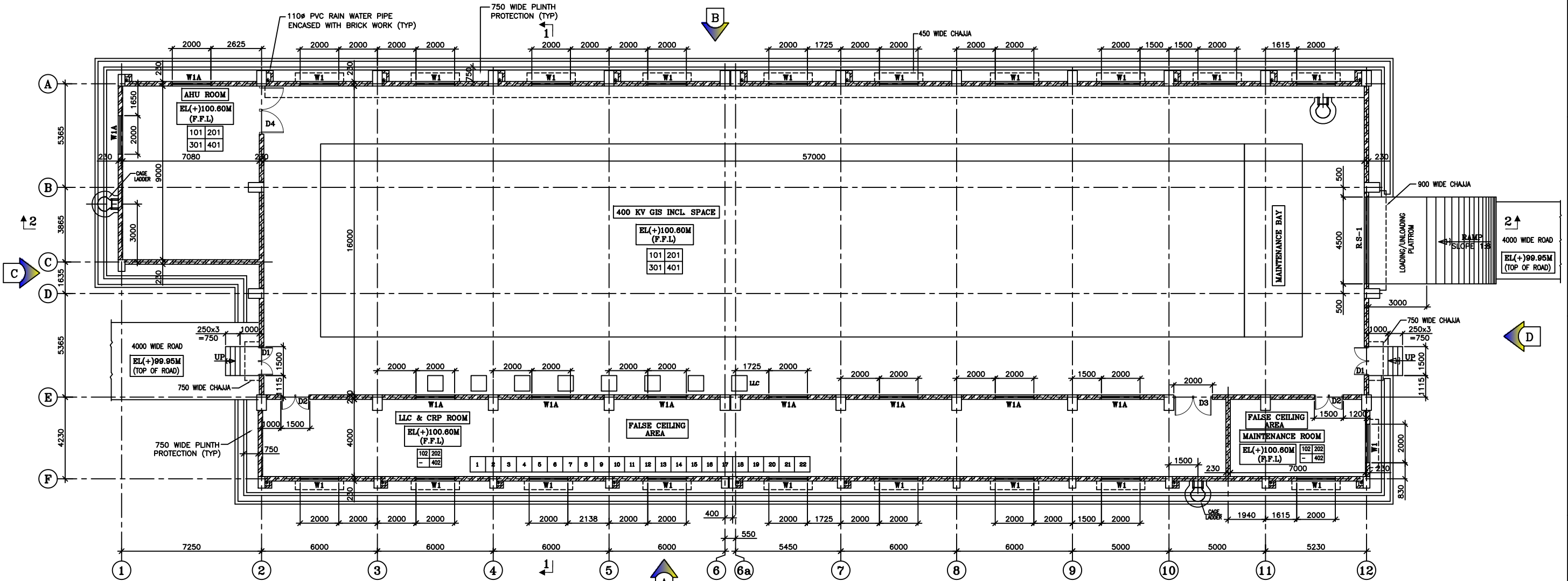


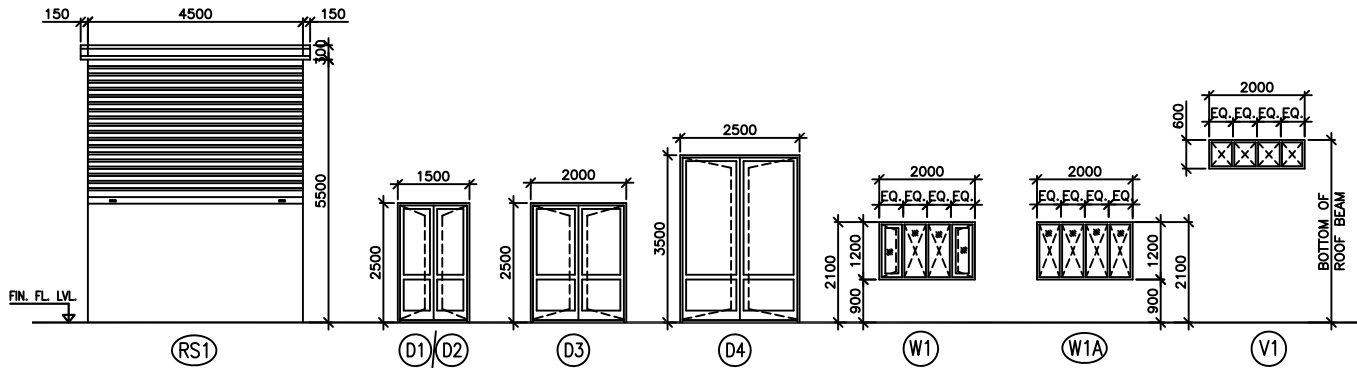


PLAN AT EL(+100.60M (F.F.L.)
(SCALE- 1:100)

ILLUSTRATION OF FINISHES.		FINISHES OF SCHEDULE	
WALL SERIES	FLOORING SERIES	WALL FINISHES-	
		SR.NO.	CODE NO. DESCRIPTION
100	200	1.	101 ACRYLIC DISTEMPER
300	400	2.	102 ACRYLIC EMULSION PAINT
SKIRTING/DADO FINISHES		FLOORING FINISHES	
1.	401	1.	201 CEMENT CONCRETE FLOORING(1:2:4)
2.	402	2.	202 VITRIFIED TILES
CEILING FINISHES			
1.	301		
2.	302		

PLASTER:
INTERNAL:
12mm THK. PLASTER (1:4 CEMENT : SAND)
EXTERNAL:
12mm THK. PLASTER (1:4 CEMENT : SAND)
CEILING EXCEPT FOR WHERE FALSE CEILING WILL BE PROVIDED.
6mm THK. PLAIN PLASTER (1:4 CEMENT : SAND)

REFERENCE DRAWING:-
1 OVERALL GENERAL ARRANGEMENT DRAWING -
1 CONCEPTUAL DRAWING FOR 400KV GIS BUILDING - TB-1-406-316-005



- LEGEND:-**
- ☐ SIDE HUNG OPENABLE PANEL
 - ☒ FIXED GLASS PANEL
 - F.F.L. = FINISH FLOOR LEVEL
 - F.G.L. = FINISH GRADE LEVEL
 - H.P. = HIGH POINT
 - L.P. = LOWER POINT
 - T.O.C. = TOP OF CONCRETE
 - F.F.L. = FINISH FLOOR LEVEL
 - F.G.L. = FINISH GROUND LEVEL

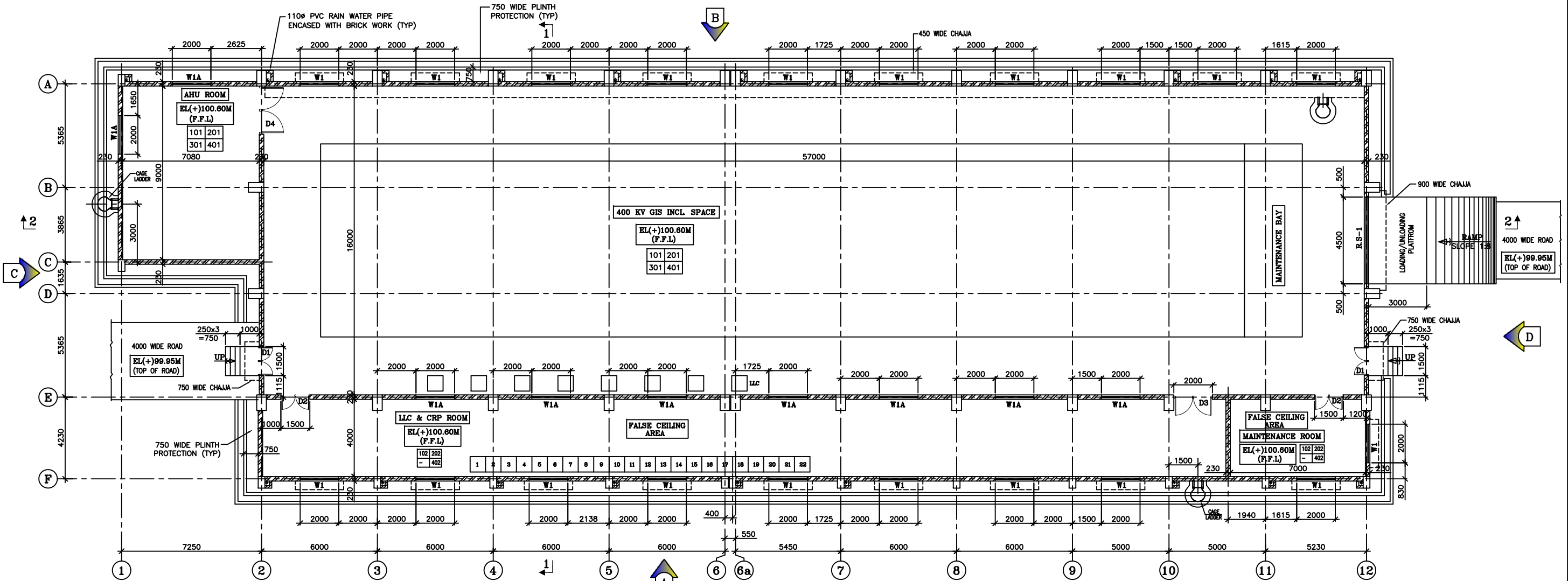
WATER PROOFING ON ROOF
PROVIDING AND APPLYING FOUR COURSES OF WATER PROOFING TREATMENT AT ROOFS CONSISTING FIRST COURSE OF STRAIGHT RUN 85/25 GRADE BITUMEN CONFIRMING TO I.S. 73-1961@0.7 KG/SQM, SECOND COURSE OF ROOF GUARD CONSISTING OF POLYTHENE SHEETS WEIGHTING 0.12 KG/ SQM, WITH 75MM OVER LAPS, ALONG ROOF SLOPE, THIRD COURSE OF COLD CUT BACK BITUMEN B.S. GRADE @ 1.0 KG/ SQM AS PER I.S. 7290 AND THE FOURTH AND FINAL COURSE OF 1:1.5:3 CEMENT CONCRETE, 25MM THICK WITH WATER PROOFING COMPOUND (RECRO.N.3S) AS PER SPECIFICATIONS, INCLUDING ALL MATERIALS, LABOUR AND T & P ETC. REQUIRED FOR PROPER COMPLETION OF WORK.

