

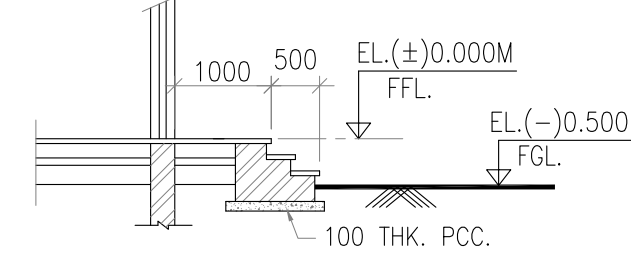
SCHEDULE OF DOORS & WINDOWS				
TYPE	OPENING SIZE	CLL LEVEL	LINTEL LEVEL	NOS. DESCRIPTION
RS1	4000x6000	-	6000	1 STEEL ROLLING SHUTTER
D1	2000x2500	-	2500	1 DOUBLE SHUTTER STEEL FRAME DOOR AS PER SPECS.
D2	1200x2500	-	2500	4 SINGLE SHUTTER STEEL FRAME DOOR AS PER SPECS.
W1	2000x1600	900	2500	47 PARTLY FIXED & PARTLY OPENABLE ALUMINIUM FRAME GLAZED SHUTTER WINDOW AS PER SPECS.

- SCHEDULE OF FINISHES**
- 1.0 BRICK WORK:**
1.1 230mm THK. BRICK MASONRY IN C.M. (1:6) USING FLY ASH BRICK/ (IS 12894).
- 2.0 PLASTER:**
2.1 INTERNAL: 12mm THK. PLASTER (1:6 CEMENT : SAND) MORTOR
2.2 EXTERNAL: 18mm THK. PLAIN PLASTER (1:6 CEMENT : SAND)
- 3.0 FLOORING:**
3.1 GIS BLDG. CEMENT CONCRETE WITH METALLIC HARDENER TOPPING.
3.2 SKIRTING: 150 HIGH SKIRTING MATCHING WITH THE FLOOR SHALL BE PROVIDED.
- 5.0 PAINTING:**
5.1 INSIDE FACES OF BRICK WALL WILL HAVE 2-COATS OF ACRYLIC DISTEMPER.
5.2 OUTSIDE FACES OF WALL BE PREMIUM ACRYLIC SMOOTH EXTERIOR PAINT. OVER PLASTER SURFACE.

- WALL CLADDING & ROOF SHEETING-**
- AS PER TECHNICAL SPECIFICATION CL. NO.-9.08.1.0
TROUGHED PERMANENTLY COLOUR COATED SHEET OF APPROVED SHADE & COLOUR. EITHER OF STEEL WITH MINIMUM 0.6MM BMT (i.e. EXCLUDING THE THICKNESS OF GALVANIZING/ ALUMINIUM ZINC COATING & PAINTING) OF GRADE G250 AS PER AS1397/ GRADE S255 AS PER ASTM A653M/ GRADE S250GD AS PER EN 10326 WITH ZINC COATING TO CLASS Z275/ ALUMINIUM ZINC ALLOY COATING TO CLASS AZ150
OR
TROUGHED PERMANENTLY COLOUR COATED SHEET OF APPROVED SHADE & COLOUR. EITHER OF STEEL WITH MINIMUM 0.4MM BMT (i.e. EXCLUDING THE THICKNESS OF GALVANIZING/ ALUMINIUM ZINC COATING & PAINTING) OF GRADE G550 AS PER AS1397/ GRADE S550 AS PER ASTM A792M/ GRADE S550GD AS PER EN 10326 WITH ZINC COATING TO CLASS Z275/ ALUMINIUM ZINC ALLOY COATING TO CLASS AZ150

SL. NO.	LOCATION	COLOUR CODE
1	WALL CLADDING	RAL5012 & RAL9002 (ON EXTERNAL FACE) ON INSIDE FACE RAL 9002
2	POLYCARBONATE CLADDING	(CODE: RAL9002)
3	ROOF CLADDING	RAL9002 ON BOTH FACE.
4	METAL STRUCTURE-COLUMN & BEAM (PRIMARY MEMBER)	(CODE: RAL5012)
5	METAL STRUCTURE-TIE, BRACING & STRUTS (SECONDARY MEMBER)	(CODE: RAL9002)

