

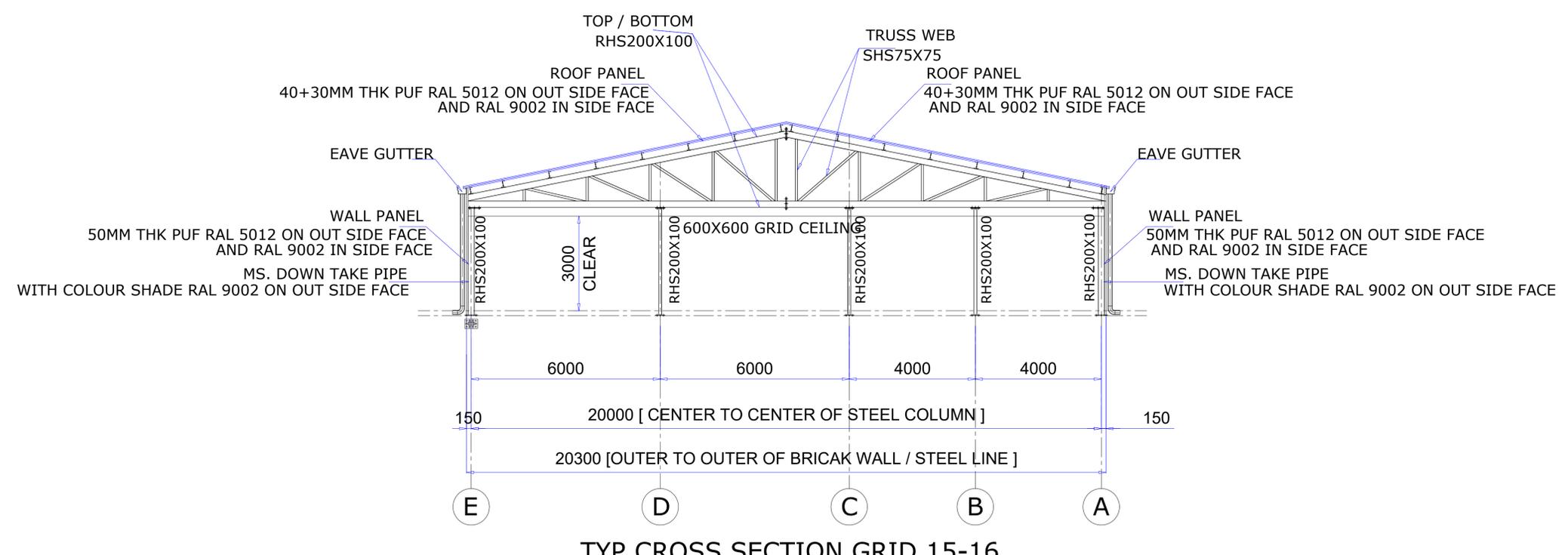
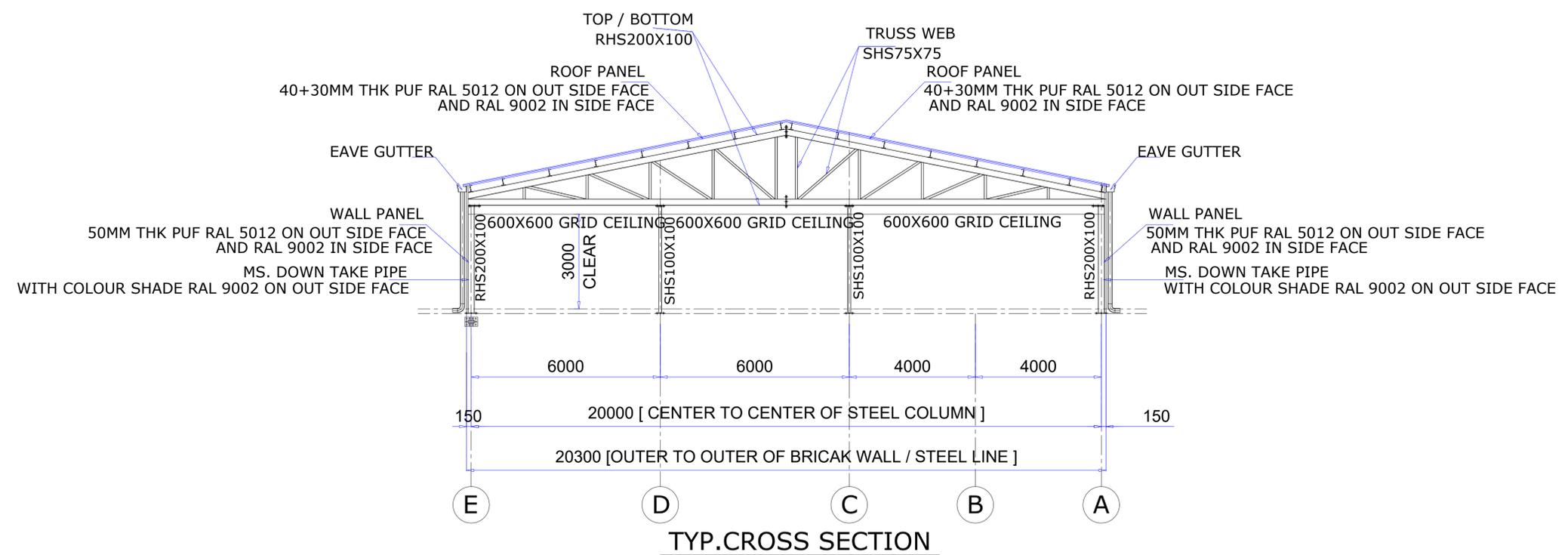
ANCHOR BOLT LAYOUT PLAN

Serial No.	Bolt Description	Bolt Dia.(mm)	H =Embedded Length(mm)	T = Thread Length(mm)	L=H+T (mm)	Bearing Plate Size 'PL-1' (mm)	Weld Size (S) (mm)	Anchor Bolt weight With Two nuts (kg,per pcs)	WASHER PLATE PROPERTIES		QTY.			
									Thickness(mm)	Hole Dia d (mm)				
1	AB 20x650	20	500	150	650	75x75x10	6	3.21	6	22	884			
ANCHOR BOLT-20mm DIA. -(10NOS) BASE PLATE-16MM. THK.			ANCHOR BOLT-20mm DIA. -(10NOS) BASE PLATE-16MM. THK.			ANCHOR BOLT-20mm DIA. -(8NOS) BASE PLATE-16MM. THK.								
<p>DETAIL-A</p>			<p>DETAIL-B</p>			<p>DETAIL-C</p>			<p>ANCHOR BOLT SETTING</p>			<p>TYP SECTION DETAIL</p>		

		1150-001-301-POC-C-1157 CUSTOMER DRAWING NO.	
		ग्राहक/CUSTOMER एन टी पी सी लिमिटेड N T P C LIMITED	
ड्राइंग नं./JOB NO. 512	प्रोजेक्ट/PROJECT CONTRACT	2x800 मेगावाट सिंगरौली थर्मल पावर परियोजना चरण-III 2x800MW SINGRAULI THERMAL POWER PROJECT STAGE-III	DEPT. PROJECT ENGINEERING MANAGEMENT
प्रिंटर/PRINT SCALE IN METRE 1:100	भारतीय भारी बिजली लिमिटेड BHARATI HEAVY ELECTRICALS LTD	पावर सेक्टर/POWER SECTOR	DEPT. HEAD PROJECT ENGINEERING MANAGEMENT
शीर्षक/TITLE OWNER'S CONSTRUCTION OFFICE- G.A AND DETAILS OF SUPER STRUCTURE			
प्रो. नं./SCALE PN-OWNER-OFF-02	ड्राइंग नं./DRAWING NO. PN-OWNER-OFF-02	शीट नं./SHEET 1 OF 1	प्रारंभिक/DATE 0

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कॉपी राइट एंड कॉन्फिडेंटियल/संपत्ति का अधिकार: भारत भारी बिजली लिमिटेड। इस दस्तावेज़ की जानकारी इस दस्तावेज़ के बिना लिखित अनुमति के किसी भी अन्य उद्देश्य के लिए उपयोग नहीं की जानी चाहिए।

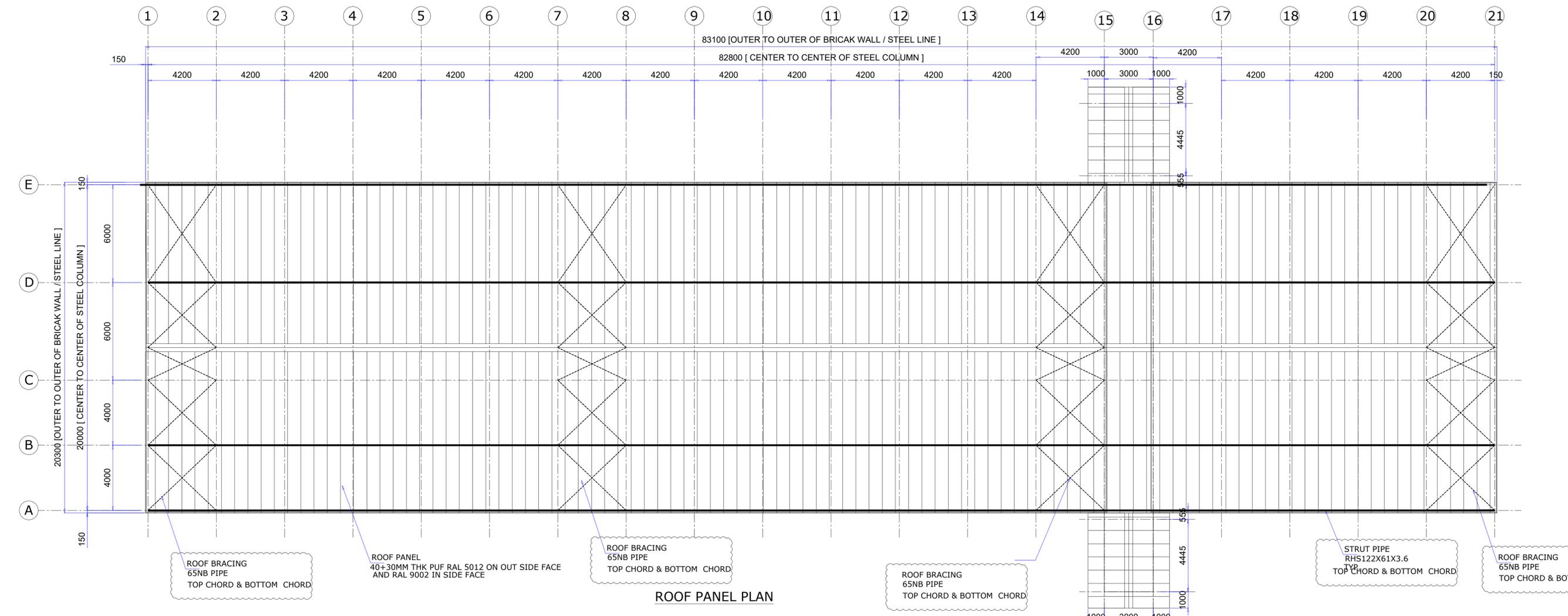


GIRT
Z-160X1.6 THK. @MAX1.5M C/C
WITH 2 NOS. SAG ROD EVERY BAY@10.8 MM DIA

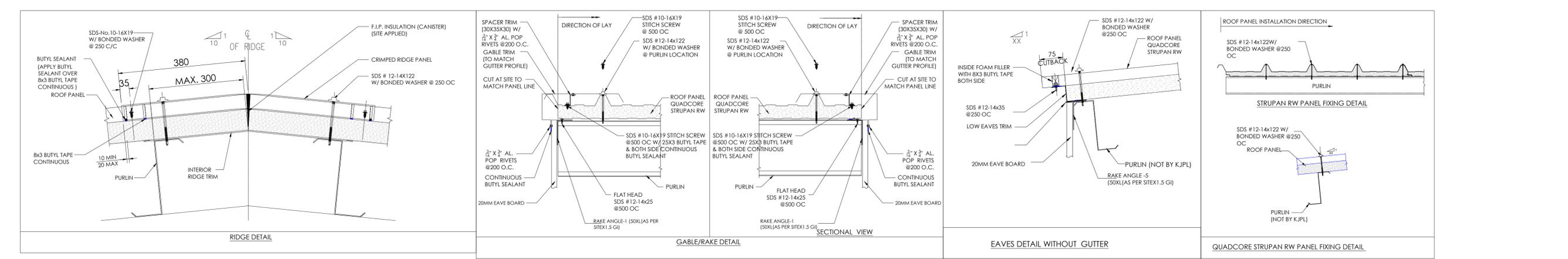
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Sl. No.	Scale	Revised	By	Date	Sl. No.	Scale	Revised	By	Date	Sl. No.	Scale	Revised	By	Date	Sl. No.	Scale	Revised	By	Date	Sl. No.	Scale	Revised	By	Date	

		1150-001-315-PVC-C-03 CUSTOMER DRAWING NO.	
		एन टी पी सी लिमिटेड N T P C LIMITED	
Job No. 512 Contract Project Name: 2x800W सिंगरावली थर्मल पावर परियोजना चरण-III 2x800MW सिंगरावली थर्मल पावर परियोजना चरण-III	Project Name: 2x800W सिंगरावली थर्मल पावर परियोजना चरण-III 2x800MW सिंगरावली थर्मल पावर परियोजना चरण-III	Dept. Code: X Design Name: BHARATI HEAVY ELECTRICALS LTD Project Engineering Management Project: सिंगरावली थर्मल पावर परियोजना चरण-III	Design Name: BHARATI HEAVY ELECTRICALS LTD Project Engineering Management Project: सिंगरावली थर्मल पावर परियोजना चरण-III
OWNER'S CONSTRUCTION OFFICE- G.A AND DETAILS OF SUPER STRUCTURE			
Scale: 1 OF 1 Sheet: 1 OF 1	Drawing No.: PN-OWNER-OFF-02	Date:	Rev: 0



ROOF PANEL PLAN



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ELECTRONIC FILE NAME :

		ग्राहक ड्राइंग संख्या / CUSTOMER DRAWING NO. 1150-001-315-PVC-C-05	
		ग्राहक/CUSTOMER एन टी पी सी लिमिटेड N T P C LIMITED	
डॉक नंबर / JOB NO. 512 ड्राइंग स्टेटस / DRAWING STATUS CONTRACT प्रिंटिंग स्केल / PRINT SCALE IN METRE	परियोजना प्रोजेक्ट / PROJECT 2x800MW सिंगावली थर्मल पावर परियोजना चरण-III 2x800MW SINGAROLI THERMAL POWER PROJECT STAGE-III	डिप्टी कोड / DEPT CODE BHARATI HEAVY ELECTRICALS LTD	डिप्टी नाम / DEPT NAME परियोजना अभियंता/प्रबंधन PROJECT ENGINEERING MANAGEMENT
शीर्षक/TITLE OWNER'S CONSTRUCTION OFFICE- G.A AND DETAILS OF SUPER STRUCTURE			
उपकरण / INSTRUMENT सिविल / CIVIL	परीक्षण / TESTING इलेक्ट्रिकल / ELECTRIC	डिजाइन / DESIGN सी.ए. / C&I	अनुमोदन / APPROVAL मैक्सिमम / MAX
ड्राइंग नंबर / DRAWING NO. PN-OWNER-OFF-02		कुल शीट / कुल शीट / TOTAL SHEET / TOTAL SHEET 1 OF 1	
तारीख / DATE 22.11.2024		तारीख / DATE 22.11.2024	



OWNER &
CONSULTANT:

NTPC LIMITED



EPC CONTRACTOR:

BHARAT HEAVY ELECTRICALS LIMITED,
POWER SECTOR.

Sub-contractor

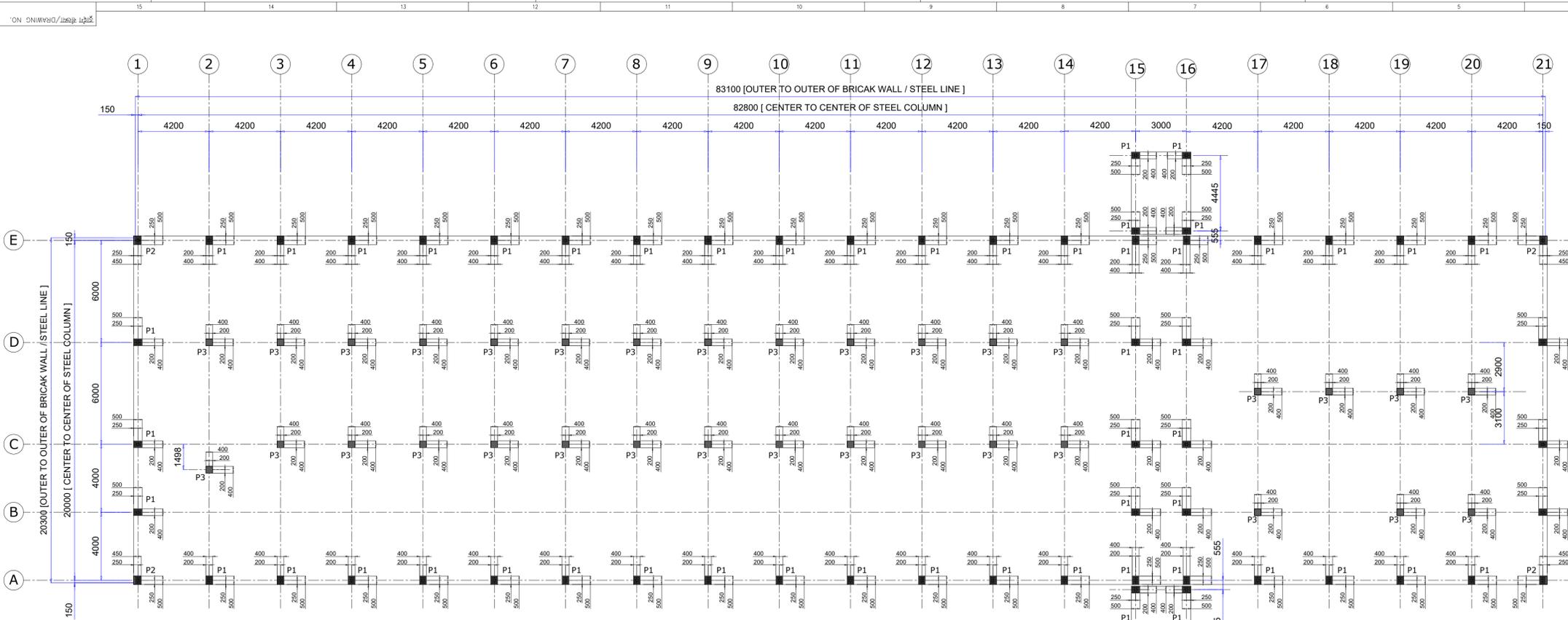
EDGE TELECOM PRIVATE LIMITED.