NOTES:-

- ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- ALL WINDOWS AND VENTILATORS ON GROUND FLOOR OF ALL BUILDINGS SHALL BE PROVIDED WITH SUITABLE MS GRILL.
- ALL DOOR-WINDOW, ETC. HEIGHT SHALL BE CONSIDERED FROM FINISH FLOOR LEVEL.
- EL(+100.00M) CORRESPONDS TO TOP LEVEL OF ROAD (T.B.M.) WHICH IS (+100.00M) ABSOLUTE ELEVATION.
- EL. (+)99.95 M CORRESPONDS TO TOP OF SWITCHYARD ROAD.
- FOR GIS ROOM FLOORING REFER DETAIL DRAWING.

REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHD/APPD			CHD/APPD			CHD/APPD			CHD/APPD
ZONE			ZONE			ZONE			ZONE		

PROJECT: 400/220/132KV GIS SUBSTATION AT SHAMLI (U.P.)			
CUSTOMER: UTTAR PRADESH POWER TRANSMISSION CORPORATION LIMITED			
BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION BUSINESS GROUP NOIDA			
STRUCTURAL CONSULTANTS:- STRUC MECH ENGINEERS PVT. LTD. 87, OLD A.G. COLONY, KADRU, RANCHI. ☎ PH. 0651 2340631, FAX 0651 2340631		NAME	SIGN.
		DRN.	Subrata
		CHD.	Madhuk
		APPD.	Madhuk
		DATE	27.03.19
		DATE	27.03.19
		DATE	27.03.19
DEPT. TBG CODE	UNTOL. DIMS. GR. 2/M/F	SCALE	WEIGHT (KG)
		N.T.S	N.A.
TITLE 400KV GIS BUILDING ARCHITECTURAL GROUND FLOOR PLAN & FINISHES SCHEDULE		CARD CODE	REF. TO ASSY. DRG.
		NA	N.A.
		DRG.NO. TB-1-406-607-640-1	ITEM NO. N.A.
		SHT. No 01	NO. OF SHT. 03
		REV.	NO. OF ITEMS
		00	N.A.

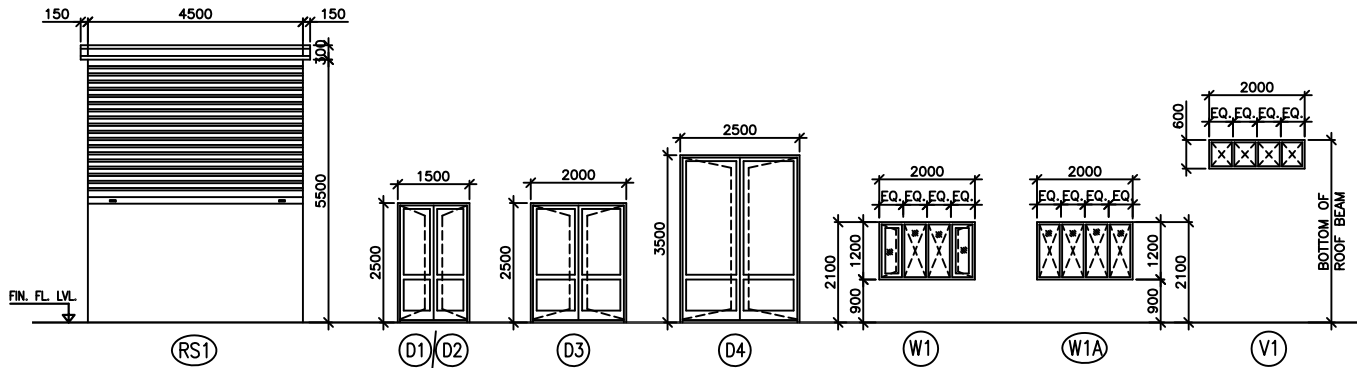


PLAN AT EL(+100.60M (F.F.L.)
(SCALE- 1:100)

ILLUSTRATION OF FINISHES.			FINISHES OF SCHEDULE						
<table border="1"><tr><td>WALL SERIES 100</td><td>FLOORING SERIES 200</td></tr><tr><td>CEILING SERIES 300</td><td>SKIRTING/ DADO SERIES 400</td></tr></table>			WALL SERIES 100	FLOORING SERIES 200	CEILING SERIES 300	SKIRTING/ DADO SERIES 400	WALL FINISHES--		
WALL SERIES 100	FLOORING SERIES 200								
CEILING SERIES 300	SKIRTING/ DADO SERIES 400								
			SR.NO.	CODE NO.	DESCRIPTION				
			1.	101	ACRYLIC DISTEMPER EXTERNAL FINISHED OF WALL--WATER PROOF EXTERIOR EMULSION PAINT OF APEX ULTIMATE (ASIAN) / WEATHER SHIELD MAX (ICI) OR EQUIVALENT				
			2.	102	ACRYLIC EMULSION PAINT				
SKIRTING/DADO FINISHES			FLOORING FINISHES						
1.	401	20mm THK. (1:2) CEMENT PLASTER SKIRTING 150 MM HIGH	1.	201	CEMENT CONCRETE FLOORING(1:2:4) 40mm THK. WITH GLASS STRIP PANEL				
2.	402	VITRIFIED TILES	2.	202	VITRIFIED TILES				
CEILING FINISHES									
1.	301	ACRYLIC DISTEMPER							
2.	302	ARYLIC EMULSION PAINT							

PLASTER:
INTERNAL:
12mm THK. PLASTER (1:4 CEMENT : SAND)
EXTERNAL:
12mm THK. PLASTER (1:4 CEMENT : SAND)
CEILING EXCEPT FOR WHERE FALSE CEILING WILL BE PROVIDED.
6mm THK. PLAIN PLASTER (1:4 CEMENT : SAND)

REFERENCE DRAWING:-
1 OVERALL GENERAL ARRANGEMENT DRAWING -
1 CONCEPTUAL DRAWING FOR 400KV GIS BUILDING - TB-1-406-316-005



LEGEND:-
[Symbol] SIDE HUNG OPENABLE PANEL
[Symbol] FIXED GLASS PANEL
F.F.L. = FINISH FLOOR LEVEL
F.G.L. = FINISH GRADE LEVEL
H.P. = HIGH POINT
L.P. = LOWER POINT
T.O.C. = TOP OF CONCRETE
F.F.L. = FINISH FLOOR LEVEL
F.G.L. = FINISH GROUND LEVEL

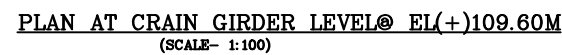
WATER PROOFING ON ROOF
PROVIDING AND APPLYING FOUR COURSES OF WATER PROOFING TREATMENT AT ROOFS CONSISTING FIRST COURSE OF STRAIGHT RUN 85/25 GRADE BITUMEN CONFIRMING TO I.S. 73-1961@0.7 KG/SQM, SECOND COURSE OF ROOF GUARD CONSISTING OF POLYTHENE SHEETS WEIGHTING 0.12 KG/ SQM, WITH 75MM OVER LAPS, ALONG ROOF SLOPE, THIRD COURSE OF COLD CUT BACK BITUMEN B.S. GRADE @ 1.0 KG/ SQM AS PER I.S. 7290 AND THE FOURTH AND FINAL COURSE OF 1:1.5:3 CEMENT CONCRETE, 25MM THICK WITH WATER PROOFING COMPOUND (RECRO.N.3S) AS PER SPECIFICATIONS, INCLUDING ALL MATERIALS, LABOUR AND T & P ETC. REQUIRED FOR PROPER COMPLETION OF WORK.