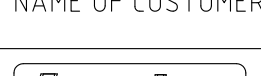

- NTPC REFERENCE DRGS.**
1. GIS BUILDING - PLAN LAYOUT
DRG. NO. - 9585-001-572-PVE-F-0283
- NOTES:**
1. ALL DIMENSION ARE IN MILLIMETRE & ELEVATIONS ARE METRE.
2. SIZE OF COLUMNS ARE TENTATIVE AND SUBJECT TO CHANGE AS PER STRUCTURAL DRAWING.
3. DOOR WIDTH ARE CLEAR MASONRY OPENING AND DOOR HEIGHTS ARE FROM FFL TO BOTTOM OF LINTEL.
4. ALL DIMENSIONS ARE READ AS UNPLATERED MASONRY & CONCRETE UNLESS NOTED OTHERWISE.
5. READ THIS DRAWING IN CONNECTION WITH TECHNICAL SPECIFICATION AND TENDOR DRAWING.



ALL FINISHES SHALL BE AS PER TECHNICAL SPECIFICATIONS
SAMPLES OF FINISHING ITEM SHALL BE APPROVED BY EIC
BEFORE ORDERING IN BULK.

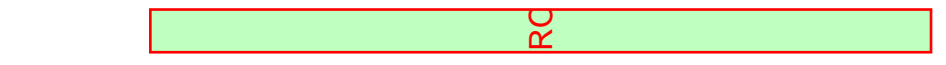
CA NO.	PATRATU VIDYUT UTPADAN NIGAM LTD. PATRATU SUPER THERMAL POWER PROJECT EXPANSION PHASE-I (3x800 MW)		
ADDITIONAL INFORMATION W.O.NO.	Bharat Heavy Electricals Ltd. TRANSMISSION PROJECTS DIVISION		
STATUS OF DRAWING	NAME OF CUSTOMER/PROJECT		
DISTRIBUTION OF PRINTS	Bharat Heavy Electricals Ltd. TRANSMISSION PROJECTS DIVISION		
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REF. DRG.																CA NO.														
																ADDITIONAL INFORMATION W.O.No.				भारत/परियोजना का नाम PATRATU SUPER THERMAL POWER PROJECT EXPANSION PHASE-I (3x800 MW)										
SIGN. & DATE																STATUS OF DRAWING				NAME OF CUSTOMER/PROJECT										
																DISTRIBUTION OF PRINTS				<div><div></div><div>भारत हेवी इलेक्ट्रिकल्स लिमिटेड सुपरथर्मल परियोजना विभाग BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION</div></div>										
INVENTORY No.	REV.	DATE	ALTERED CHECKED APPROVED	REV.	DATE	ALTERED CHECKED APPROVED	REV.	DATE	ALTERED CHECKED APPROVED	REV.	DATE	ALTERED CHECKED APPROVED	REV.	DATE	ALTERED CHECKED APPROVED	REV.	DATE	DRN	TR	REV.	DATE	DRN	TR	प्रभाग DEPT.		जुगत / SCALE	कॉड कोड CARD CODE	ड्राइंग नं./BHEL DRAWING NO.	पृष्ठ/REV.	
	ZONE			ZONE			ZONE			ZONE			ZONE			R2	11.12.19	CHECKED DU/VG APPROVED	TR DU/VG AKM/PLK/NTPC	ZONE			REVISD AS PER COMMENTS	GA & ARCHITECTURAL PLAN, ELEVATION AND SECTION FOR 400 KV GIS BUILDING				पृष्ठ नं./SHEET No.02	उगल पृष्ठ/NEXT SHEET 03	
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R10



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BHEL

COMPUTER DRG. PATH NAME :	SIGN. & DATE	REF. DRG. No.

