts unless noted otherwise.
- S.6 Point finish to steelwork to be in accordance with Curtins Specification for Protective Coating of Structural Steelwork This is to be specified in consultation with the grahitect.

- Preparation: Abrasive clean to BS 7079 equivalent to Swedish standard 51505.59.00 Grade 2.5
- Hot dip galvanised to a minimum coating of 610g/m sqr (86 microns) in accordance with BS 729 or EN 150 146
- S.7 All visible connections to be of neat appearance utilising fin plates with radiused corners and ground flush butt welds
- S.8 Fire protection to be in accordance with architects
- S.9 Structural steel fabricator to design all connections to the factored loads indicated A nominal shear reaction of 100xN is to be allowed for all connections unless noted otherwise. S.10 Contractor to include for anti sag rads & bracing for roof
- S.11 Contractor to ensure that all steel beams are proposed o precambered laying wet concrete to prevent dead load deflection, for spans over 3000mm.
- S.12 All new external deflection steelwork is to be galvanised

M.O Masonry

- M.1 All new masonry and accessories to be in accordance with Curtins specifications for loadbearing brick and blockwork minimum average compressive strength unless noted otherwise to be:
 - Blockwork (non load bearing) 3.5N lightweight concrete blocks
 Brickwork to be 20.5N facing brickwork laid in grade 2 morter.
 - Cavity wall ties to be stainless steel by Ancon or similar approved, 250mm long DD140 typeST1 @ 450c/c vertically and
- M.2 For setting out details see Architects
- M.3 Refer to architects drawings for movement joint locations. Maximum specing of movement joints in brickwork 12m and 6m from returns. Maximum specing of movement joints in blockwork 6m and 3m from returns.
- M4. New facing brickwark below DPC to be minimum FL Durability bricks set in 1:3 mortar with SRPC, unless noted otherwise
- M5. All other mosonry below DPC to be class B engineering bricks set in 1:3 mortar with SRPC, unless noted otherwise on drawings.
- M6. Provide stainless steel bed-joint Provide stanless steel bea-point reinforcement 'Brictor' by BRC or similar at 225mm and 450mm vertical centres above external doors and also above and below wincows. Bed joint reinforcement to extend 500mm minimum past door/window line.

C.O Concrete

- C.1 All concrete is to be in accordance with Curtins specifications for structural concrete.
- C.2 All reinforced concrete to be Grade 35N (designated mix RC 35) strength having a minimum cement content of 330kg/cu.m and a max w/c ratio 0.5 and a max aggregate size of 20mm unless noted otherwise
- C.3 Cover to slab reinforcement to be minimum 35mm to exposed concrete surfaces and 20mm to internal concrete surfaces unless noted otherwise
- C.4 Contractor to allow for dead load deflection in all concrete beams and slabs when erecting falsework & framework precamber span/400
- C.5 Contractor to refer to SI report for sulphate
- C.6 For special surface finishes refer to prohitects
- C.7 All structural concrete to be cast on 50mm blinding concrete where appropriate. Blinding concrete to be grade C10
- C.8 For details of cast—in elements such as guilles, ducts, pipes, manholes, lift shaft inserts, conduits, sensors, light fitting and lightening protection etc... refer to the relevant services drawings.
- C.9 Construction materials placed in the slabs must be spread out as not to exceed the finishes and design live loading.

TENDER

F.O Foundations

- F.1 Concrete for new foundations is to be designated mix FND2 to BS 5328. " Suitable for class 2 sulphate conditions"
- F.2 Variation from the anticipated founding strata are to be reported to the Engineer.
- F.3 All excavations taken to formation level are to be protected from inclement weather with concrete foundation placed immediately after excavation.
- F.4 Any formation softened due to inclement weather shall be re-excavated to sound surface and the over dig filled with ma concrete at Main Contractors expense.
- F.5 Where trial pits are encountered below oundations, these shall be re-excavate and filled with mass concrete specified
- F.6 Where necessary services are to be sleeved through mass concrete foundations with 1 layer of A142 mesh placed above the
- F.7 Site strip shall generally be in accordance with the Architects requirements not with standing the foregoing:
 - The following shall apply:-The following shall apply:—
 (1) Below ground bearing slab all topsoil organic fill unsultable fill shall be removed (To the approval of the Engineer) until a suitable founding strata is achieved. The ground shall then be made good to level in compacted herocors as specified.
- F.8 Anti-Heave compressible material to be provided against the inside faces of al external wall foundations and to the underside of ground floor slobs.

R.O Reinforcement

- R.1 All reinforcement to be in occordance with Curtins specifications for reinforced concrete.
- P.2 Painforcement polation:
- R.3 Mesh reinforcement to be as indicated on plan
- R4 For reinforcement schedules sec-
- R.5 All mesh fobric reinforcement to be lapped Min. lap for fabric reinforcement to A393 mesh = 400mm B1131 mesh = 500mm
- R.5 Steel chairs shall be used for support to be designed by the Contractor. Chairs are to be of an adequate stabilit and number to maintain the reinforcement in its correct
- R.6 Minimum cover to all reinforcement to be:-
 - Pile Cap: 40mm to all faces UNO Ground Beams: 40mm to all faces UNO
 - Slab: Too & Bottom 30mm UNO
- Wall: 30mm to all faces UNO
- Unless noted otherwise on drawings, all reinforcement is to be lapped 50d (where d is the diameter of the smaller bar)

- BR.0 Relevant Building Regulations, Eurocodes and
- BR.1 The building has been designed in arccodance with the following Eurocode and UK National

BS:FN1991

Eurocode 1: Actions on Structures

BS:EN1992 Eurocode 2: Design of Concrete Structures

BS:FN1993 Eurocode 3: Design of Steel Structures

DC-FN100A Eurocode 4: Design of Composite Steel and Concrete Structures

BS:EN1995 Furocode 5: Design of Timber Structures

BS-FN1996

6: Design of Masonry Structures

Eurocode 7: Geotechnical Design

RS:FN1998

Eurocode 8: Design of Structures for Earthquake Resistance

BS:EN1999 Eurocode 9: Design of Aluminium Structures

Concrete ground floors C & CA publications. NHBC standards — 2007.

SC.0 Suspended Cellings

- SC.1 Connection and suspension system for suspended ceilings to be designed and load tested by specialist ceiling
- SC2 Contractor to carry out load tests on connections as well

H.O Hazard Identification/ CDM / Health & Safety

SC.1 Particular attention to be paid where the Hazard symbol is placed on a drawing. This symbol highlights a particular concern in relation to Health & Safety and measures to mitigate risk should be considered at all stages of design development and construction.



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Scale: 1:1 @ A1 DWG. No.: LO1212-012

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