NOTES:-

- 1 ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- 2 ALL WINDOWS AND VENTILATORS ON GROUND FLOOR OF ALL BUILDINGS SHALL BE PROVIDED WITH SUITABLE MS GRILL.
3. ALL DOOR-WINDOW, ETC. HEIGHT SHALL BE CONSIDERED FROM FINISH FLOOR LEVEL.
4. EL(+100.00M) CORRESPONDS TO TOP LEVEL OF ROAD (T.B.M.) WHICH IS (+100.00M) ABSOLUTE ELEVATION.
5. EL. (+)99.95 M CORRESPONDS TO TOP OF SWITCHYARD ROAD.
6. FOR GIS ROOM FLOORING REFER DETAIL DRAWING.

REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHD/APPD			CHD/APPD			CHD/APPD			CHD/APPD
ZONE			ZONE			ZONE			ZONE		

PROJECT: 400/220/132kV GIS SUBSTATION AT SHAMLI (U.P.)			
CUSTOMER: UTTAR PRADESH POWER TRANSMISSION CORPORATION LIMITED			
BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION BUSINESS GROUP NOIDA			
STRUCTURAL CONSULTANTS:- STRUC MECH ENGINEERS PVT. LTD. 87, OLD A.G. COLONY, KADRU, RANCHI. ☎ PH. 0651 2340631, FAX 0651 2340631		NAME	SIGN.
SME		DRN.	Subrata
		CHD.	Madhuk
		APPD.	Madhuk
		DATE	27.03.19
		DATE	27.03.19
		DATE	27.03.19
DEPT. TBG CODE	UNTOL. DIMS. GR. g/M/F	SCALE	WEIGHT (KG)
		N.T.S	N.A.
TITLE 400KV GIS BUILDING ARCHITECTURAL GROUND FLOOR PLAN & FINISHES SCHEDULE		CARD CODE	DRG.NO.
		NA	TB-1-406-607-640-1
		SHT. No 01	NO. OF SHT. 03
		REF. TO ASSY. DRG.	ITEM NO.
		N.A.	N.A.
		NO. OF ITEMS	REV.
		N.A.	00



1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. ALL WINDOWS AND VENTILATORS ON GROUND FLOOR OF ALL BUILDINGS SHALL BE PROVIDED WITH SUITABLE MS GRILL.
3. ALL DOOR-WINDOW, ETC. HEIGHT SHALL BE CONSIDERED FROM FINISH FLOOR LEVEL.
4. EL(±)0.00M CORRESPONDS TO TOP LEVEL OF ROAD (T.B.M.) WHICH IS (+)100.00M ABSOLUTE ELEVATION.
5. EL. (+)99.95 M CORRESPONDS TO TOP OF SWITCHYARD ROAD.

REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHD/APPD			CHD/APPD			CHD/APPD			CHD/APPD
ZONE			ZONE			ZONE			ZONE		

 SIDE HUNG OPENABLE PANEL
 FIXED GLASS PANEL
 FFL = FINISH FLOOR LEVEL
 FGL = FINISH GRADE LEVEL
 H.P. = HIGH POINT
 L.P. = LOWER POINT
 TOC = TOP OF CONCRETE
 FFL = FINISH FLOOR LEVEL
 FGL = FINISH GRADE LEVEL

-640-1	REV. 00
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REMARK
R SPECIFICATION

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. ALL WINDOWS AND VENTILATORS ON GROUND FLOOR OF ALL BUILDINGS SHALL BE PROVIDED WITH SUITABLE MS GRILL.
3. ALL DOOR-WINDOW, ETC. HEIGHT SHALL BE CONSIDERED FROM FINISH FLOOR LEVEL.
4. EL(±)0.00M CORRESPONDS TO TOP LEVEL OF ROAD (T.B.M.) WHICH IS (+)100.00M ABSOLUTE ELEVATION.
5. EL. (+)99.95 M CORRESPONDS TO TOP OF SWITCHYARD ROAD.
6. FOR GIS ROOM FLOORING REFER DETAIL DRAWING.

PROJECT:

400/220/132kV GIS SUBSTATION AT SHAMLI (U.P.)

CUSTOMER:

UTTAR PRADESH POWER TRANSMISSION CORPORATION LIMITED



BHARAT HEAVY ELECTRICALS LTD.
TRANSMISSION BUSINESS GROUP
NOIDA



STRUCTURAL CONSULTANTS:--
STRUC MECH ENGINEERS PVT. LTD.
87, OLD A.G. COLONY, KADRU, RANCHI.
☎ PH. 0651 2340631, FAX 0651 2340631

	NAME	SIGN.	DATE	NO.OF VAR.
DRN.	Subrata		27.03.19	
CHD.	Mukesh		27.03.19	N. A.
APPD.	Mukesh		27.03.19	

DEPT. TBG CODE	UNTOL DIMS. GR. ø/M/°		SCALE N. T. S	WEIGHT (KG) N. A.	REF. TO ASSY. DRG. N. A.	ITEM NO. N. A.	NO.OF ITEMS N. A.
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TITLE