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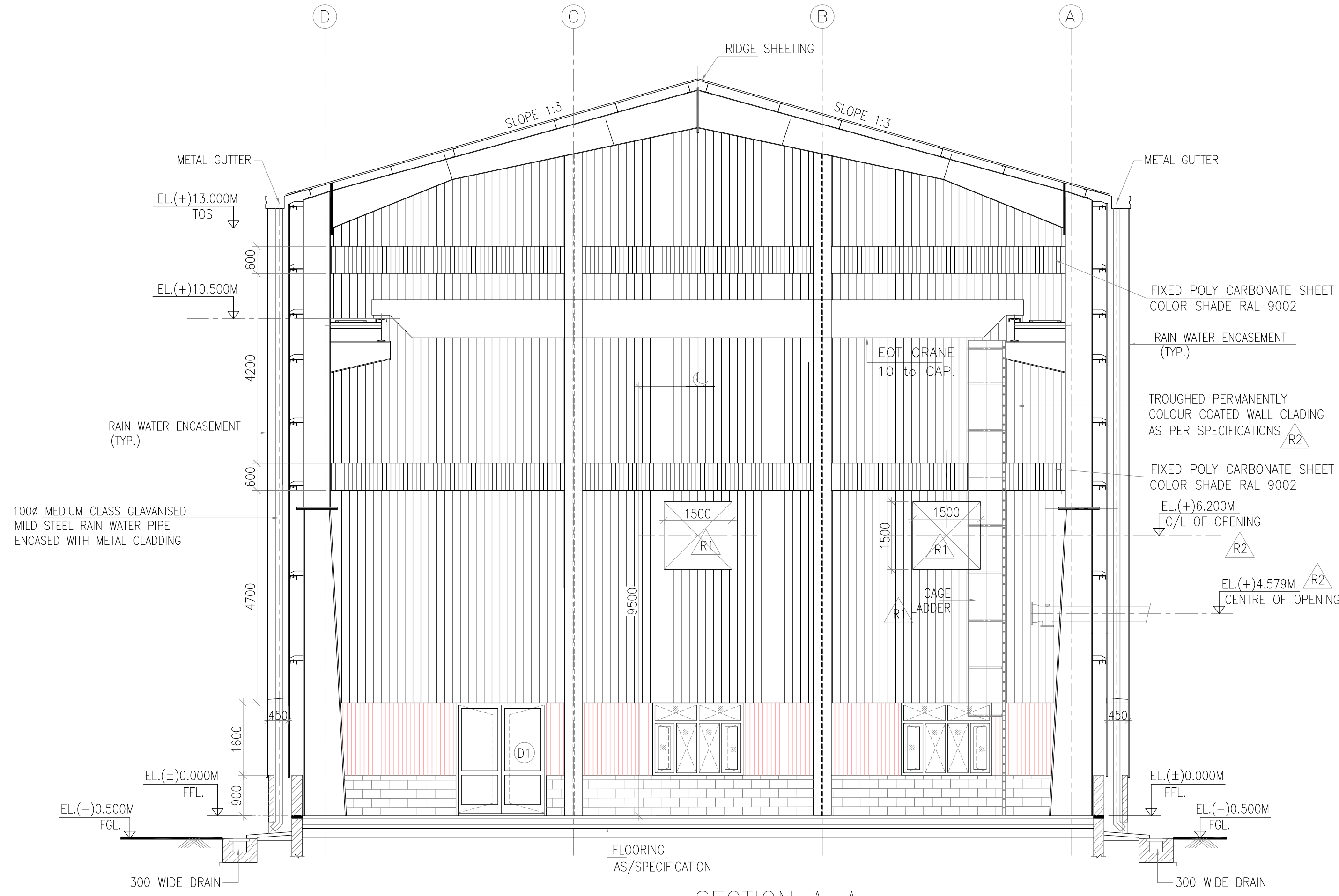
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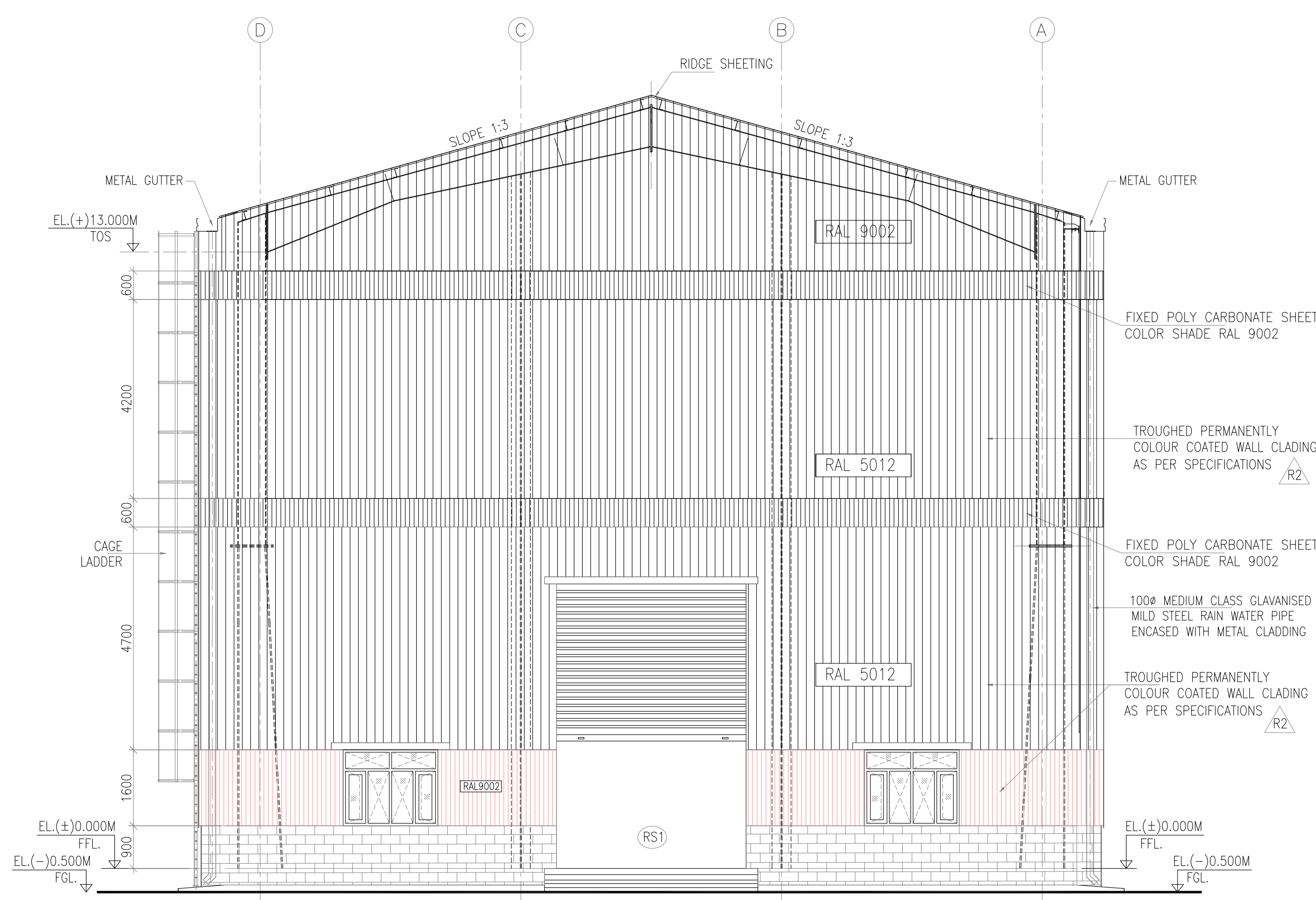
