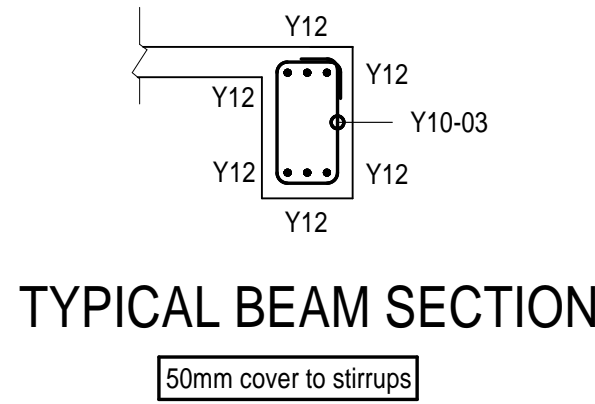
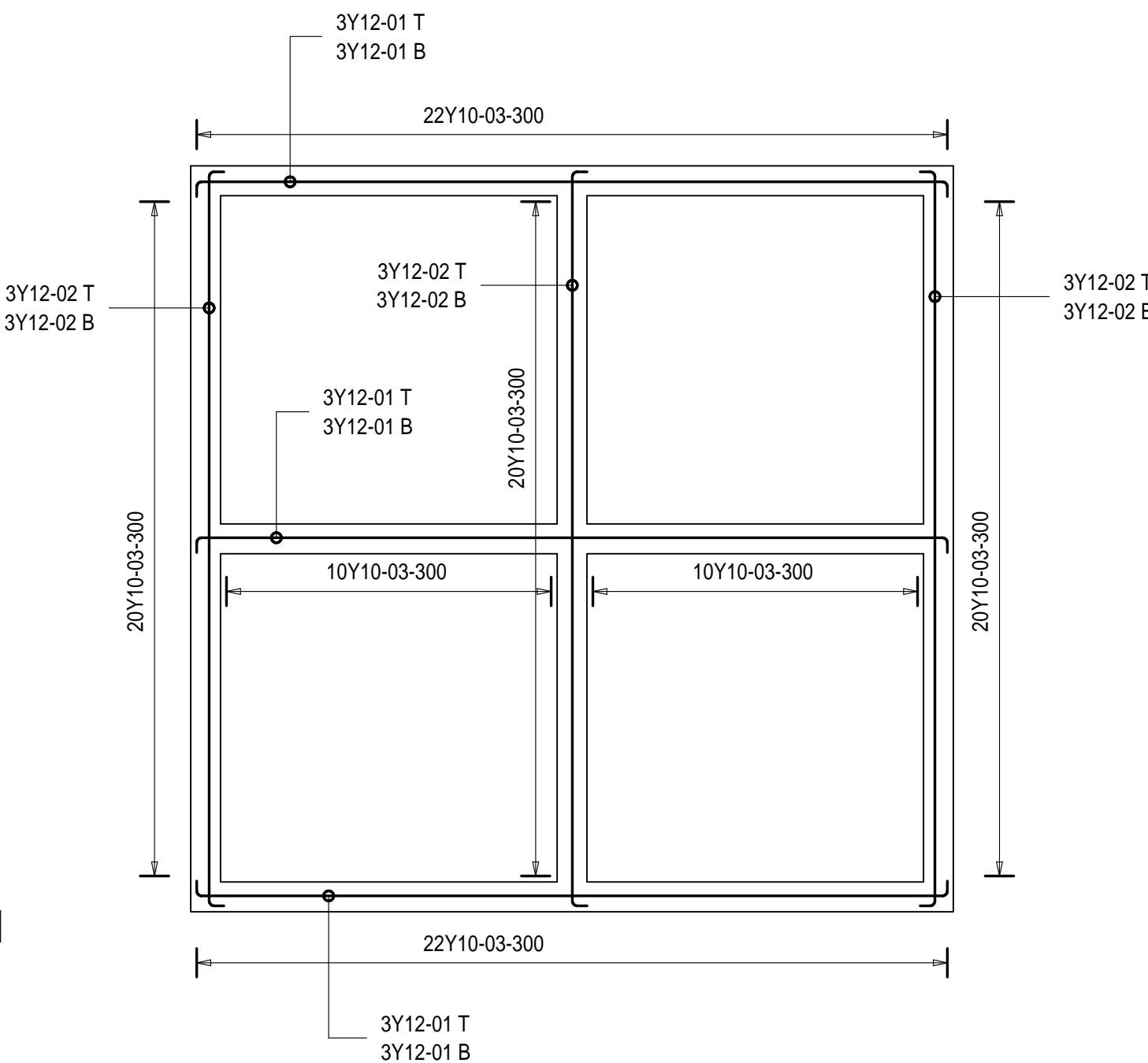