400KV GIS BUILDING
ARCHITECTURAL TERRACE PLAN

CARD CODE NA	DRG. NO. TB-1-406-607-640-1	REV. 00
SHT. No 03		NO. OF SHT. 03

F

E

D

C

B

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F

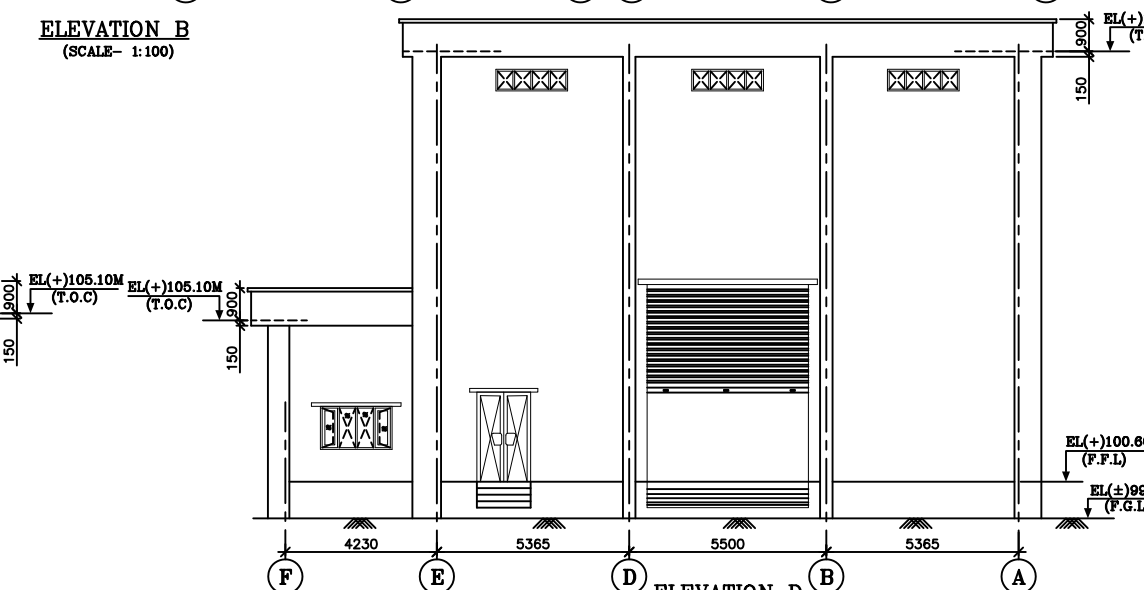
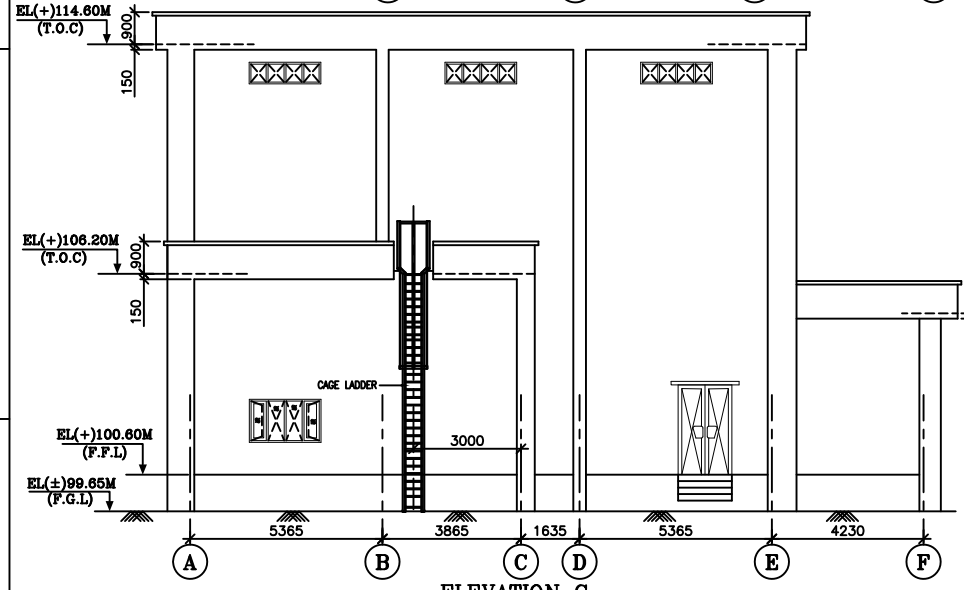
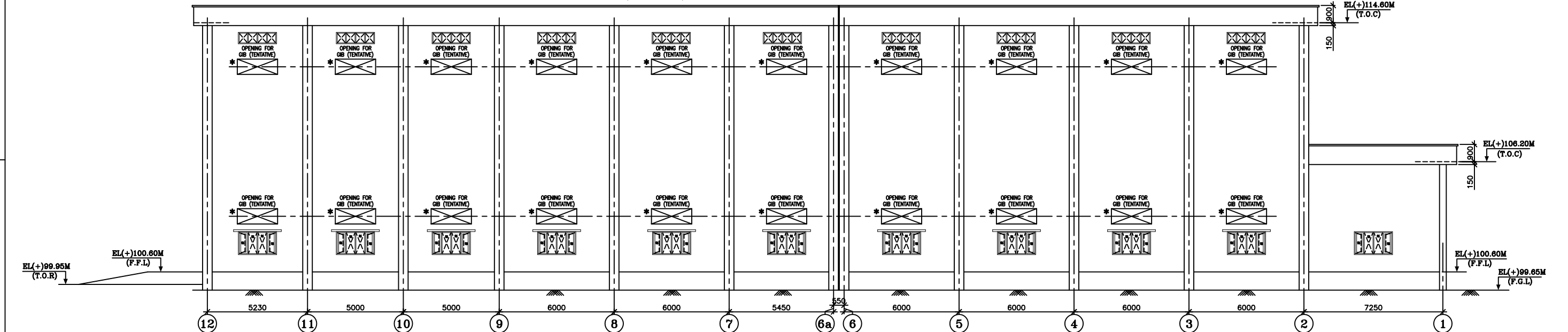
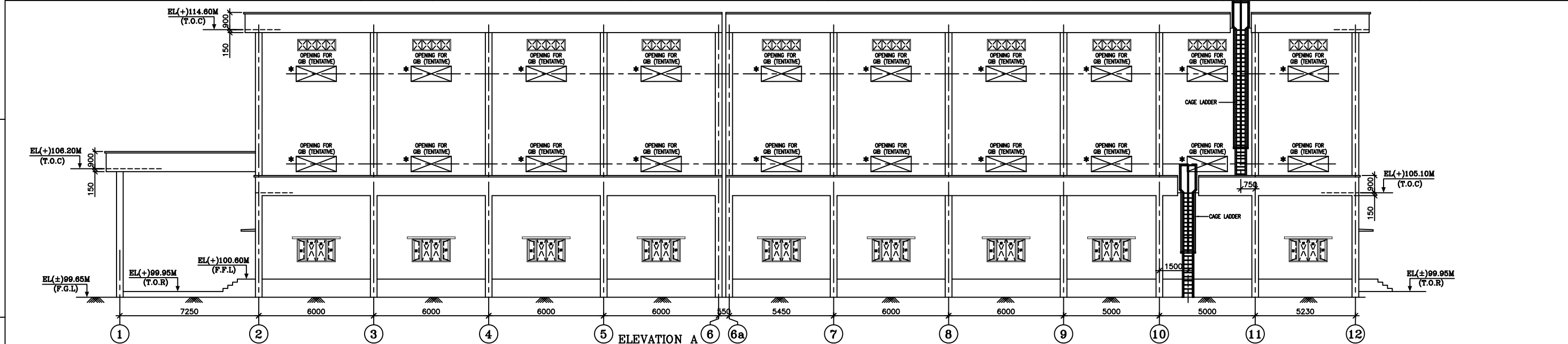
E

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A



NOTES:-

- 1 ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- 2 ALL WINDOWS AND VENTILATORS ON GROUND FLOOR OF ALL BUILDINGS SHALL BE PROVIDED WITH SUITABLE MS GRILL.
3. ALL DOOR-WINDOW, ETC. HEIGHT SHALL BE CONSIDERED FROM FINISH FLOOR LEVEL.
4. EL(±)0.00M CORRESPONDS TO TOP LEVEL OF ROAD (T.B.M.) WHICH IS (+)100.00M ABSOLUTE ELEVATION.
5. EL. (+)99.95 M CORRESPONDS TO TOP OF SWITCHYARD ROAD.
6. FOR GIS ROOM FLOORING REFER DETAIL DRAWING.

REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHD/APPD			CHD/APPD			CHD/APPD			CHD/APPD
ZONE			ZONE			ZONE			ZONE		

* RECTANGULAR CUTOUT TO BE PROVIDED CUTOUT DIMENSION & LOCATION SHALL BE PROVIDED AS PER GIS MANUFACTURE

PROJECT: 400/220/132kV GIS SUBSTATION AT SHAMLI (U.P.)											
CUSTOMER: UTTAR PRADESH POWER TRANSMISSION CORPORATION LIMITED											
			BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION BUSINESS GROUP NOIDA								
 STRUCTURAL CONSULTANTS:- STRUC MECH ENGINEERS PVT. LTD. 87, OLD A.G. COLONY, KADRU, RANCHI. ☎ PH. 0651 2340631, FAX 0651 2340631						NAME	SIGN.	DATE	NO.OF VAR.		
					DRN.	Subrata		27.03.19	N.A.		
					CHD.	Madhush		27.03.19			
					APPD.	Madhush		27.03.19			
DEPT. TBG CODE	UNTOL DIMS. GR. 2/M/F		SCALE N.T.S	WEIGHT (KG) N.A.	REF. TO ASSY. DRG. N.A.		ITEM NO. N.A.		NO.OF ITEMS N.A.		
TITLE 400KV GIS BUILDING ARCHITECTURAL ELEVATIONS					CARD CODE NA	DRG.NO. TB-1-406-607-640-2			REV. 00		
						SHT. No 01		NO. OF SHT. 01			