**SINGRAULI SUPER THERMAL POWER PROJECT
STAGE-III (2X800MW)**

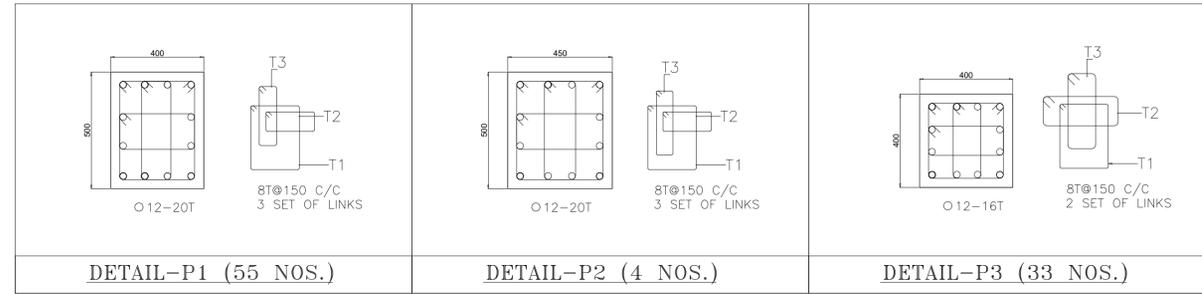
OWNER'S CONSTRUCTION OFFICE- G.A AND DETAILS OF FOUNDATION

BHEL DOCUMENT NUMBER: PN-OWNER-OFF-03

NTPC DOCUMENT NUMBER: 1150-001-301-POC-C-1157



PEDESTAL LAYOUT PLAN



GRADE OF CONC. : M25
SOIL BEARING CAPACITY = 120KN/M

(A) GENERAL NOTES:
ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES (UNLESS NOTED OTHERWISE). ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED. THE DRAWINGS SHALL NOT BE SCALED. ALL STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL DISCREPANCY IN DRAWINGS IF ANY SHALL BE BROUGHT TO THE NOTICE OF THE DESIGN OFFICE PRIOR TO CONSTRUCTION. EXECUTION OF R.C.C. WORKS/STRUCTURAL STEEL WORK AS PER OUR DRAWINGS SHALL BE THE RESPONSIBILITY OF SITE ENGINEER.

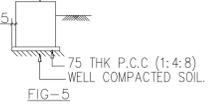
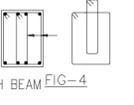
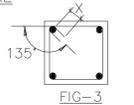
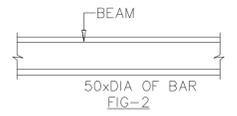
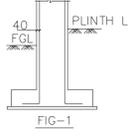
(B) SPECIFICATION NOTES FOR R.C.C. WORK:
PPC SHALL BE USED FOR ALL CONCRETE WORKS UNLESS OTHERWISE NOTED.
(GRADE OF CONCRETE)
M25 CONCRETE FOR ALL WORKS AS SPECIFIED ON DRAWING. MIX(1:1.4:8) M7.5 FOR P.C.C WORK OR AS MENTIONED ON RESPECTIVE DRAWING.
(REINFORCING STEEL)
ALL REINFORCING STEEL SHALL BE HIGH YIELD STRENGTH DEFORMED BARS CONFORMING TO GRADE Fe 500. FOR BEAM WIDTH OF 150/175 NOT MORE THAN 2 BARS SHALL BE PLACED IN ONE LAYER. FOR BEAM WIDTH OF 230 NOT MORE THAN 3 BARS SHALL BE PLACED IN ONE LAYER.
(CLEAR COVER TO MAIN REINFORCEMENT)
UNLESS SHOWN OTHERWISE MIN. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
1. FOR FOUNDATION :-
BOTTOM 75mm.
TOP/SIDES 50mm.
2. FOR COLUMN SIDES 40mm
3. FOR BEAMS TOP/BOTTOM/SIDES 30mm
4. PLITH BEAMS TOP/BOTTOM/SIDES 30mm
5. PLITH BEAMS SIDES 40mm FOR THE FACES COMING IN CONTACT WITH SOIL.
6. SLAB 25mm

(LAP LENGTH OR DEVELOPMENT LENGTH FOR DEFORMED BARS SHALL BE AS FOLLOWS)
CONCRETE GRADE M 25 - 50xDIA OF BAR.
PLAIN M.S BARS - 55xDIA OF BAR.
NOT MORE THAN 50% BARS SHALL BE SPLICED AT A SECTION. (LOCATION OF SPLICE SHALL BE DECIDED IN CONSULTATION WITH SITE ENGINEER & PRIOR APPROVAL OF DESIGN OFFICE).
(ANCHORAGE LENGTH REINFORCEMENT IN BEAM)
ANCHORAGE FOR REINFORCEMENT OF BARS IN BEAMS SHALL BE AS PER FIG-2.

(SHEAR REINFORCEMENT IN BEAMS & LATERAL i.e. RINGS IN BEAMS & COLUMNS.
(X = 10xDIA OF BAR)
RINGS IN COLUMN SHALL BE PROVIDED THROUGHOUT THE LENGTH OF THE COLUMN, INCLUDING BEAM- COLUMN JUNCTIONS. PLACEMENT OF SHEAR REINFORCEMENT IN BEAMS AT ITS SUPPORTED END SHALL START NOT FARTHER THAN 50MM FROM FACE OF SUPPORT.
WHERE MORE THAN ONE SET OF RINGS ARE REQUIRED IN BEAMS & COLUMNS, ONE OF THE RINGS SHALL GO ROUND ALL CORNERS AS SHOWN IN FIG-4.

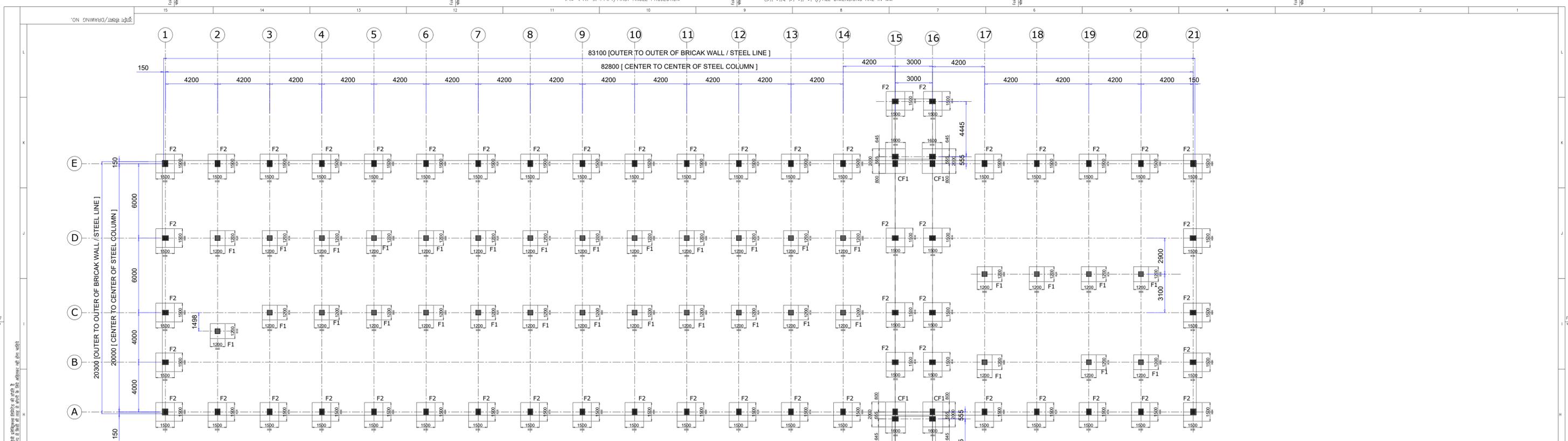
(GENERAL)
WHENEVER PLINTH BEAMS ARE TO BE CAST WITHOUT BOTTOM SHUTTERING P.C.C SHALL BE PROVIDED BELOW PLINTH BEAMS AS SHOWN IN FIG-5.

(C) SOIL IN FOUNDATION BE FILLED IN LAYERS OF 25MM THICK OPTIMALLY COMPACTED
(D) SBC CONSIDERED 12T/M2 AT FOUNDATION LEVEL & SEISMIC ZONE -2
(E) F.F.L.- FINISH FLOOR LEVEL
N.G.L.-NATUREL GROUND LEVEL
(F) Ld=50 X DIA OF BAR

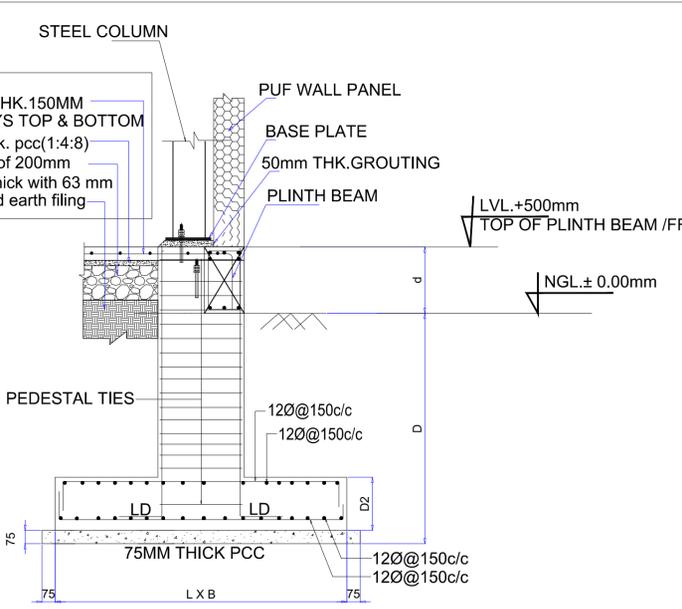


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		1150-001-301-POC-C-1157 CUSTOMER DRAWING NO.	
		एन टी पी सी लिमिटेड N T P C LIMITED	
कार्य संख्या JOB NO. 512	प्रोजेक्ट PROJECT CONTRACT	2x800 मेगावाट सिंगरावली थर्मल पावर परियोजना चरण-III 2x800MW SINGRAULI THERMAL POWER PROJECT STAGE-III	
मुद्रा लेख और वेब PRINT SCALE IN METRE		भारत हेवी इलेक्ट्रिकल्स लिमिटेड BHARATI HEAVY ELECTRICALS LTD पावर एनर्जी पावर सेक्टर परियोजना अभियंता/प्रबंधन PROJECT ENGINEERING MANAGEMENT नॉटिफ (एन/एन/आर) (U.P.)	DEPT CODE डिजाइन/DESIGN ड्राइंग/DRW अनुमोदन/APP अनुमोदन/APP
शीट/सं./TITLE OWNER'S CONSTRUCTION OFFICE- G A AND DETAILS OF FOUNDATION			
कार्यालय MPL	सिविल CIVIL	विद्युत ELEC	ड्राइंग संख्या / DRAWING NO. PN-OWNER-OFF-03
डिजाइन DATE	चेक DATE	एंगेज DATE	ड्राइंग संख्या / DRAWING NO. PN-OWNER-OFF-03 शीट SHEET 1 OF 1 पुस्तक REV. 0



FOUNDATION LAYOUT PLAN



TYPICAL SECTION
MARK IN FOUNDATION LAYOUT PLAN

SCHEDULE OF FOOTINGS

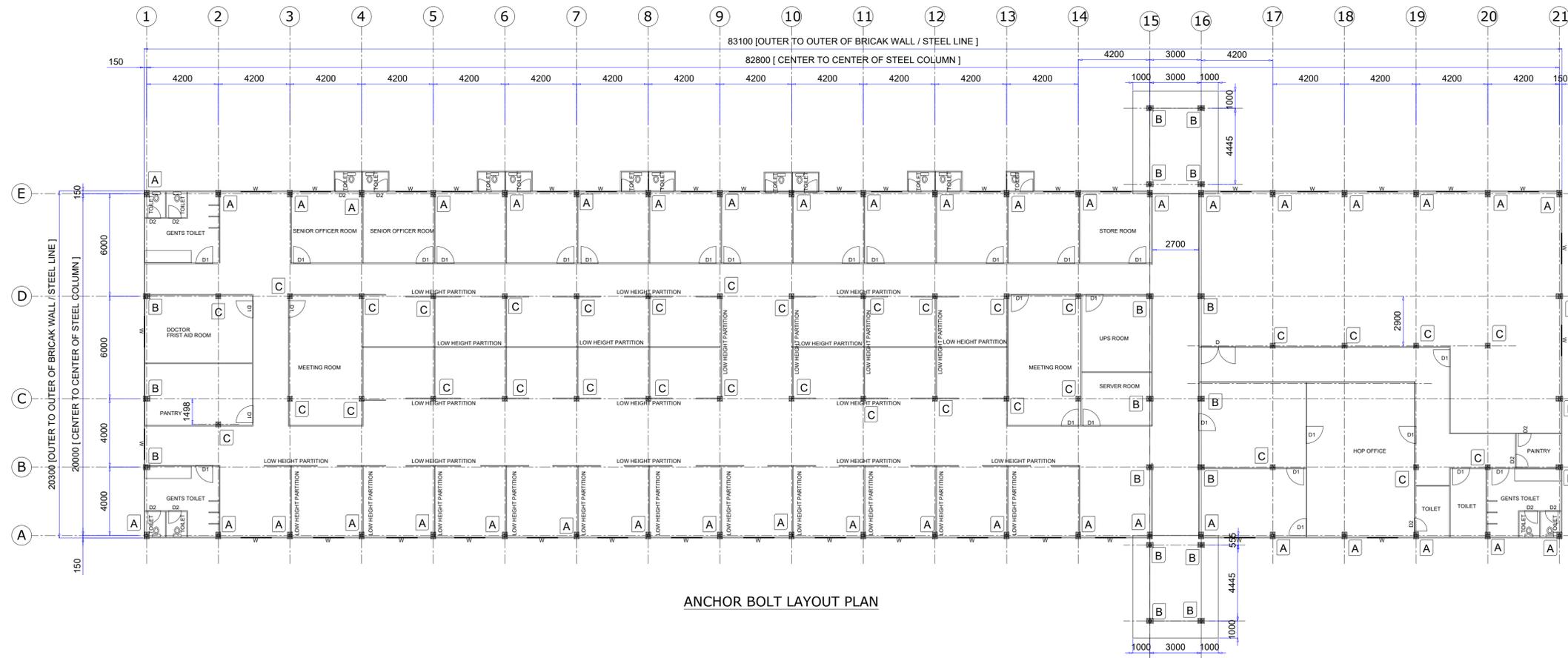
Sl.No.	FOOTING TYPE	SIZE (L x Ly)	BOTTOM REBAR		TOP REBAR		PAD DEPTH	FOUNDATION DEPTH	PEDESTAL TOP LEVEL HEIGHT FROM NGL
			X	Y	X	Y			
1	F-1	1200 x 1200	12Ø@150C/C	12Ø@150C/C	12Ø@150C/C	12Ø@150C/C	300	1500	+500
2	F-2	1500 x 1500	12Ø@150C/C	12Ø@150C/C	12Ø@150C/C	12Ø@150C/C	350	1500	+500
3	CF1	1600 x 2000	12Ø@150C/C	12Ø@150C/C	12Ø@150C/C	12Ø@150C/C	350	1500	+500

GRADE OF CONC. : M25
SOIL BEARING CAPACITY = 120KN/M

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		1150-001-301-POC-C-1157 CUSTOMER DRAWING NO.	
		OWNER/CUSTOMER एन टी सी लिमिटेड N T P C LIMITED	
ड्राइंग नंबर / JOB NO. 512	परियोजना PROJECT 2x800MW सिंगावली थर्मल पावर परियोजना चरण-III 2x800MW SINGRAULI THERMAL POWER PROJECT STAGE-III	भारत भारी इलेक्ट्रिकल्स लिमिटेड BHARATI HEAVY ELECTRICALS LTD	DEPT CODE X
ड्राइंग स्थिति / DRAWING STATUS CONTRACT	परियोजना प्रबंधन / PROJECT ENGINEERING MANAGEMENT भारत भारी इलेक्ट्रिकल्स लिमिटेड BHARATI HEAVY ELECTRICALS LTD	पावर सेक्टर / POWER SECTOR	डिप्टी प्रोजेक्ट मैनेजर / DEPT. HEAD NAME SIGNATURE DATE
प्रिंटिंग / PRINT SCALE IN METRE 1:100	प्रिंटिंग / PRINT SCALE IN METRE 1:100	प्रिंटिंग / PRINT SCALE IN METRE 1:100	प्रिंटिंग / PRINT SCALE IN METRE 1:100
शीर्षक / TITLE OWNER'S CONSTRUCTION OFFICE- G.A AND DETAILS OF FOUNDATION			
डिप्टी प्रोजेक्ट मैनेजर / DEPT. HEAD NAME SIGNATURE DATE	डिप्टी प्रोजेक्ट मैनेजर / DEPT. HEAD NAME SIGNATURE DATE	डिप्टी प्रोजेक्ट मैनेजर / DEPT. HEAD NAME SIGNATURE DATE	डिप्टी प्रोजेक्ट मैनेजर / DEPT. HEAD NAME SIGNATURE DATE
ड्राइंग नंबर / DRAWING NO. PN-OWNER-OFF-03		ड्राइंग संख्या / DRAWING NO. PN-OWNER-OFF-03	
शीट / SHEET 1 OF 1		शीट / SHEET 1 OF 1	
तारीख / DATE Nov 25, 2024 - 8:42pm		तारीख / DATE Nov 25, 2024 - 8:42pm	

