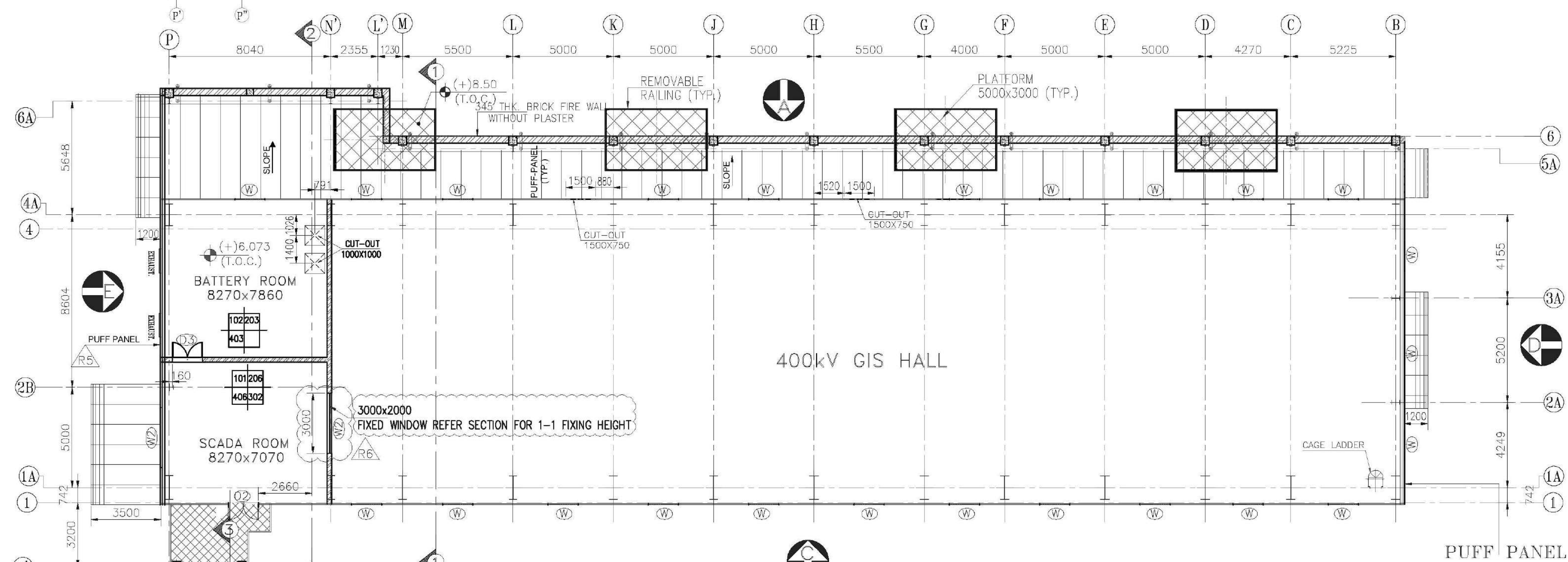
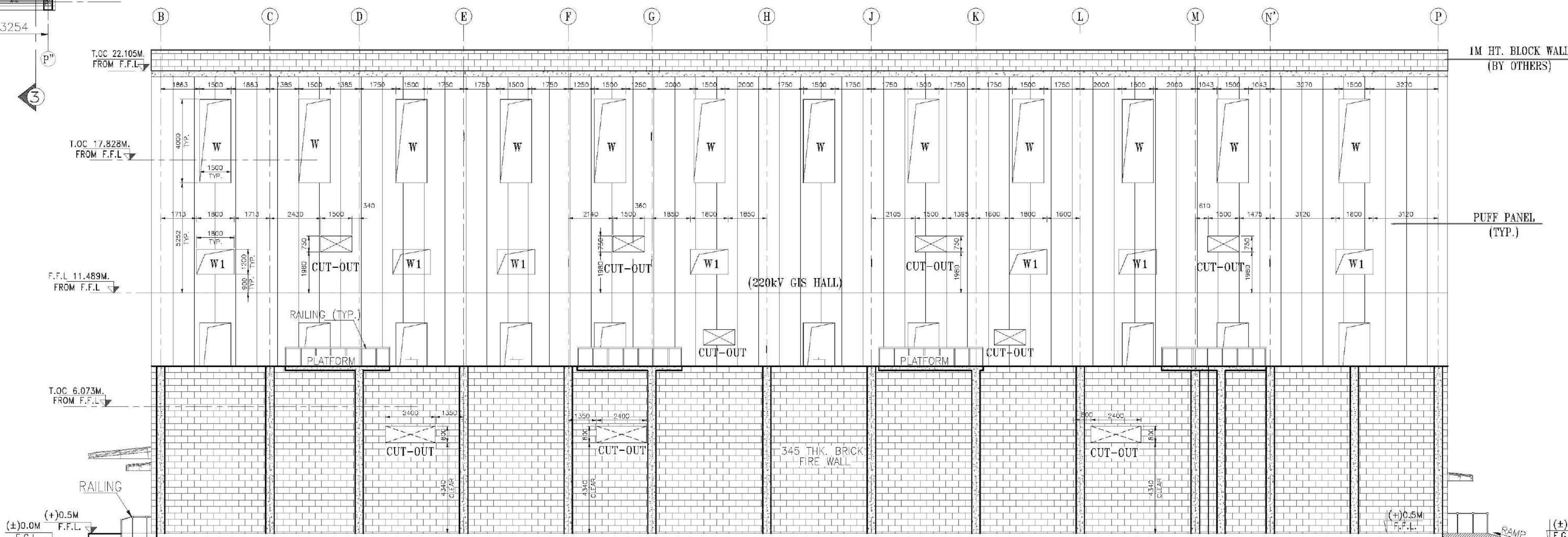


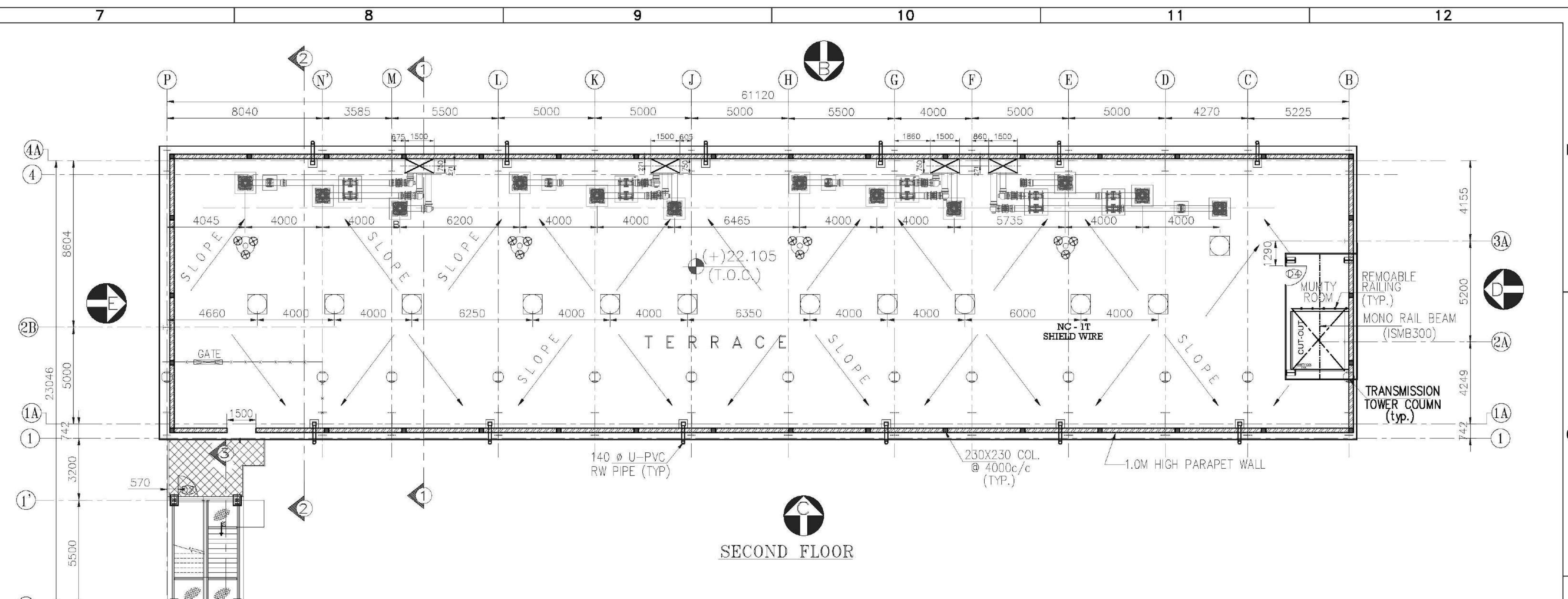
400kV GIS BUILDING (GROUND FLOOR)



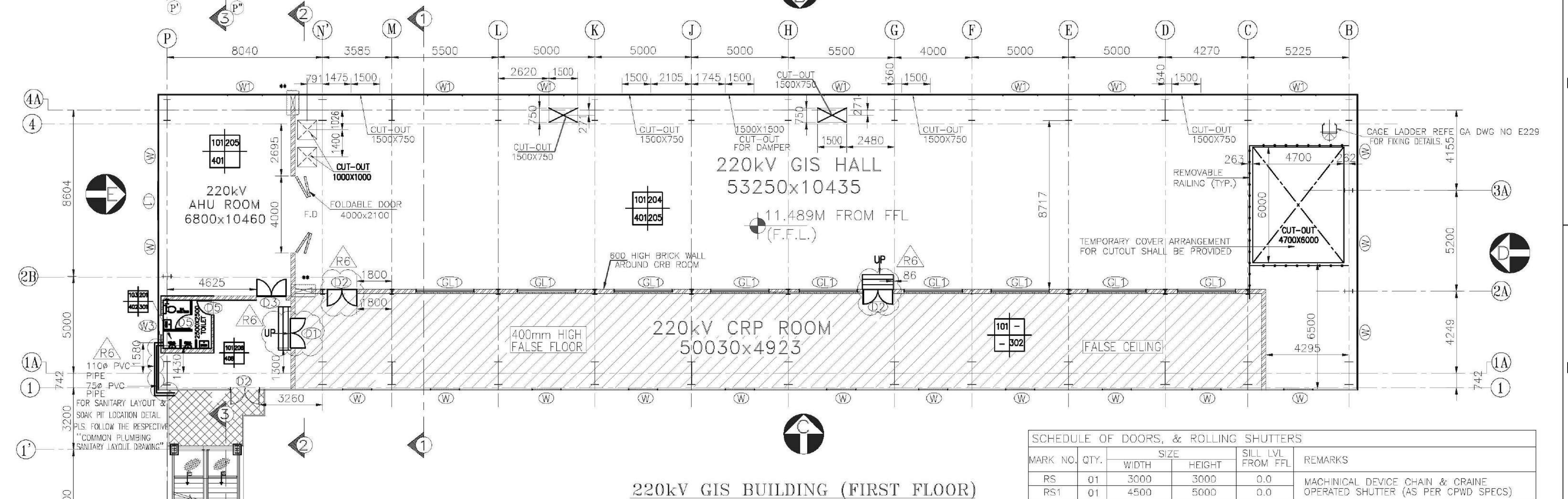
400kV GIS BUILDING (UPPER GROUND FLOOR)