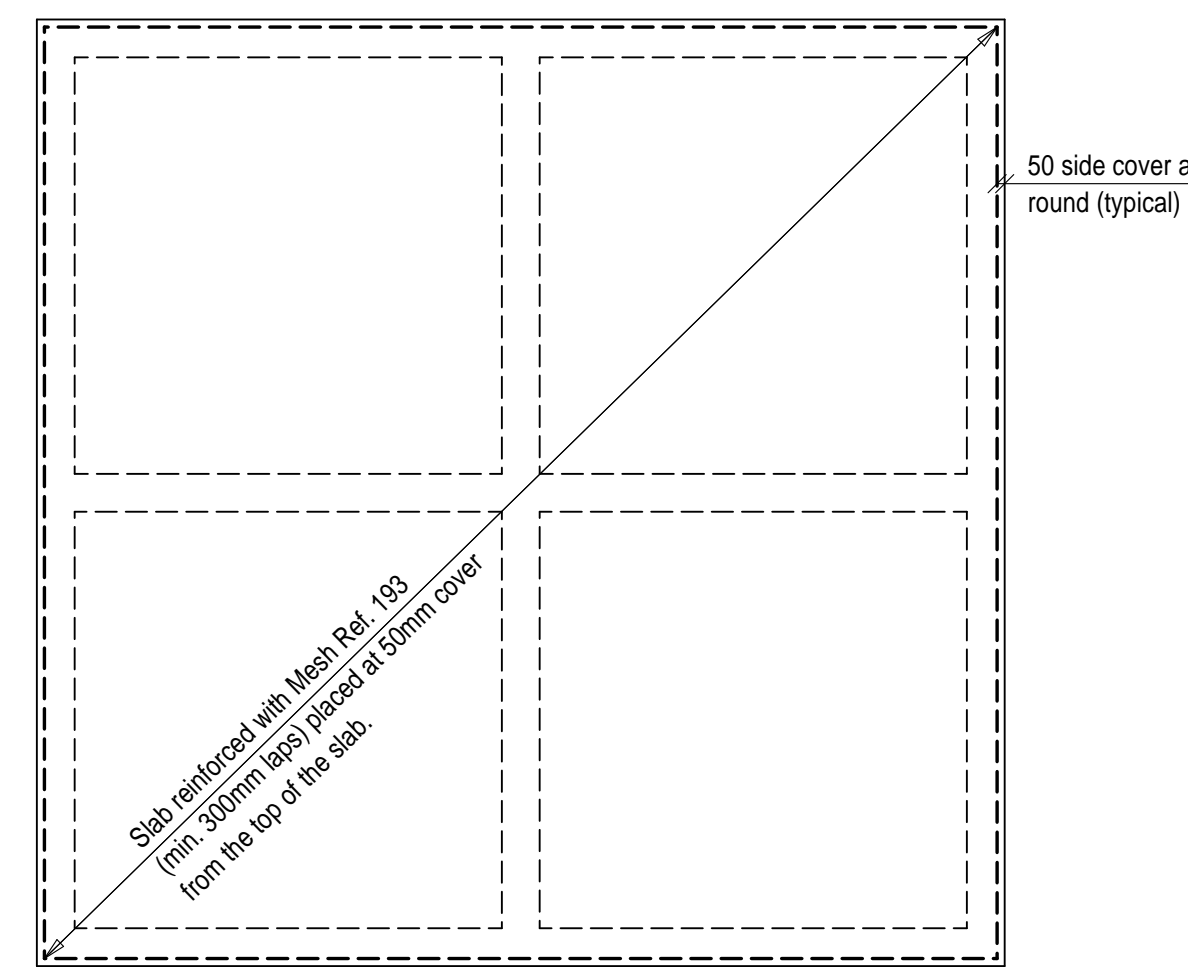
PLAN ON R.C. RAFT SLAB



TYPICAL BEAM SECTION



RAFT SLAB BEAMS REINFORCEMENT LAYOUT

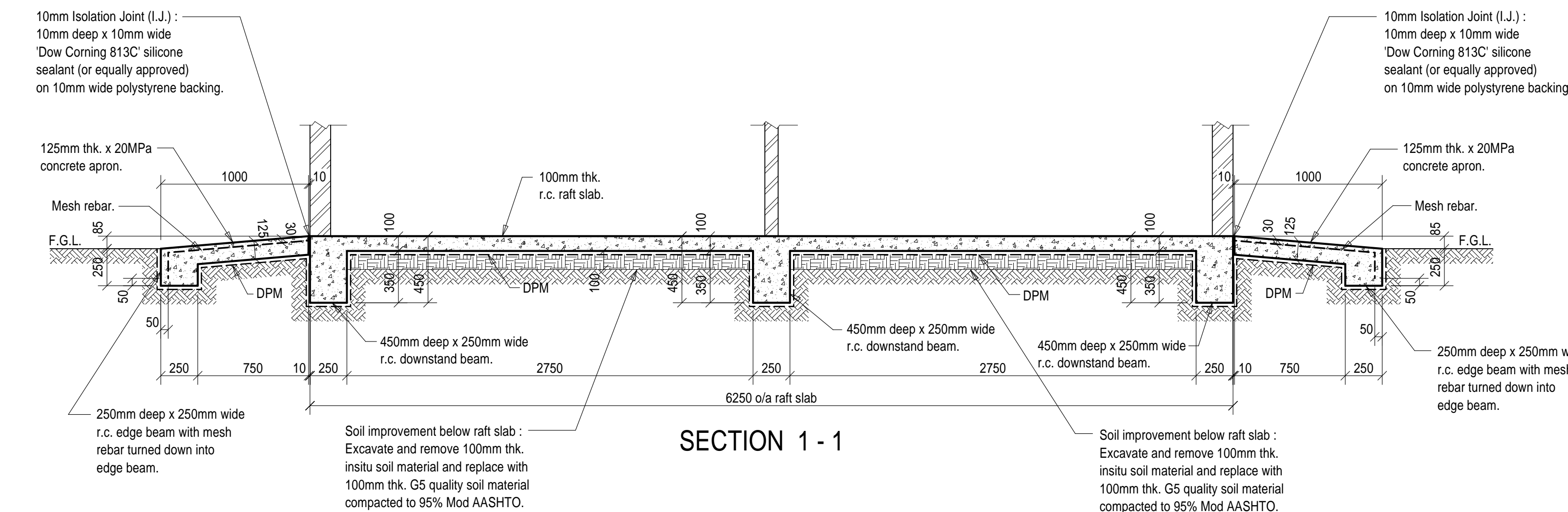


