BASEPLATES

ALL PLATES AND BOLTS TO BE GALVANISED

ORANGE HIGHLIGHTED PLATES TO BE 500x500x20mm with 20mm grout bolted into existing slab with M16 bolts 50mm from each edge

ALL OTHER BASEPLATES TO BE 350x350x20mm with 20mm grout bolted into existing slab with M16 bolts 50mm from each edge

SLAB

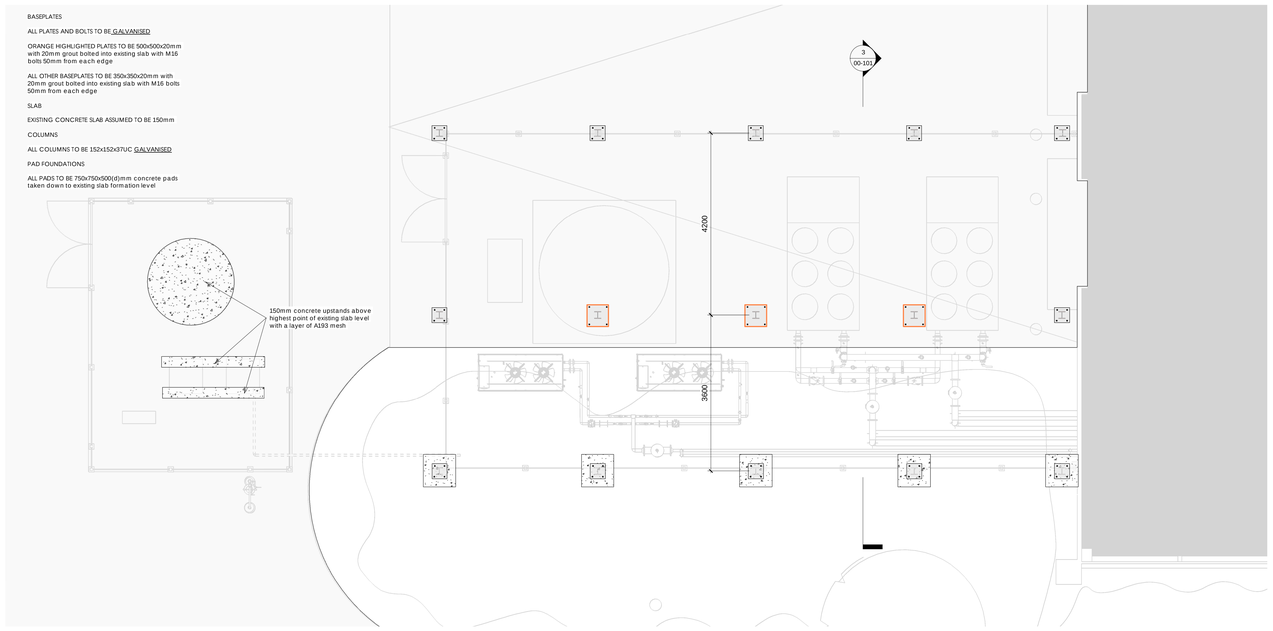
EXISTING CONCRETE SLAB ASSUMED TO BE 150mm

COLUMNS

ALL COLUMNS TO BE 152x152x37UC GALVANISED

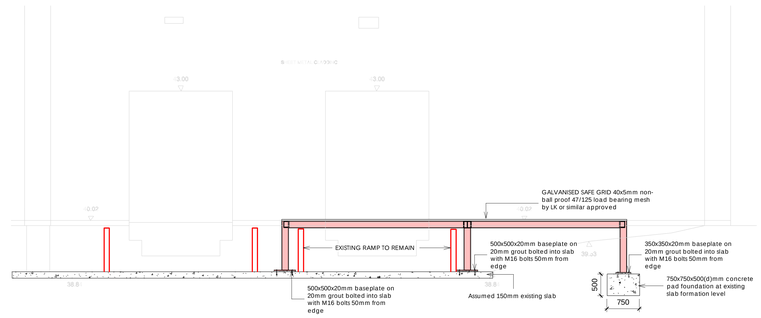
PAD FOUNDATIONS

ALL PADS TO BE 750x750x500(d)mm concrete pads taken down to existing slab formation level



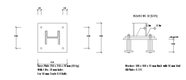
1 EXTERNAL SLAB - LOW LEVEL

00-101 1 : 50

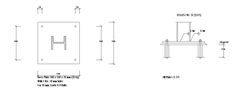


3 SECTION DETAIL 03/00-101

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350x350x20mm BASEPLATE DETAIL



500x500x20mm BASEPLATE DETAIL

CONCRETE SPECIFICATIONS

101 Specifications

- Concrete generally: To British Standards
- Exchange of information: Provide concrete producer with information equired by BS 8500-1, clauses 4 and 5 132 Design Concrete
- Embedded metal: Carbon steel reinforcement with nominal cover of 50mm to a tolerance of +/- 5mm
- Compressive strength class (cylinder/cube): C28/35
- Target density (over-dry): Normal
- Aggregates:
 - Size (maximum): 20mm
 - Type/Density: Normal weight
 - Coarse recycled aggregate requirements: RCA permitted
 - Additional aggregate requirements: None
- Design chemical class: DC-1
- Limiting values for composition:
 - Water:cement ration (maximum): 0.55
 - Cement/combination content (minimum): 330kg/m3
 - Cement/combination content (maximum): N/A
 - Air content insitu (minimum): As required for exposure class
- Consistence class: S3
- Permitted cement/combinations: As permitted for DC-class
- Chloride class: Cl 0.1
- Design Sulphate Class: DS-1
- Admixtures: Concrete producer's choice
- Colour: N/A
- Additional mix requirements: N/A

STEEL

All steel grade S275 unless noted otherwise. All bolts to be grade 8.8 sheradised bolts.