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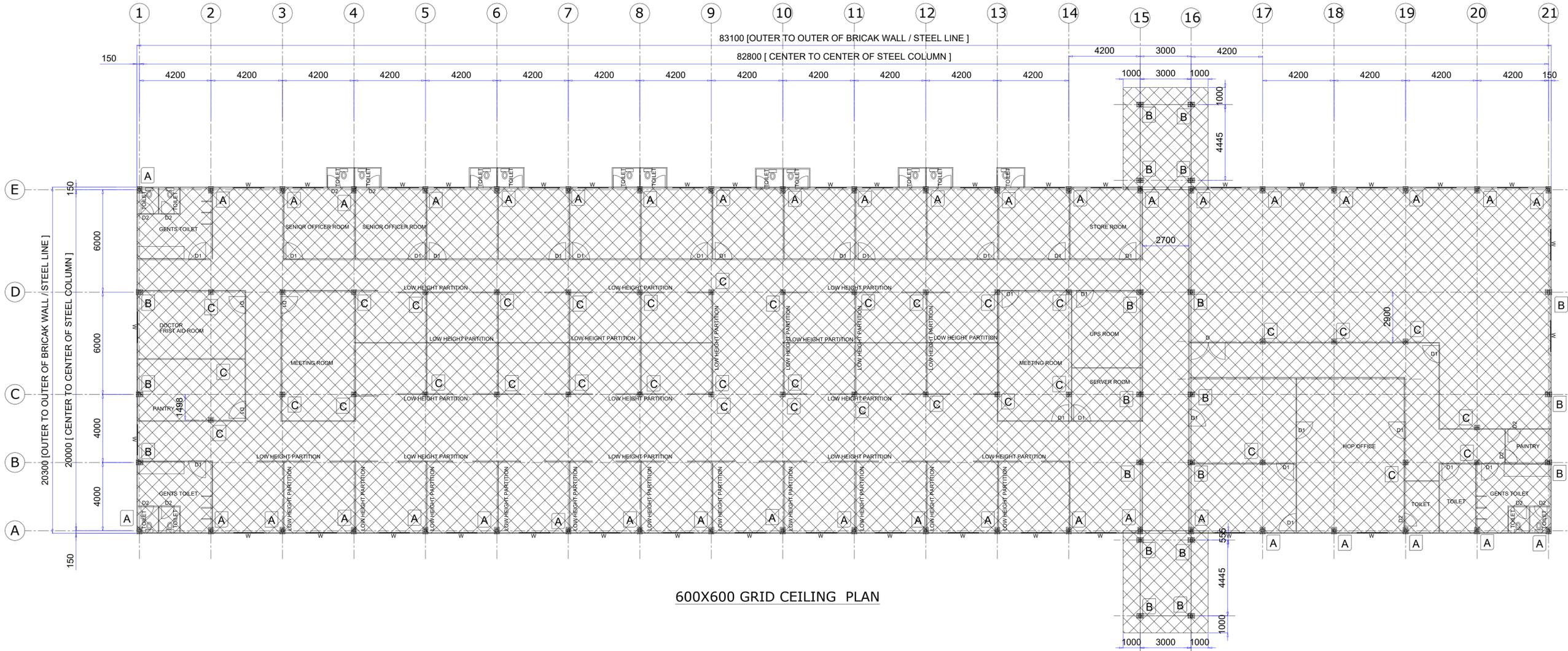


ANCHOR BOLT LAYOUT PLAN

Serial No.	Bolt Description	Bolt Dia.(mm)	H =Embedded Length(mm)	T = Thread Length(mm)	L=H+T (mm)	Bearing Plate Size 'PL-1' (mm)	Weld Size (S) (mm)	Anchor Bolt weight With Two nuts (kg,per pcs)	WASHER PLATE PROPERTIES		QTY.			
									Thickness(mm)	Hole Dia d (mm)				
1	AB 20x650	20	500	150	650	75x75x10	6	3.21	6	22	884			
ANCHOR BOLT-20mm DIA. -(10NOS) BASE PLATE-16MM. THK.			ANCHOR BOLT-20mm DIA. -(10NOS) BASE PLATE-16MM. THK.			ANCHOR BOLT-20mm DIA. -(8NOS) BASE PLATE-16MM. THK.								
<p>DETAIL-A</p>			<p>DETAIL-B</p>			<p>DETAIL-C</p>			<p>ANCHOR BOLT SETTING</p>			<p>TYP SECTION DETAIL</p>		

		1150-001-301-POC-C-1157 CUSTOMER DRAWING NO.	
		OWNER'S/CUSTOMER एन टी पी सी लिमिटेड N T P C LIMITED	
Job No. 512 Status CONTRACT Scale 1:50 Date 22.11.2024	Project भारत भारती लिमिटेड BHARATI HEAVY ELECTRICALS LTD पावर सेक्टर / POWER SECTOR PROJECT ENGINEERING MANAGEMENT गौतम (3-फ़ेज) / NOIDA (U.P.)	Dept. ELEC Project Name 2x800MW सिंगरावली थर्मल पावर परियोजना चरण-III 2x800MW SINGRAULI THERMAL POWER PROJECT STAGE-III	Rev. No. 01 Rev. Date Scale Date
OWNER'S CONSTRUCTION OFFICE- G.A AND DETAILS OF SUPER STRUCTURE PN-OWNER-OFF-02			

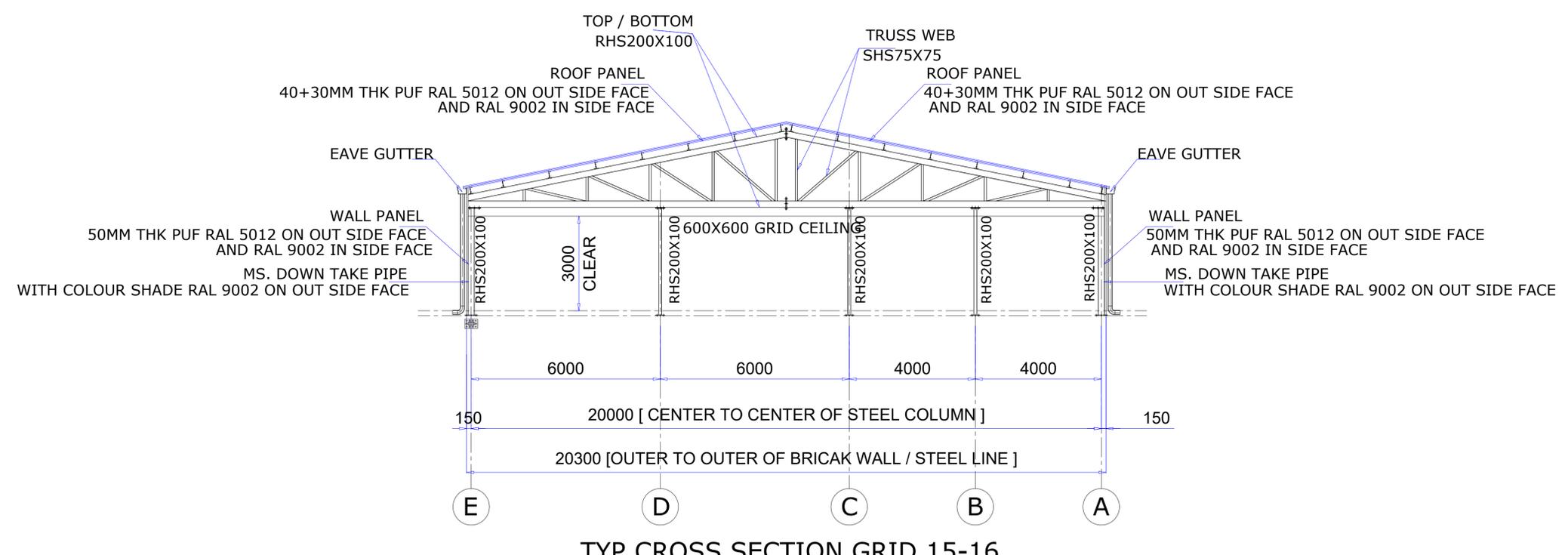
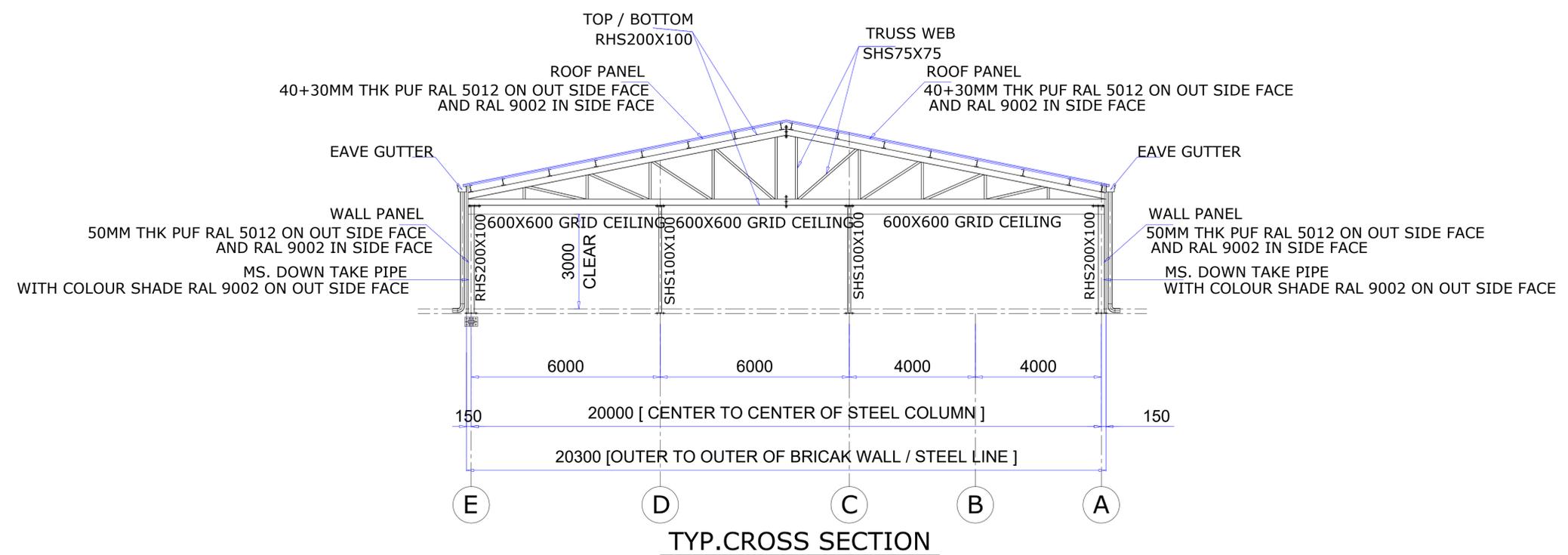
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600X600 GRID CEILING PLAN

		1150-001-315-PVC-C-02 CUSTOMER DRAWING NO.	
		एन टी सी लिमिटेड N T P C LIMITED	
512 CONTRACT	2x800 MW सिंगरौली थर्मल पावर परियोजना चरण-III 2x800MW SINGRAULI THERMAL POWER PROJECT STAGE-III	DEPT NAME DATE	DEPT NAME DATE
BHARATI HEAVY ELECTRICALS LTD पावर सेक्टर / POWER SECTOR PROJECT ENGINEERING MANAGEMENT नोएडा (उ.प्र.)/NOIDA (U.P.)	DEPT NAME DATE	DEPT NAME DATE	DEPT NAME DATE
OWNER'S CONSTRUCTION OFFICE- G A AND DETAILS OF SUPER STRUCTURE			
1 OF 1	1 OF 1	0	0

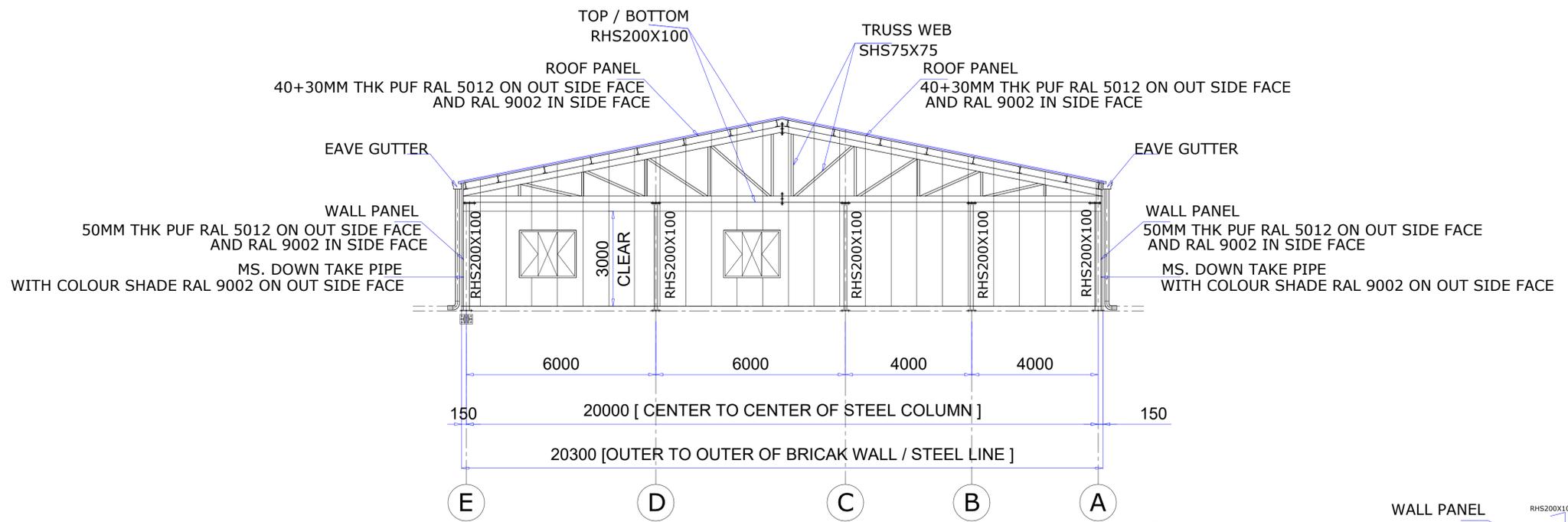


GIRT
Z-160X1.6 THK.@MAX1.5M C/C
WITH 2 NOS. SAG ROD EVERY BAY@10.8 MM DIA

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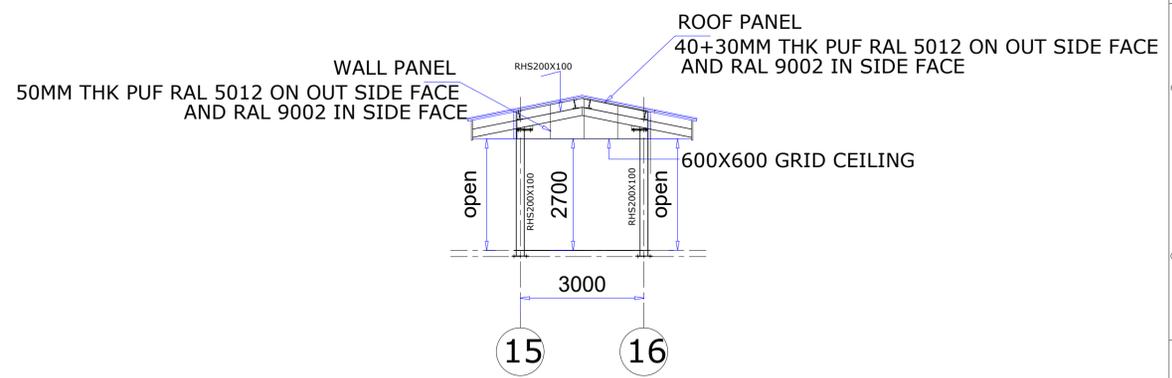
Sl. No.	Scale	Revised	By	Date	Sl. No.	Scale	Revised	By	Date	Sl. No.	Scale	Revised	By	Date	Sl. No.	Scale	Revised	By	Date	

		1150-001-315-PVC-C-03 CUSTOMER DRAWING NO.	
		एन टी पी सी लिमिटेड N T P C LIMITED	
Job No. 512 Contract Scale: 1:10, 1:20, 1:40, 1:80	Project: 2x800W सिंगरावली थर्मल पावर परियोजना चरण-III 2x800MW सिंगरावली थर्मल पावर परियोजना चरण-III	Dept. Code: X Design: [] Check: [] Approved: []	Client: भारत हेवी इलेक्ट्रिकल्स लिमिटेड भारत हेवी इलेक्ट्रिकल्स लिमिटेड भारतीय बिजली क्षेत्र PROJECT ENGINEERING MANAGEMENT नई दिल्ली (एन/एन/एन) (U.P.)
OWNER'S CONSTRUCTION OFFICE- G.A AND DETAILS OF SUPER STRUCTURE			
Scale: 1:10, 1:20, 1:40, 1:80	Drawing No. PN-OWNER-OFF-02	Sheet 1 OF 1	Revision 0