ELEVATION - A

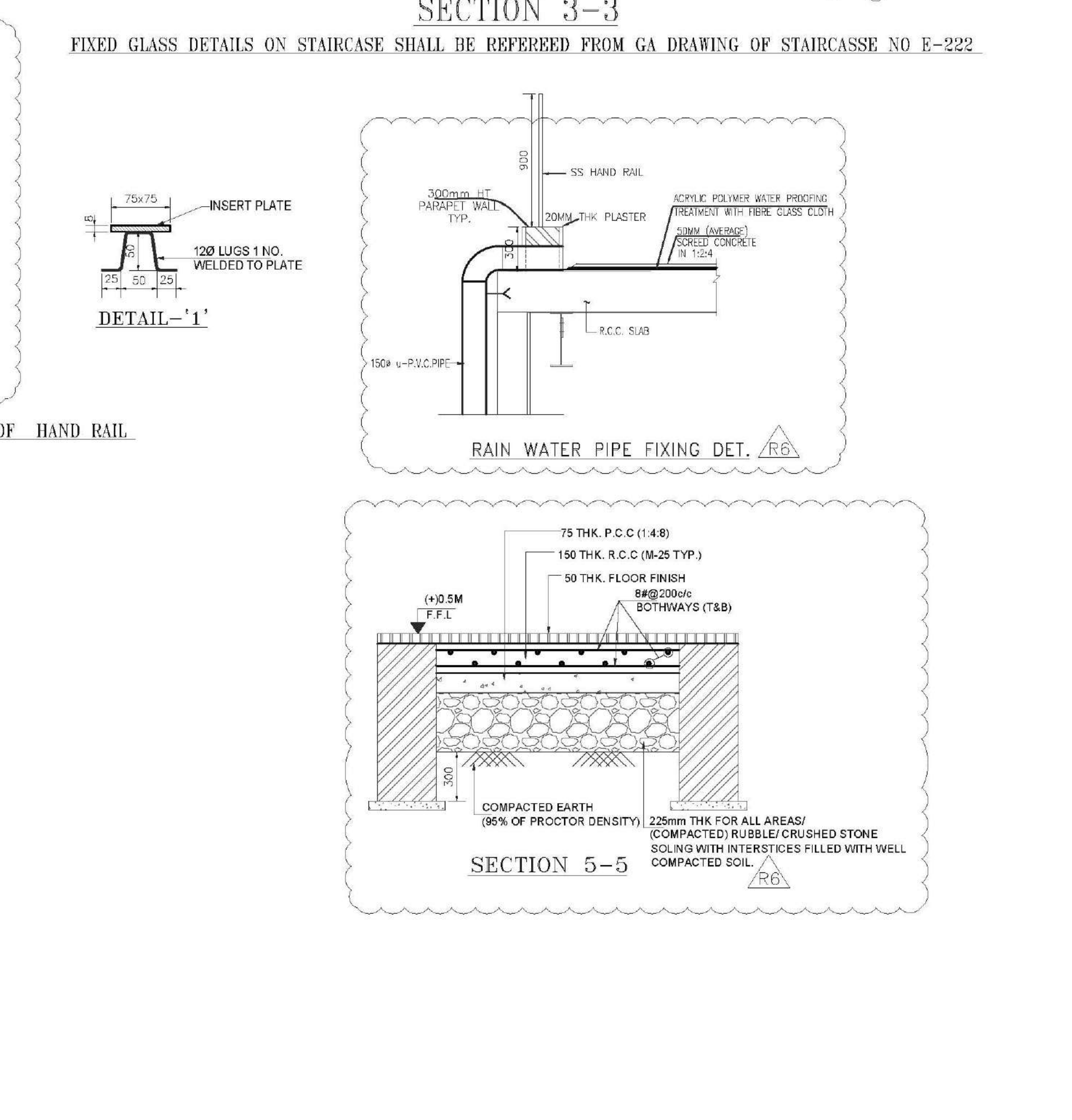
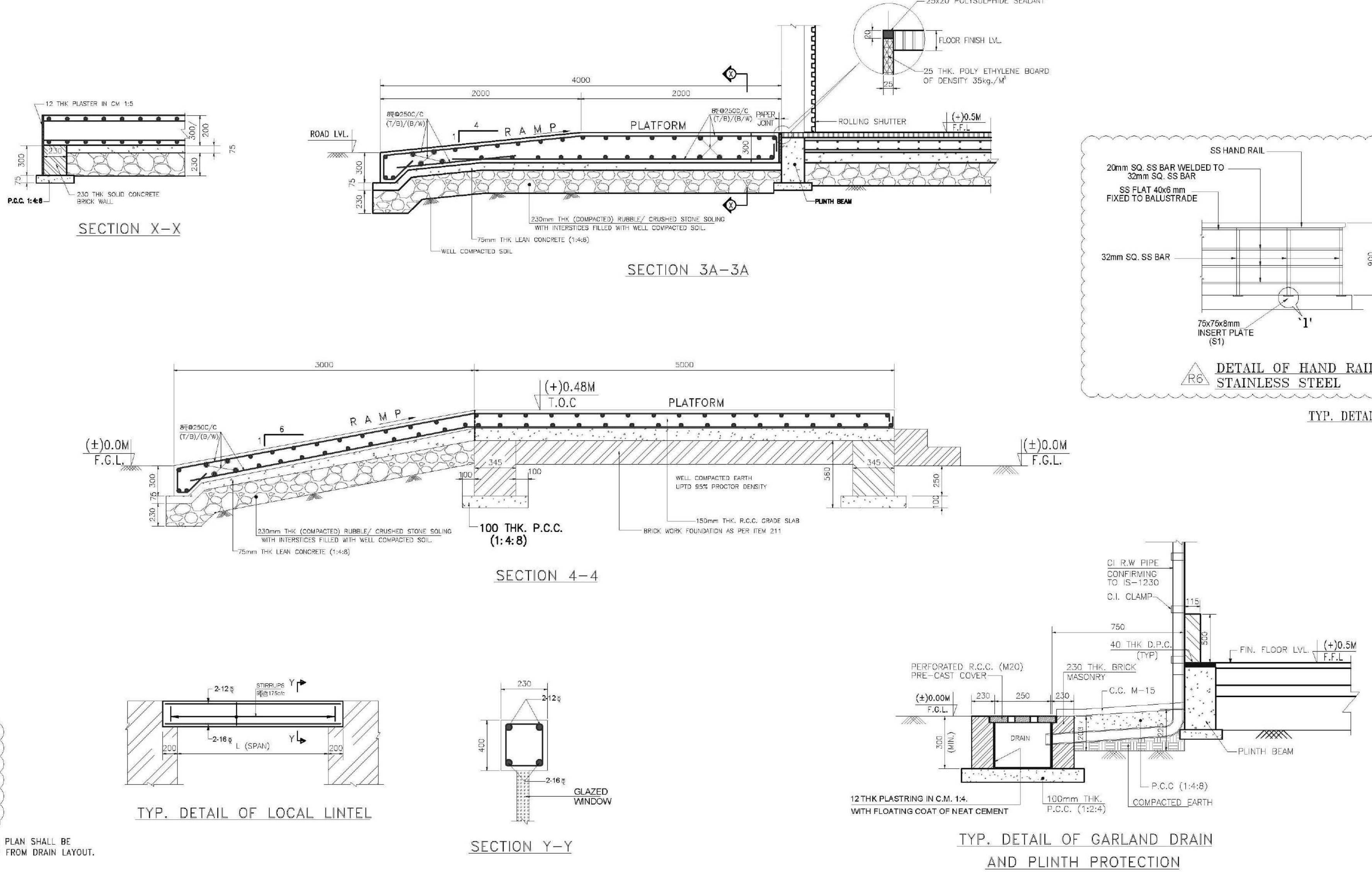
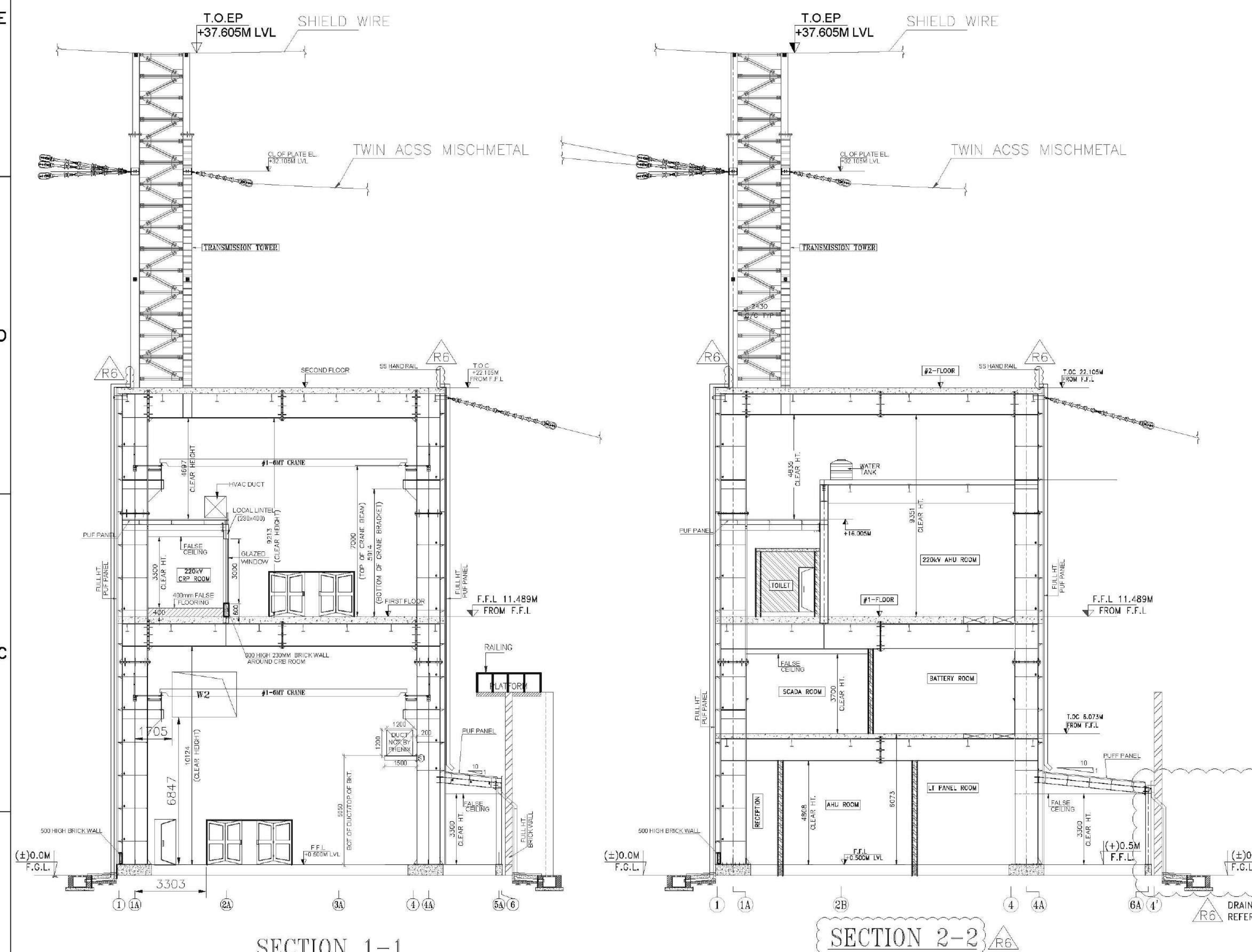
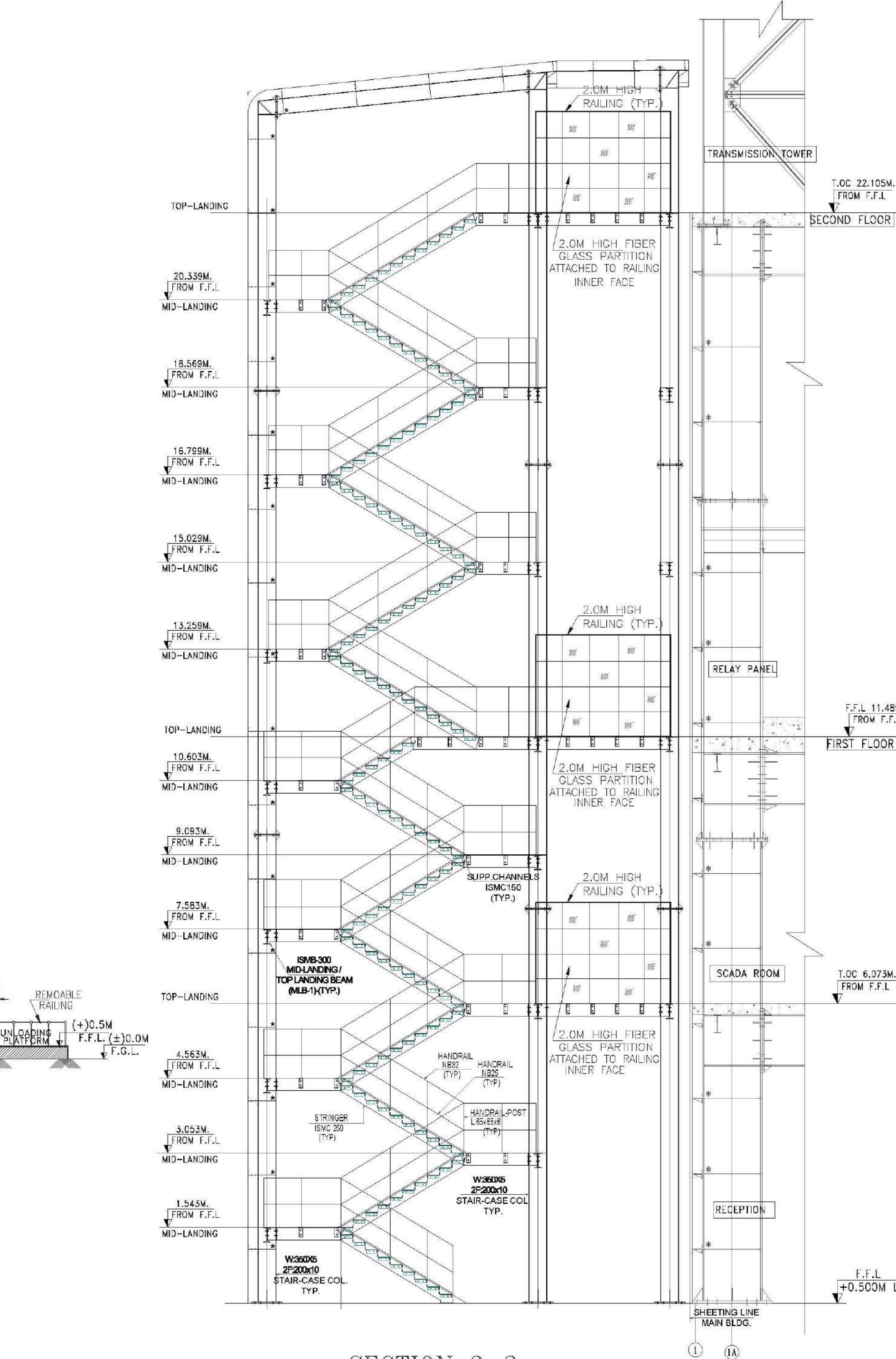
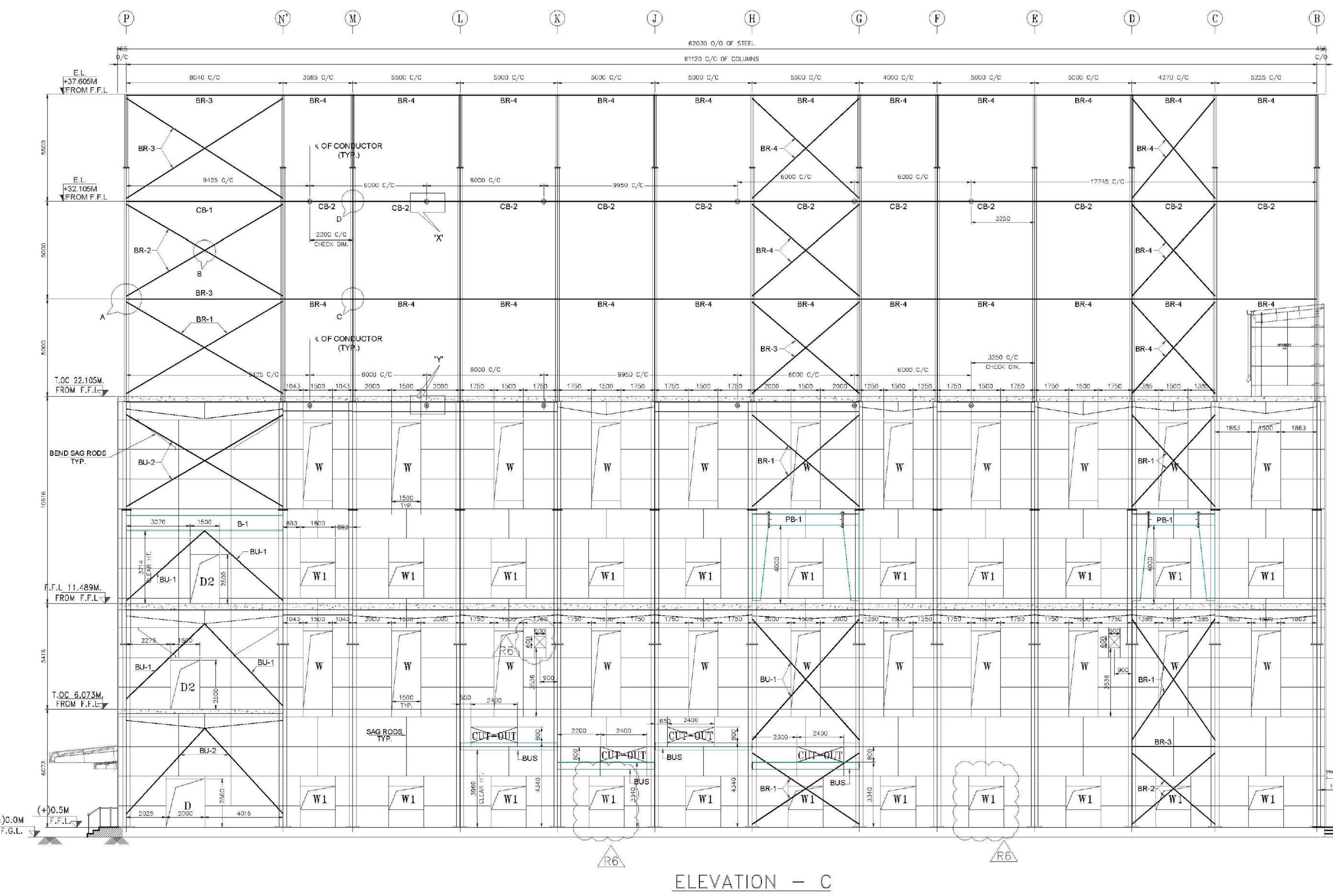
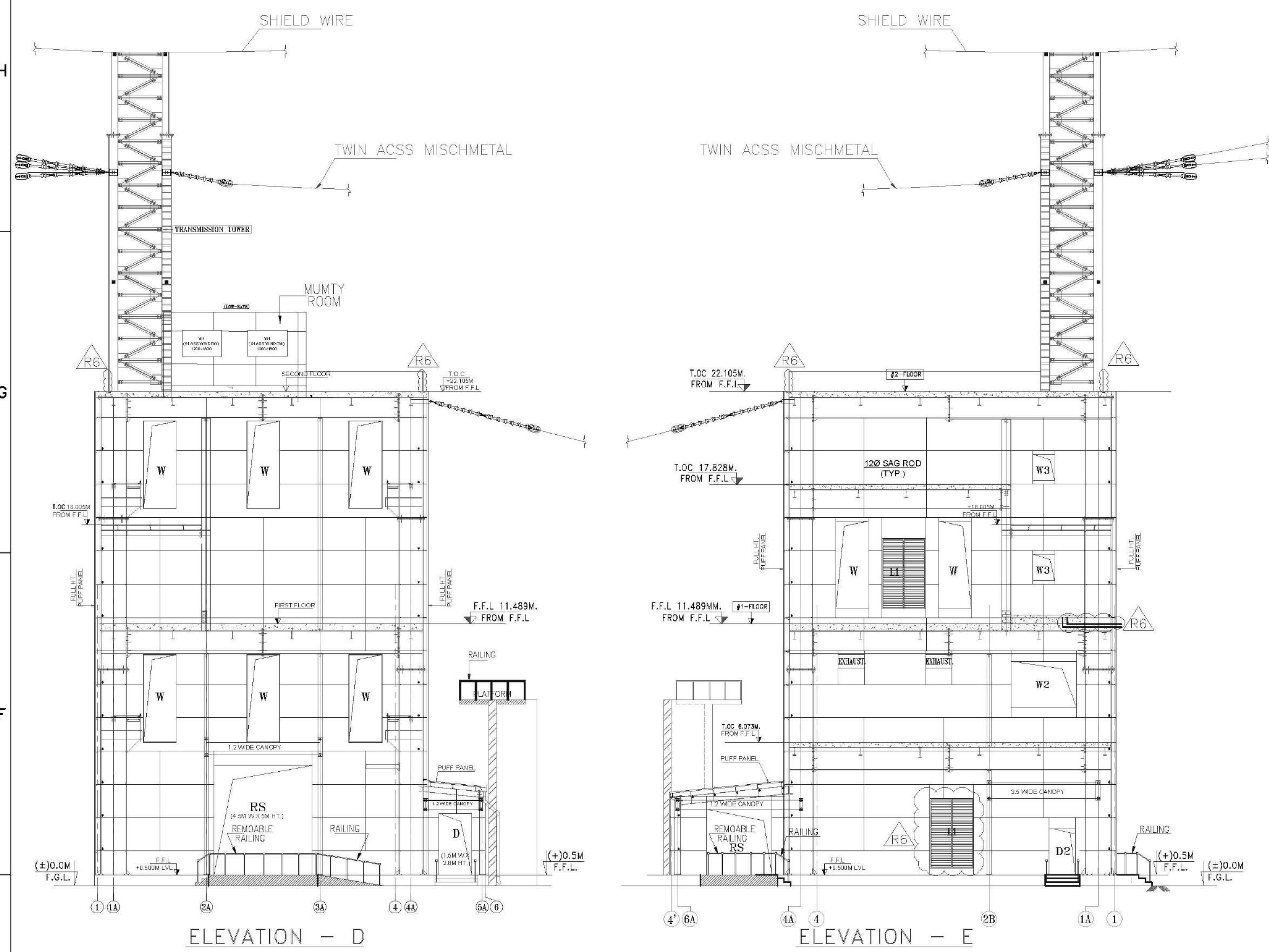


SECOND FLOOR



220kV GIS BUILDING (FIRST FLOOR)

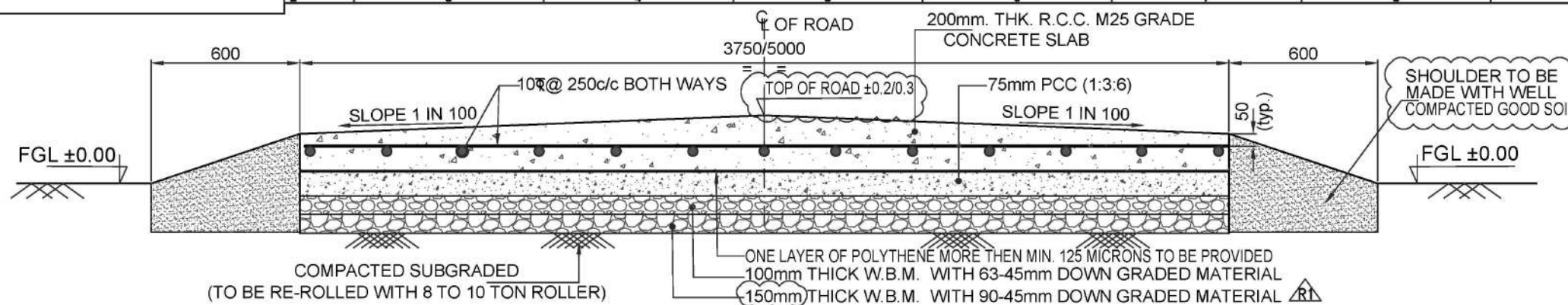
ILLUSTRATION OF FINISHES.		LEGEND	FINISHING SCHEDULE		
			SR.NO	CODE NO.	DESCRIPTION
			WALL FINISHES		
WALL FINISHES (100)	FLOORING FINISHES (200)	SECTION/ELEVATION MARKING	1	101	RED BOULDER STREPTHER OVER 20mm PLASTER FOR BRICK WORK ONLY
SPRINTING FINISHES (300)	ROOFING FINISHES (400)	DRAWING NUMBER	2	102	ACR RESISTANT PAINTS
			3	103	METABOND OVER GYPSUM PLASTER
			FLOORING FINISHES		
SKITTING/ DADO FINISHES			1	201	CEMENTIC TILES
1	401	ACRYA STONE 150MM HEIGHT	2	202	GLASS STONE
2	402	ACR RESISTANT TILES 210MM HEIGHT	3	203	ACR RESISTANT TILES (12mm THICK)
3	403	CEMENTIC TILES UP TO 210MM.	4	204	ACR RESISTANT TILES (12mm THICK)
4	404	VERIFIED FLOOR OVER POLYURETHANE FLOOR WITH GLASS PLASTER 150MM HIGH	5	205	VERIFIED FLOOR OVER POLYURETHANE FLOOR WITH GLASS PLASTER
5	405	VERIFIED FLOOR OVER POLYURETHANE FLOOR WITH GLASS PLASTER 150MM HIGH	6	206	VERIFIED FLOOR
			CEILING FINISHES		
			1	201	WHITE WASH OVER GYPSUM PLASTER
			2	202	PAINT COATING