RAFT SLAB REINFORCEMENT LAYOUT

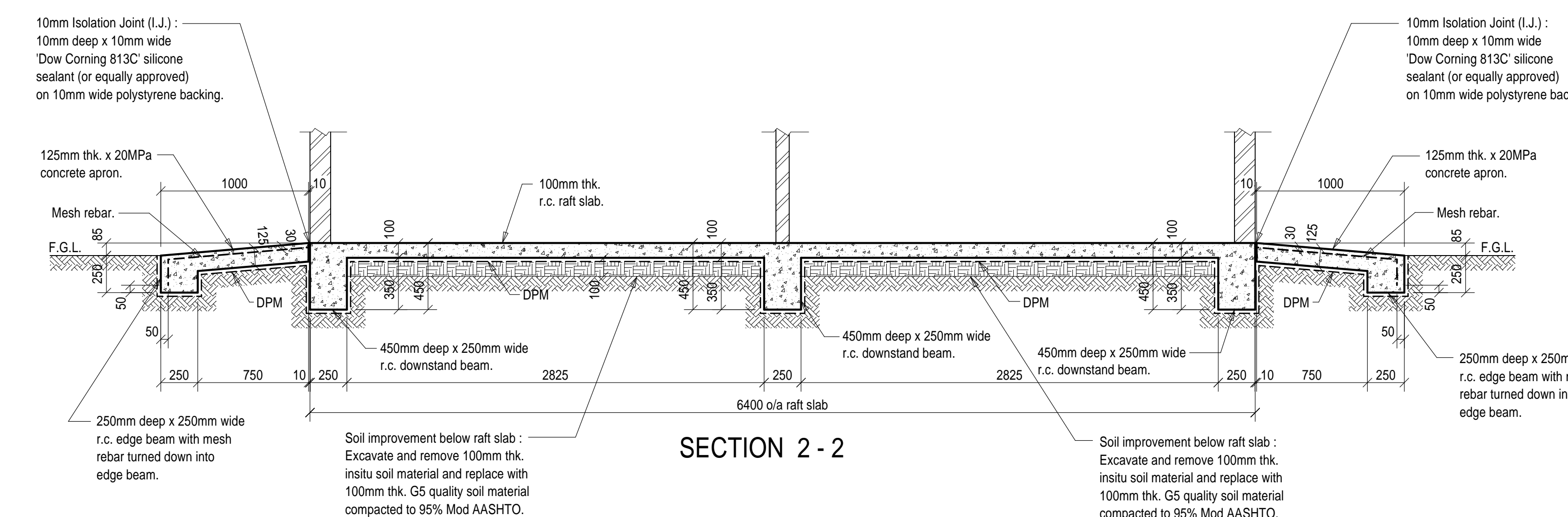
MEMBER	No OF	SARS PER MEMB	DIA.	LENGTH	TOTAL NUM-BER	MARK	S C	BENDING				
								A	B	C	D	E/r
RAFT SLAB BEAMS	1	18	Y12	6500	18	01	35	6300				
		18	Y10	6350	18	02	35	6150				
R	8	10	12	16	20	25	32	40	TOT			
Y												
TOT												