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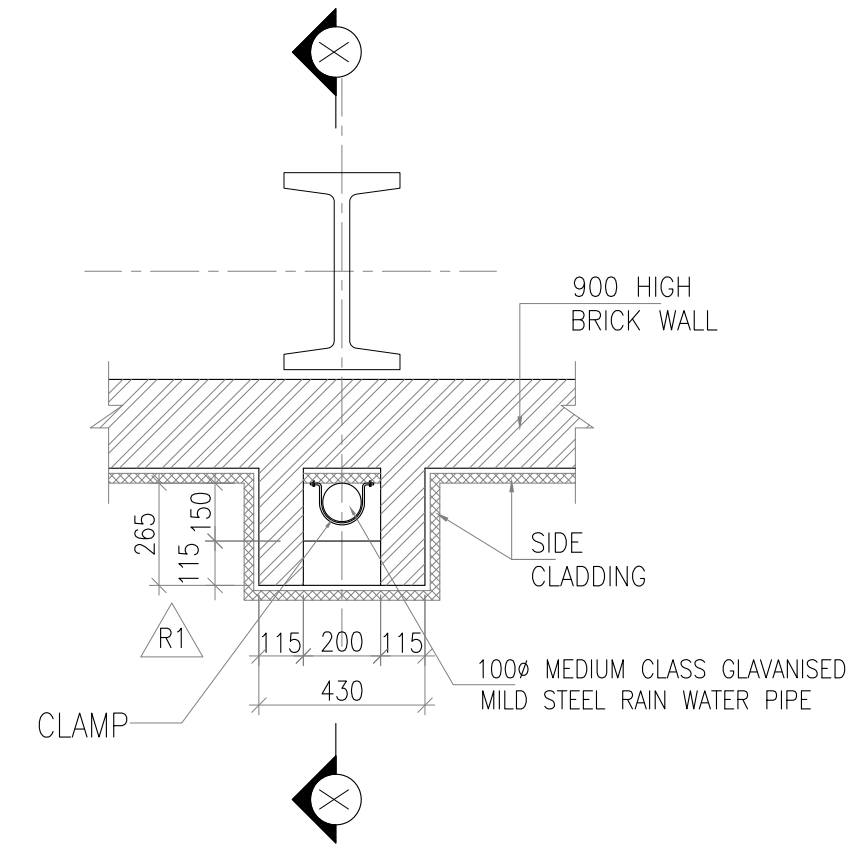
6947C-0249
DRAWING No. 9585-001-572-PVC-C-0249