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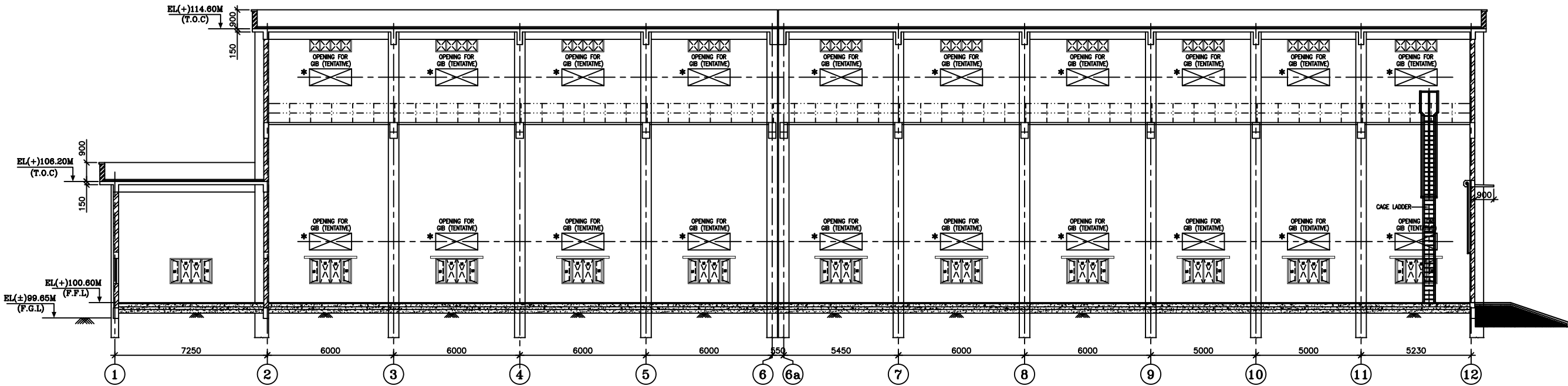
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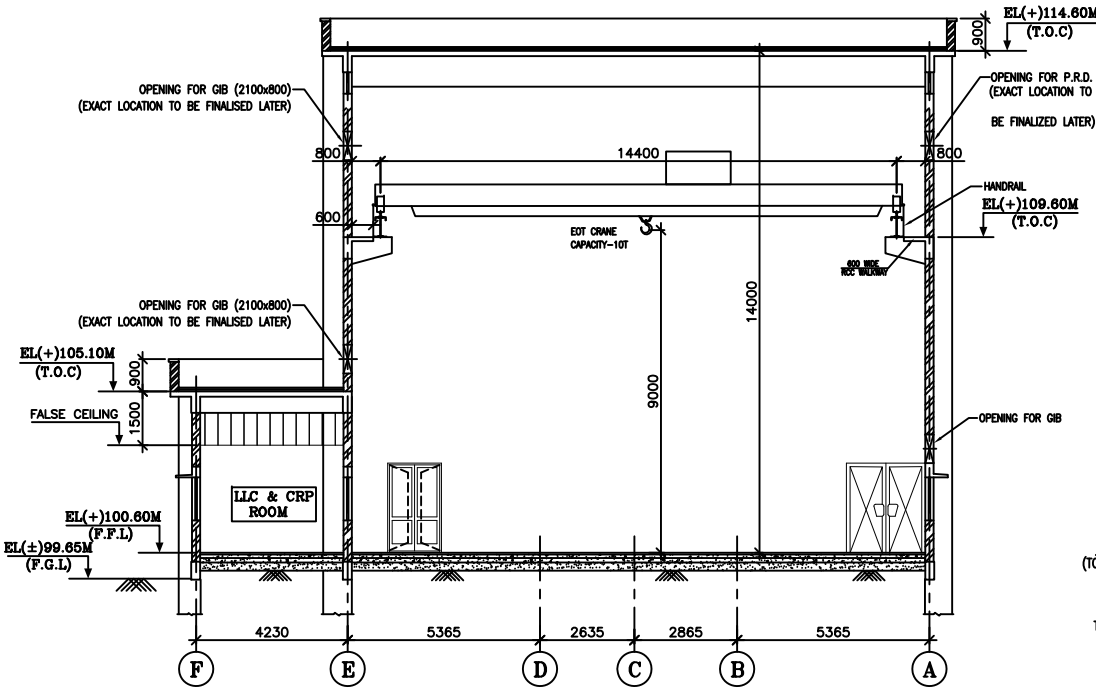
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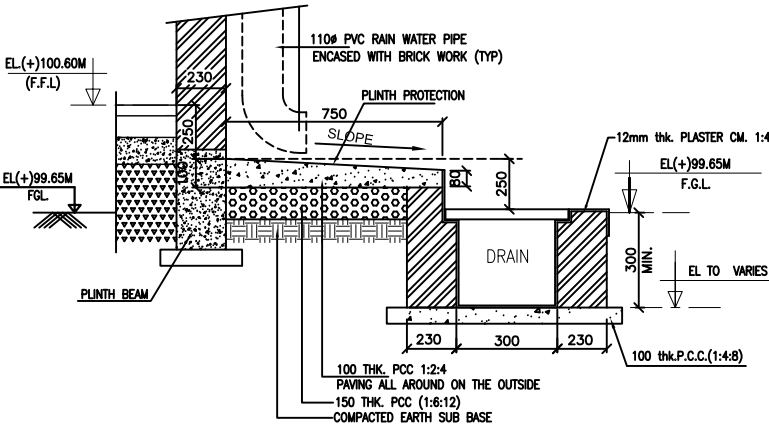
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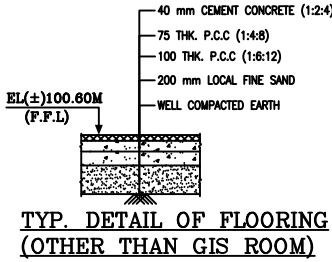
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(SCALE- 1:100)



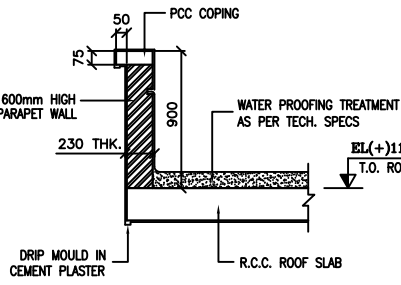
SECTION 1-1



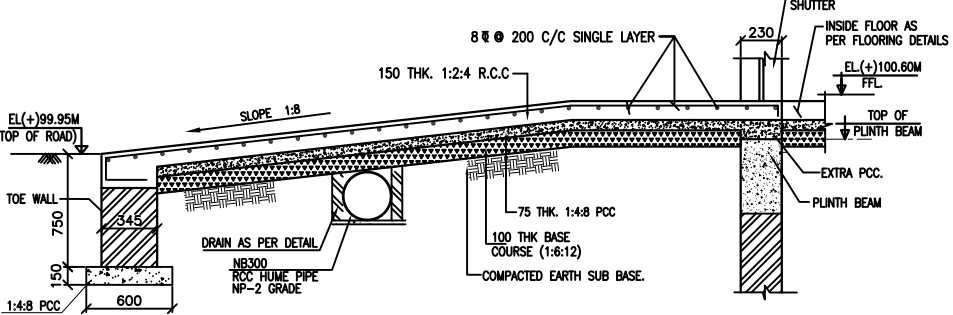
PLINTH PROTECTION ALONG BUILDING
WITH DRAIN-TYPICAL



TYP. DETAIL OF FLOORING
(OTHER THAN GIS ROOM)



TYP. DETAIL OF PARAPET



DETAIL OF RAMP

NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. ALL WINDOWS AND VENTILATORS ON GROUND FLOOR OF ALL BUILDINGS SHALL BE PROVIDED WITH SUITABLE MS GRILL.
3. ALL DOOR-WINDOW, ETC. HEIGHT SHALL BE CONSIDERED FROM FINISH FLOOR LEVEL.
4. EL(+100.00M) CORRESPONDS TO TOP LEVEL OF ROAD (T.B.M.) WHICH IS (+)100.00M ABSOLUTE ELEVATION.
5. EL. (+)99.95 M CORRESPONDS TO TOP OF SWITCHYARD ROAD.
6. FOR GIS ROOM FLOORING REFER DETAIL DRAWING.

REV.	DATE	ALTERED CHD/APPD	REV.	DATE	ALTERED CHD/APPD	REV.	DATE	ALTERED CHD/APPD	REV.	DATE	ALTERED CHD/APPD
ZONE			ZONE			ZONE			ZONE		

PROJECT:

400/220/132kV GIS SUBSTATION AT SHAMLI (U.P.)