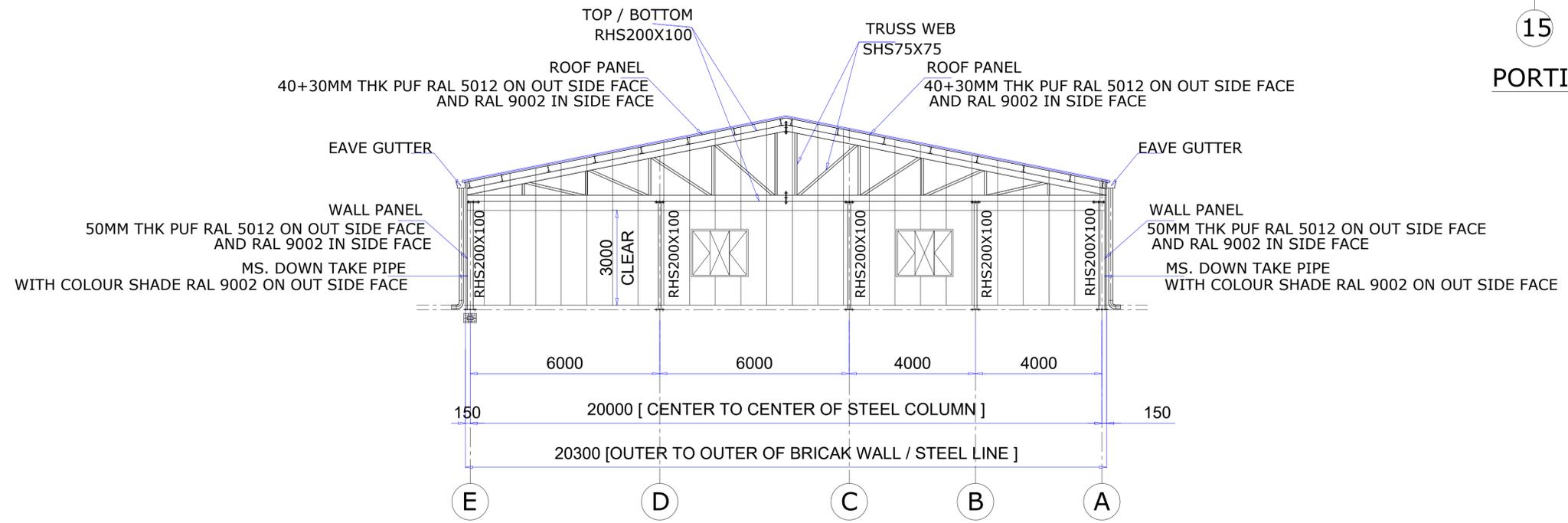


END WALL ELEVATION GRID 21

GIRT
Z-160X1.6 THK @ MAX 1.5M C/C
WITH 2 NOS. SAG ROD EVERY BAY @ 10.8 MM DIA



PORTICO SECTION

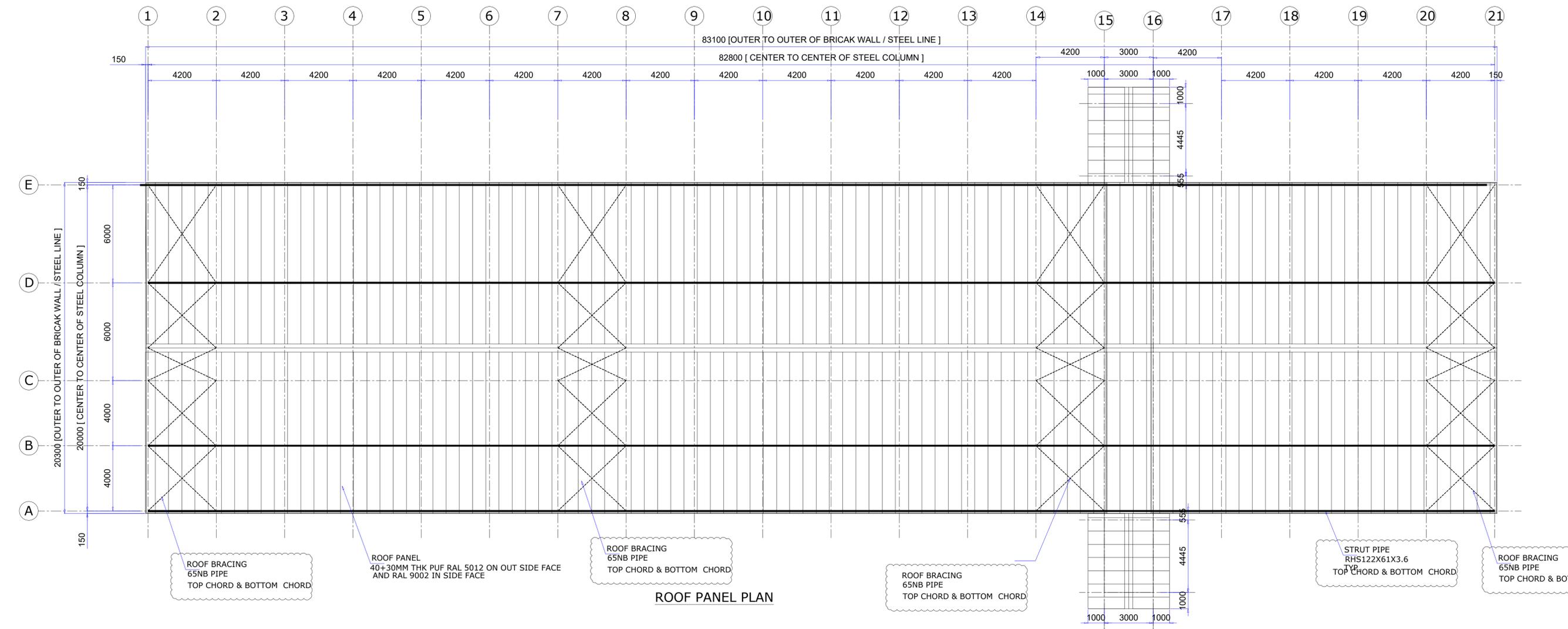


END WALL ELEVATION GRID 1

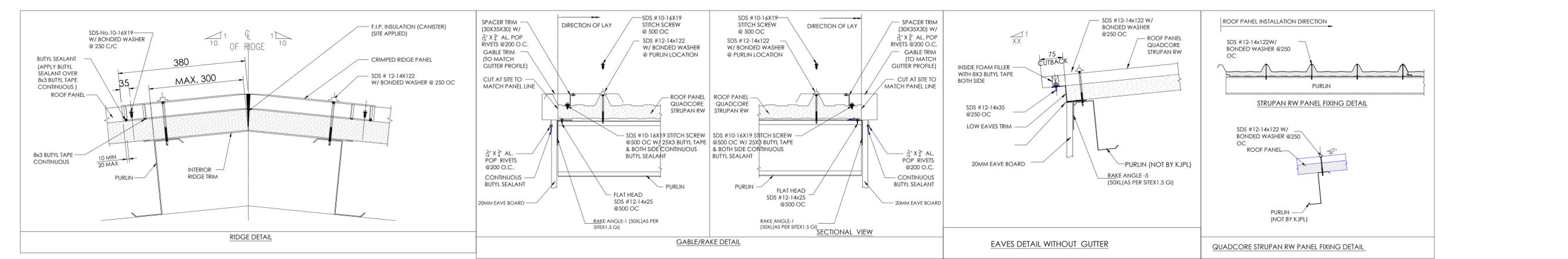
GIRT
Z-160X1.6 THK @ MAX 1.5M C/C
WITH 2 NOS. SAG ROD EVERY BAY @ 10.8 MM DIA

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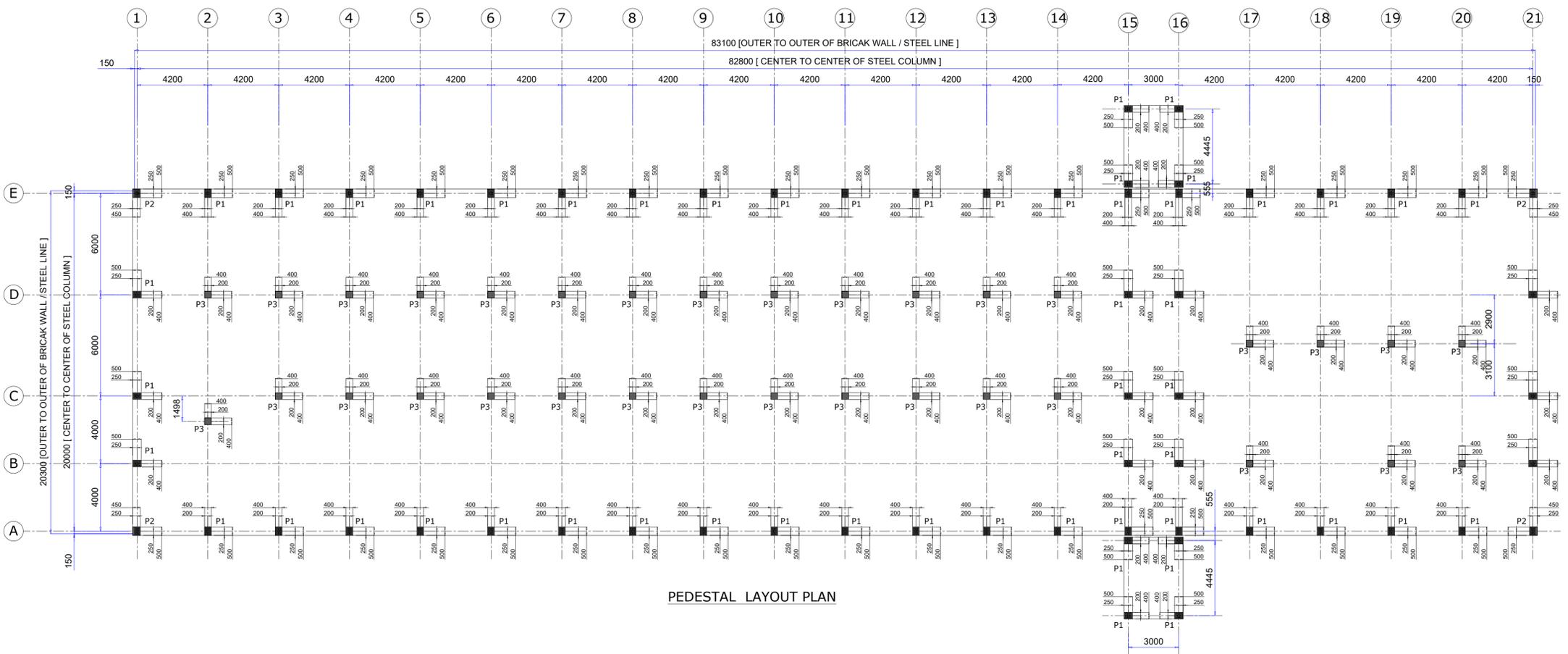
SHEET NO. 02 OF 01 DATE: 22.11.2024		PROJECT: 2x800MW SINGRAULI THERMAL POWER PROJECT STAGE-III DEPT: POWER SECTOR		CUSTOMER: NTPC LIMITED PROJECT: 2x800MW SINGRAULI THERMAL POWER PROJECT STAGE-III	
DRAWN BY: [Signature] CHECKED BY: [Signature]		PROJECT ENGINEERING MANAGEMENT NOIDA (U.P.)		OWNER'S CONSTRUCTION OFFICE- G.A AND DETAILS OF SUPER STRUCTURE SCALE: 1 OF 1	



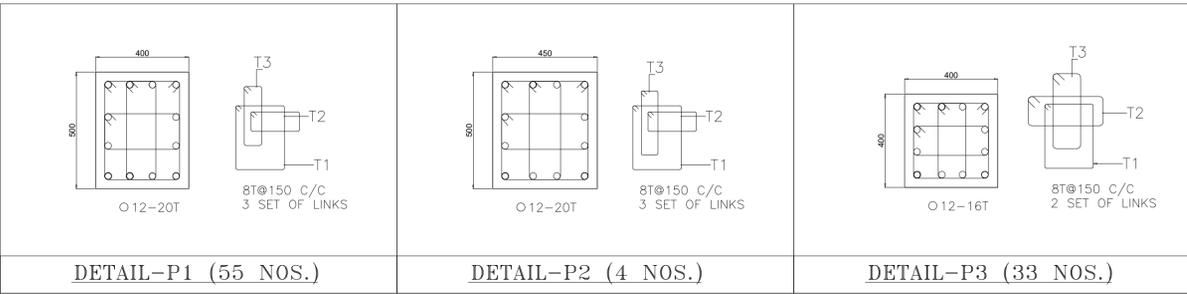
ROOF PANEL PLAN



		ग्राहक ड्राइंग संख्या / CUSTOMER DRAWING NO. 1150-001-315-PVC-C-05	
		ग्राहक/CUSTOMER एन टी पी सी लिमिटेड N T P C LIMITED	
डॉक नंबर / JOB NO. 512 ड्राइंग स्टेटस / DRAWING STATUS CONTRACT प्रिंट स्केल / PRINT SCALE IN METRE	परियोजना / PROJECT 2x800MW सिंगावरी थर्मल पावर परियोजना चरण-III 2x800MW SINGAURI THERMAL POWER PROJECT STAGE-III	डिप्टी / DEPT. भारत हीवी इलेक्ट्रिकल्स लिमिटेड BHARATI HEAVY ELECTRICALS LTD	ड्राइंग / DRAWING NO. PN-OWNER-OFF-02
प्रो. / PROJECT पावर सेक्टर / POWER SECTOR PROJECT ENGINEERING MANAGEMENT		डिप्टी / DEPT. भारत हीवी इलेक्ट्रिकल्स लिमिटेड BHARATI HEAVY ELECTRICALS LTD	ड्राइंग / DRAWING NO. PN-OWNER-OFF-02
शीर्षक / TITLE OWNER'S CONSTRUCTION OFFICE- G.A AND DETAILS OF SUPER STRUCTURE			
उपकरण / INSTRUMENT MPL	त्रिभुज / TRIANGLE CIVIL	ड्राइंग / DRAWING NO. PN-OWNER-OFF-02	ड्राइंग / DRAWING NO. PN-OWNER-OFF-02
ड्राइंग / DRAWING NO. PN-OWNER-OFF-02	ड्राइंग / DRAWING NO. PN-OWNER-OFF-02	ड्राइंग / DRAWING NO. PN-OWNER-OFF-02	ड्राइंग / DRAWING NO. PN-OWNER-OFF-02



PEDESTAL LAYOUT PLAN

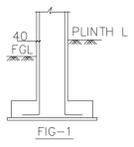


GRADE OF CONC. : M25
SOIL BEARING CAPACITY = 120KN/M

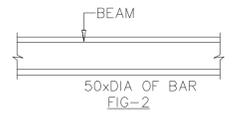
(A) GENERAL NOTES:
ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES (UNLESS NOTED OTHERWISE). ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED. THE DRAWINGS SHALL NOT BE SCALED. ALL STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL DISCREPANCY IN DRAWINGS IF ANY SHALL BE BROUGHT TO THE NOTICE OF THE DESIGN OFFICE PRIOR TO CONSTRUCTION. EXECUTION OF R.C.C. WORKS/STRUCTURAL STEEL WORK AS PER OUR DRAWINGS SHALL BE THE RESPONSIBILITY OF SITE ENGINEER.

(B) SPECIFICATION NOTES FOR R.C.C WORK:
PPC SHALL BE USED FOR ALL CONCRETE WORKS UNLESS OTHERWISE NOTED.
(GRADE OF CONCRETE)
M25 CONCRETE FOR ALL WORKS AS SPECIFIED ON DRAWING. MIX(1:1.4:8) M7.5 FOR P.C.C WORK OR AS MENTIONED ON RESPECTIVE DRAWING.
(REINFORCING STEEL)
ALL REINFORCING STEEL SHALL BE HIGH YIELD STRENGTH DEFORMED BARS CONFORMING TO GRADE Fe 500. FOR BEAM WIDTH OF 150/175 NOT MORE THAN 2 BARS SHALL BE PLACED IN ONE LAYER. FOR BEAM WIDTH OF 230 NOT MORE THAN 3 BARS SHALL BE PLACED IN ONE LAYER.

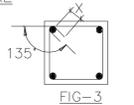
(CLEAR COVER TO MAIN REINFORCEMENT)
UNLESS SHOWN OTHERWISE MIN. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
1. FOR FOUNDATION :-
BOTTOM 75mm.
TOP/SIDES 50mm.
2. FOR COLUMN SIDES 40mm.
3. FOR BEAMS TOP/BOTTOM/SIDES 30mm.
4. PLITH BEAMS TOP/BOTTOM/SIDES 30mm.
5. PLITH BEAMS SIDES 40mm FOR THE FACES COMING IN CONTACT WITH SOIL.
6. SLAB 25mm.



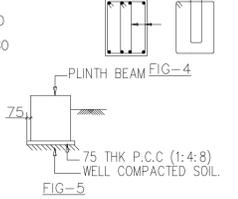
(LAP LENGTH OR DEVELOPMENT LENGTH FOR DEFORMED BARS SHALL BE AS FOLLOWS)
CONCRETE GRADE M 25 - 50xDIA OF BAR.
PLAIN M.S BARS - 55xDIA OF BAR.
NOT MORE THAN 50% BARS SHALL BE SPLICED AT A SECTION. (LOCATION OF SPLICE SHALL BE DECIDED IN CONSULTATION WITH SITE ENGINEER & PRIOR APPROVAL OF DESIGN OFFICE).
(ANCHORAGE LENGTH REINFORCEMENT IN BEAM)



ANCHORAGE FOR REINFORCEMENT OF BARS IN BEAMS SHALL BE AS PER FIG-2.
(SHEAR REINFORCEMENT IN BEAMS & LATERAL i.e. RINGS IN BEAMS & COLUMNS.
(X = 10xDIA OF BAR)
RINGS IN COLUMN SHALL BE PROVIDED THROUGHOUT THE LENGTH OF THE COLUMN, INCLUDING BEAM- COLUMN JUNCTIONS. PLACEMENT OF SHEAR REINFORCEMENT IN BEAMS AT ITS SUPPORTED END SHALL START NOT FARTHER THAN 50MM FROM FACE OF SUPPORT.

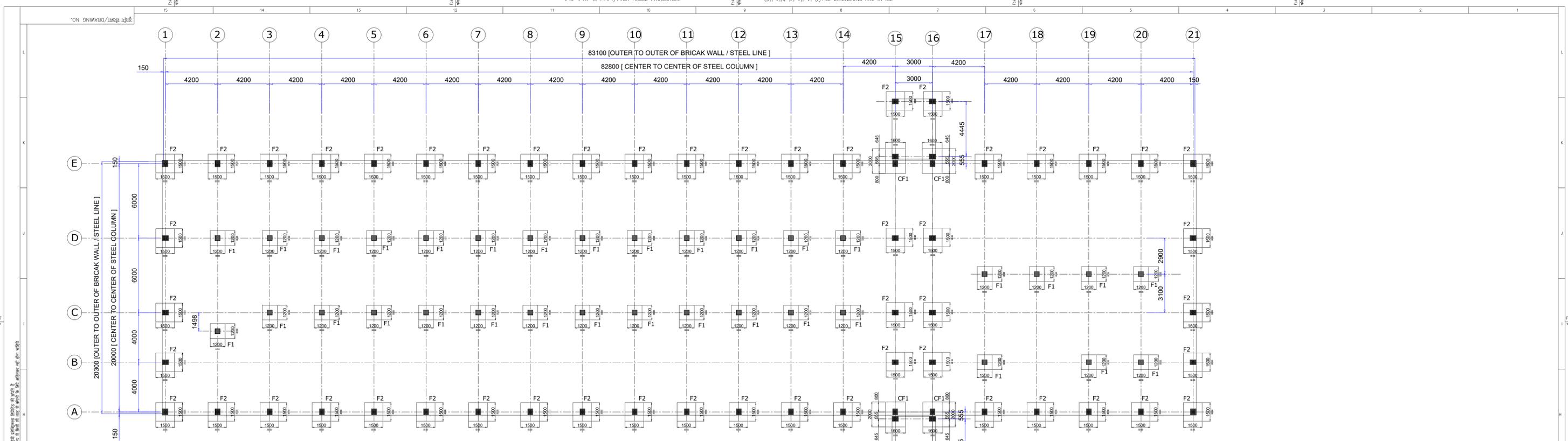


WHERE MORE THAN ONE SET OF RINGS ARE REQUIRED IN BEAMS & COLUMNS, ONE OF THE RINGS SHALL GO ROUND ALL CORNERS AS SHOWN IN FIG-4.
(GENERAL)
WHENEVER PLINTH BEAMS ARE TO BE CAST WITHOUT BOTTOM SHUTTERING P.C.C SHALL BE PROVIDED BELOW PLINTH BEAMS AS SHOWN IN FIG-5.