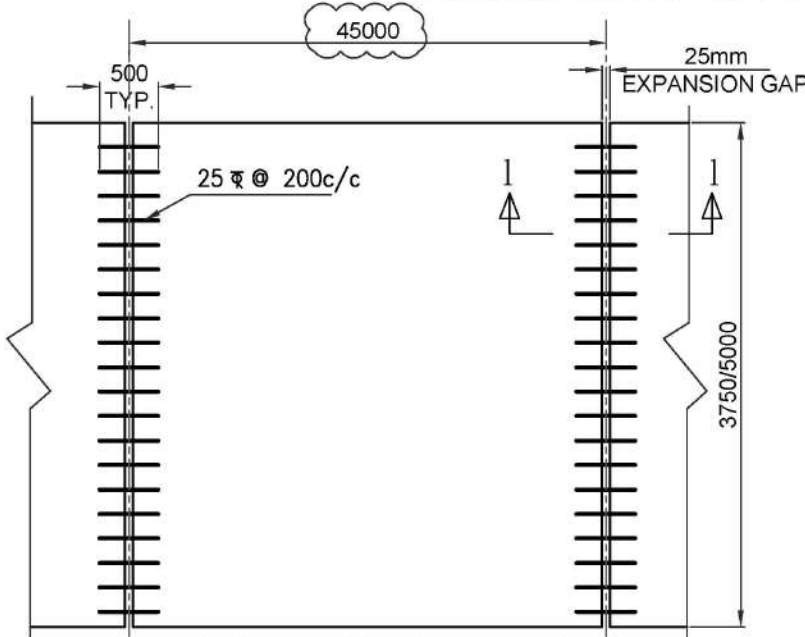
REFERENCE NO.	DESCRIPTION	LEGEND
1	NOTES :- 1. ALL DIMENSIONS ARE IN MILLIMETERS AND ALL LEVELS ARE IN METERS. 2. ± 0.0 CORRESPOND TO F.G.L. (FINISHED GROUND LEVEL) OF S/S LEVEL. 3. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED AND DRAWING NOT TO BE SCALED. 4. LOCATION OF RWPS IS TENTATIVE AND MAY CHANGE BASED ON THE CALCULATIONS AND DESIGNS. 5. THE OPENINGS SHALL BE AS PER ELECTRICAL GA. 6. FOR RAMP AND PLATFORM PIPE CROSSING SHALL BE PROVIDED. 7. FIRE BRICK SHALL BE USED FOR FIRE WALL. 8. CRANEL AS PER ELECTRICAL EARTHING Dwg. SHALL BE PROVIDED ON ROOF TOP. 9. GARLAND DRAIN SHALL BE CONNECTED WITH THE NEAREST DRAIN IN THE YARD WITH MIN 250mm HUME PIPE AS PER SITE CONDITION.	MATERIAL SPECIFICATION: 1. EXTERNAL PLASTER- 20mm THK. CEMENT SAND PLASTER (1:4) 2. INTERNAL PLASTER - 12mm THK. CEMENT SAND PLASTER (1:4) 12mm ON SMOOTH SIDE AND 15mm. FOR RUFF SIDE 3. CEILING PLASTER - 8mm THK. CEMENT SAND PLASTER (1:3) 4. EXTERNAL WALL TO BE PAINTED WITH WATER PROOF CEMENT BASED PAINT CONFORMING TO IS:5411 (PART-1) 5. ALL EXTERNAL WALLS SHALL BE FULL BRICK THICK WALL (230mm) IN (1:6) CEMENT SAND MORTAR. BRICKS SHALL HAVE MIN. COMP. STRENGTH OF 75 Kg./Sq. cm. 6. DAMP PROOF COURSE -40mm THK. DPC WITH (1:2:4) CONCRETE WITH WATER PROOFING ADMIXTURE SHALL BE PROVIDED. 7. ANTITERMITE TREATMENT SHALL BE GIVEN PROVIDED IN THE TECHNICAL SPECIFICATION. 8. PARTITION WALL SHALL BE 115mm. THICK WITH CEMENT MOTOR (1:4) 9. GIS HALL FLOORING SHALL BE AS PER GIS MANUFACTURERS RECOMMENDATIONS. **FOR DETAILS OF CUT OUT IN BRICK WORK PLEASE REFER ELECTRICAL INDOOR CABLE TRENCH DRAWING NO 5427PNC71-PRT-E-SYS-0017-GA 10. CAGE LADDER POSITION TO BE CONFIRMED WITH APPROVED STRUCTURE GA DRAWING OF CAGE LADDER
2		
3		
4		
5		
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11		
12		

INDICATIVE DRAWING FOR TENDER PURPOSE ONLY

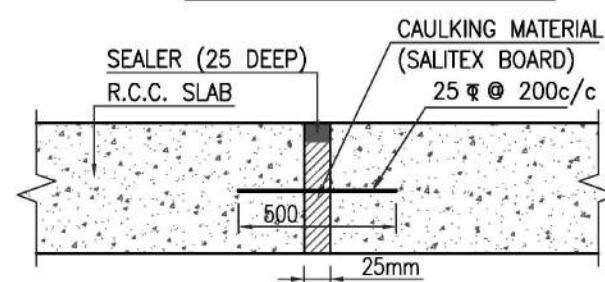
400/220KV GIS BUILDING (PRITHALA)
ARCHITECTURAL PLAN, ELEVATION & SECTION WITH FINISHING SCHEDULE



TYPICAL CROSS SECTION DETAIL OF 3.75M/5.0M WIDE ROAD

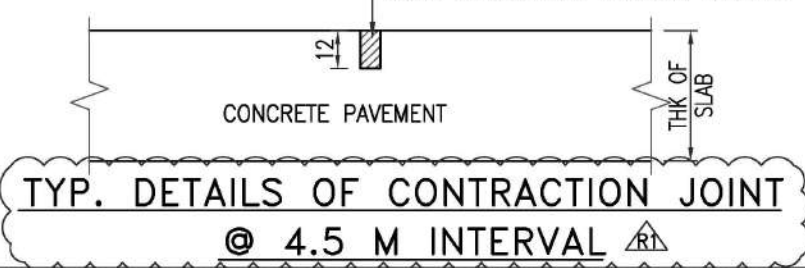


DETAIL OF DOWEL BAR AT EXPANSION JOINT

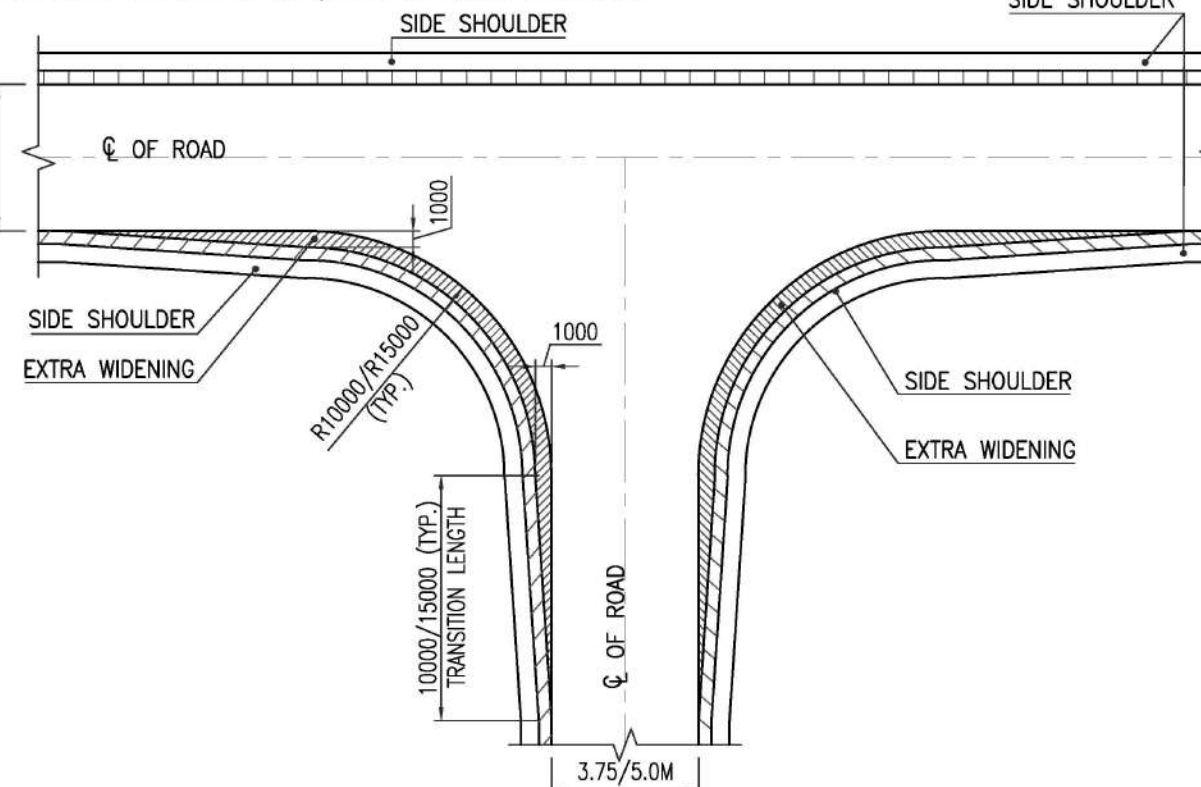


SECTION 1-1

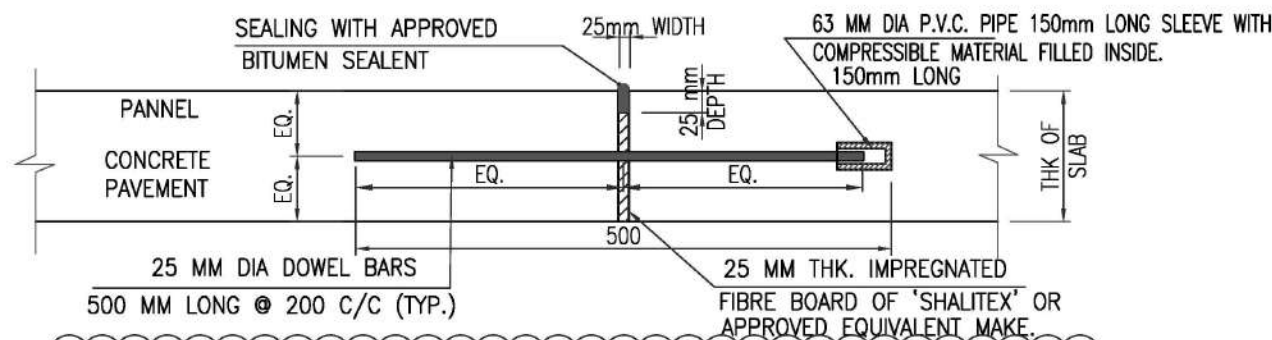
4MM. WIDE & 12MM DEEP CONTRACTION (DUMMY) JOINT SEALED WITH BITUMEN SEALANT



TYP. DETAILS OF CONTRACTION JOINT @ 4.5 M INTERVAL

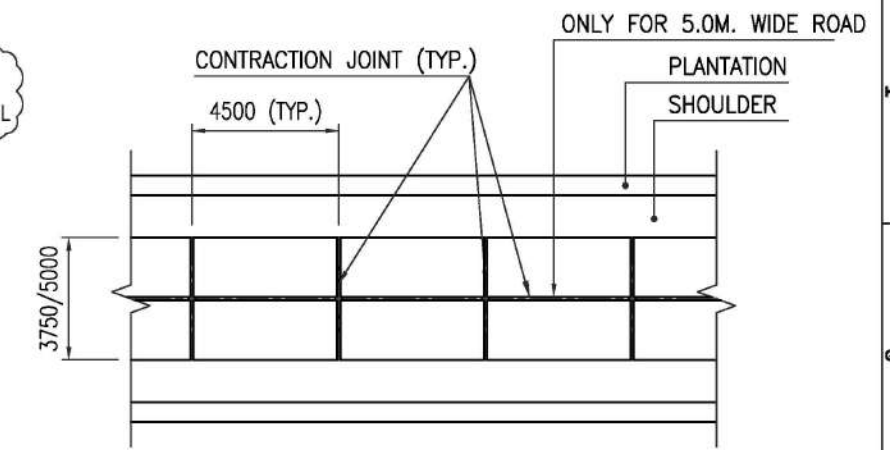


DETAIL OF 3.75/5.0M. WIDE ROAD AT T-JUNCTION

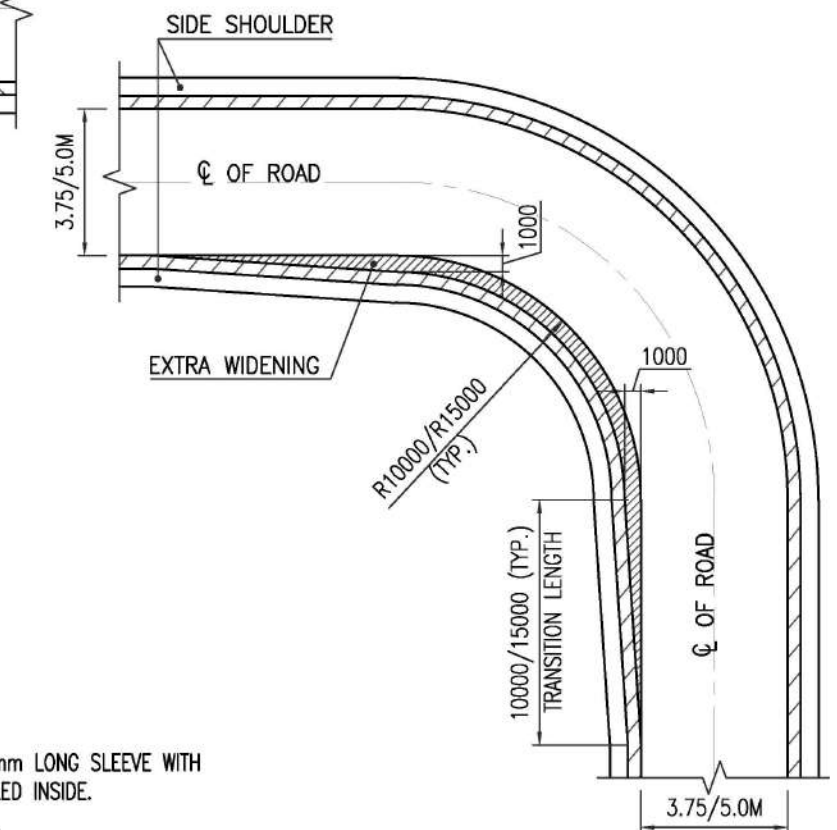


TYPICAL DETAIL OF EXPANSION JOINT DOWEL BAR @ 45.00 M INTERVAL (Maximum)

TOP OF ROAD SHALL BE AS PER FOUNDATION LAYOUT



TYP. LAYOUT OF ROAD WITH JOINT DETAILS



DETAIL OF 3.75/5.0M. WIDE ROAD AT L-JUNCTION

- NOTES:-
1. ALL DIMENSIONS ARE IN MM.
 2. ALL STRUCTURAL CONC. SHALL BE OF GRADE M-25 CONFORMING TO IS:456-2000.
 3. ALL REINFORCEMENT SHALL BE CONFORM TO IS:1786-1985 OF GRADE Fe500.
 4. UNLESS NOTED OTHERWISE LAP/ANCHOR LENGTH SHALL BE 57 TIMES THE DIA OF BAR.
 5. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE 50mm ON ALL SIDES OF RAFT.
 6. ±0.00 CORRESPONDS TO FINISH GROUND LEVEL.
 7. EXPANSION JOINT (25MM THICK) SHALL BE PROVIDED AT EVERY 4.5M.

8. KERB STONE SHALL BE PAINTED IN YELLOW+BLACK ALTERNATIVELY.
9. LOOSE SOIL FROM THE DEPTH OF SAY 300MM FROM FGL SHALL BE REMOVED & FILL AGAIN WITH 150MM THICK LAYERS & COMPACTED WITH MODIFIED PROCTOR DENSITY MORE THAN 95%.
10. IN EXPANSION JOINT CAULKING MATERIAL (SALITEX BOARD) SHALL BE FILLED.