CUSTOMER:

UTTAR PRADESH POWER TRANSMISSION CORPORATION LIMITED



BHARAT HEAVY ELECTRICALS LTD.
TRANSMISSION BUSINESS GROUP
NOIDA



STRUCTURAL CONSULTANTS:-
STRUC MECH ENGINEERS PVT. LTD.
87, OLD A.G. COLONY, KADRU, RANCHI.
☎ PH. 0651 2340631, FAX 0651 2340631

	NAME	SIGN.	DATE	NO.OF VAR.
DRN.	Subrata		27.03.19	
CHD.	Madhush		27.03.19	N.A.
APPD.	Madhush		27.03.19	

DEPT. TBG CODE	UNTOL. DIMS. GR. 2/M/F		SCALE N.T.S	WEIGHT (KG) N.A.	REF. TO ASSY. DRG. N.A.	ITEM NO. N.A.	NO.OF ITEMS N.A.
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TITLE 400KV GIS BUILDING ARCHITECTURAL SECTIONS	CARD CODE NA	DRG.NO. TB-1-406-607-640-3	REV. 00
		SHT. No 01	NO. OF SHT. 01

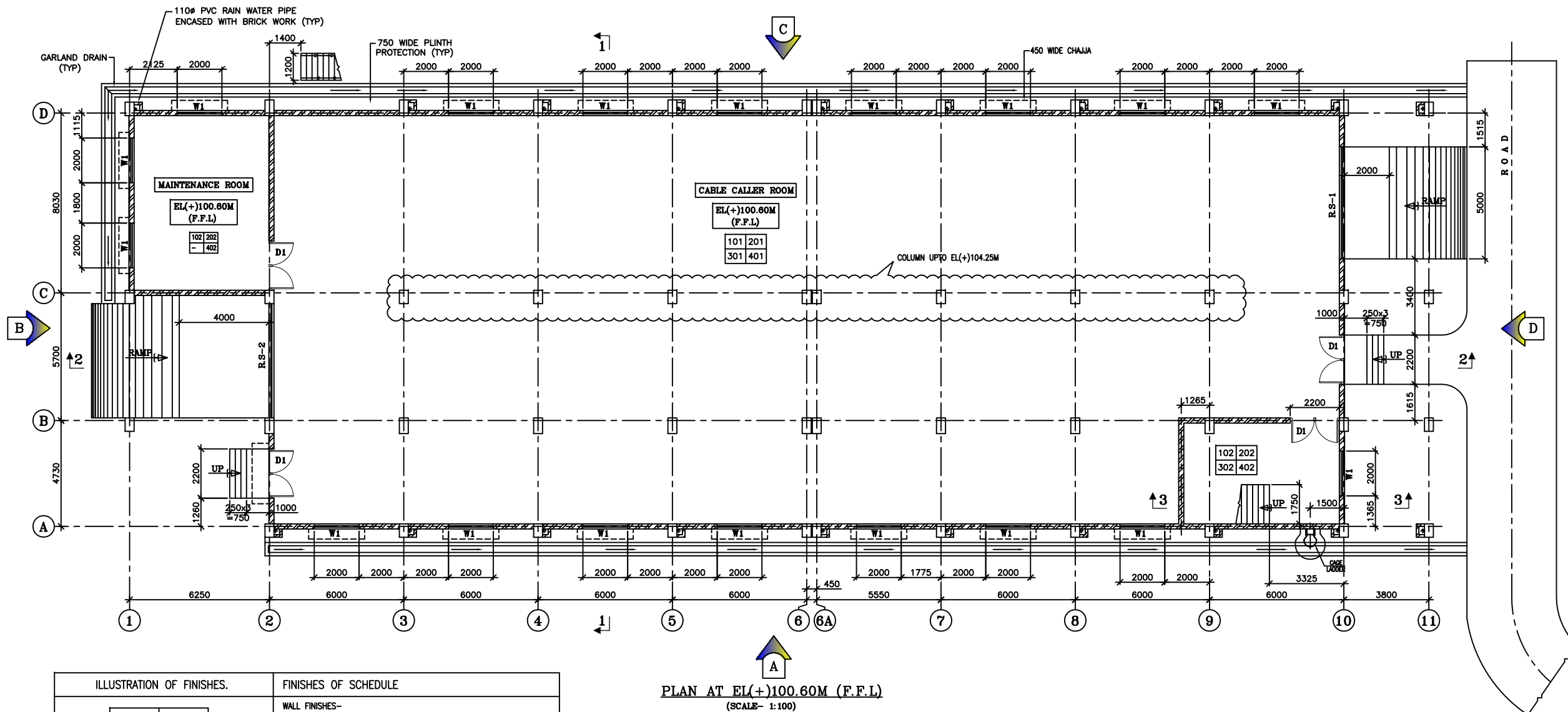
PLAN AT EL(+100.60M (F.F.L.)
(SCALE- 1:100)

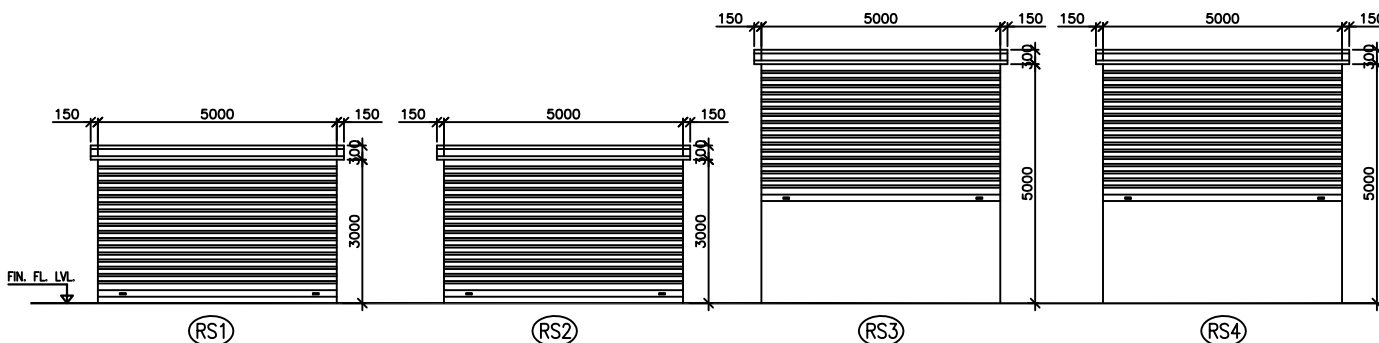
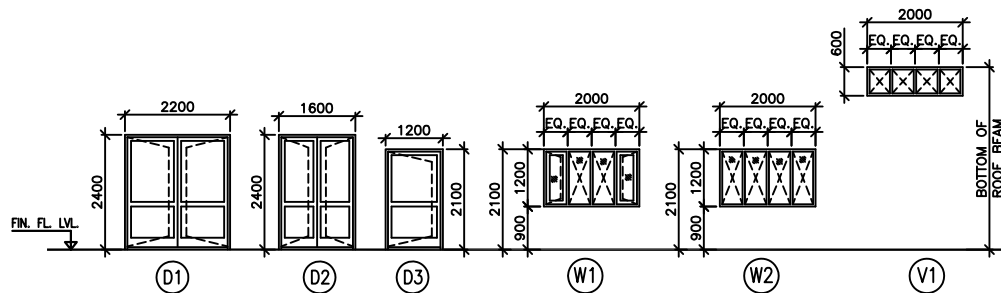
ILLUSTRATION OF FINISHES.			FINISHES OF SCHEDULE																		
<table border="1"><tr><td>WALL SERIES 100</td><td>FLOORING SERIES 200</td></tr><tr><td>CEILING SERIES 300</td><td>SKIRTING/ DADO SERIES 400</td></tr></table>	WALL SERIES 100	FLOORING SERIES 200	CEILING SERIES 300	SKIRTING/ DADO SERIES 400	<table><tr><th colspan="3">WALL FINISHES--</th></tr><tr><th>SR.NO.</th><th>CODE NO.</th><th>DESCRIPTION</th></tr><tr><td>1.</td><td>101</td><td>ACRYLIC DISTEMPER EXTERNAL FINISHED OF WALL--WATER PROOF EXTERIOR EMULSION PAINT OF APEX ULTIMATE (ASIAN) / WEATHER SHIELD MAX (ICI) OR EQUIVALENT</td></tr><tr><td>2.</td><td>102</td><td>ACRYLIC EMULSION PAINT</td></tr></table>					WALL FINISHES--			SR.NO.	CODE NO.	DESCRIPTION	1.	101	ACRYLIC DISTEMPER EXTERNAL FINISHED OF WALL--WATER PROOF EXTERIOR EMULSION PAINT OF APEX ULTIMATE (ASIAN) / WEATHER SHIELD MAX (ICI) OR EQUIVALENT	2.	102	ACRYLIC EMULSION PAINT
	WALL SERIES 100	FLOORING SERIES 200																			
	CEILING SERIES 300	SKIRTING/ DADO SERIES 400																			
	WALL FINISHES--																				
SR.NO.	CODE NO.	DESCRIPTION																			
1.	101	ACRYLIC DISTEMPER EXTERNAL FINISHED OF WALL--WATER PROOF EXTERIOR EMULSION PAINT OF APEX ULTIMATE (ASIAN) / WEATHER SHIELD MAX (ICI) OR EQUIVALENT																			
2.	102	ACRYLIC EMULSION PAINT																			
SKIRTING/DADO FINISHES			FLOORING FINISHES																		
1.	401	20mm THK. (1:2) CEMENT PLASTER SKIRTING 150 MM HIGH	1.	201	CEMENT CONCRETE FLOORING(1:2:4) 40mm THK. WITH GLASS STRIP PANEL																
2.	402	VITRIFIED TILES	2.	202	VITRIFIED TILES																
CEILING FINISHES																					
1.	301	ACRYLIC DISTEMPER																			
2.	302	ARYLIC EMULSION PAINT																			