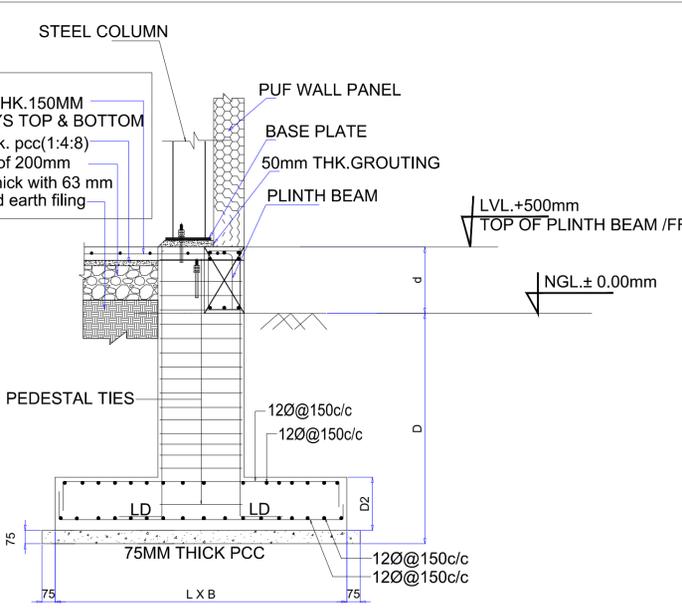


(C) SOIL IN FOUNDATION BE FILLED IN LAYERS OF 25MM THICK OPTIMALLY COMPACTED
(D) SBC CONSIDERED 12T/M2 AT FOUNDATION LEVEL & SEISMIC ZONE -2
(E) F.F.L.- FINISH FLOOR LEVEL
N.G.L.-NATUREL GROUND LEVEL
(F) Ld=50 X DIA OF BAR

		ग्राहक ड्राइंग संख्या / CUSTOMER DRAWING NO. 1150-001-301-POC-C-1157	
कार्य संख्या / JOB NO. 512 प्रकल्प / PROJECT CONTRACT मुद्रा लेख और तारीख / PRINT SCALE IN METRE		ग्राहक / CUSTOMER एन टी पी सी लिमिटेड / NTPC LIMITED परियोजना / PROJECT 2x800M मेगावाट सिंगरावली थर्मल पावर परियोजना चरण-III / 2x800MW SINGRAULI THERMAL POWER PROJECT STAGE-III	
भारत हेवी इलेक्ट्रिकल्स लिमिटेड भारती HEAVY ELECTRICALS LTD पावर एंड्रीज पावर सेक्टर परियोजना अभियंता/प्रबंधक PROJECT ENGINEERING MANAGEMENT नॉटिफ़ाईड एंजिनियर (L.P.)		DEPT CODE डिजाइनर/डिजाइन इंजीनियर/डिजाइन अनुमोदक/अनुमोदक	
शीट/कॉपी/TITLE OWNER'S CONSTRUCTION OFFICE- G A AND DETAILS OF FOUNDATION			
कार्यालय / OFFICE डिजाइन / DESIGN चेक / CHECK तारीख / DATE	सिविल / CIVIL इलेक्ट्रिकल / ELECTRICAL ड्राइंग / DRAWING	मैक्सिमम / MAXIMUM स्केल / SCALE ड्राइंग संख्या / DRAWING NO. PN-OWNER-OFF-03	शीट / SHEET 1 OF 1 पृष्ठ संख्या / REV. 0



FOUNDATION LAYOUT PLAN



TYPICAL SECTION
MARK IN FOUNDATION LAYOUT PLAN

SCHEDULE OF FOOTINGS

Sl.No.	FOOTING TYPE	SIZE (Lx x Ly)	BOTTOM REBAR		TOP REBAR		PAD DEPTH	FOUNDATION DEPTH	PEDESTAL TOP LEVEL HEIGHT FROM NGL
			X	Y	X	Y			
1	F-1	1200 x 1200	12Ø@150C/C	12Ø@150C/C	12Ø@150C/C	12Ø@150C/C	300	1500	+500
2	F-2	1500 x 1500	12Ø@150C/C	12Ø@150C/C	12Ø@150C/C	12Ø@150C/C	350	1500	+500
3	CF1	1600 x 2000	12Ø@150C/C	12Ø@150C/C	12Ø@150C/C	12Ø@150C/C	350	1500	+500

GRADE OF CONC. : M25
SOIL BEARING CAPACITY = 120KN/M

EDGE TELECOM
CUSTOMER DRAWING NO. 1150-001-301-POC-C-1157
एन टी पी सी लिमिटेड
N T P C LIMITED

भारत भारी इलेक्ट्रिकल्स लिमिटेड
BHARATI HEAVY ELECTRICALS LTD
पावर सेक्टर / POWER SECTOR
PROJECT ENGINEERING MANAGEMENT
गोस्ट (3-ए) / NOIDA (U.P.)

OWNER'S/CONSTRUCTION OFFICE- G.A AND DETAILS OF FOUNDATION
SCALE-
PN-OWNER-OFF-03

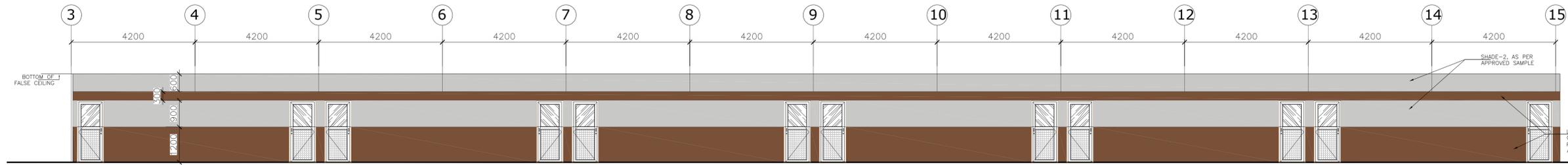
Nov 25, 2024 - 8:42pm



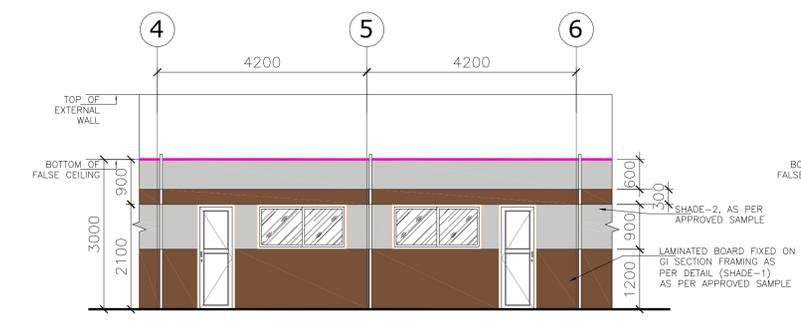
600X600 GRID CEILING PLAN

- LEGENDS:-**
- CL - CENTER LINE
 - EF - EXHAUST FAN
 - EL - ELEVATION
 - FFL - FINISHED FLOOR LEVEL
 - TOC - TOP OF CONCRETE
 - EL(+)-X-XXX - LEVEL TAG
 - TYP - TYPICAL
 - GRG - GLASS REINFORCED GYPSUM
 - ACP - ALUMINIUM COMPOSITE PANEL
 - GRD FALSE CEILING (600X600)
 - GRD FALSE CEILING (600X600)
 - GRG BOARD (SEAMLESS) BORDER CEILING
 - CALSIUM SILICATE BOARD (SEAMLESS) BORDER CEILING
 - CASSETTE TYPE AC
 - LIGHTING FIXTURE AS PER ELECTRICAL'S DRAWING
 - DOWN LIGHT AS PER ELECTRICAL'S SPEC.

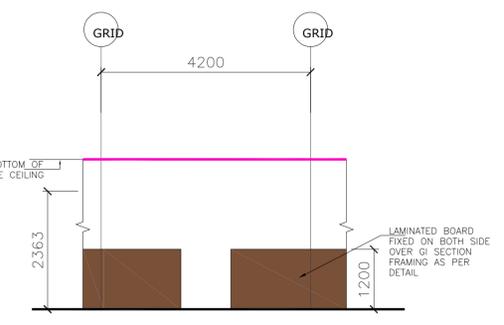
- IMPORTANT NOTES:-**
- FOR TYPE OF GRID CEILING REFER FINISHING SCHEDULE IN ARCHITECTURAL PLAN.
 - FOR ELECTRICAL LIGHTING LOCATIONS REFER THE RESPECTIVE DRAWINGS ALONG WITH ARCHITECTURAL FALSE CEILING DRAWINGS.
 - GRG BOARD FALSE CEILING (SEAMLESS) IN THE BORDER SHALL BE PAINTED WITH APPROVED COLOUR.
 - CALSIUM SILICATE BOARD FALSE CEILING SHALL BE PROVIDED IN TOILET AND PANTY.



TYPICAL INTERNAL PARTITION WALL DETAILS (VIEW A-A)



TYPICAL PARTITION WALL DETAILS INSIDE CABINS (VIEW B-B)



TYPICAL HALF PARTITION WALL DETAILS

Customer Drawing No. 512

PN-OWNER-OFF-02

एन टी पी सी लिमिटेड
NTPC LIMITED

2x800 MW सिंगरौली थर्मल पावर परियोजना चरण-III
2x800MW SINGRAULI THERMAL POWER PROJECT STAGE-III

भारत हेवी इलेक्ट्रिकल्स लिमिटेड
BHARAT HEAVY ELECTRICALS LTD

भारत सेक्टर/POWER SECTOR
परियोजना अधीनस्थित प्रबंधन
PROJECT ENGINEERING MANAGEMENT
नोडल (3-14)/NOIDA (U.P.)

DEPT CODE: 001
JOB NO: 512
DATE: 12.09.2023

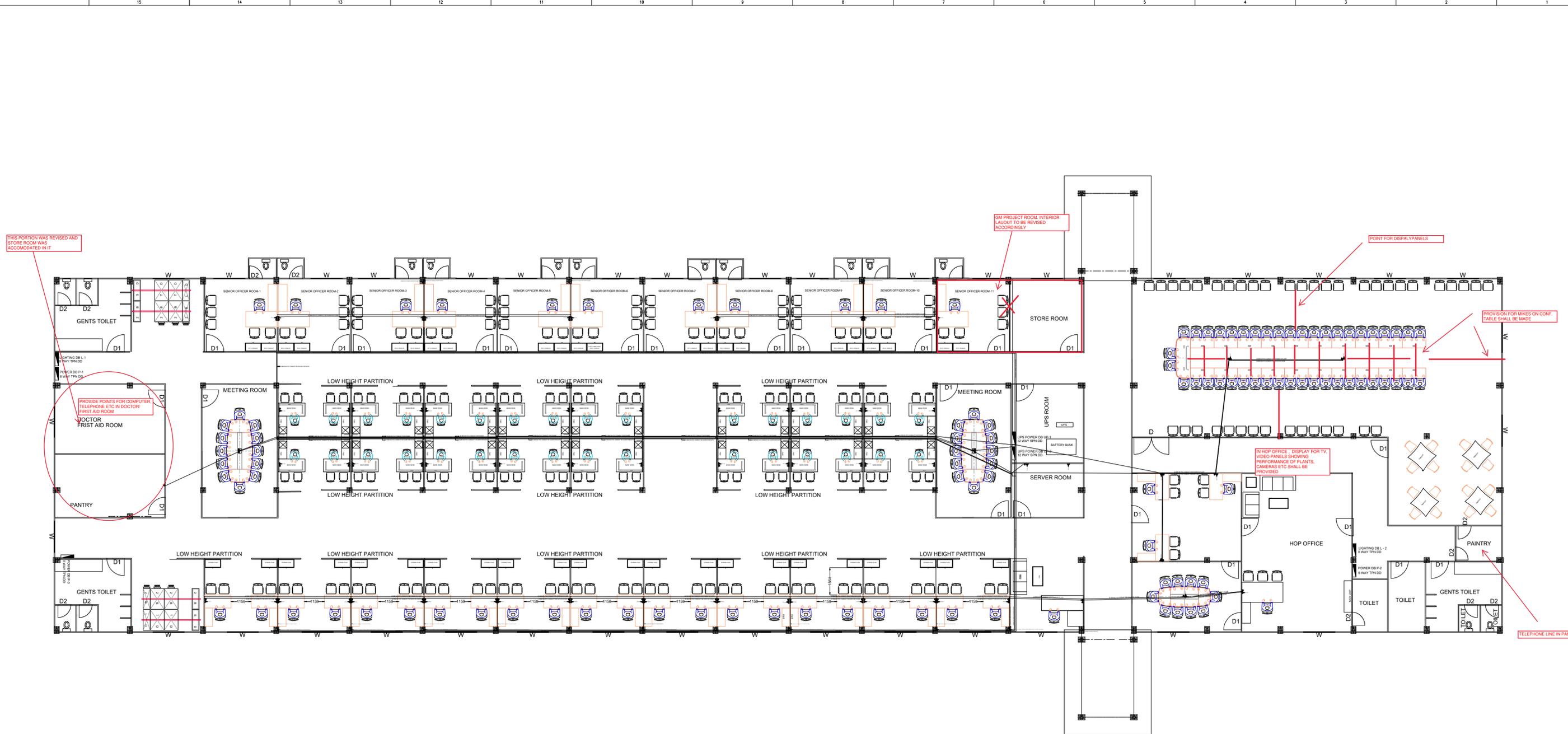
OWNER'S CONSTRUCTION OFFICE- 600X600GRID CEILING PLAN

PN-OWNER-OFF-02

ड्राइंग नंबर / DRAWING NO. 01

शेड्यूल / SHEET 01

फॉर्मेट साइज / FORMAT SIZE A0



THIS PORTION WAS REVISED AND STORE ROOM WAS ACCOMMODATED IN IT

GM PROJECT ROOM INTERIOR LAYOUT TO BE REVISED ACCORDINGLY

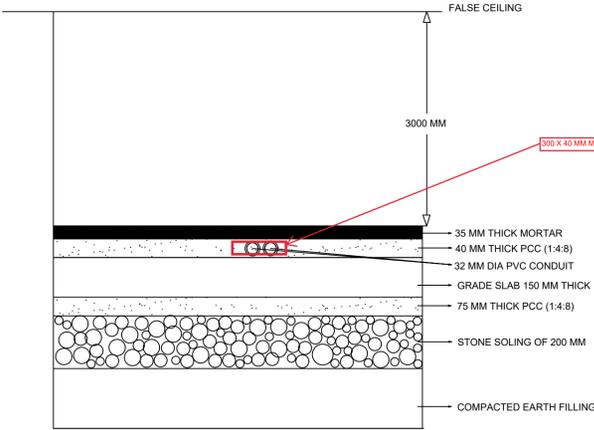
POINT FOR DISPLAY PANELS

PROVISION FOR MIKES ON CONF. TABLE SHALL BE MADE

PROVIDE POINTS FOR COMPUTER TELEPHONE ETC IN DOCTOR FIRST AID ROOM

IN HOP OFFICE, DISPLAY FOR TV, VIDEO PANELS SHOWING PERFORMANCE OF PLANTS, CAMERAS ETC SHALL BE PROVIDED

TELEPHONE LINE IN PANTRY

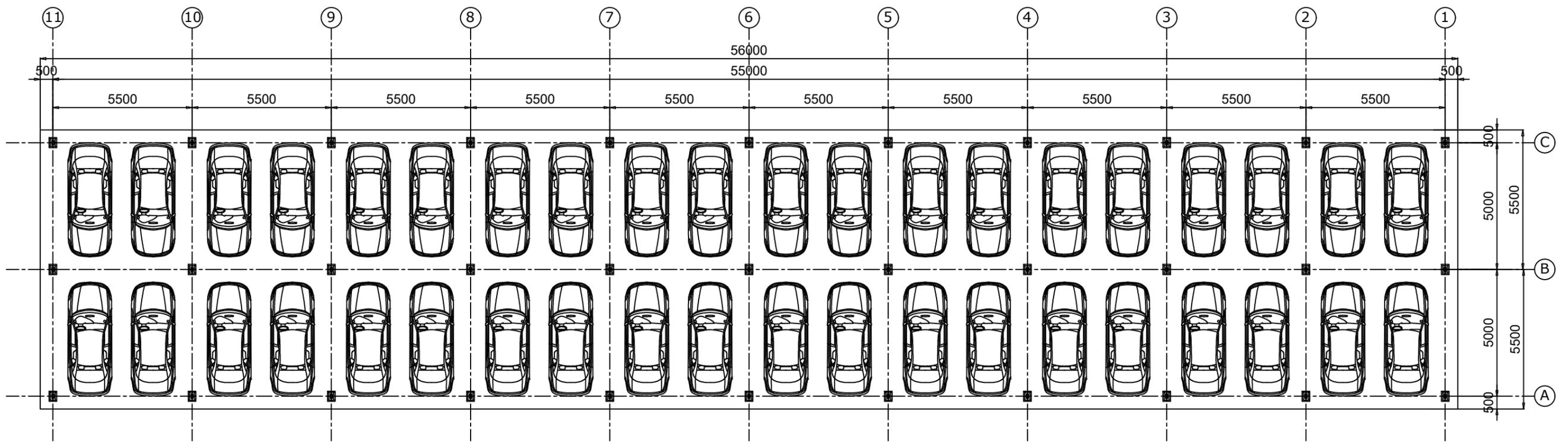


TYP. CROSS SECTION (CONDUIT LAYING IN FLOOR)