All steelwork to be blast cleaned as NSS5 clause 10.2.2 to BS7079-A1 preparation grade 2 ½ then painted with 75 microns dft (dry film thickness) zinc rich primer. Where built into external wall steel to receive two further ste coats of high build bitumen paint min dft 200microns on site before building in.

ALL STEEL TO BE GALVANISED

STEEL CONNECTIONS

All steel / steel connections to contain a min of 4M16 grade 8.8 bolts UNO with full end plates to be the thickness of the bottom flange of the member as a minimum. Baseplates to be to min 100mm larger on all sides to column size to allow 4No M16 chemical anchors to foundation below. All baseplates to be min the smae thickness as the 1.5x flange thickness of column, shimmed and then grouted with Weber SBD 5 star grout min 35mm. allow for 2No 15mm diameter holes within recess formed by web of column to allow air out whilst grouting to ensure full coverage of grout.

COLUMNS

ALL COLUMNS TO BE 152x152x37UC GALVANISED

BEAMS

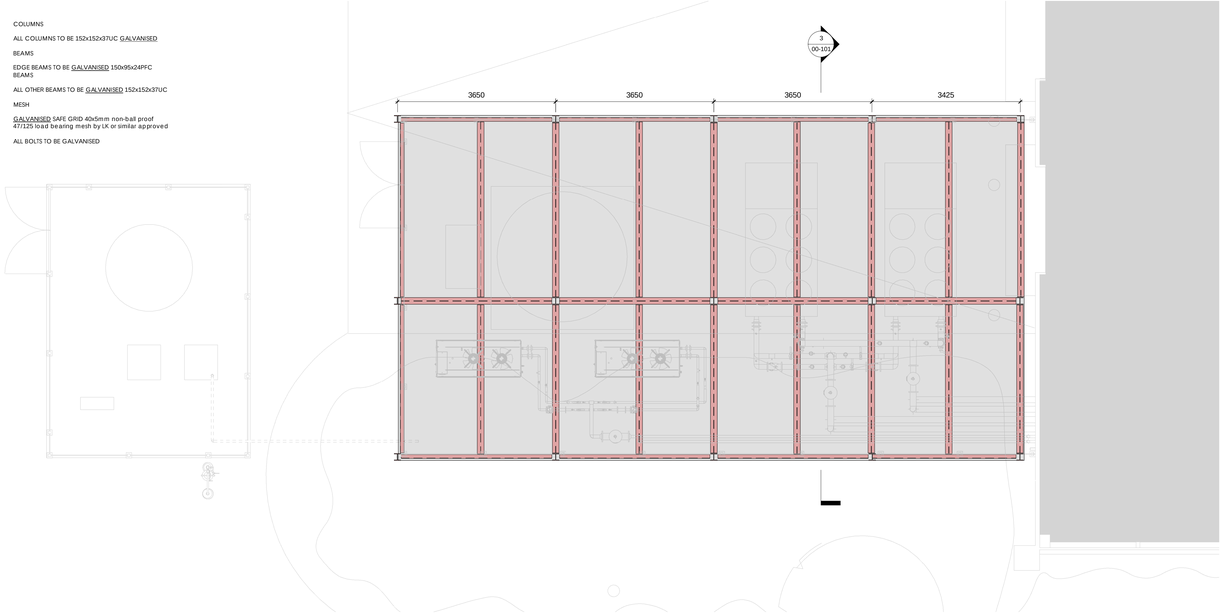
EDGE BEAMS TO BE GALVANISED 150x95x24PFC BEAMS

ALL OTHER BEAMS TO BE GALVANISED 152x152x37UC

MESH

GALVANISED SAFE GRID 40x5mm non-ball proof 47/125 load bearing mesh by LK or similar approved

ALL BOLTS TO BE GALVANISED



2 EXTERNAL SLAB - HIGH LEVEL

00-101 1 : 50

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Project

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General Notes:
All work is to comply with current British Standards, Codes of Practice and Building Regulations as applicable.
Workmanship shall be in accordance with good building practice and should at least comply with BS8000 and the latest applicable Codes of Practice.
Any conflicting information or need for further information is to be referred to Centrespace design for clarification prior to ordering materials or carrying out relevant work. No respesibility can be accepted for dimensions scaled from this drawing and contractors are expected to check all dimensions and details before commencing work.
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Rev	Comments	By	Date
T1	Tender	SC	08/10/24

Drawing Title

EXTERNAL PLANT STRUCTURE

Drawn By	SC
Designed By	SC
Checked By	DB
Issue Date	08/10/24
Scale	As indicated

Project No.	Origin	Level	Type	Role	No.	Revision
2908	CSD	ZZ	DR	S	00-101	T1