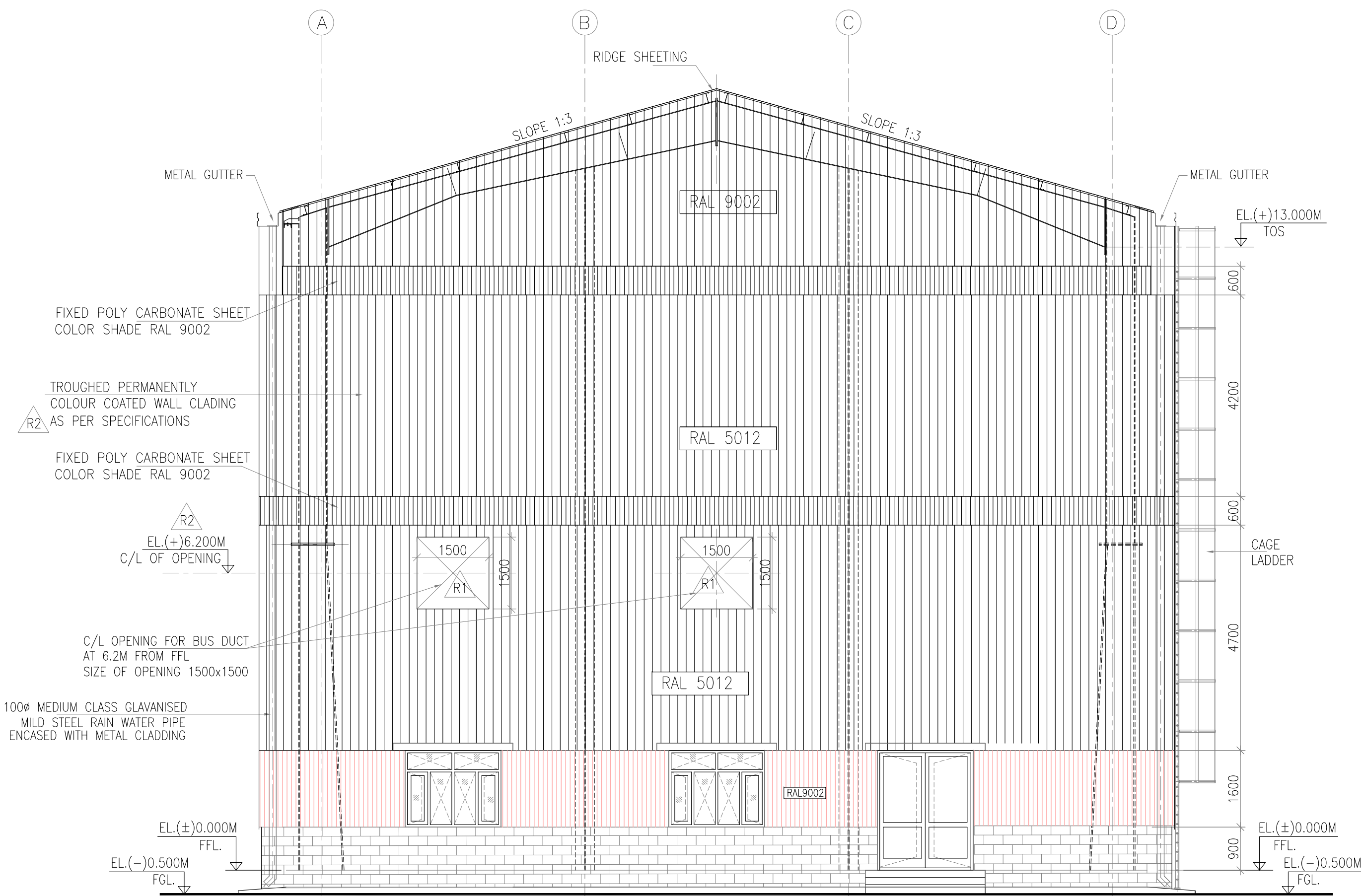
SECTION A-A



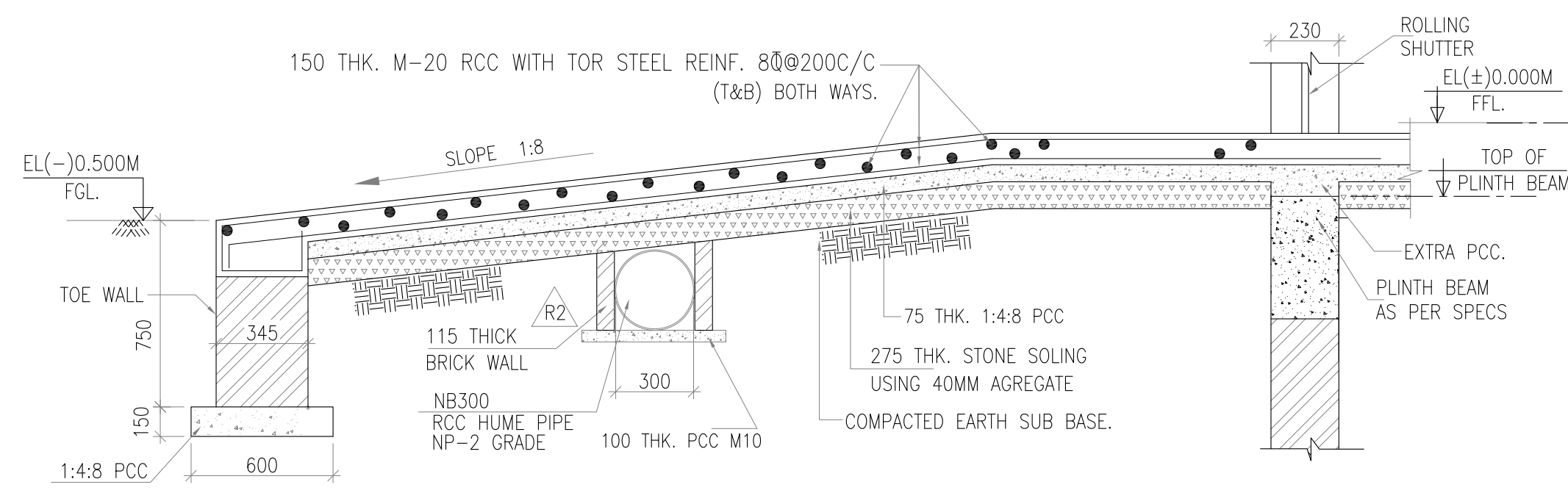