#### BLOCKWORK NOTES:

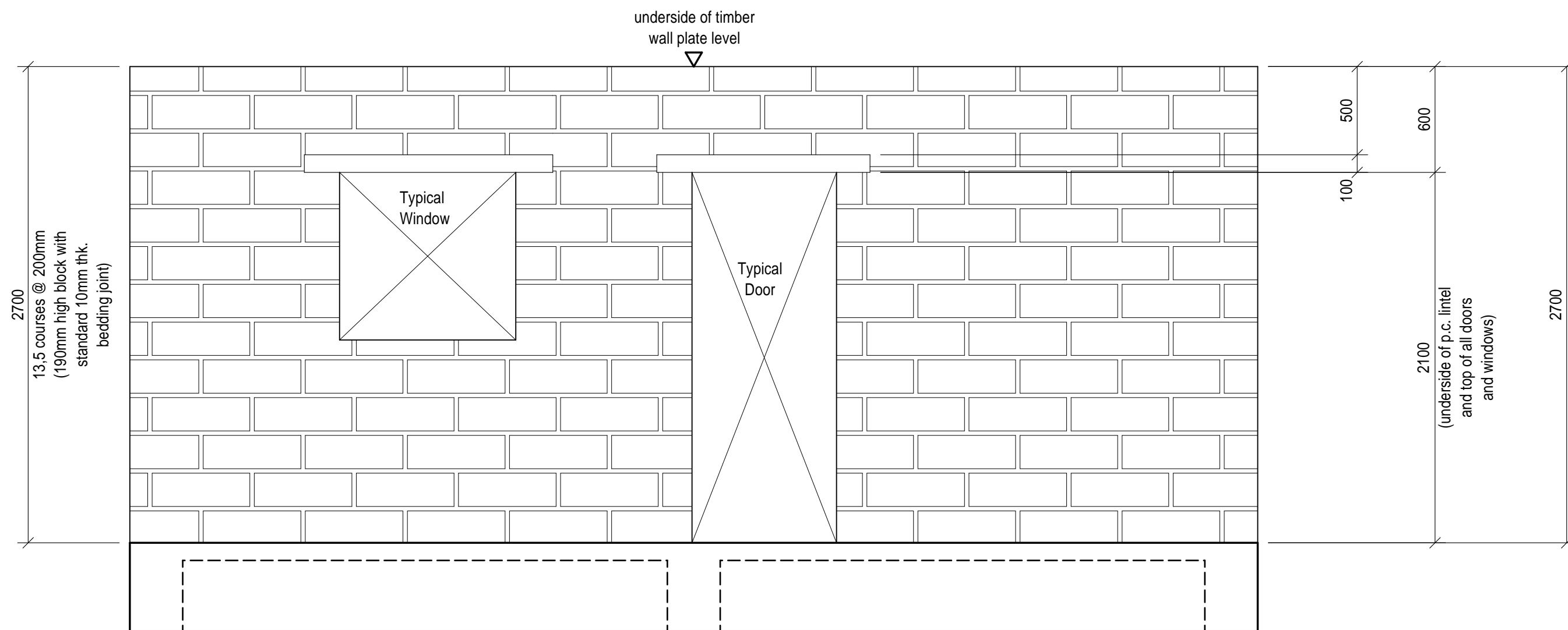
- All walls - Concrete block M140 to be Class B - 3.5 MPa.
- Mortar to be Class 2 (5 MPa at 28 days).
- Brickforce in every 2nd course in blockwork below top of window / door level and brickforce in every course above top of window / door level.
- 'U' blocks to be used above doors and windows and reinforced with 1Y12 in addition to being filled with 20MPa concrete. See Typical 'U' Block Detail.
- All reinforcing to 'U' blocks to be inspected and approved by the Engineer prior to filling with concrete.
- All blockwork above 'U' blocks to be filled with 20 MPa concrete.