PLASTER:

INTERNAL:
12mm THK. PLASTER (1:4 CEMENT : SAND)
EXTERNAL:
12mm THK. PLASTER (1:4 CEMENT : SAND)
CEILING EXCEPT FOR WHERE FALSE CEILING WILL BE PROVIDED.
6mm THK. PLAIN PLASTER (1:4 CEMENT : SAND)

WATER PROOFING ON ROOF

PROVIDING AND APPLYING FOUR COURSES OF WATER PROOFING TREATMENT AT ROOFS CONSISTING FIRST COURSE OF STRAIGHT RUN 85/25 GRADE BITUMEN CONFIRMING TO I.S. 73-1961@0.7 KG/SQM, SECOND COURSE OF ROOF GUARD SLOPE CONSISTING OF POLYTHENE SHEETS WEIGHTING 0.12 KG/ SQM, WITH 75MM OVER LAPS, ALONG ROOF SLOPE, THIRD COURSE OF COLD CUT BACK BITUMEN B.S. GRADE @ 1.0 KG/ SQM AS PER I.S. 7290 AND THE FOURTH AND FINAL COURSE OF 1:1.5:3 CEMENT CONCRETE, 25MM THICK WITH WATER PROOFING COMPOUND (RECRO-3S) AS PER SPECIFICATIONS, INCLUDING ALL MATERIALS, LABOUR AND T & P ETC. REQUIRED FOR PROPER COMPLETION OF WORK.

**NOTES:-**

- ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- ALL WINDOWS AND VENTILATORS ON GROUND FLOOR OF ALL BUILDINGS SHALL BE PROVIDED WITH SUITABLE MS GRILL.
- ALL DOOR-WINDOW, ETC. HEIGHT SHALL BE CONSIDERED FROM FINISH FLOOR LEVEL.
- EL(+100.00M) CORRESPONDS TO TOP LEVEL OF ROAD (T.B.M.) WHICH IS +100.00M ABSOLUTE ELEVATION.
- EL. (+)99.95 M CORRESPONDS TO TOP OF SWITCHYARD ROAD.

REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHD/APPD			CHD/APPD			CHD/APPD			CHD/APPD
ZONE			ZONE			ZONE			ZONE		

PROJECT:

400/220/132KV GIS SUBSTATION AT SHAMLI (U.P.)

CUSTOMER:

UTTAR PRADESH POWER TRANSMISSION CORPORATION LIMITED



BHARAT HEAVY ELECTRICALS LTD.
TRANSMISSION BUSINESS GROUP
NOIDA

STRUCTURAL CONSULTANTS:-
STRUC MECH ENGINEERS PVT. LTD.
87, OLD A.G. COLONY, KADRU, RANCHI.
☎ PH. 0651 2340631, FAX 0651 2340631

NAME	SIGN.	DATE	NO.OF VAR.
DRN.	Subrata	01.05.19	
CHD.	Madhus	01.05.19	N.A.
APPD.	Madhus	01.05.19	

DEPT. TBG
CODE

UNTOL. DIMS.
GR. 2/M/F

SCALE
N.T.S

WEIGHT (KG)
N.A.

REF. TO ASSY. DRG.
N.A.

ITEM NO.
N.A.

NO.OF ITEMS
N.A.

TITLE
220KV GIS BUILDING
ARCHITECTURAL GROUND FLOOR PLAN &
FINISHING SCHEDULE

CARD CODE
NA

DRG.NO.
TB-1-406-607-651-1

REV.
00

SHT. No 01 NO. OF SHT. 03

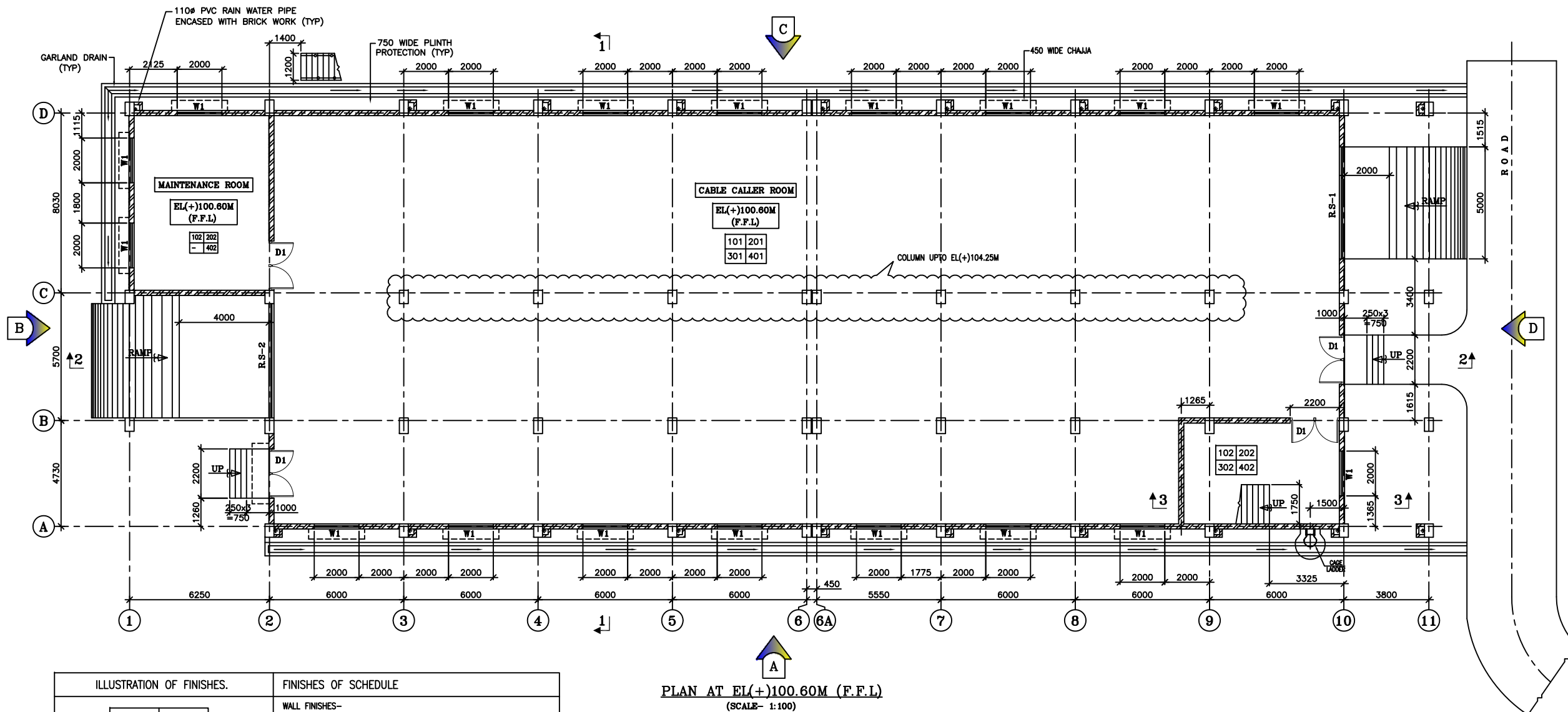
PLAN AT EL(+100.60M (F.F.L.)
(SCALE- 1:100)