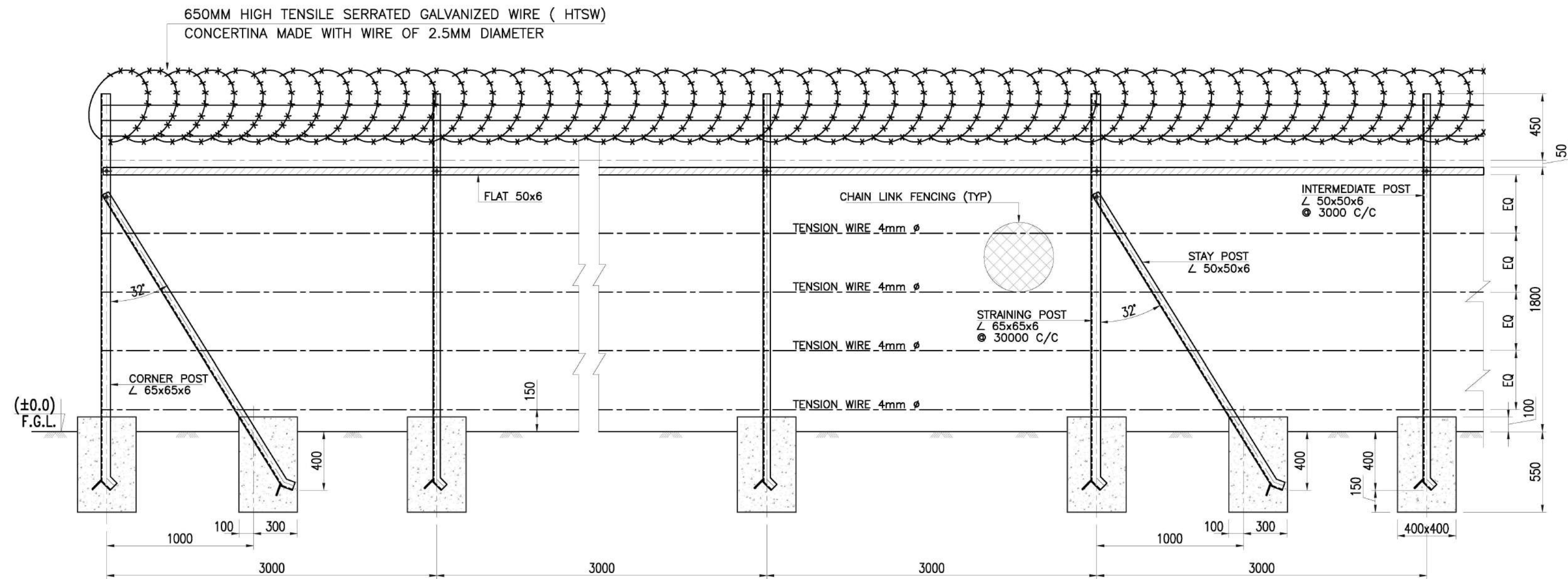
INDICATIVE DRAWING FOR TENDER PURPOSE ONLY

DETAIL OF ROAD FOR 400/220kV GIS SUB-STATION PRITHALA

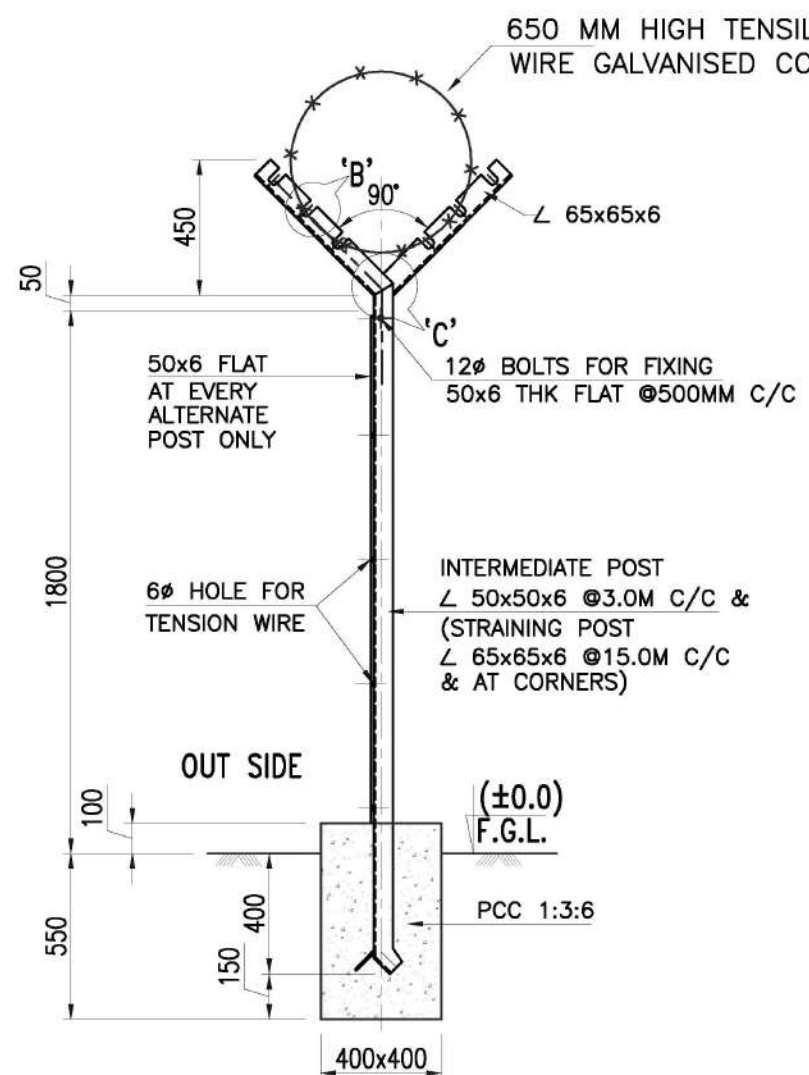
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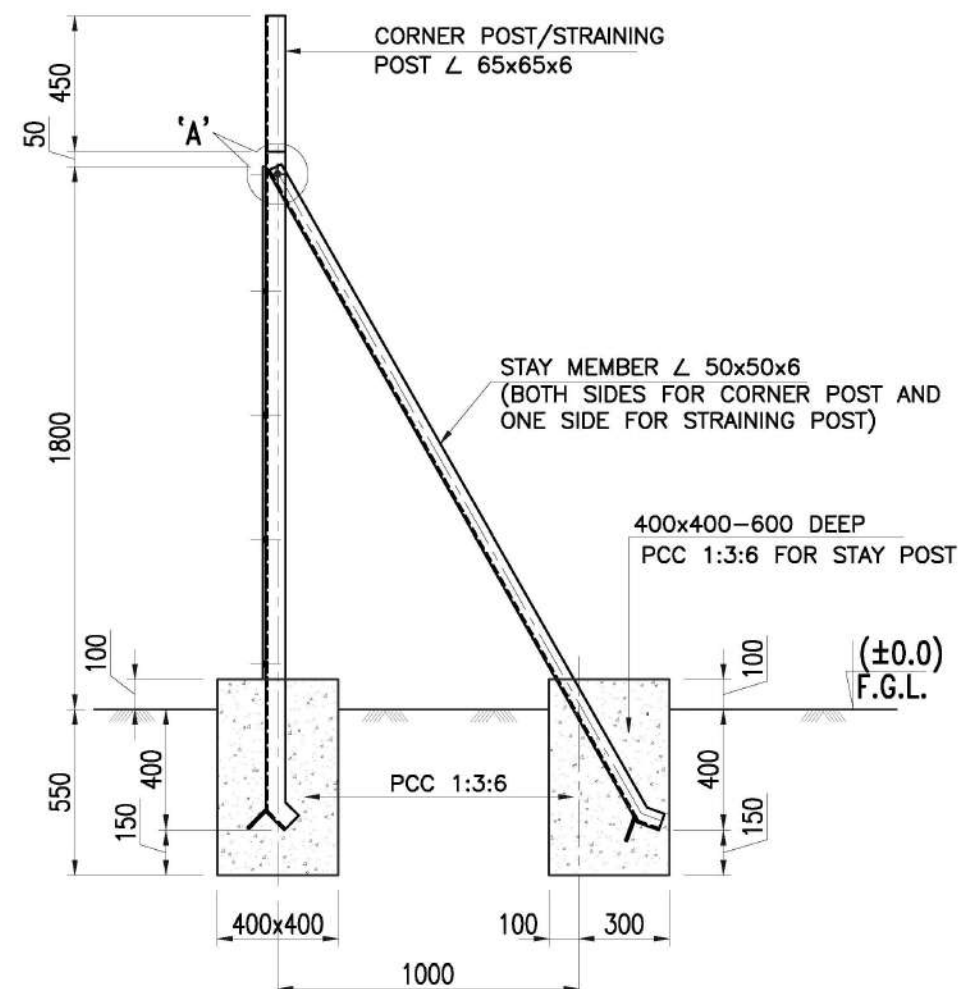
LEGEND



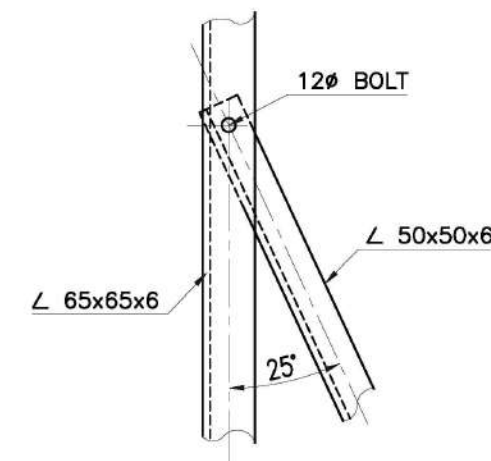
TYPICAL FENCE ELEVATION
(SCALE 1:25)



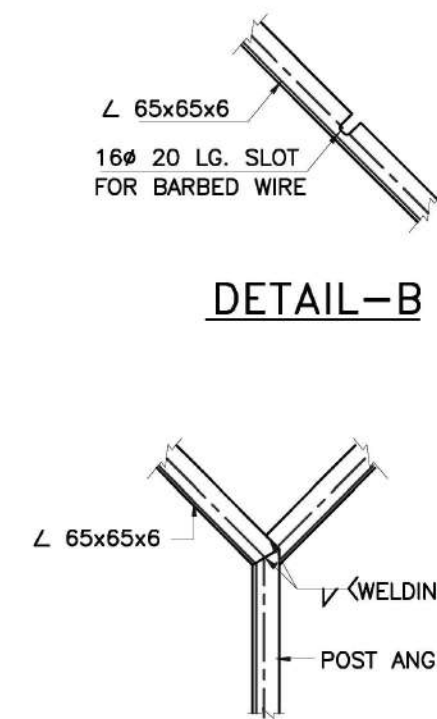
SIDE VIEW



SIDE VIEW STRAINING POST
(SCALE 1:25)



DETAIL-A



DETAIL-B

DETAIL-C

NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. ±0.00 SHALL DENOTE SWITCHYARD FINISHED GROUND LEVEL.
3. G.I CHAIN LINK FENCING SHALL HAVE 3.15M DIA WIRE AS PER IS 2721 WITH 75MM MESH SIZE & GALVANIZED.
4. LINE POSTS SHALL BE PLACED @ 3.0MC/C & SHALL REST ON WELL COMPACTED GROUND.
5. STRAINING POST SHALL BE PROVIDED AT A SPACING OF 15.0M.
6. CORNER POST SHALL BE PROVIDED WITH STAY MEMBER IN BOTH THE DIRECTIONS, WHILE STRAINING POST SHALL BE PROVIDED WITH ONE STAY MEMBER.
7. ALL STEEL SHALL CONFORM TO IS:2062.
8. CHAIN LINK FABRIC SHALL BE SECURED TO 4mm DIA

9. TENSION WIRE WITH 2.5mm DIA WIRE TIE AT TOP, FABRIC SHALL BE TIED WITH MS FLAT USING 12mm DIA BOLT WITH 50 mm.sq WASHER ON FABRIC SIDE.
10. ALL MS ANGLE & FLAT SHALL BE PAINTED WITH TWO OR MORE COATS OF ENAMEL PAINT OVER A PRIMER COAT TO GIVE AN EVEN SHADE.
11. CONCRETE GRADE FOR P.C.C. SHALL BE 1:3:6 CONFORM IS:456 LATEST.

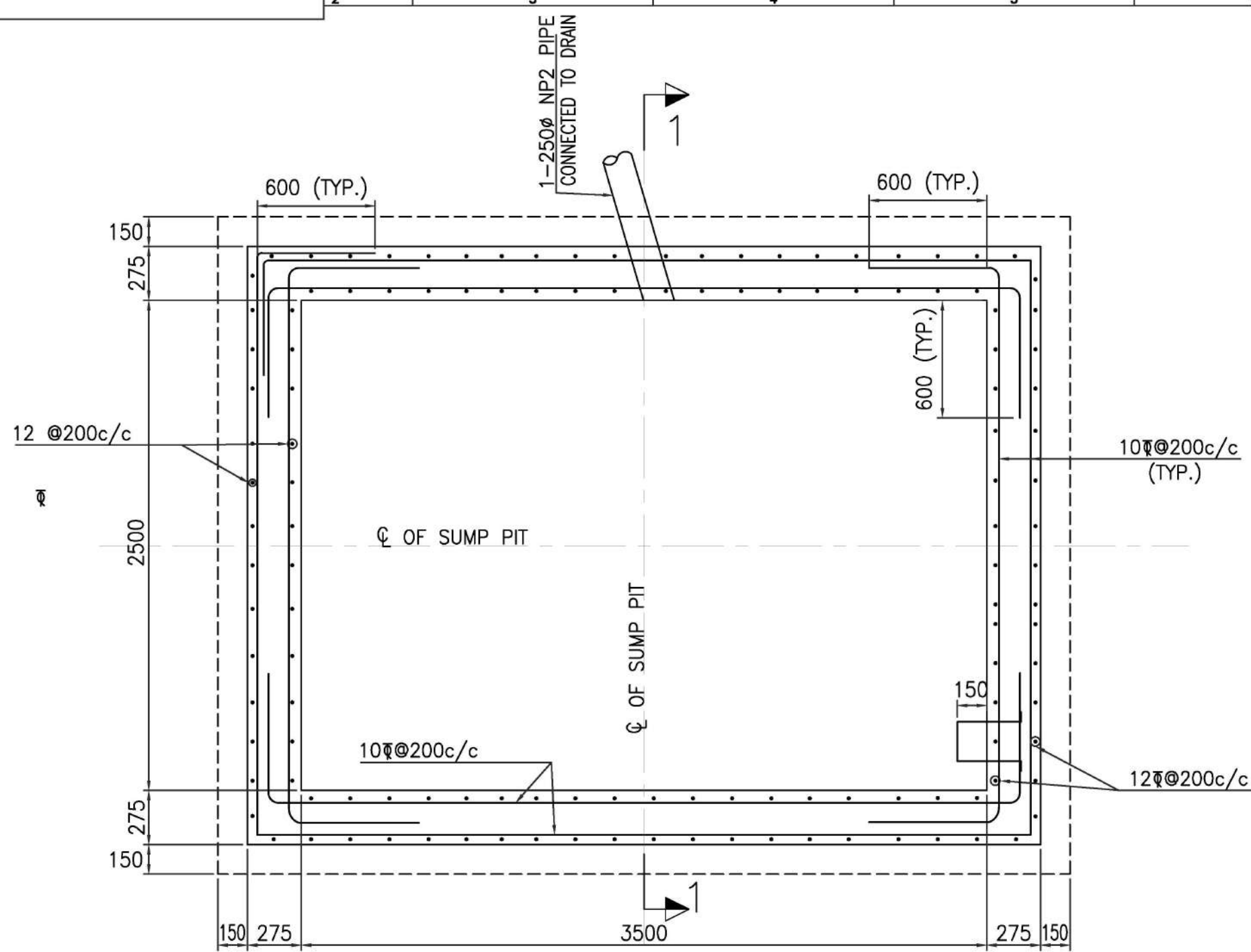
INDICATIVE DRAWING FOR TENDER PURPOSE ONLY

DETAILS OF CHAINLINK FENCING

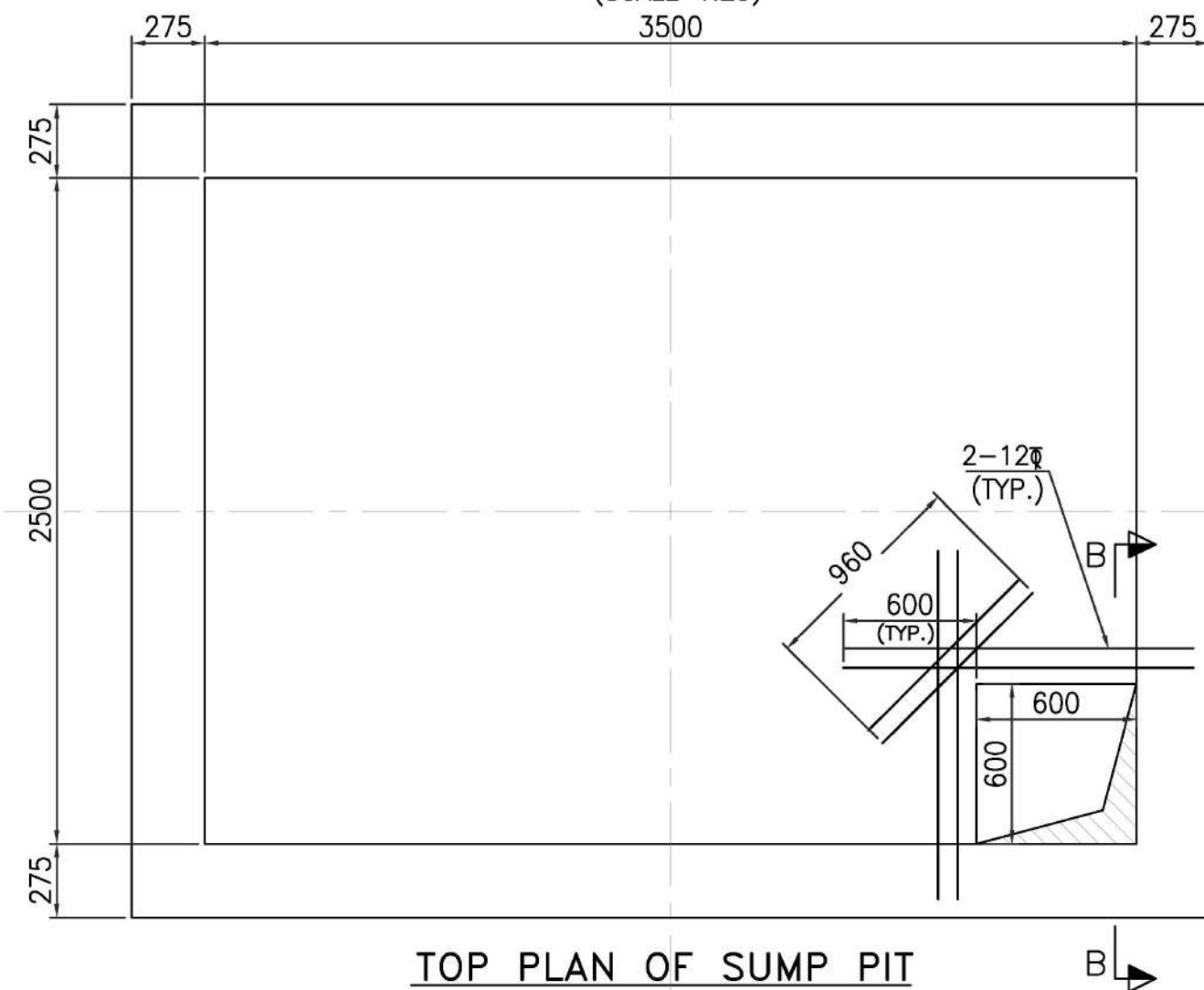
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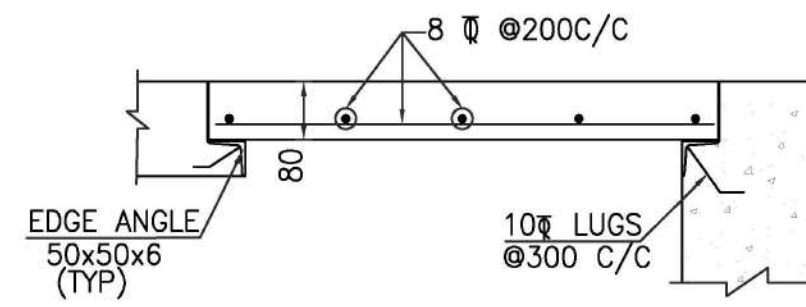
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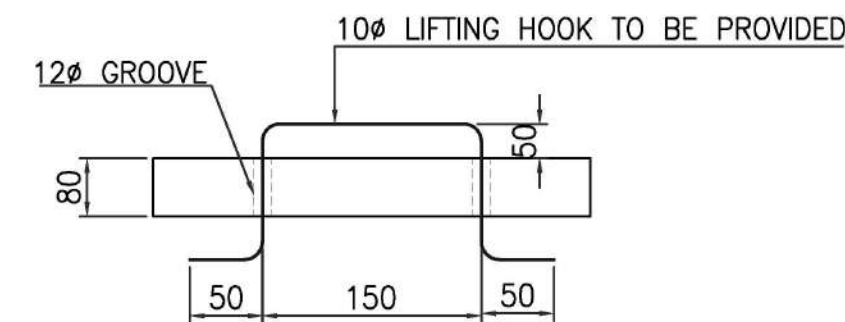
PLAN OF SUMP PIT
(SCALE 1:25)