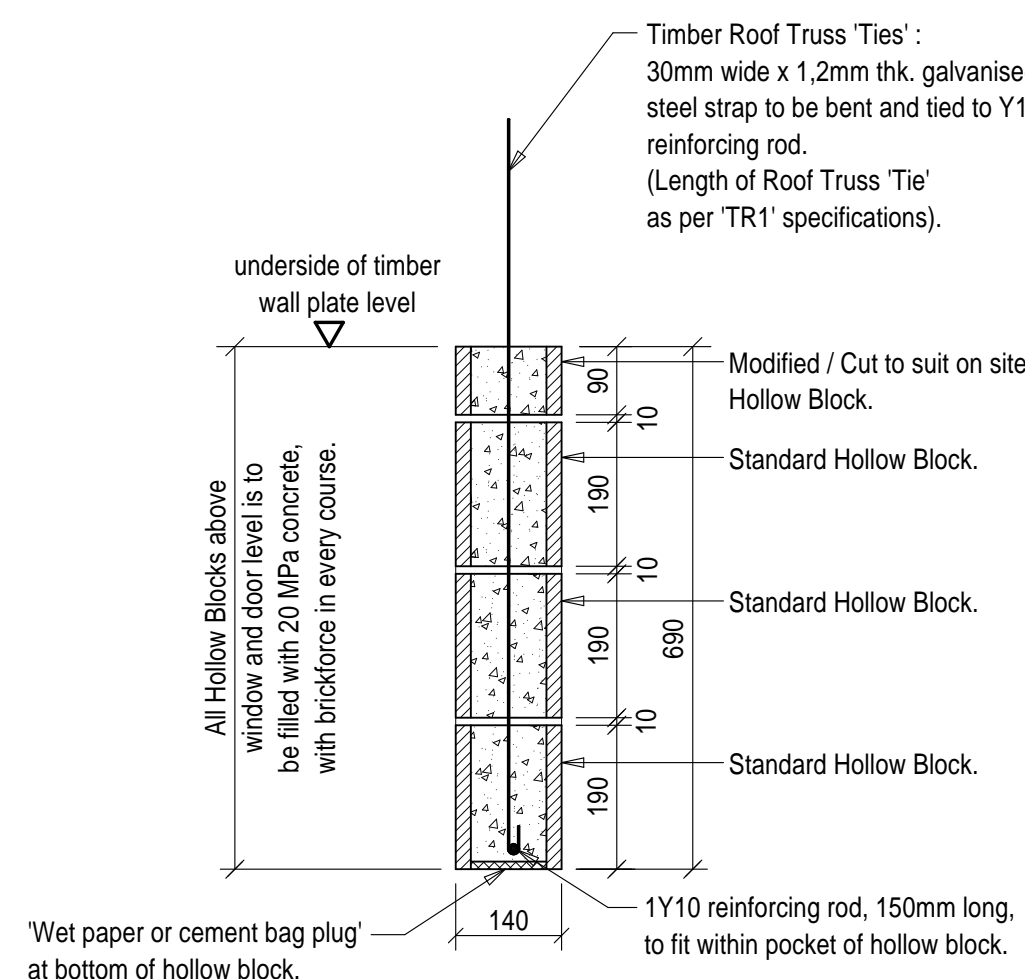
SECTION 1 - 1



SECTION 2 - 2

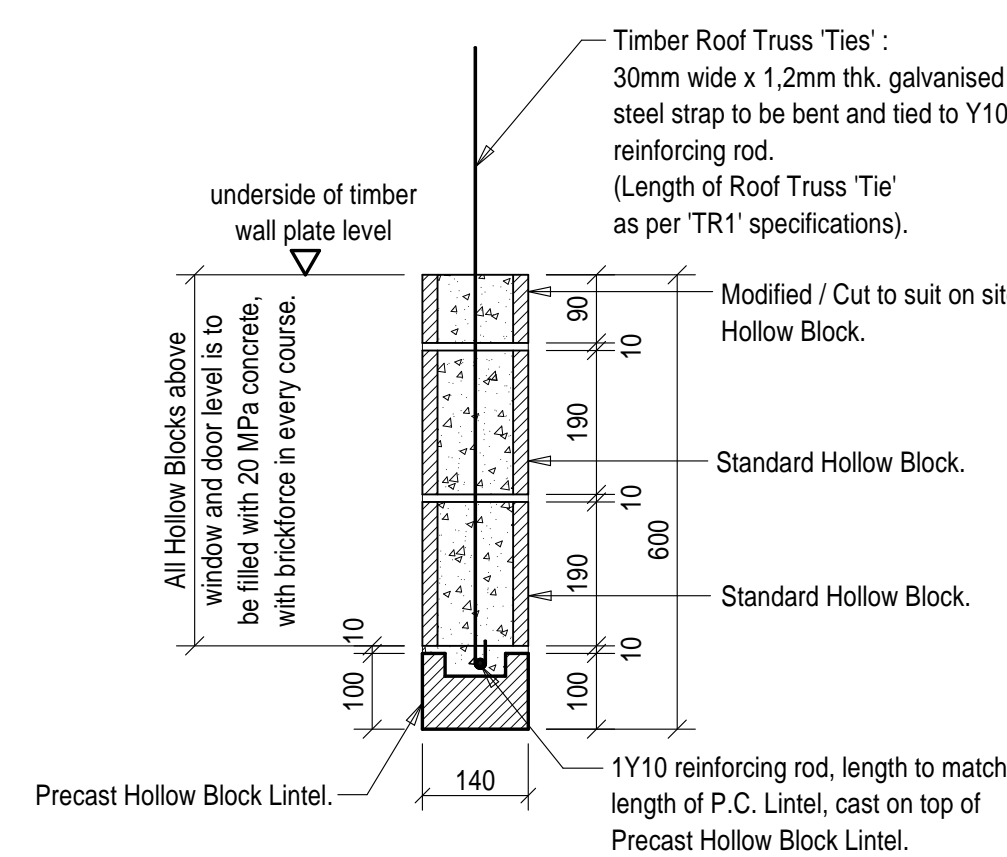


TYPICAL ELEVATION



REVISED ROOF TRUSS TIE DOWN DETAIL FOR HOLLOW BLOCKS ADJACENT TO WINDOWS AND DOORS

Note: This detail applies to only the front and rear of this building, where Roof Truss 'Tie Downs' are required.



REVISED ROOF TRUSS TIE DOWN DETAIL FOR HOLLOW BLOCKS WITH LINTEL OVER WINDOWS AND DOORS

Note: This detail applies to only the front and rear of this building, where Roof Truss 'Tie Downs' are required.

In the absence of a Geotechnical Report, this Raft Foundation has been designed to the minimum requirements as per NHBC Home Building Manual Part 1 : Section 2. The final design of the Raft Foundation will be determined by the Site Classification as per the Geotechnical Report.

#### General Notes :

- All levels and dimensions to be checked on site.
- This drawing is to be read in conjunction with the Architectural drawings.
- All concrete work is to comply with SABS 1200G.
- Concrete Class :-
  - Pilecaps & Ground Beams = 25 MPa
  - Strip Footings & Beams = 25 MPa
  - Columns, Shear Walls & Lift Shaft Walls = 30 MPa
  - Slabs, Beams & Staircases = 25 MPa
  - Retaining Walls = 25 MPa
  - Surface Bed Slabs = 30 MPa
  - Raft Slabs = 30 MPa
  - Raft Slab Ground Beams = 30 MPa
  - Blinding = 10 MPa
- Cover to reinforcement :-
  - As indicated on drawings.
- All foundation excavations are to be inspected by the Engineer prior to casting of concrete.