ELEVATION ALONG GRID-24



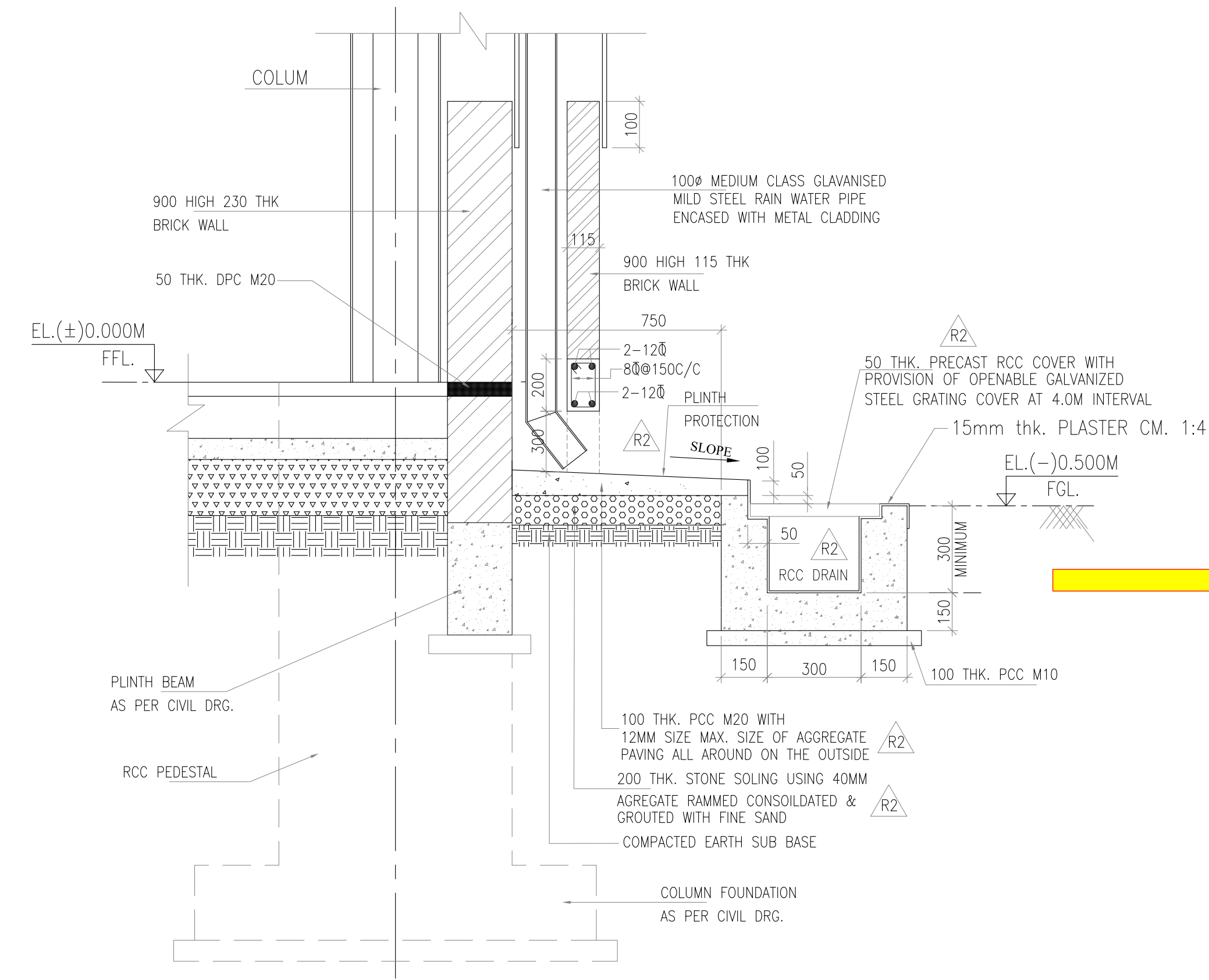
TYP. RWP FIXING DETAIL




ELEVATION ALONG GRID-1




DETAIL OF RAMP



PLINTH PROTECTION ALONG
BUILDING WITH DRAIN-TYPICAL
(SECTION X-X)