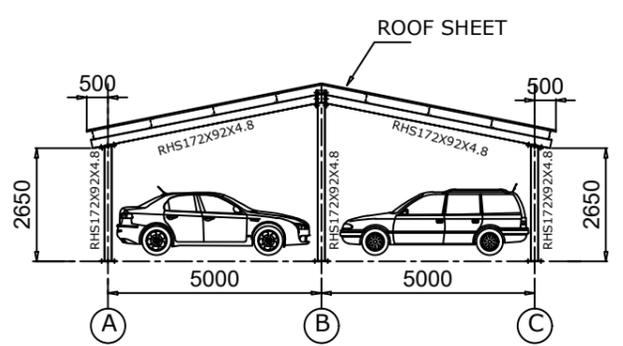
SYMBOL	DESCRIPTION	QTY.
⚡	2 NOS 6A SOCKET WITH 2 NOS 6 A ONE WAY SWITCH ON UPS POWER	77 NOS
⚡	DATA/VOICE POINT WITH CABLE CABLE	77 NOS
⚡	DISTRIBUTION BOARD	07 NOS
—	PVC CONDUIT IN FLOOR /CEILING	
○	PVC JUNCTION BOX	
□	250X250 MM FLOOR JUNCTION BOX	04 NOS

PROVIDE METALLIC RACEWAY FOR CABLE DISTRIBUTION BELOW FLOORING

		एन टी सी लिमिटेड N T P C LIMITED	
परियोजना PROJECT		अवकाश/CUSTOMER 2x800 मेगावाट सिंगराउली थर्मल पावर परियोजना चरण-III 2x800MW SINGRAULI THERMAL POWER PROJECT STAGE-III	
		भारत हेवी इलेक्ट्रिकल्स लिमिटेड BHARAT HEAVY ELECTRICALS LTD भारत सेक्टर/POWER SECTOR परियोजना अभियंता/PROJECT ENGINEERING MANAGEMENT नोएडा (उ.प्र.)/NOIDA (U.P.)	
शीट/NO SHEET		डिप्ट कोड DEPT CODE	
डिजाइन DESIGN		ड्राफ्टिंग DRAFTER	
डिप्ट DEPT		दिनांक DATE	
प्रो. सं. /REV. PROJ. NO./REV.		डिप्ट. कोड DEPT. CODE	
डिप्ट. कोड DEPT. CODE		डिप्ट. कोड DEPT. CODE	
डिप्ट. कोड DEPT. CODE		डिप्ट. कोड DEPT. CODE	



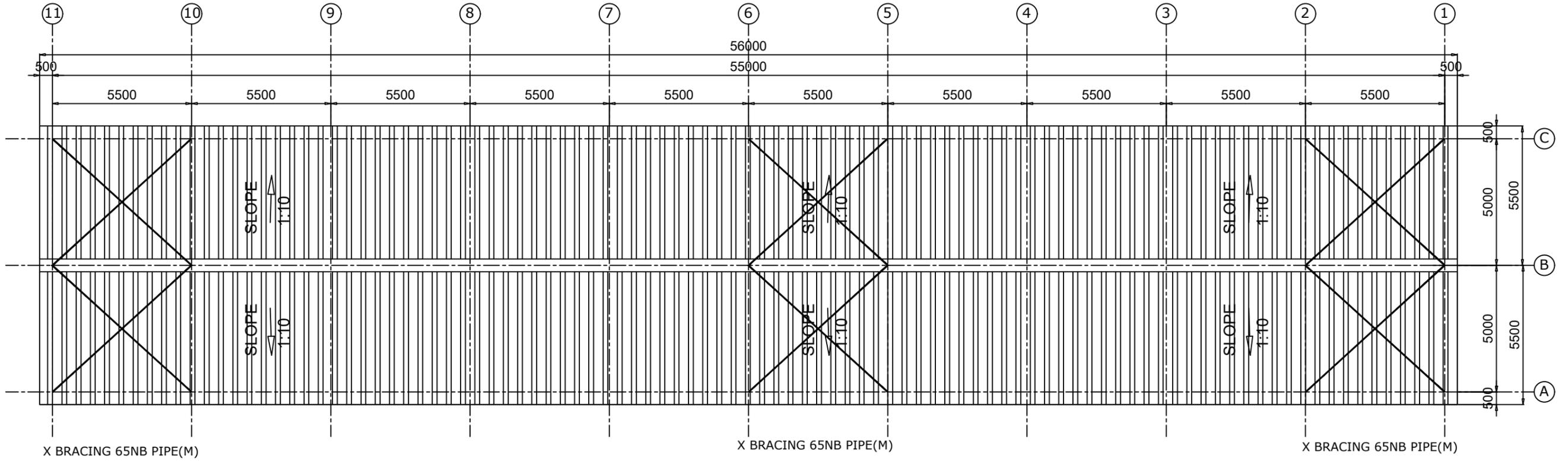
40 NOS. CAR PARKING LAYOUT PLAN



TYP CROSS SECTION

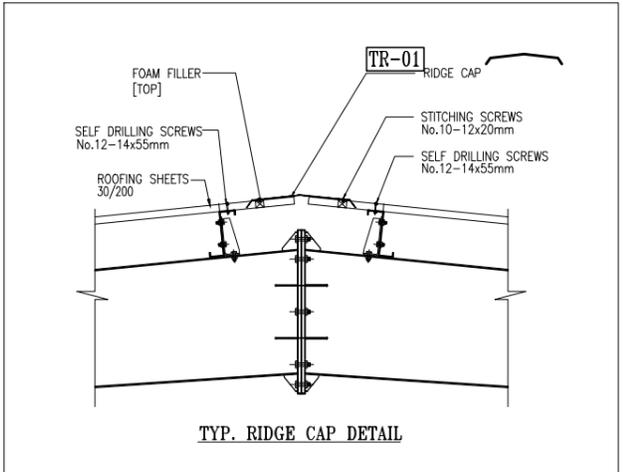
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Sub Cont: EDGE TELECOM		CUSTOMER DRAWING NO. 1150-001-301-POC-C-1159	
PROJECT NO. 512		CUSTOMER एन टी पी सी लिमिटेड N T P C LIMITED	
PROJECT CONTRACT		2x800MW सिंगरावली थर्मल पावर परियोजना चरण-III 2x800MW SINGRAULI THERMAL POWER PROJECT STAGE-III	
DRAWN BY: [Signature]		CHECKED BY: [Signature]	
DATE: 02/08/2025		PROJECT ENGINEERING MANAGEMENT भारत (एच.एल.) लिमिटेड (U.P.)	
OWNER'S TITLE OWNER'S CONSTRUCTION OFFICE - G.A DETAILS OF CAR PARKING SHED			
SCALE: 1 OF 1		DRAWING NO. PN-OWNER-OFF-06	
DATE: 02/08/2025		DRAWN BY: [Signature]	
CHECKED BY: [Signature]		DATE: 02/08/2025	

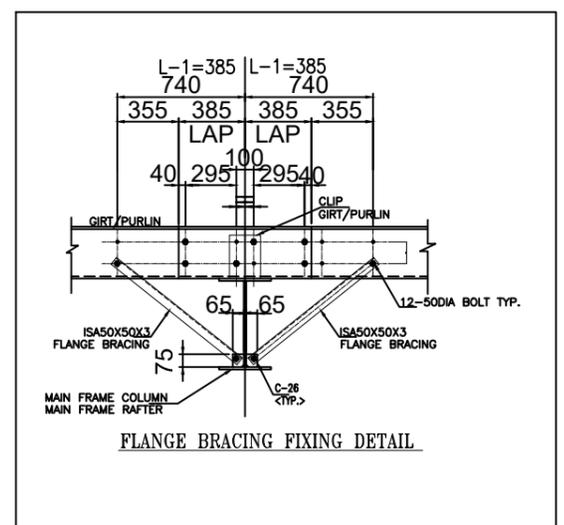


40 NOS. CAR PARKING ROOF SHEETING PLAN

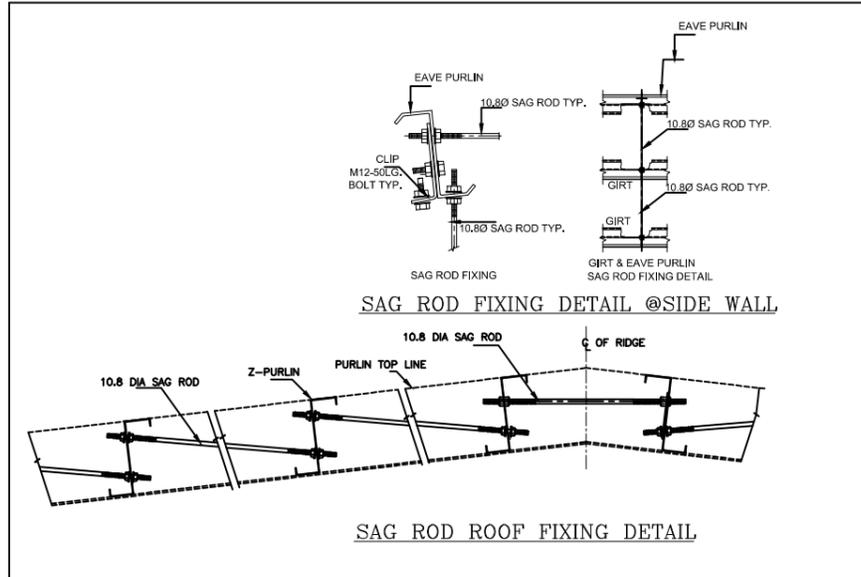
PURLIN
Z-160X1.6 THK.@MAX1.5M C/C
WITH 2 NOS. SAG ROD EVERY BAY@10.8 MM .DIA



TYP. RIDGE CAP DETAIL

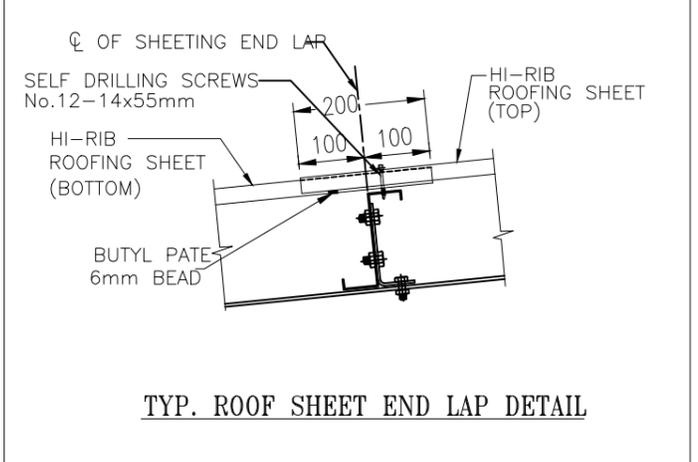


FLANGE BRACING FIXING DETAIL



SAG ROD FIXING DETAIL @SIDE WALL

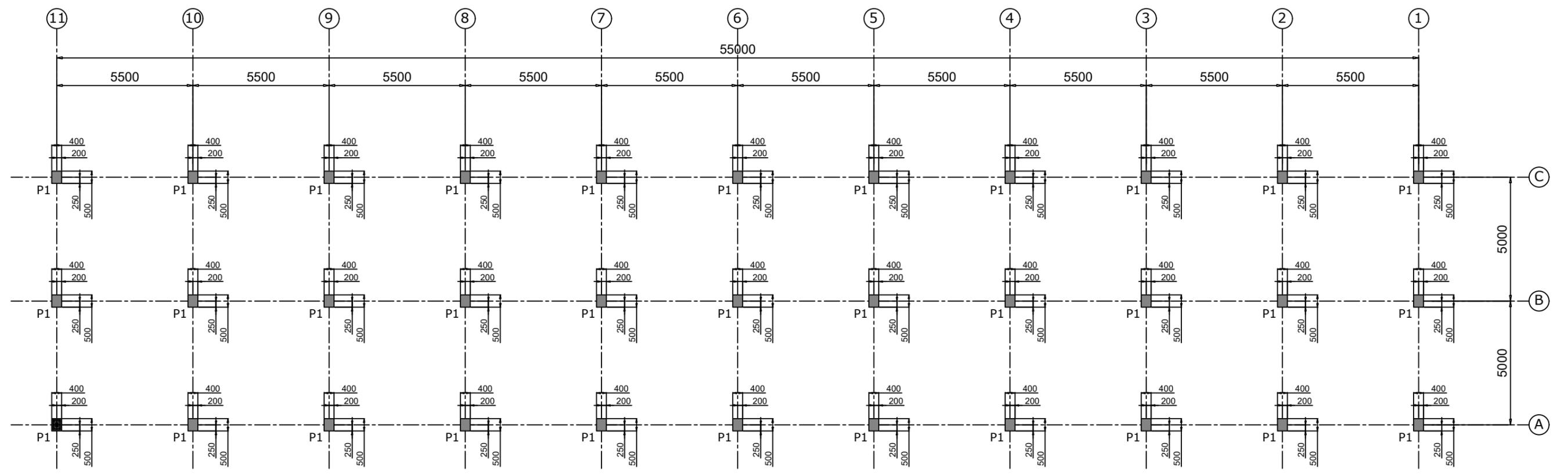
SAG ROD ROOF FIXING DETAIL



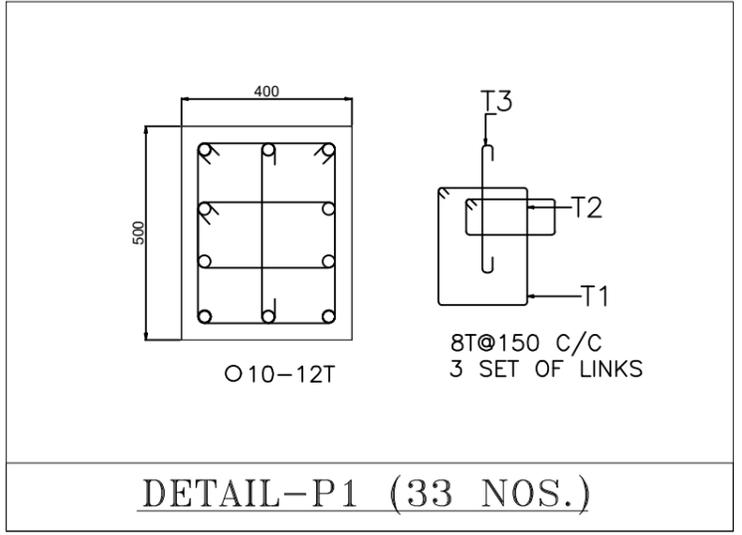
TYP. ROOF SHEET END LAP DETAIL

Sub Cont: EDGE TELECOM		CUSTOMER DRAWING NO. 1150-001-301-POC-C-1159	
PROJECT CONTRACT		एन टी पी सी लिमिटेड N T P C LIMITED	
512	2x800 MW सिंगरौली थर्मल पावर परियोजना चरण-III 2x800MW SINGRAULI THERMAL POWER PROJECT STAGE-III	Bharat Heavy Electricals Ltd भारत भारी इलेक्ट्रिकल्स लिमिटेड	
1:10	PROJECT ENGINEERING MANAGEMENT	भारत भारी इलेक्ट्रिकल्स लिमिटेड भारत भारी इलेक्ट्रिकल्स लिमिटेड	
OWNER'S CONSTRUCTION OFFICE - G.A DETAILS OF CAR PARKING SHED			
MPL	CIVIL	ELEC	SCALE: 1 OF 1
DATE: 25/08/2025		TIME: 8:20pm	

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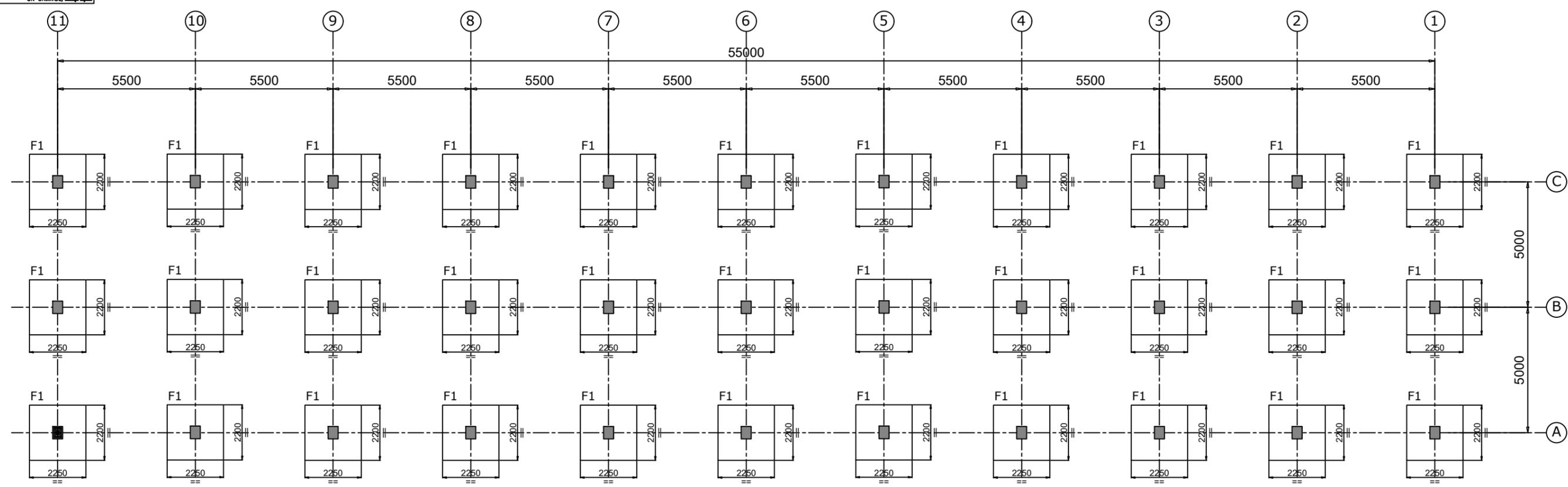