- All reinforcing fixing is to be inspected by the Engineer prior to casting of concrete.
- Six concrete cubes to be taken per pour. Three cubes to be tested at seven days, the remainder at twenty eight days. The results are to be forwarded to the Engineer for review and approval.
- The Contractor is to construct a blinding layer if soil conditions result in reinforcement cover not being maintained.
- All structural concrete is to be cured for a minimum of five days.
- All brickwork shown hatched are load bearing. All load bearing brickwork is to be 14MPa NFX bricks in Class 2 mortar. The top of all load bearing brickwork (at all concrete interfaces) is to receive 2 layers of 3 ply malthoid placed on a smooth rendered surface.
- All single skin brickwork is to be stopped 2 courses below the soffit of the slab and completed after the props have been removed.
- All concrete plaster and brickwork plaster interfaces to receive V-joints.
- The Engineer requires 24 hours notice for all inspections.

REV	DESCRIPTION	BY	DATE
P1	PRELIMINARY	YR	11/11/2021

professional person M.NAIR P.TechEng registration 200670211

LOCAL AUTHORITY



CLIENT



PROJECT

LAMONTVILLE NORTHWEST RECTIFICATION PROJECT

DETAILS

NEW RAFT FOUNDATION FOR TYPICAL 40m² HOUSE CONCRETE & REINFORCEMENT LAYOUT & DETAILS



DESIGNED	Y.R.	COPYRIGHT RESERVED	SCALES
DRAWN	Y.R.		1:50
APPROVED	M.N	PL	DATE 11/11/2021

PRELIMINARY

DRAWING No: UCE114 / 300 REV P1