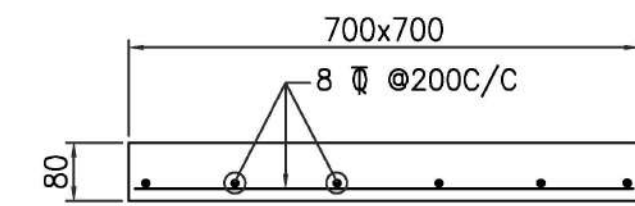
TOP PLAN OF SUMP PIT
(SCALE 1:25)



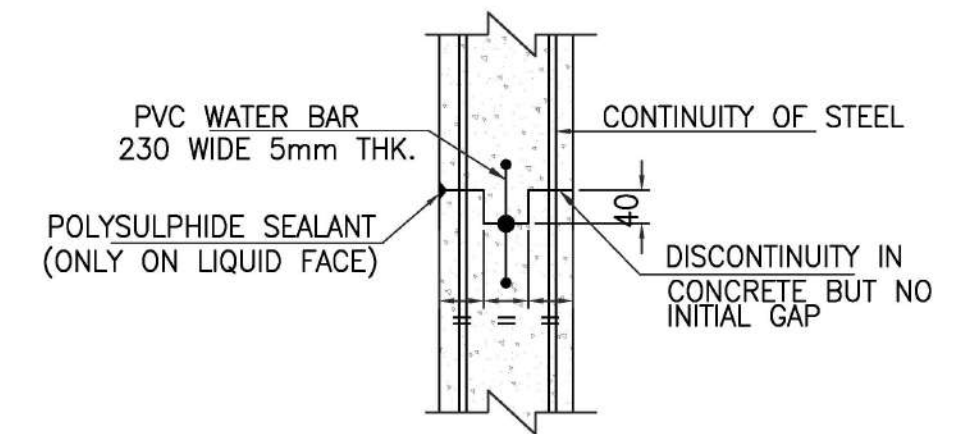
SECTION B-B



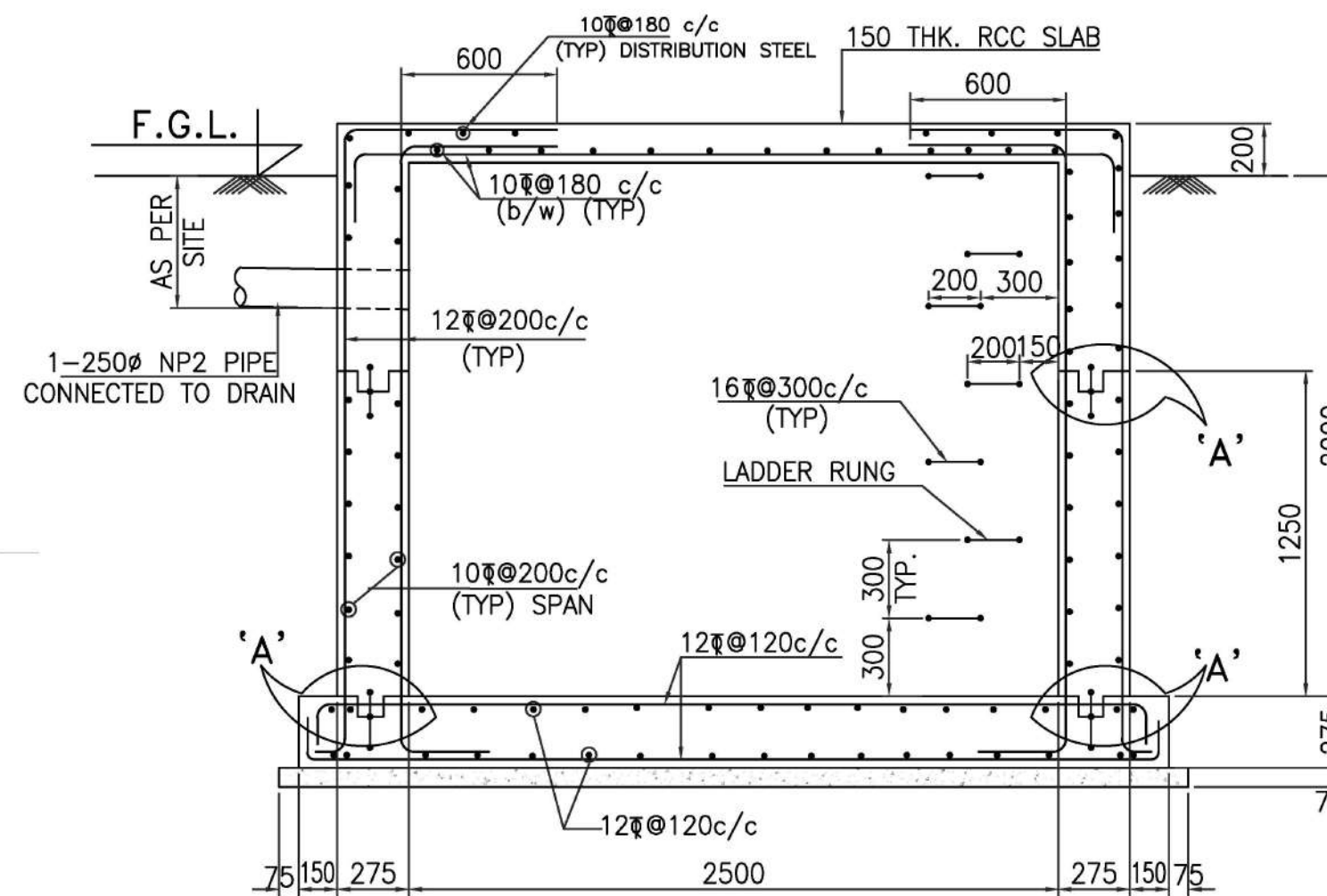
TYPICAL DETAIL OF
LIFTING HOOK FOR COVER SLAB
(SCALE 1:5)



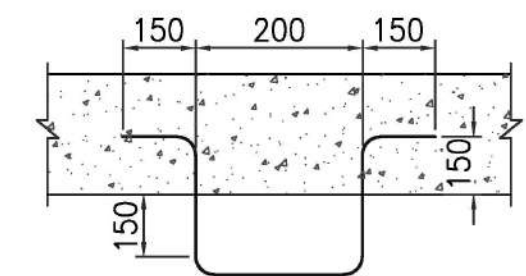
R/F. DETAIL OF COVER SLAB
(FOR DIMENSION REFER PLAN)



TYPICAL DETAILS ('A') OF VERTICAL
CONSTRUCTION JOINT IN WALL
(SCALE 1:25)



SECTION 1-1
SHOWING R/F.
(SCALE 1:25)



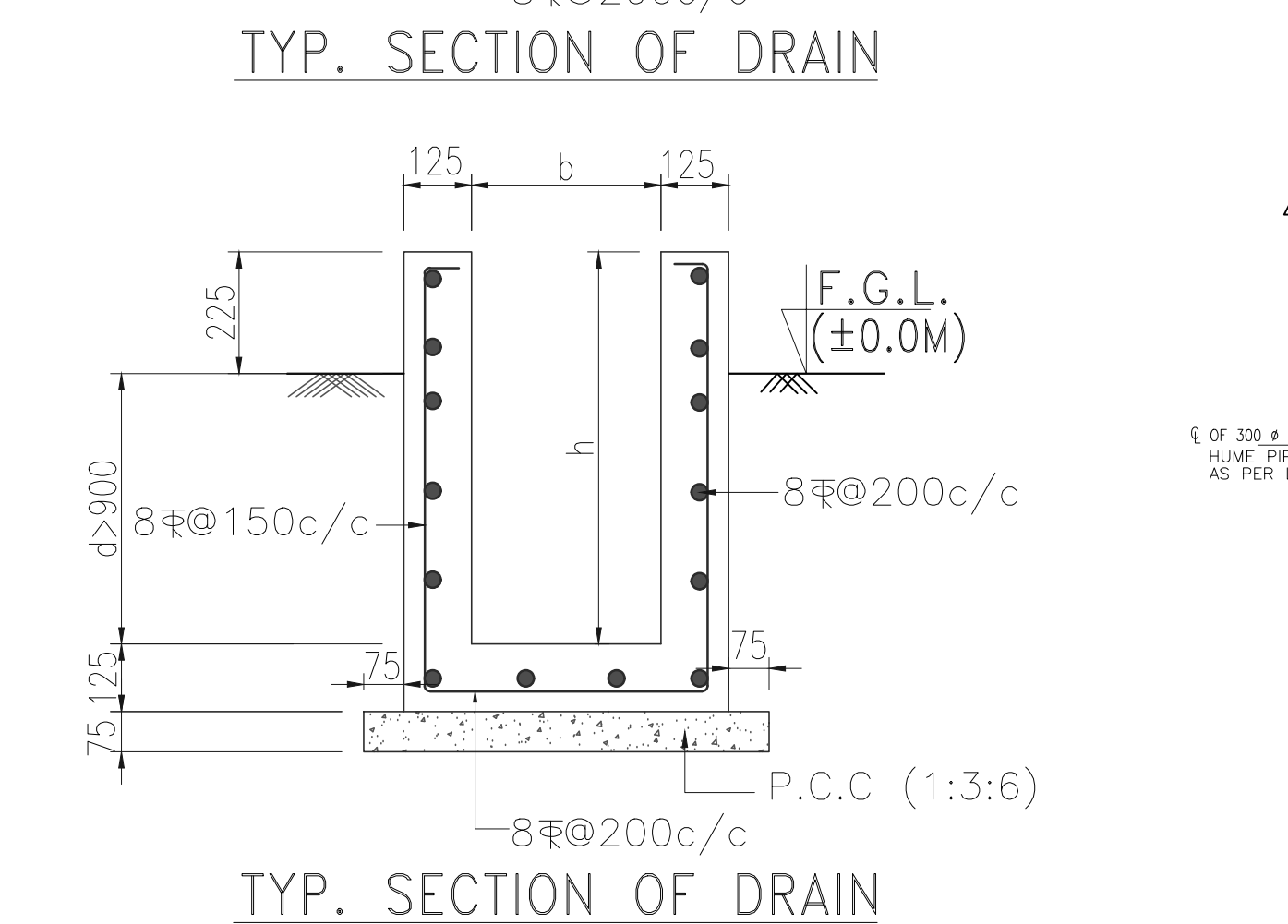
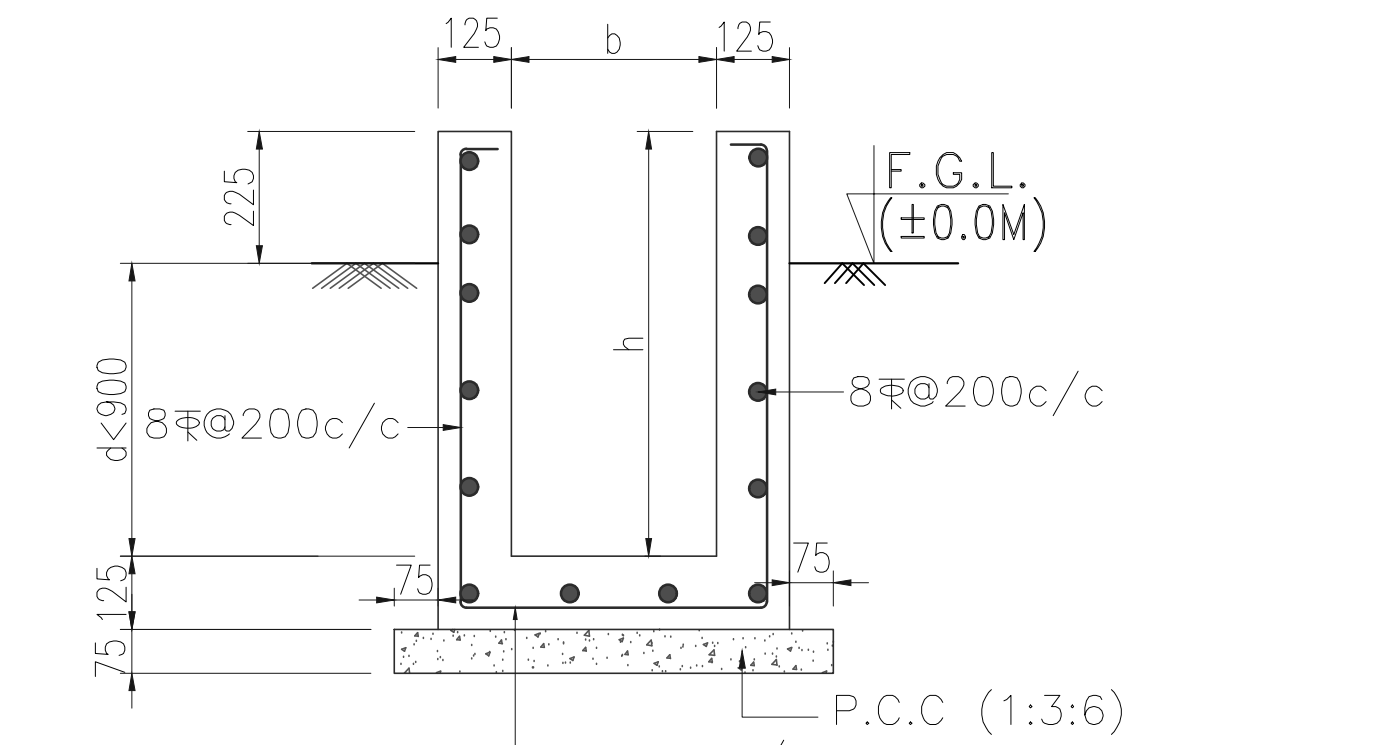
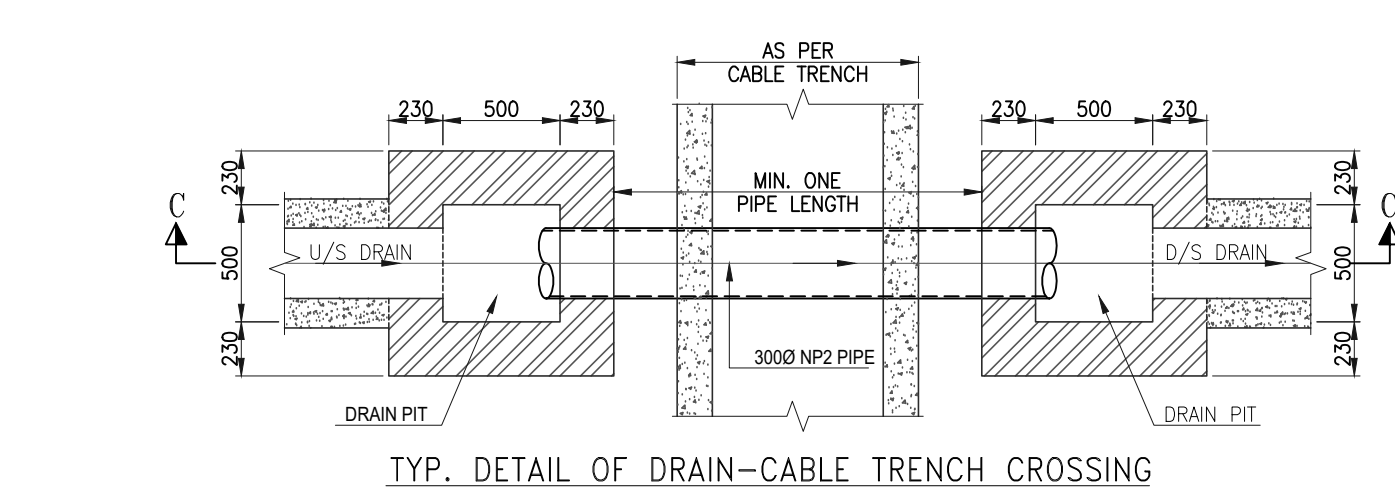
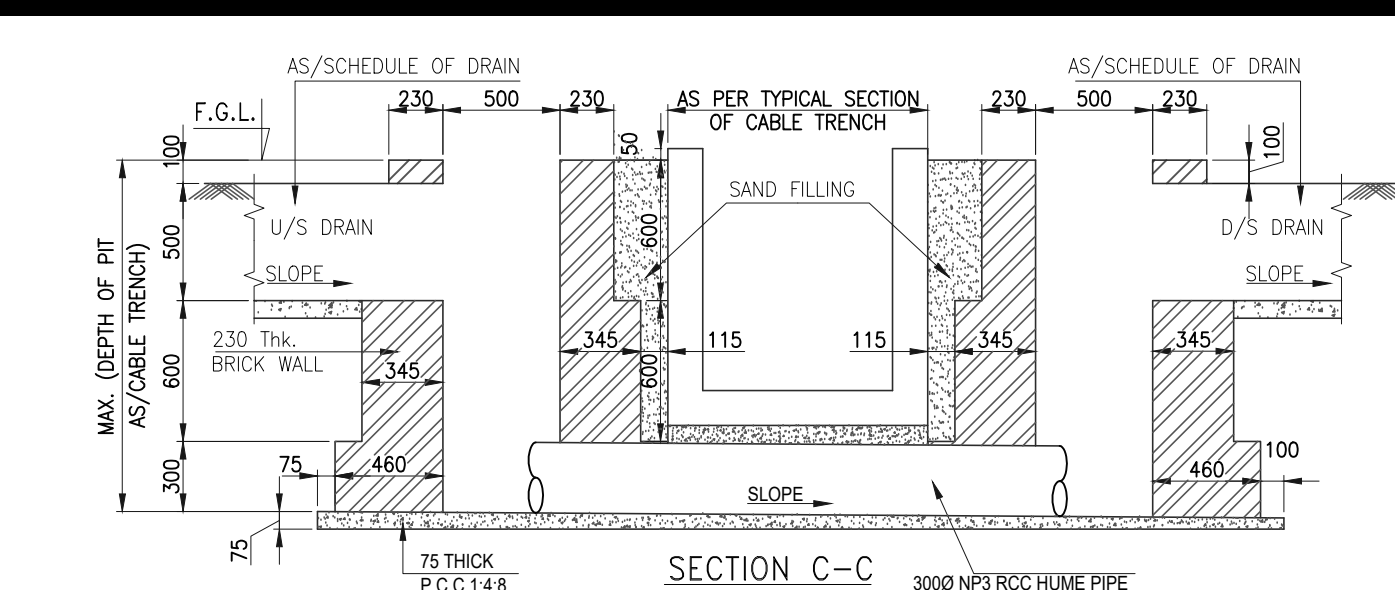
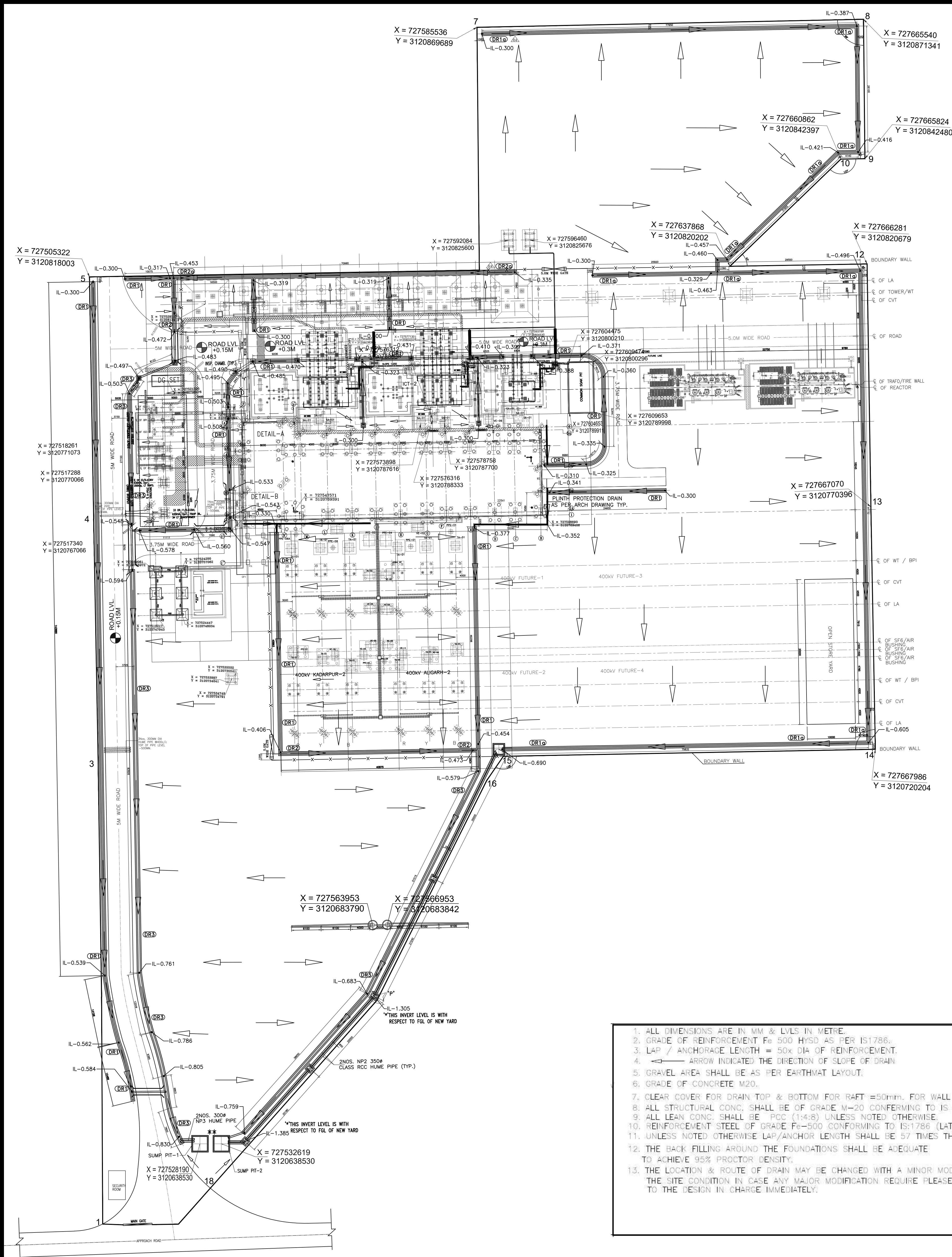
TYPICAL DETAIL OF
LADDER RUNG