40 NOS. CAR PARKING PEDESTAL LAYOUT PLAN

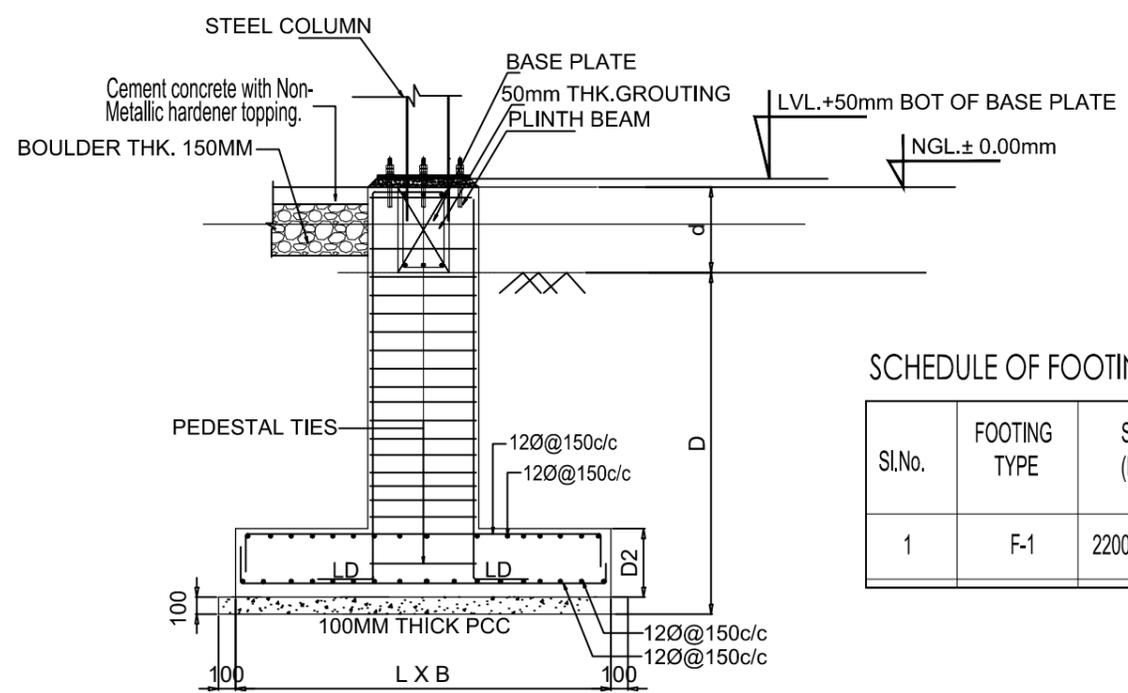


GRADE OF CONC. : M25
SOIL BEARING CAPACITY = 80KN/M

Sub Cont: EDGE TELECOM		CUSTOMER DRAWING NO. 1150-001-301-POC-C-1159	
PROJECT CONTRACT		एन टी सी लिमिटेड N T P C LIMITED	
512	PROJECT	2x800W सिंगरौली थर्मल पावर परियोजना चरण-III 2x800MW SINGRAULI THERMAL POWER PROJECT STAGE-III	
BHARAT HEAVY ELECTRICALS LTD		PROJECT ENGINEERING MANAGEMENT नोएडा (एच-III)/NODA (U.P.)	
OWNER'S CONSTRUCTION OFFICE-FOUNDATION DETAILS OF CAR PARKING SHED		DRAWN / DRIVING NO. PN-OWNER-OFF-06	
1 OF 1		0	



40 NOS. CAR PARKING FOUNDATION LAYOUT PLAN



TYPICAL SECTION
MARK IN FOUNDATION LAYOUT PLAN

SCHEDULE OF FOOTINGS

Sl.No.	FOOTING TYPE	SIZE (Lx x Ly)	BOTTOM REBAR		TOP REBAR		PAD DEPTH	FOUNDATION DEPTH	PEDESTAL TOP LEVEL HEIGHT FROM NGL
			X	Y	X	Y			
1	F-1	2200 x 2200	12Ø@175C/C	12Ø@175C/C	12Ø@175C/C	12Ø@175C/C	450	1500	+350

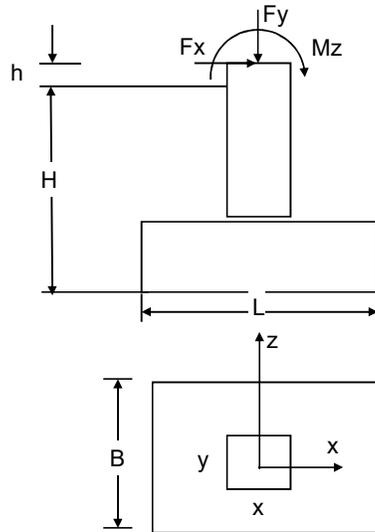
GRADE OF CONC. : M25
SOIL BEARING CAPACITY = 80KN/M

Sub Cont:	एन टी पी सी लिमिटेड	1150-001-301-POC-C-1159
Customer Drawing No:	एन टी पी सी लिमिटेड	N T P C LIMITED
Project:	2x800MW सिंगरावली थर्मल पावर परियोजना चरण-III 2x800MW SINGRAULI THERMAL POWER PROJECT STAGE-III	
Contract:	भारत हेवी इलेक्ट्रिकल्स लिमिटेड BHARAT HEAVY ELECTRICALS LTD	
Scale:	PROJECT ENGINEERING MANAGEMENT नोएडा (उ.प्र.)	
Sheet No:	1 OF 1	
Date:	Aug 25, 2025 - 6:21pm	
Author:	OWNER'S CONSTRUCTION OFFICE-FOUNDATION DETAILS OF CAR PARKING SHED	
Checked:	PH-OWNER-OFF-06	

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FOUNDATION F1		Issue:	Design	Page 1 of 2
		Date:	8/25/2025	
Project: 4 Wheeler PARKING		Revised by:		
		Checked by:		

Input Data			
Loads (kN)			Mz (kN.m)
	Fx	Fy	
Dead	2	35	0
Live	2	42	0
Wind	3	49	0
E	3	6	0
Sum	10	132	0
Foundation Level			
H (mm)	1500	h (mm)	0
hw (mm)	0	L/B	1
Pedestal Dimension			
x (mm) max size	400	y (mm)	500
Concrete Strength			
f _c (N/mm ²) =	25		
Steel Strength			
f _y (N/mm ²) =	500		
Allowable Soil Pressure			
q _a (kN/m ²) =	80		
Base Soil angle of internal friction			20

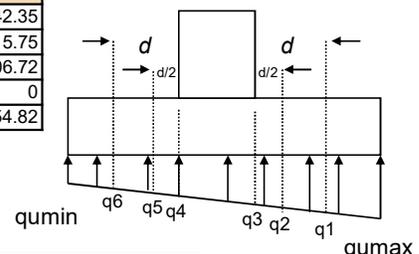


Ultimate Loads (IS CODE .)										
Load Case	0.9D+1.3W		1.4D+1.7L		0.75(1.4D+1.7L+1.7W)			0.75(1.4D+1.7L+1.87E)		
Factors	0.9	1.3	1.4	1.7	1.05	1.275	1.275	1.05	1.275	1.4025
F _{ux} (kN) =	5.7		6.2		8.475			8.8575		
F _{uy} (kN) =	95.2		120.4		152.775			98.715		
M _{uz} (kN.m) =	0		0		0			0		

Approximate Base Dimensions B & L Based on Unfactored Loads (IS-456)			
Approximate Base Dimensions		B (mm) =	L (mm) =
User Input Dimensions		B (mm) =	L (mm) =
		2200	2200

Approximate Footing Effective Depth d Assuming Punching Shear Governs (IS-456)				
Load Case	1	2	3	4
*q _{umax} (kN/m ²)	24.49	30.12	38.73	27.88
d (mm)	45.000	50.000	65.000	50.000
* $q_{umax} = \frac{F_{uy}}{LB} + 6 \frac{M_{uz} + F_{ux}(H+h)}{L^2 B}$	User Input		d (mm) =	min 150mm (ACI 15.7.)
	Depth		D (mm) =	min cover 70mm (ACI 7.7.)
			275	
			350	

Foundation Weight D _f (kN)		
Concrete Slab =	B * L * D * 25	42.35
Pedestal =	x * y * (H+h - D) * 25	5.75
Soil above Slab =	(B*L - x*y) * (H - hw) * 20	106.72
Saturated Soil =	(B*L - x*y) * (hw - D) * (20-10)	0
Total D _f (kN) =		154.82



Net Ultimate Stresses Profile (kN/m ²)				
Load Case	1	2	3	4
q _{umax} (kN/m ²)	24.487	30.116	38.728	27.882
q _{umin} (kN/m ²)	14.852	19.636	24.402	12.909
q ₁ (kN/m ²)	21.750	27.139	34.658	23.629
q ₂ (kN/m ²)	21.148	26.484	33.763	22.693
q ₃ (kN/m ²)	20.545	25.829	32.868	21.757
q ₄ (kN/m ²)	18.793	23.923	30.263	19.034
q ₅ (kN/m ²)	18.191	23.268	29.367	18.099
q ₆ (kN/m ²)	17.589	22.613	28.472	17.163

Isolated Foundation Calculation (IS-456)		Issue:	Design	Page 2 of 3
		Date:	8/25/2025	
Project:	4 Wheeler PARKING	Revised by:	0	
		Checked by:	0	

CHECKING:

Contact Pressure

F_v (kN) =	$F_y + D_f$	286.82	q_{max} (kN/m ²)	67.7126	q_{min} (kN/m ²)	50.808
--------------	-------------	--------	--------------------------------	---------	--------------------------------	--------

q_{GP} (gross pressure) (kN/m²) = $(3q_{max} + q_{min}) / 4$
 $q_{GP} = 50.7892$ kN/m² < $q_a = 80$ **YES**

$$q_{max, min} = \frac{F_v}{LB} \pm \frac{M_z + F_x(H+h)}{BL^2}$$

Stability Against Overturning

Overturning moment =	$M_z + F_x * (H + h)$	15	kN.m
Stabilizing moment =	$F_v * (L/2)$	315.502	kN.m
$\frac{\text{Stabilizing moment}}{\text{Overturning moment}} =$	25.2402	>	1.5 YES

Stability Against Sliding

$$\frac{F_v \times \tan \theta}{F_h} = 11.4833 > 1.5 \quad \text{YES}$$

Check wide beam shear in the x-direction (IS-456)

V_c (kN) =	$(1/6) * \text{SQRT}(f_c) * B * d$	504.167		
Load Case	1	2	3	4
V_u (kN)* =	31.788	39.363	50.453	35.414
$V_u / 0.85V_c$	0.0742	0.0919	0.1177	0.0826

* $V_u = 0.5 * (q_1 + q_{max}) * (L/2 - x/2 - d) * B$
 $\max V_u / 0.85V_c = 0.11773 < 1.00$ **YES**

Check punching shear (IS-456)

b_o (mm) =	$2 * [(x+d) + (y+d)]$	2900		
V_c (kN) = min of	$(1/3) * \text{sqrt}(f_c) * b_o * d$	1329.17		
	$(1 + 2/(x/y)) * (1/6) * \text{SQRT}(f_c) * b_o * d$	2326.04		
	$((40 * d/b_o) + 2) * (1/12) * \text{SQRT}(f_c) * b_o * d$	1925		
V_c (kN) =		1329.17		
Load Case	1	2	3	4
V_u (kN)* =	84.9104	107.3867	136.2625	88.0455
$V_u / 0.85V_c$	0.0752	0.0951	0.1206	0.0779

* V_u (kN) = $F_{uy} - (0.5 * (q_2 + q_5)) * (x+d) * (y+d)$
 $\max V_u / 0.85V_c = 0.12061 < 1.00$ **YES**

Reinforcement:

$$M_u = 0.9 f_y A_s \left(d - \frac{0.59 f_y A_s}{f'_c B} \right)$$

Load Case	x - Direction				z - Direction							
	Bottom Reinforcement		Top Reinforcement		Bottom Reinforcement							
	1	2	3	4	1	2	3	4	1	2	3	4
M_u (kN.m)*	20.6474	25.5603	32.7663	23.0239	N R	N R	N R	N R	15.6323	19.7702	25.0863	16.2095
A_s (cm ²)=	1.67392	2.07385	2.66156	1.86729	N R	N R	N R	N R	1.26633	1.60259	2.03523	1.31321
$\rho =$	0.0018	0.0018	0.0018	0.0018	N R	N R	N R	N R	0.0018	0.0018	0.0018	0.0018
$\max \rho =$	0.0018				0				0.0018			

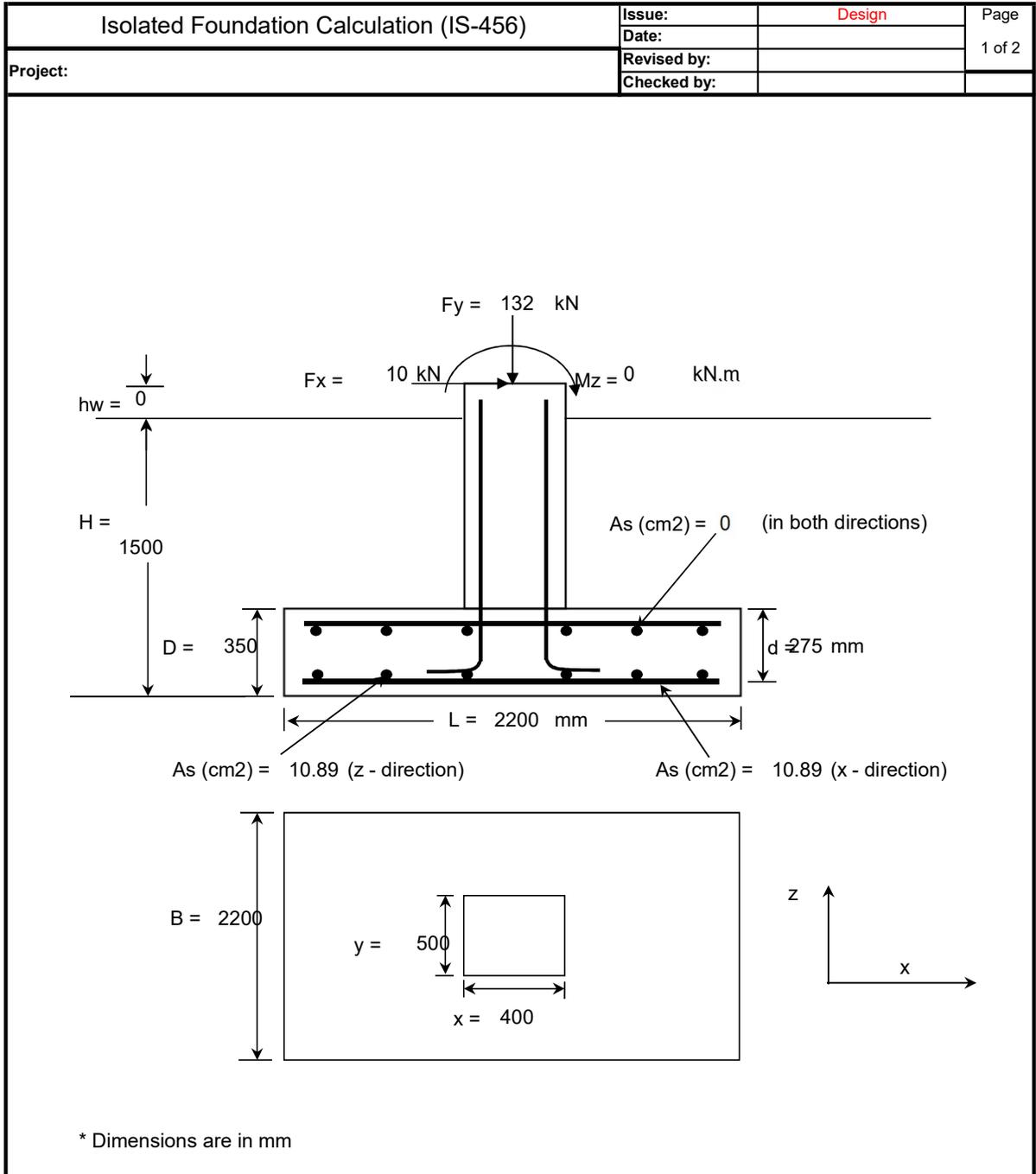
$\rho_{min} = 0.0018$ (ACI 7.12.) $\rho_{max} = 0.75 (0.85 f'_c / f_y) (600 / 600 + f_y) = 0.03185$ (ACI 10.3.2)

* x - direction moments:

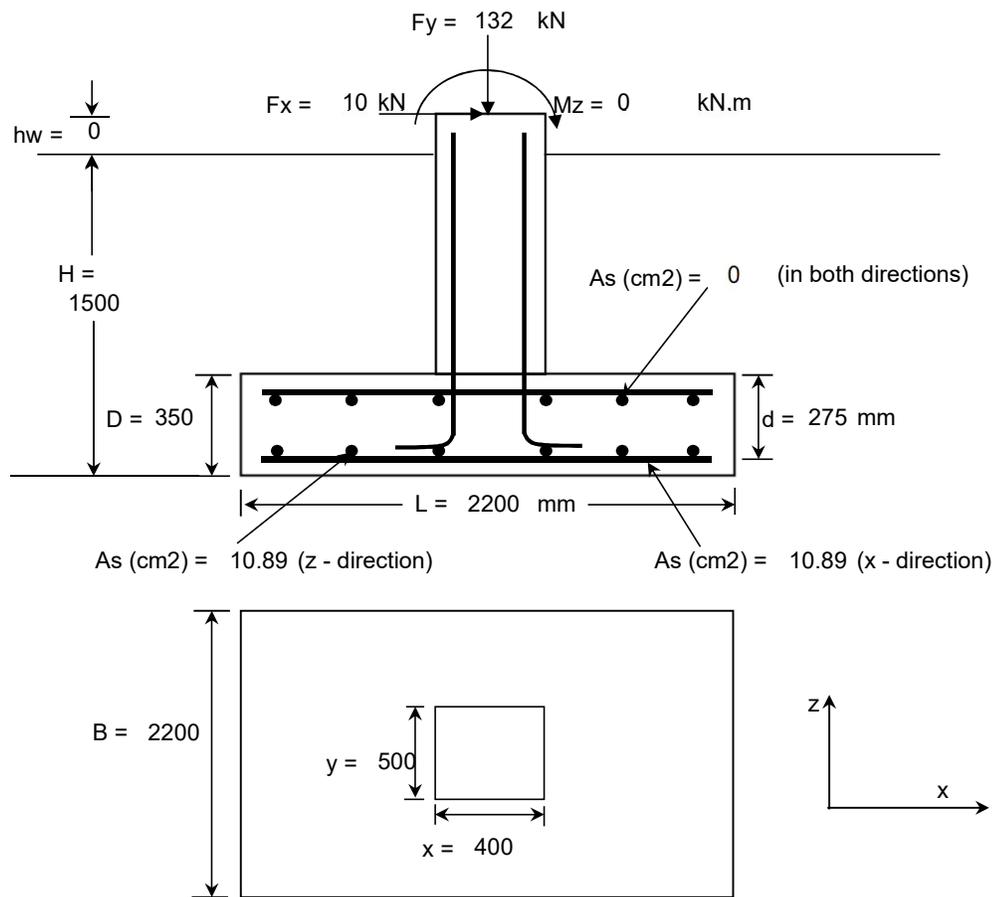
M_u (Bottom R) = $q_3 * B * 0.5 * (L/2 - x/2)^2 + 0.5 * (q_{max} - q_3) * B * (2/3) * (L/2 - x/2)^2$
 M_u (Top R) = $q_{min} * B * 0.5 * (L/2 - x/2)^2$ (approximation)