CA NO.																							
ADDITIONAL INFORMATION W.O.No.		आह्वान/परियोजना का नाम PATRATU VIDYUT UTPADAN NIGAM LTD. PATRATU SUPER THERMAL POWER PROJECT EXPANSION PHASE-I (3x800 MW)																					
STATUS OF DRAWING		NAME OF CUSTOMER/PROJECT																					
DISTRIBUTION OF PRINTS		<div><div><div>भारत हेवी इलेक्ट्रिकल्स लिमिटेड भारतीय भारी विद्युत निगम BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION</div></div><div><table><tr><td>कमाता DRAWN</td><td>नाम /NAME</td><td>हस्ता./SIGN.</td><td>दि./DATE</td></tr><tr><td>जांचा CHECKED</td><td>NS</td><td>VG</td><td>22-04-19</td></tr><tr><td>स्वीकृत APPROVED</td><td>RDU</td><td>BVG/PLK</td><td>22-04-19</td></tr></table></div></div>										कमाता DRAWN	नाम /NAME	हस्ता./SIGN.	दि./DATE	जांचा CHECKED	NS	VG	22-04-19	स्वीकृत APPROVED	RDU	BVG/PLK	22-04-19
कमाता DRAWN	नाम /NAME	हस्ता./SIGN.	दि./DATE																				
जांचा CHECKED	NS	VG	22-04-19																				
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REV.	DATE	DRN	TR	विभाग DEPT.	उत्पादित / SCALE	कॉड कोड CARD CODE	ड्राईंग.क./BHEL DRAWING NO.			पुनः/REV.													
R1	16.05.19	DESIGN CHECKED	TR DU/VG	कोड APPROVED	BVG/PLK/NTPC		TB-397-607-662			02													
ZONE	REVISED AS PER COMMENTS				शीटिंग/TITLE	ड्राईंग.क./NTPC DRAWING NO.			पुनः/REV.														
					GA & ARCHITECTURAL PLAN, ELEVATION AND DESIGN FOR 400 KV GIS BUILDING	9585-001-572-PVC-C-0249			02														
					पृष्ठ क./SHEET No.05	उगला पृष्ठ/NEXT SHEET --																	

PROJECT:	PATRATU SUPER THERMAL POWER STATION EXPANSION PHASE-I (3X800MW)	
CUSTOMER:	NTPC LIMITED	
	BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION	
UNIT:	400 KV GIS BUILDING - GA & ARCHITECTURAL PLAN, ELEVATION AND SECTION	
DRG. NO.:	9585-001-572-PVC-C-0249-01	R1

REPLY TO COMMENTS

Date: 11-12-2019

SL. NO.	Comments	Reply
1.	Also indicate details of steps in front of door	Incorporated.
2.	area of windows shall minimum 10% of floor area, show calculation	Total Floor Area = $120 \times 16.5 = 1980 \text{Sqm}$. 10% of Floor area = 198Sqm Area of window Provided = $47 \times 2 \times 1.6 = 150.4 \text{Sqm}$ Glazing has been increased by providing Polycarbonated cladding in elevation. $= 120 \times 0.6 \times 2 + 16.5 \times 0.6 \times 2 = 163.8 \text{Sqm}$ Total Glazing = $150.4 + 163.8 = 314.2 \text{Sqm}$ Hence window area provided is more than 10%.
3.	mark openings pertaining to ventilation system	Incorporated.
4.	It is not clear whether the roof sheeting is sandwich panel or Cladding sheet	Roof Sheeting is cladding sheet as per Technical specification clause no. 9.08.01.a.
5.	Provide minimum 0.6mm	As per clause No. 9.08.01.a, BHEL can provide 0.6mm with grade G250 or 0.4mm with grade G550 as per AS1397.
6.	It is not clear whether the roof sheeting is sandwich panel or Cladding sheet	Roof Sheeting is cladding sheet as per Technical specification clause no. 9.08.01.a.
7.	Also indicate the provisions for Ventilation in GIS Building.	Ventilation opening marked.
8.	window opening shall be 10% of the total built up area, show calculation	Refer Note Point No. 2.

SL. NO.	Comments	Reply
9.	indicate details properly	Incorporated.
10.	WALL CLADING	Incorporated.
11.	750	Incorporated.
12.	M20 with 12mm max. size of aggregate	Incorporated.
13.	RAMMED CONSOILDATED AND GROUTED WITH FINE SAND	Incorporated.
14.	50MM THK PRECAST RCC COVER WITH PROVISION OF OPENABLE GALVANIZED STEEL GRATING COVER AT 4.0M INTERVAL.	Incorporated.
15.	min. 300mm	Incorporated.
16.	RCC Drain with min. Wall Thickness 150mm. Also Indicate Edge Protection angle	Incorporated & marked in Drain layout and Section drawing.