- ALL DIMENSIONS ARE IN MM & LEVELS ARE IN METERS.
- R/F. USED FOR R.C.C WORKS SHALL BE HYSD BARS CONFORMING TO IS:1786 (LATEST REVISION)
- MINIMUM LAP LENGTH FOR BARS WHEREVER REQUIRED SHALL BE OF 50 TIMES DIA OF BARS.
- CLEAR COVER TO ALL REINFORCEMENT SHALL BE AS BELOW:
 - FOR BASE SLAB = 50MM.
 - FOR WALL = 50MM.
 - FOR TOP SLAB = 15MM.
- CONCRETE GRADE SHALL BE M25 AS PER IS:456 (LATEST) & REINFORCEMENT STEEL OF GRADE Fe 500 AS PER IS:1786 (LATEST)
- ALL HOOKS BENDS, LAPS AND SPLICES SHALL BE AS PER
- LADDER RUNG SHALL BE PAINT WITH BLACK ANTI-CORROSION PAINT OVER A COAT & PRIMER.
- INTERNAL PLASTER WITH WATER PROOFING COMPOUND SHALL BE ADDED WHILE CONCRETING AS PER MANUFACTURER'S RECOMMENDATIONS.

INDICATIVE DRAWING FOR TENDER PURPOSE ONLY

R.C.C DETAIL OF SUMP PIT FOR DRAIN
FOR GIS SUB-STATION PRITHALA

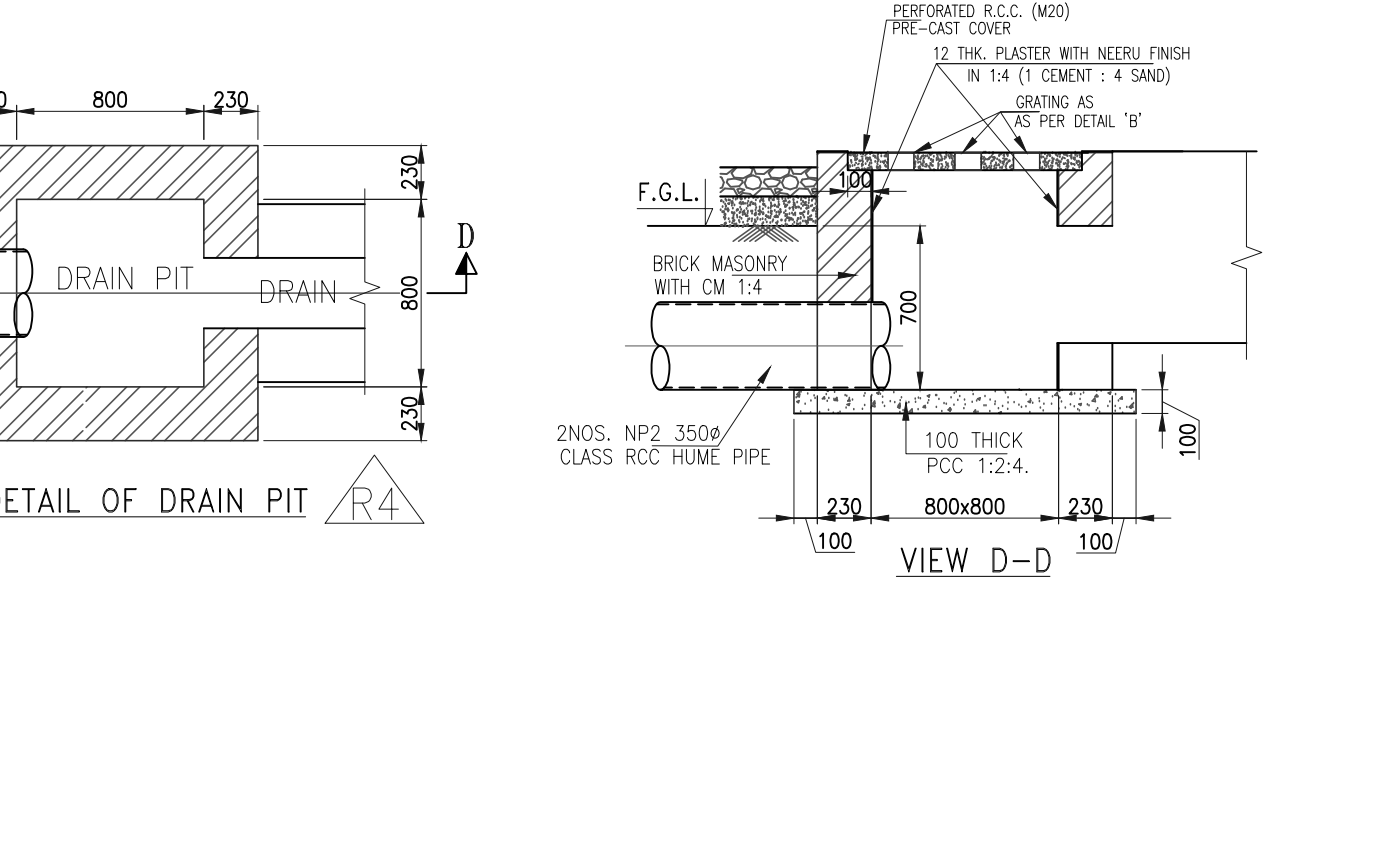
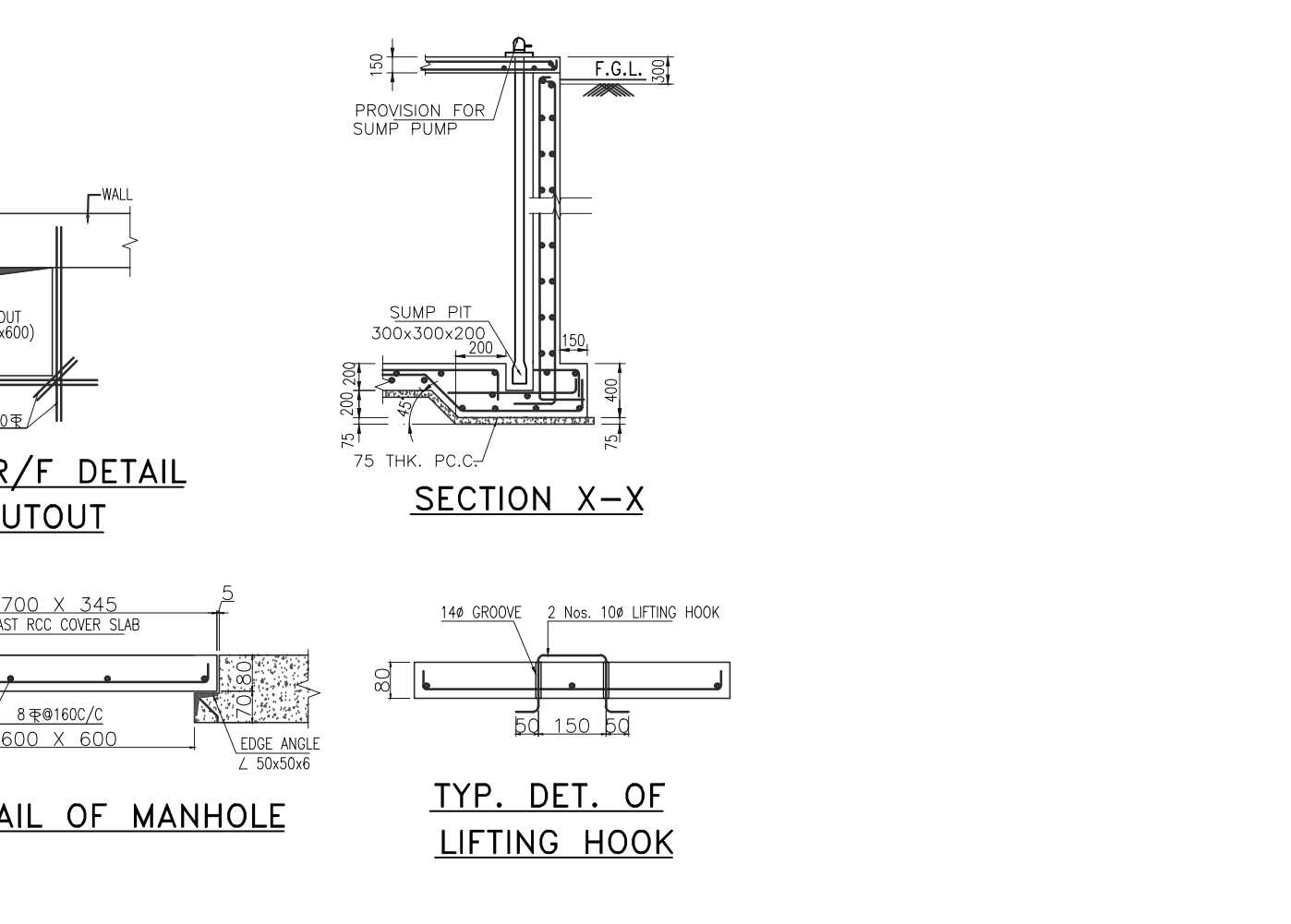
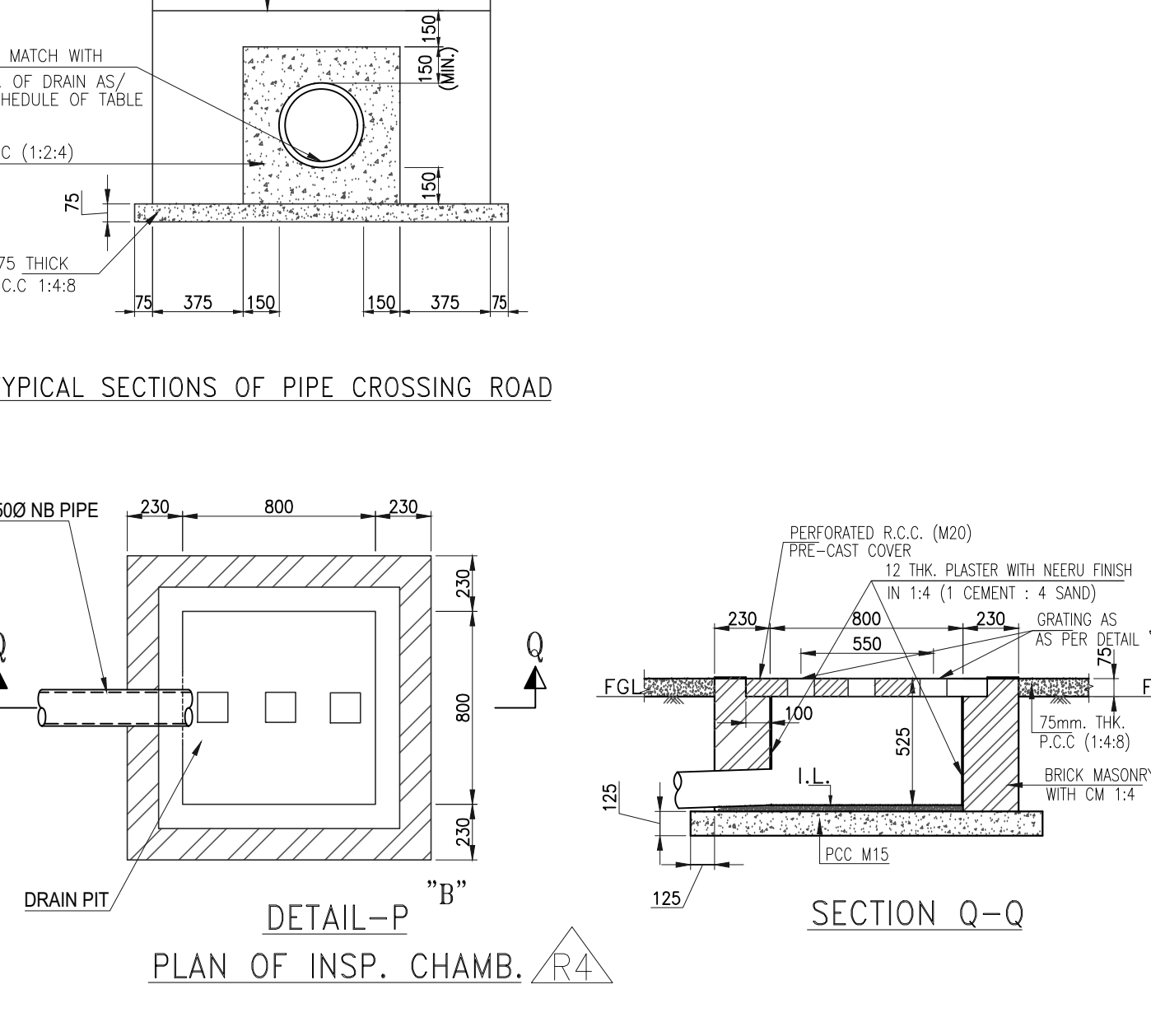
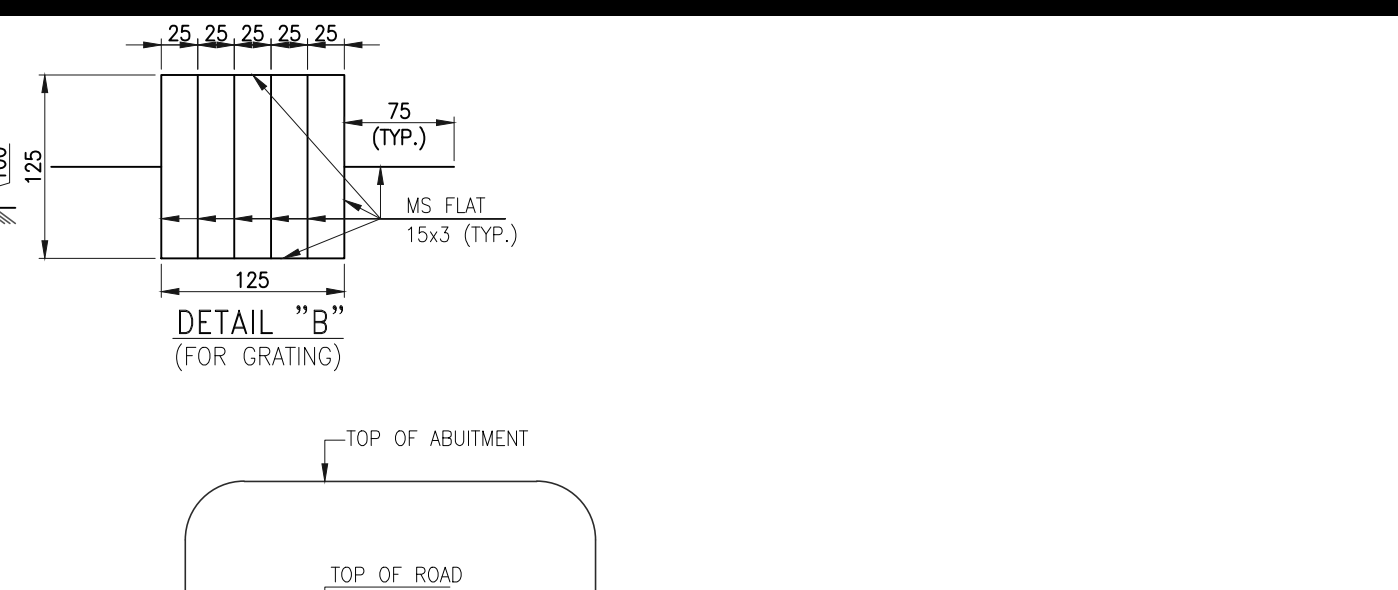
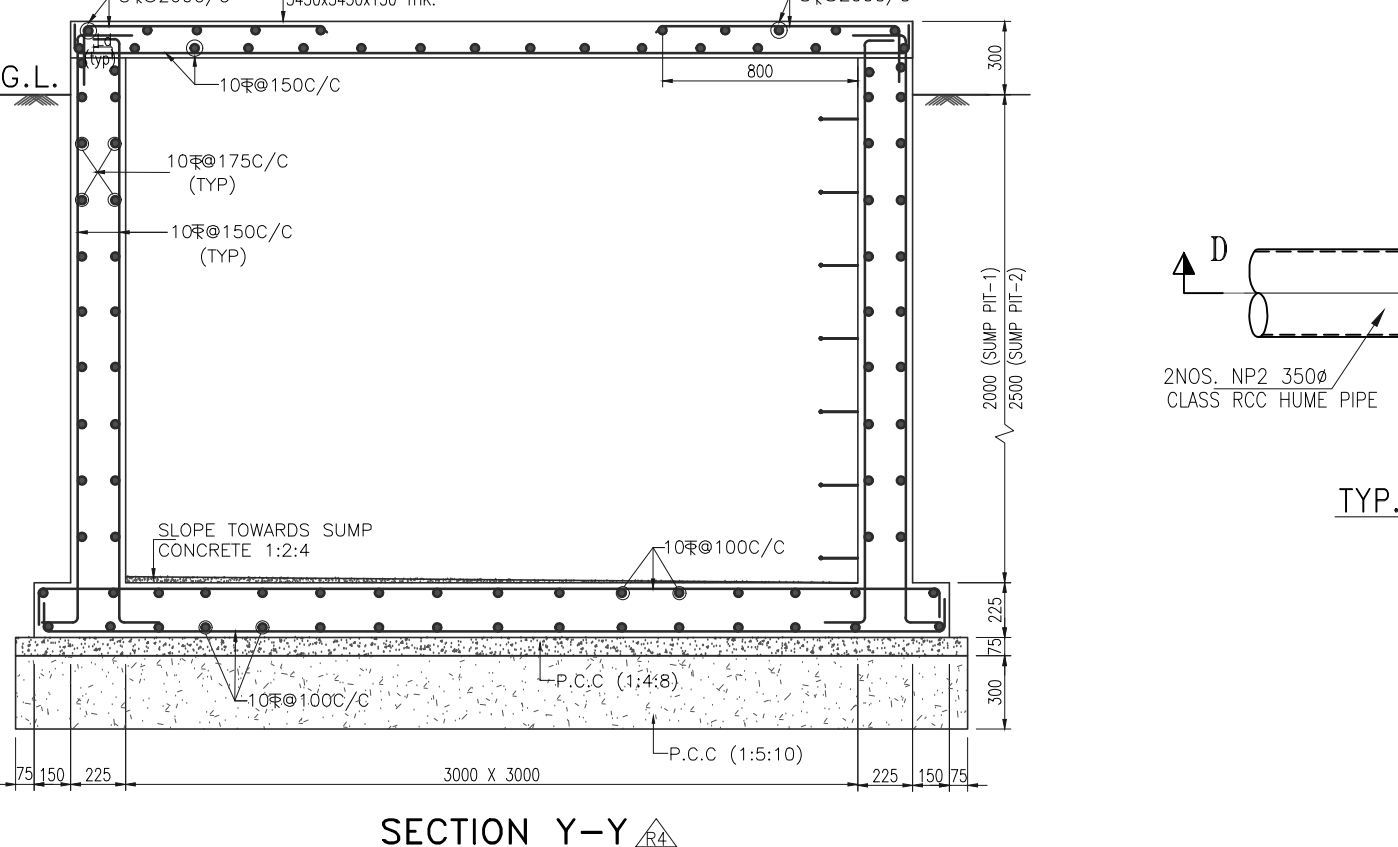
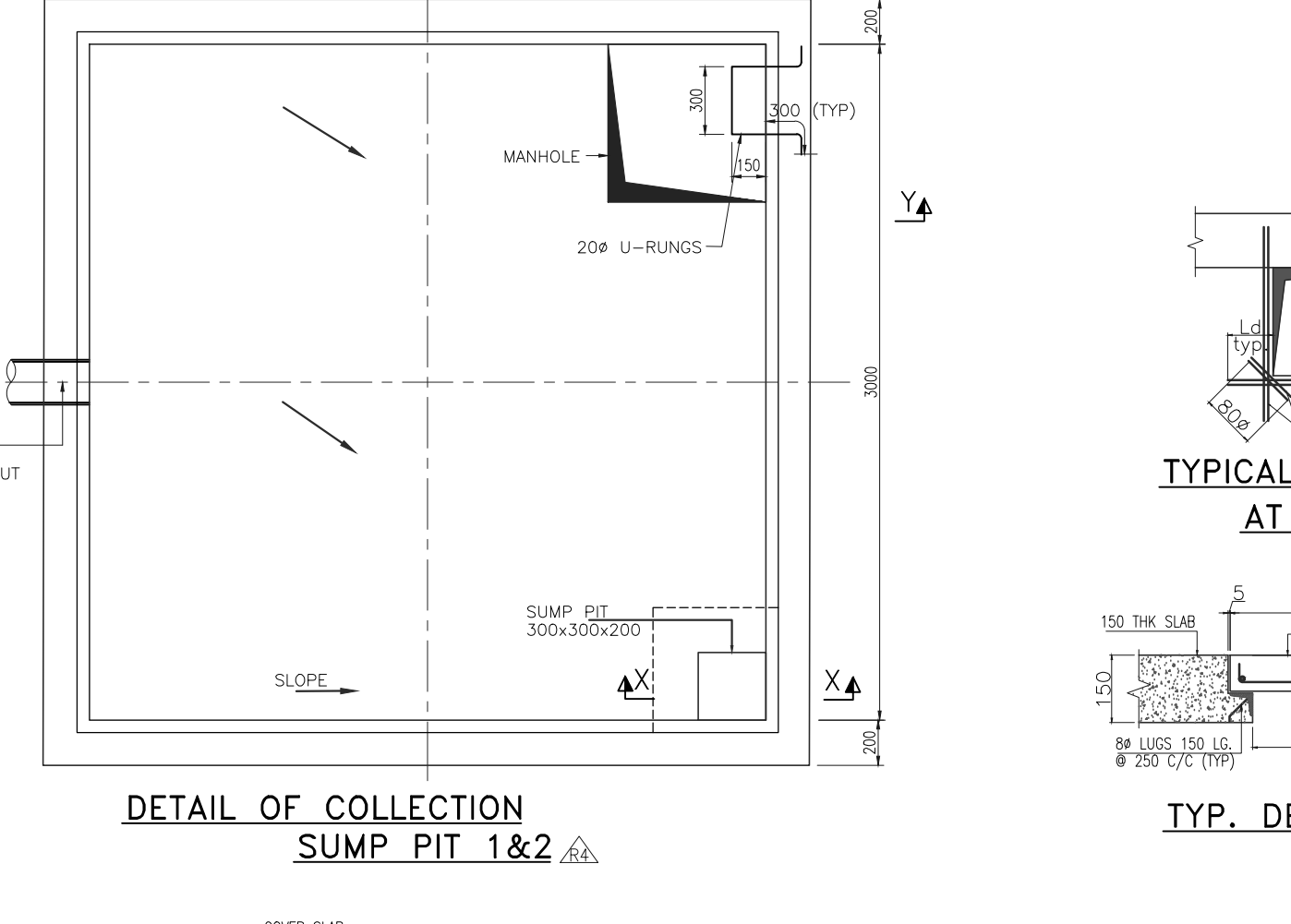
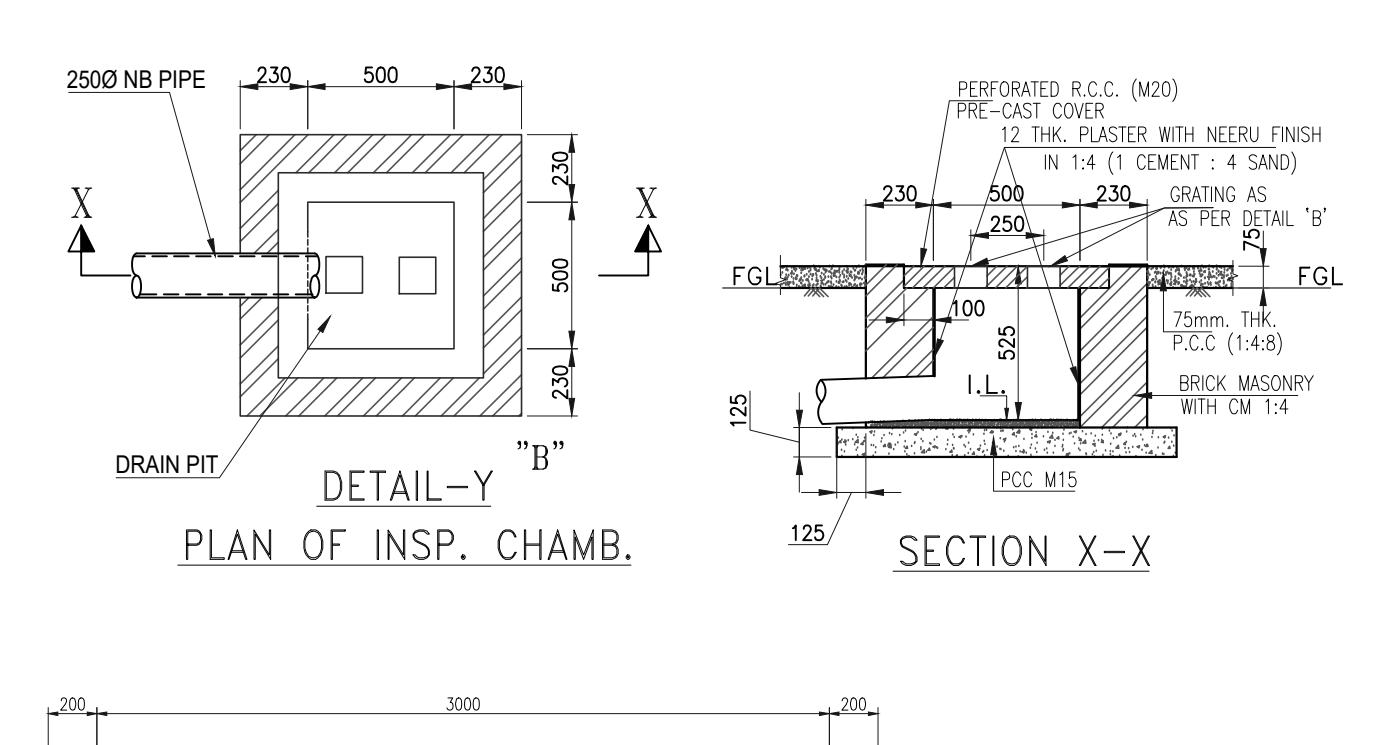
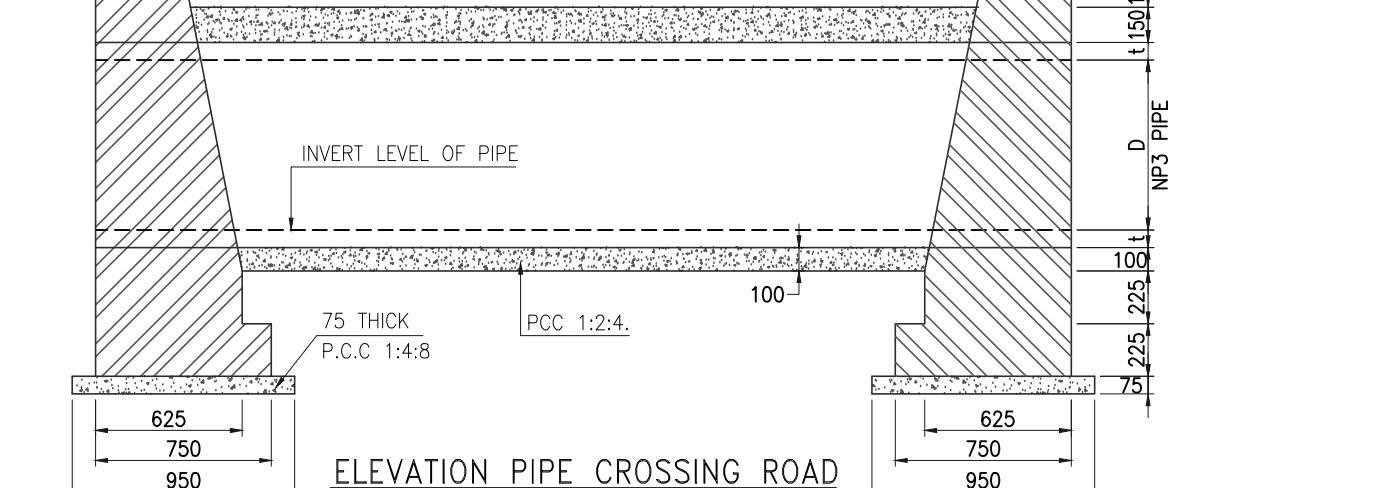
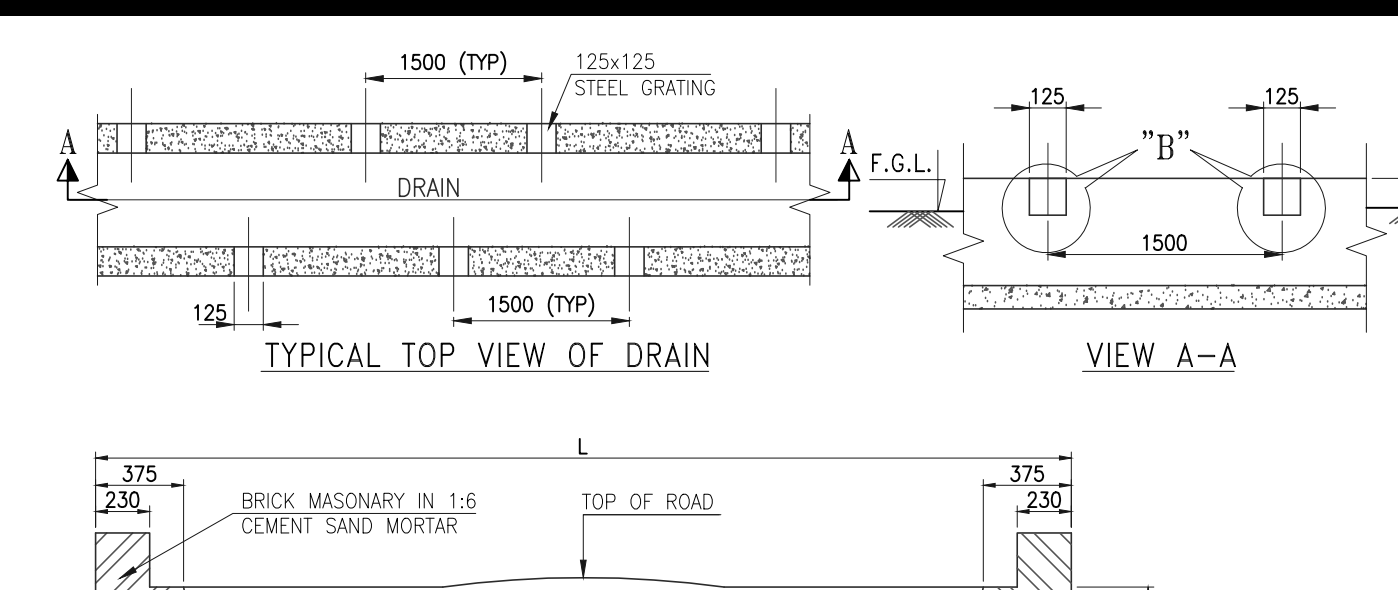
REFERENCE NO. DESCRIPTION LEGEND



SCHEDULE OF DRAIN :-

DRAIN MRK.	SIZE	SLOPE	
	b	d	
DR1	300	AS PER I.L.	1:600
DR1a	300	AS PER I.L.	1:900
DR2	400	AS PER I.L.	1:600
DR2a	300	AS PER I.L.	1:600
DR3	450	AS PER I.L.	1:500