* z - direction moment:

M_u (Bottom R) = $0.5 * (q_{max} + q_{min}) * L * 0.5 * (B/2 - y/2)^2$



Summary sheet(CF1)				Issue:	Design	Page					
Project: 4 Wheeler PARKING				Date:		1 of 2					
				Revised by:	0						
				Checked by:	0						
Input Data											
Loads (kN)		Mz (kN.m)	Concrete Strength		Foundation Properties						
Px	Py		f'c (N/mm ²) =	25	H (mm)	1500	h (mm)	0			
Dead	2	35	0	Steel Strength		hw (mm)	0	L/B	1		
Live	2	42	0	fy (N/mm ²) =	500	Pedestal Dimension					
Wind	3	49	0	Allowable Soil Pressure		x (mm)	400	y (mm)	500		
E	3	6	0	qa (kN/m ²) =	80						
Sum	10	132	0	Base Soil angle of internal friction		20					
Ultimate Loads (ACI 9.2.)											
Load Case	0.9D+1.3W		1.4D+1.7L		0.75(1.4D+1.7L+1.7W)		0.75(1.4D+1.7L+1.87E)				
Factors	0.9	1.3	1.4	1.7	1.05	1.275	1.275	1.05	1.275	1.4025	
Pux (kN) =	5.7		6.2		8.475		8.8575				
Puy (kN) =	95.2		120.4		152.775		98.715				
Muz (kN.m) =	0		0		0		0				
CHECKING:											
Contact Pressure	q _{max} =		67.71		kN/m ²		q _{min} =		50.81		kN/m ²
	q _{GP} (gross pressure) (kN/m ²) =				(3q _{max} + q _{min}) / 4						
	q _{GP} =		63.49		kN/m ²		q _a = 80 YES				
Stability against Overturning	Overturning moment		15		kN.m						
	Stabilizing moment		315.502		kN.m						
	Stabilizing moment		=		25.24		>		1.5 YES		
	Overturning moment										
Stability against Sliding	$\frac{F_v \times \tan \theta}{F_h} =$		11.48		>		1.5 YES				
Check Wide Beam Shear	V _c (kN)	max V _u (kN)	Load Case								
	504.167	50.453	3								
	max V _u / 0.85V _c = 0.118				<		1.00 YES				
Check Punching Shear	V _c (kN)	max V _u (kN)	Load Case								
	1329.167	136.263	3								
	max V _u / 0.85V _c = 0.121				<		1.00 YES				
Results:											
Base Dimensions											
B =	2200	mm	d =	275	mm						
L =	2200	mm	D =	350	mm						
Reinforcement											
	x - Direction				z - Direction						
	Bottom Reinforcement		Top Reinforcement		Bottom Reinforcement						
As (cm ²) =	10.89		0		10.89						
ρ =	0.0018		0		0.0018						
Project: 4 Wheeler PARKING				Issue:	Design	Page					
				Date:	0	2 of 2					
				Revised by:	0						
				Checked by:	0						



* Dimensions are in mm

4 Wheeler Column Design P1

Design Loads

Load	Pu	63 KN
Moment	Mu	0 KN-m

Column Data

width	b	400 mm
depth	d	500 mm
length	l	1.50 meters

Grade

Concrete	fck	25 MPa
Steel	fy	500 MPa

$Pu/(fckbd)$	0.01
$Mu/(fckbd^2)$	0.00
d'/d	0.05

Minimum eccentricity

ex	1.63 mm	OK
ey	1.97 mm	OK

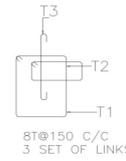
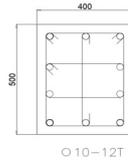
Refer Chart 35 of SP 16, Page no: 120

pt/fck 0.08

pt	1.00%
Ast	1000 sqmm

Number of bars

dia	nos	ast
12 mm	3	339 sqmm
12 mm	4	452 sqmm
12 mm	3	339 sqmm
Total	10	1131 sqmm



3- ##

4- ##

3- ##

Steel provided OK

fy	d'/d	Chart No.	Page No
250	0.05	Chart 27	112
	0.1	Chart 28	113
	0.15	Chart 29	114
	0.2	Chart 30	115
415	0.05	Chart 31	116
	0.1	Chart 32	117
	0.15	Chart 33	118
	0.2	Chart 34	119
500	0.05	Chart 35	120
	0.1	Chart 36	121
	0.15	Chart 37	122
	0.2	Chart 38	123
		250	Chart 27
		415	Chart 31
		500	Chart 35
		Chart No.	Page No
		Chart 35	120

4 Wheeler Beam Design PB1

Beam Data

width	230 mm
depth	400 mm
clear cover to main	25 mm

$$d' = 39 \text{ mm} \quad . = cc + s dia + mdia/2$$

$$\text{eff depth} = 361 \text{ mm} \quad . = d - d'$$

Material Grades

Concrete	25 MPa
Steel	500 MPa

Moment	55 KN-m
--------	---------

$$\text{Mu}/bd^2 = 1.83$$

$$x_{umax} = 165 \quad . = (700 / (1100 * (0.87 * f_y))) * d$$

$$\text{Mulim} = 100 \quad . = 0.36 * f_{ck} * b * x_{umax} * (d - (0.42 * x_{umax}))$$

$$\text{Mulim}/bd^2 = 3.33$$

Beam is designed as Singly Reinforced Beam

Area of Steel	Tension (Ast)	Compr (Asc)
Percentage	0.465 %	-----
Area of Steel	386 sqmm	215 sqmm

Refer Table 2 SP 16 pg 48

Tension Reinforcement

Type	Bar dia	Nos	Area of Steel
Layer 1	12 mm	2	226 sqmm
Layer 2	12 mm	2	226 sqmm
Layer 3			0 sqmm
Total Steel Provided			452 sqmm

0.545 %

Provided Steel OK

Compression Reinforcement

Type	Bar dia	Nos	Area of Steel
Layer 1			
Layer 2			
Layer 3	12 mm	2	226 sqmm
Total Steel Provided			226 sqmm

0.272 %

Provided Steel OK

Shear Force (Vu) 78 KN

$$. = Vu / (b * d)$$

Refer Table 61 SP 16 pg 179

Refer Table J SP 16 pg 175

$$\text{or } = (0.85 * v(0.8 * f_{ck}) * v(1 + 5\beta) - 1)) / (6\beta)$$

According to Clause 26.5.1.6 of IS 456-2000

Characteristic Strength (fy) of stirrup reinforcement

should not be greater than 415 Mpa.

	12 mm	2	226 sqmm
	12 mm	2	226 sqmm
	12 mm	2	226 sqmm
			679 sqmm

0.817 %

Provided Steel OK

Type of stirrup	2 legged
	8 mm

Steel Calculation

Grade Check	
7.7	

SRB		
a	0.87	$=(0.87435/100) * (fy/fck)^2$
b	-4.350	$=(0.87/100) * (fy)$
c	1.835	$=Mu/bd^2$
-p	0.465	$=(b \pm \sqrt{b^2 - 4ac})/2a$
Ast	386	$=(p * b * d)/100$

DRB		
a	0.87	$=(0.87435/100) * (fy/fck)^2$
b	-4.350	$=(0.87/100) * (fy)$
c	3.326	$=Mulim/bd^2$
-p	0.943	$=(b \pm \sqrt{b^2 - 4ac})/2a$
Astlim	783	$=(p * b * d)/100$

Mu2	-45	$=Mu - Mulim$
Ast2	-319	$=Mu2 / ((0.87 * fy) * (d - d'))$
Ast	464	$=Astlim + Ast2$

0.1080
0.15

d'/d	0.15	
fsc	395	Refer Table F SP 16 pg 13
fcc	11.15	$=0.466 * fck$
Asc	-362	$=Mu2 / ((fsc - fcc) * (d - d'))$

Min steel %	0.170	$=0.85\% / fy$
Ast	386	
Asc	-362	

Min Steel	141	$=(0.85 * b * d) / fy$
Max Steel	3321.2	$=0.04 * b * d$

Ast	386
Asc	-362

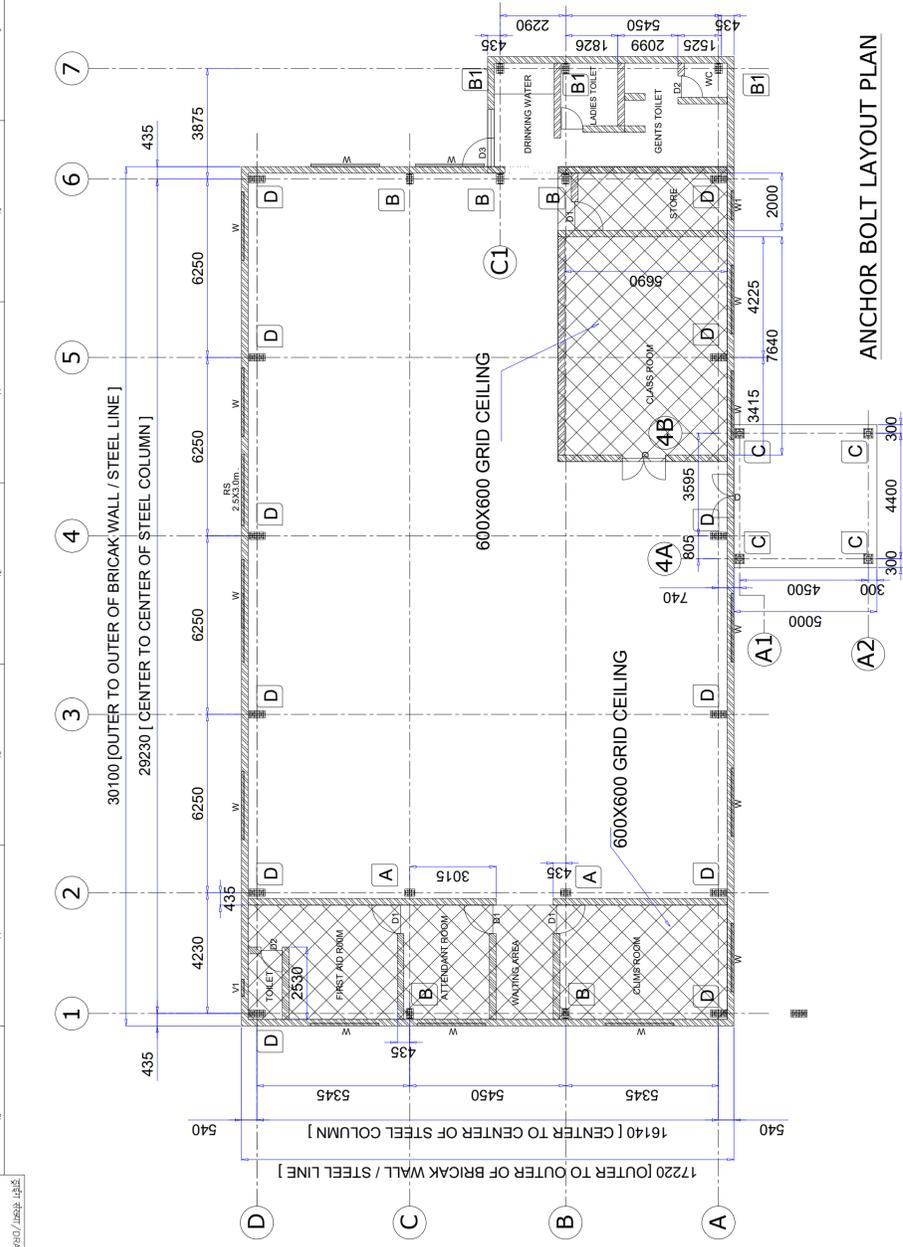
Shear Calculations

Pt provided	0.817	$=(Ast * 100) / (b * d)$
Pc provided	0.272	$=(Asc * 100) / (b * d)$
β	3.552	$=(0.8 * fck) / (6.89 * Pt)$

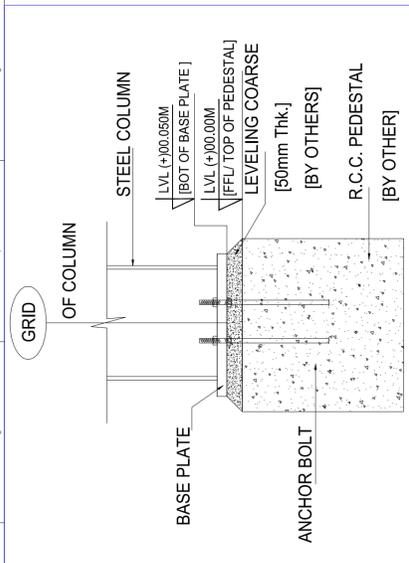
Shear Capacity of Concrete (Vs)	62	$=\zeta c * b * d$
Shear Stg to be carried by Stirrup (Vus)	16	$=Vu - Vs$

Spacing		
actual req	546	$=(Asv * 0.87fy * d) / Vus$
min	475	$=(Asv * 0.87fy) / (b * 0.4)$
max	271	$=0.75d$
max	300	$=300mm$

provide the
least of the
4

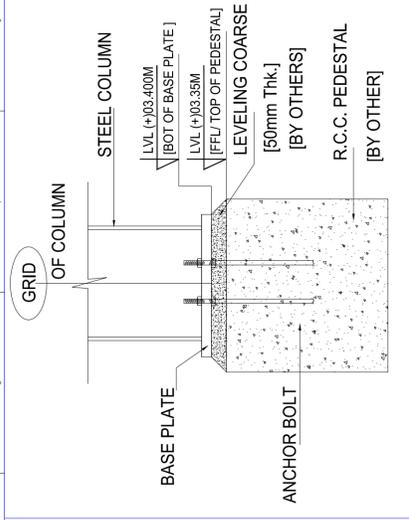


ANCHOR BOLT LAYOUT PLAN



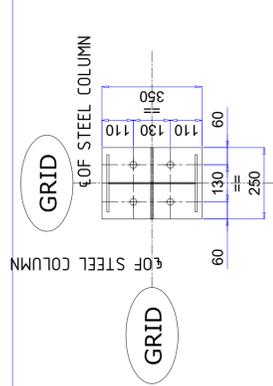
SECTION DETAIL FOR DETAIL - C

ANCHOR BOLT-25mm DIA. -(4NOS)
BASE PLATE-20MM. THK.

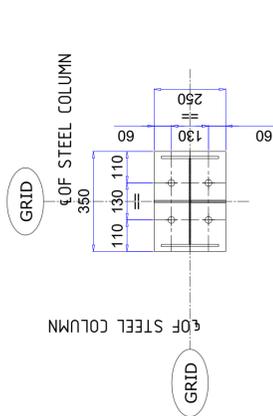


SECTION DETAIL FOR DETAIL B1

ANCHOR BOLT-25mm DIA. -(4NOS)
BASE PLATE-20MM. THK.



DETAIL-A



DETAIL-B1

BOT OF BASE PLATE LEVEL +3400MM

BOT OF BASE PLATE LEVEL +550MM

Serial No.	Bolt Description	Bolt Dia. (mm)	H = Embedded Length (mm)	T = Thread Length (mm)	L=H+T (mm)	Bearing Plate Size 'PL-1' (mm)	Weld Size (S) (mm)	Anchor Bolt weight With Two nuts	WASHER PLATE PROPERTIES		QTY.
									Thickness (mm)	Hole Dia d (mm)	
1	AB 25x750	25	600	150	750	75x75x10	6	3.87	6	27	104
<p>ANCHOR BOLT-25mm DIA. -(8NOS) BASE PLATE-20MM. THK.</p> <p>ANCHOR BOLT-25mm DIA. -(4NOS) BASE PLATE-20MM. THK.</p> <p>ANCHOR BOLT-25mm DIA. -(8NOS) BASE PLATE-20MM. THK.</p>											
						<p>DETAIL-B</p> <p>BOT OF BASE PLATE LEVEL +550MM</p>		<p>DETAIL-C</p> <p>BOT OF BASE PLATE LEVEL +050MM</p>		<p>ANCHOR BOLT SETTING</p>	
						<p>DETAIL-A</p> <p>BOT OF BASE PLATE LEVEL +550MM</p>		<p>ANCHOR BOLT SETTING</p>		<p>ANCHOR BOLT SETTING</p>	
						<p>DETAIL-B</p> <p>BOT OF BASE PLATE LEVEL +550MM</p>		<p>DETAIL-C</p> <p>BOT OF BASE PLATE LEVEL +050MM</p>		<p>ANCHOR BOLT SETTING</p>	
						<p>DETAIL-B</p> <p>BOT OF BASE PLATE LEVEL +550MM</p>		<p>DETAIL-C</p> <p>BOT OF BASE PLATE LEVEL +050MM</p>		<p>ANCHOR BOLT SETTING</p>	
						<p>DETAIL-B</p> <p>BOT OF BASE PLATE LEVEL +550MM</p>		<p>DETAIL-C</p> <p>BOT OF BASE PLATE LEVEL +050MM</p>		<p>ANCHOR BOLT SETTING</p>	
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