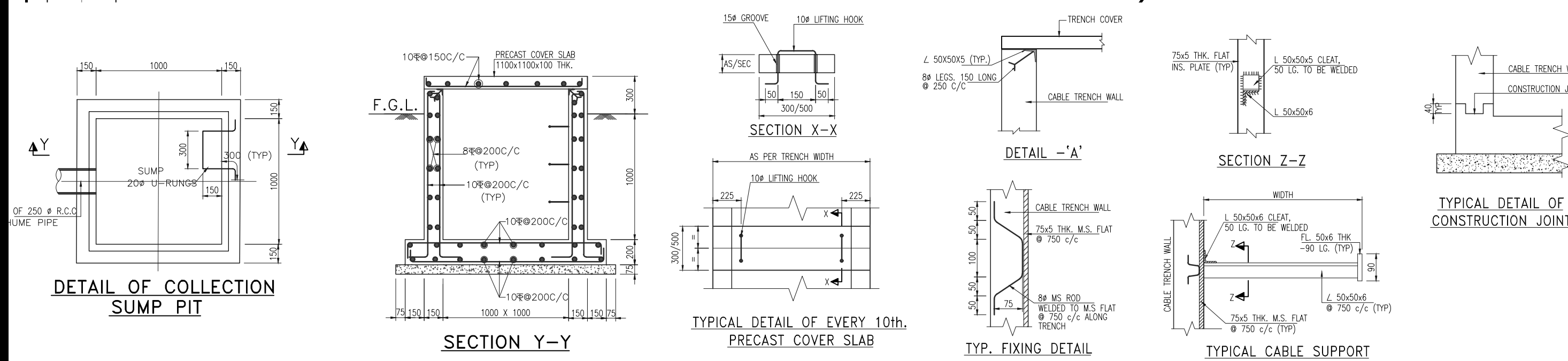
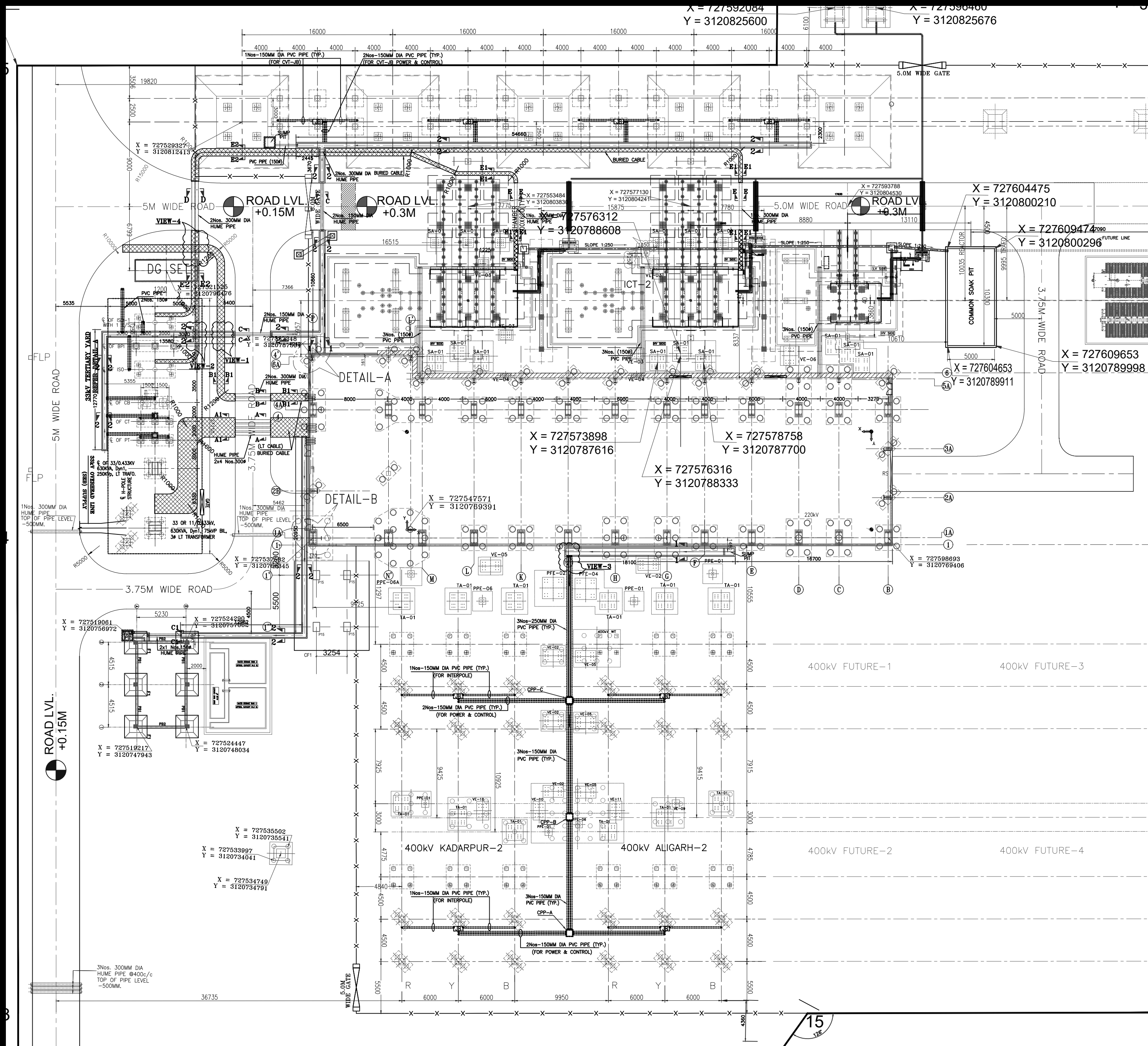
THIS INVERT LEVEL IS WITH RESPECT TO FGL OF NEW YARD



1. ALL DIMENSIONS ARE IN MM & LVLS IN METRE.
2. GRADE OF REINFORCEMENT Fe 500 HYSD AS PER IS1786.
3. LAP / ANCHORAGE LENGTH = 50x DIA OF REINFORCEMENT.
4. ARROW INDICATED THE DIRECTION OF SLOPE OF DRAIN.
5. GRAVEL AREA SHALL BE AS PER EARTHQUAKE LAYOUT.
6. GRADE OF CONCRETE M20.
7. CLEAR COVER FOR DRAIN TOP & BOTTOM FOR RAFT =50mm. FOR WALL =40mm.
8. ALL STRUCTURAL CONC. SHALL BE OF GRADE M-20 CONFORMING TO IS 456-1978.
9. ALL LEAN CONC. SHALL BE PCC (1:4:8) UNLESS NOTED OTHERWISE.
10. REINFORCEMENT STEEL OF GRADE Fe-500 CONFORMING TO IS:1786 (LATEST REVISION).
11. UNLESS NOTED OTHERWISE LAP/ANCHOR LENGTH SHALL BE 57 TIMES THE DIA OF BARS.
12. THE BACK FILLING AROUND THE FOUNDATIONS SHALL BE ADEQUATE TO ACHIEVE 95% PROCTOR DENSITY.
13. THE LOCATION & ROUTE OF DRAIN MAY BE CHANGED WITH A MINOR MODIFICATION TO SUIT THE SITE CONDITION IN CASE ANY MAJOR MODIFICATION REQUIRE PLEASE BRING THE MATTER TO THE DESIGN IN CHARGE IMMEDIATELY.
- LEGENDS:-
- 3000 NP3 HUME PIPE (ROAD CROSSING)
 - CABLE TRENCH CROSSING
 - DRAIN
 - DIRECTION OF SLOPE

INDICATIVE DRAWING FOR TENDER PURPOSE ONLY

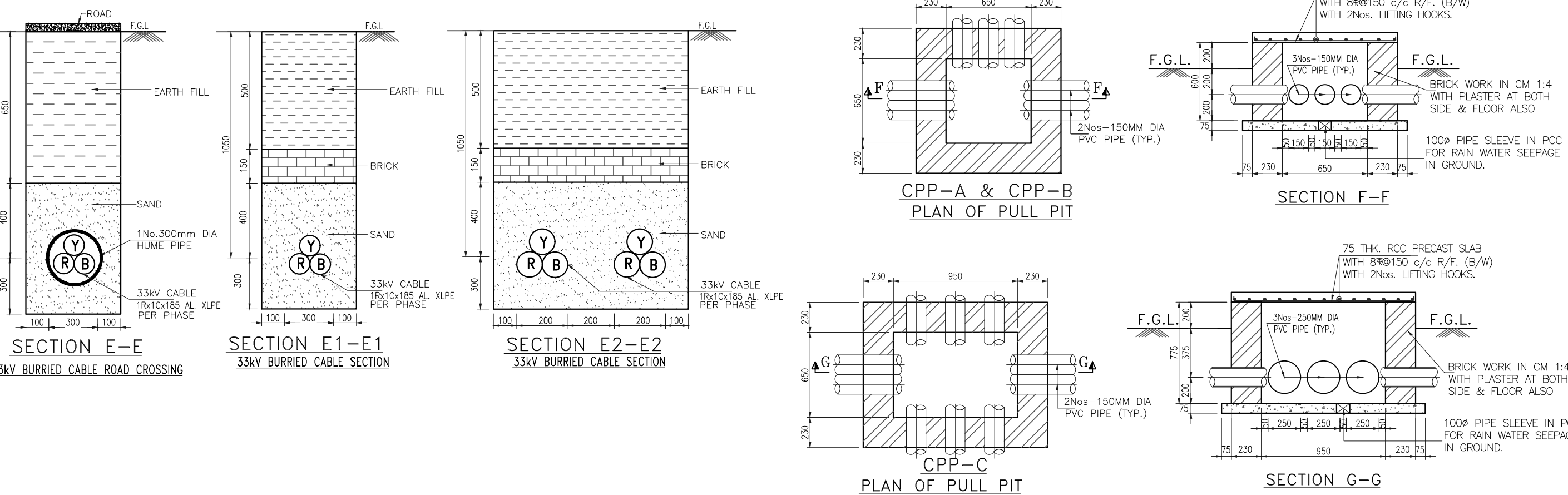
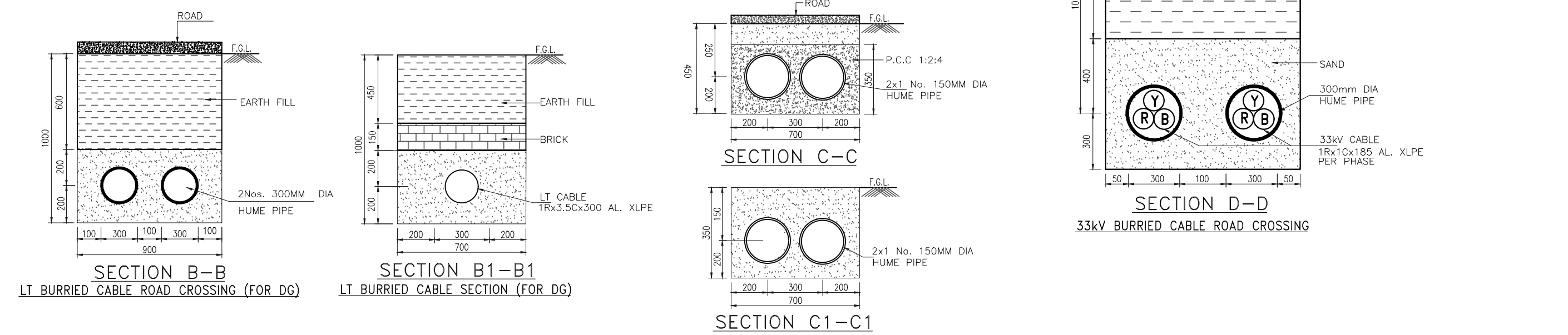
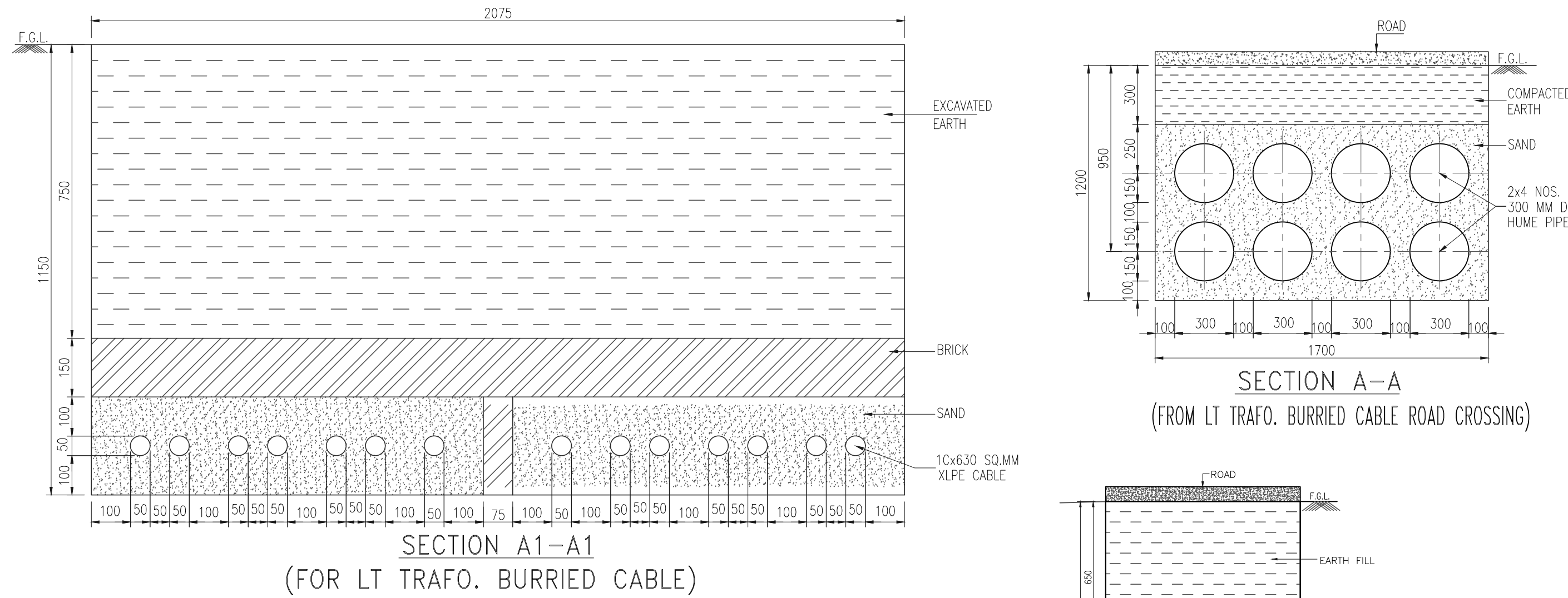
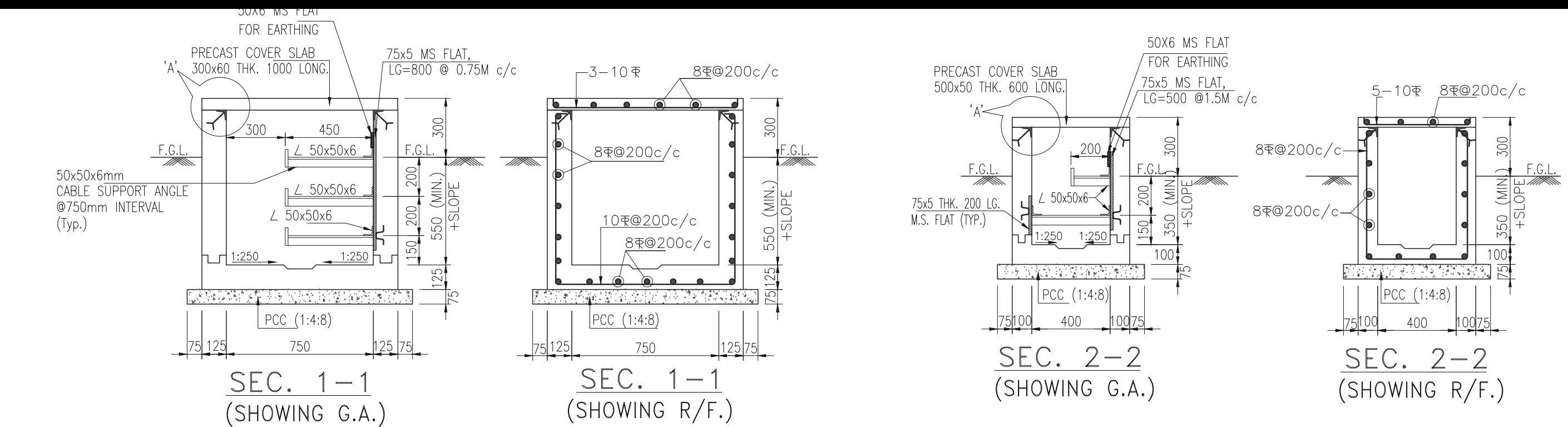
LAYOUT & RCC DETAIL OF STORM WATER DRAIN FOR 400/220 KV GIS SUB STATION



- ALL DIMENSIONS ARE IN MM & LVLS IN METERS.
- ALL STRUCTURAL CONC. SHALL BE OF GRADE M-20 CONFORMING TO IS 456-1978.
- ALL LEAN CONC. SHALL BE PCC (1:4:8) UNLESS NOTED OTHERWISE.
- REINFORCEMENT STEEL OF GRADE Fe-500 CONFORMING TO IS:1786 (LATEST REVISION).
- UNLESS NOTED OTHERWISE LAP/ANCHOR LENGTH SHALL BE 57 TIMES THE DIA OF BARS.
- CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS BELOW:
 - FOR WALL ALL SIDES = 25mm.
 - FOR GRADE SLAB BOTTOM = 40mm.
- ALL STRUCTURAL STEEL SHALL CONFORM TO IS: 2062.
- THE BACK FILLING AROUND THE FOUNDATIONS SHALL BE ADEQUATE TO ACHIEVE 95% PROCTOR DENSITY.
- (± 0.00) CORRESPONDS TO PLANT RL. $\rightarrow (+)100.0M$. ABOVE MSL.
- MINOR CHANGES IF REQUIRED IN CABLE TRENCH ROUTING MAY SUIT AS PER SITE CONDITIONS IN CASE IT FOULS WITH ANY FOUNDATION.
- ALL PIPES SLEEVES PROVIDED FOR CABLES IN WALLS TO BE SEALED WITH SUITABLE FIRE PROOF/WATER PROOF COMPOUND AFTER LAYING OF CABLES.
- CONCRETE FOR BASE SLAB & WALLS OF CABLE TRENCH INSIDE THE BUILDING SHALL BE MIXED WITH WATER PROOFING COMPOUND AS PER SPECIFICATION.
- CABLE TRENCH SHALL BE BLOCKED AT THE END WITH BRICK MASONRY IN CEMENT SAND MORTAR (1:6) AND PLASTER WITH 12mm THICK CEMENT SAND MORTAR.
- ALL PIPES SHALL BE NP-3 PIPES.

LEGENDS:-

- PRESENT SCOPE
- EXISTING SCOPE
- BURIED CABLE TRENCH
- CABLE TRENCH
- PULL PIT
- PVC PIPE (150 ϕ)
- HUME PIPE (300 ϕ)



INDICATIVE DRAWING FOR TENDER PURPOSE ONLY

LAYOUT AND RCC DEATAILS OF OUTDOOR CABLE TRENCH SECTIONS