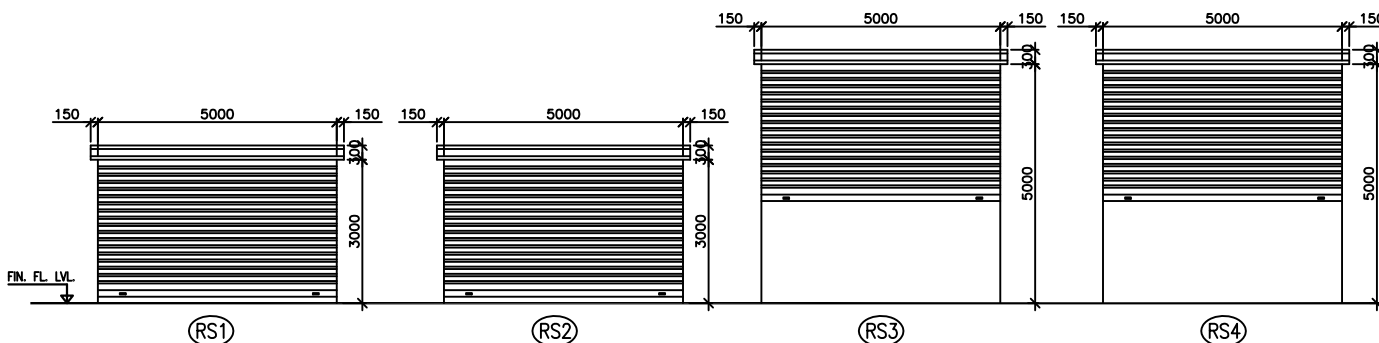
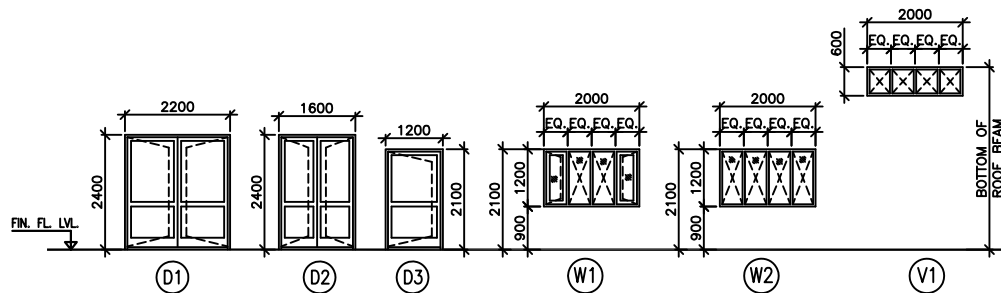
ILLUSTRATION OF FINISHES.			FINISHES OF SCHEDULE																		
<table border="1"><tr><td>WALL SERIES 100</td><td>FLOORING SERIES 200</td></tr><tr><td>CEILING SERIES 300</td><td>SKIRTING/ DADO SERIES 400</td></tr></table>	WALL SERIES 100	FLOORING SERIES 200	CEILING SERIES 300	SKIRTING/ DADO SERIES 400	<table><tr><th colspan="3">WALL FINISHES--</th></tr><tr><th>SR.NO.</th><th>CODE NO.</th><th>DESCRIPTION</th></tr><tr><td>1.</td><td>101</td><td>ACRYLIC DISTEMPER EXTERNAL FINISHED OF WALL--WATER PROOF EXTERIOR EMULSION PAINT OF APEX ULTIMATE (ASIAN) / WEATHER SHIELD MAX (ICI) OR EQUIVALENT</td></tr><tr><td>2.</td><td>102</td><td>ACRYLIC EMULSION PAINT</td></tr></table>					WALL FINISHES--			SR.NO.	CODE NO.	DESCRIPTION	1.	101	ACRYLIC DISTEMPER EXTERNAL FINISHED OF WALL--WATER PROOF EXTERIOR EMULSION PAINT OF APEX ULTIMATE (ASIAN) / WEATHER SHIELD MAX (ICI) OR EQUIVALENT	2.	102	ACRYLIC EMULSION PAINT
	WALL SERIES 100	FLOORING SERIES 200																			
	CEILING SERIES 300	SKIRTING/ DADO SERIES 400																			
	WALL FINISHES--																				
SR.NO.	CODE NO.	DESCRIPTION																			
1.	101	ACRYLIC DISTEMPER EXTERNAL FINISHED OF WALL--WATER PROOF EXTERIOR EMULSION PAINT OF APEX ULTIMATE (ASIAN) / WEATHER SHIELD MAX (ICI) OR EQUIVALENT																			
2.	102	ACRYLIC EMULSION PAINT																			
SKIRTING/DADO FINISHES			FLOORING FINISHES																		
1.	401	20mm THK. (1:2) CEMENT PLASTER SKIRTING 150 MM HIGH	1.	201	CEMENT CONCRETE FLOORING(1:2:4) 40mm THK. WITH GLASS STRIP PANEL																
2.	402	VITRIFIED TILES	2.	202	VITRIFIED TILES																
CEILING FINISHES																					
1.	301	ACRYLIC DISTEMPER																			
2.	302	ARYLIC EMULSION PAINT																			

PLASTER:

INTERNAL:
12mm THK. PLASTER (1:4 CEMENT : SAND)
EXTERNAL:
12mm THK. PLASTER (1:4 CEMENT : SAND)
CEILING EXCEPT FOR WHERE FALSE CEILING WILL BE PROVIDED.
6mm THK. PLAIN PLASTER (1:4 CEMENT : SAND)

WATER PROOFING ON ROOF

PROVIDING AND APPLYING FOUR COURSES OF WATER PROOFING TREATMENT AT ROOFS CONSISTING FIRST COURSE OF STRAIGHT RUN 85/25 GRADE BITUMEN CONFIRMING TO I.S. 73-1961@0.7 KG/SQM, SECOND COURSE OF ROOF GUARD SLOPE CONSISTING OF POLYTHENE SHEETS WEIGHTING 0.12 KG/ SQM, WITH 75MM OVER LAPS, ALONG ROOF SLOPE, THIRD COURSE OF COLD CUT BACK BITUMEN B.S. GRADE @ 1.0 KG/ SQM AS PER I.S. 7290 AND THE FOURTH AND FINAL COURSE OF 1:1.5:3 CEMENT CONCRETE, 25MM THICK WITH WATER PROOFING COMPOUND (RECRO-3S) AS PER SPECIFICATIONS, INCLUDING ALL MATERIALS, LABOUR AND T & P ETC. REQUIRED FOR PROPER COMPLETION OF WORK.

**NOTES:-**

- ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- ALL WINDOWS AND VENTILATORS ON GROUND FLOOR OF ALL BUILDINGS SHALL BE PROVIDED WITH SUITABLE MS GRILL.
- ALL DOOR-WINDOW, ETC. HEIGHT SHALL BE CONSIDERED FROM FINISH FLOOR LEVEL.
- EL(+100.00M) CORRESPONDS TO TOP LEVEL OF ROAD (T.B.M.) WHICH IS +100.00M ABSOLUTE ELEVATION.
- EL. (+)99.95 M CORRESPONDS TO TOP OF SWITCHYARD ROAD.

REV.	DATE	ALTERED CHD/APPD	REV.	DATE	ALTERED CHD/APPD	REV.	DATE	ALTERED CHD/APPD	REV.	DATE	ALTERED CHD/APPD
ZONE			ZONE			ZONE			ZONE		

PROJECT:

400/220/132KV GIS SUBSTATION AT SHAMLI (U.P.)

CUSTOMER:

UTTAR PRADESH POWER TRANSMISSION CORPORATION LIMITED



BHARAT HEAVY ELECTRICALS LTD.
TRANSMISSION BUSINESS GROUP
NOIDA

STRUCTURAL CONSULTANTS:-
STRUC MECH ENGINEERS PVT. LTD.
87, OLD A.G. COLONY, KADRU, RANCHI.
☎ PH. 0651 2340631, FAX 0651 2340631

NAME	SIGN.	DATE	NO.OF VAR.
DRN.	Subrata	01.05.19	
CHD.	Madhus	01.05.19	N.A.
APPD.	Madhus	01.05.19	

DEPT.
TBG
CODE

UNTOL. DIMS.
GR.
2/M/F

SCALE
N.T.S

WEIGHT (KG)
N.A.

REF. TO ASSY. DRG.
N.A.

ITEM NO.
N.A.

NO.OF
ITEMS
N.A.

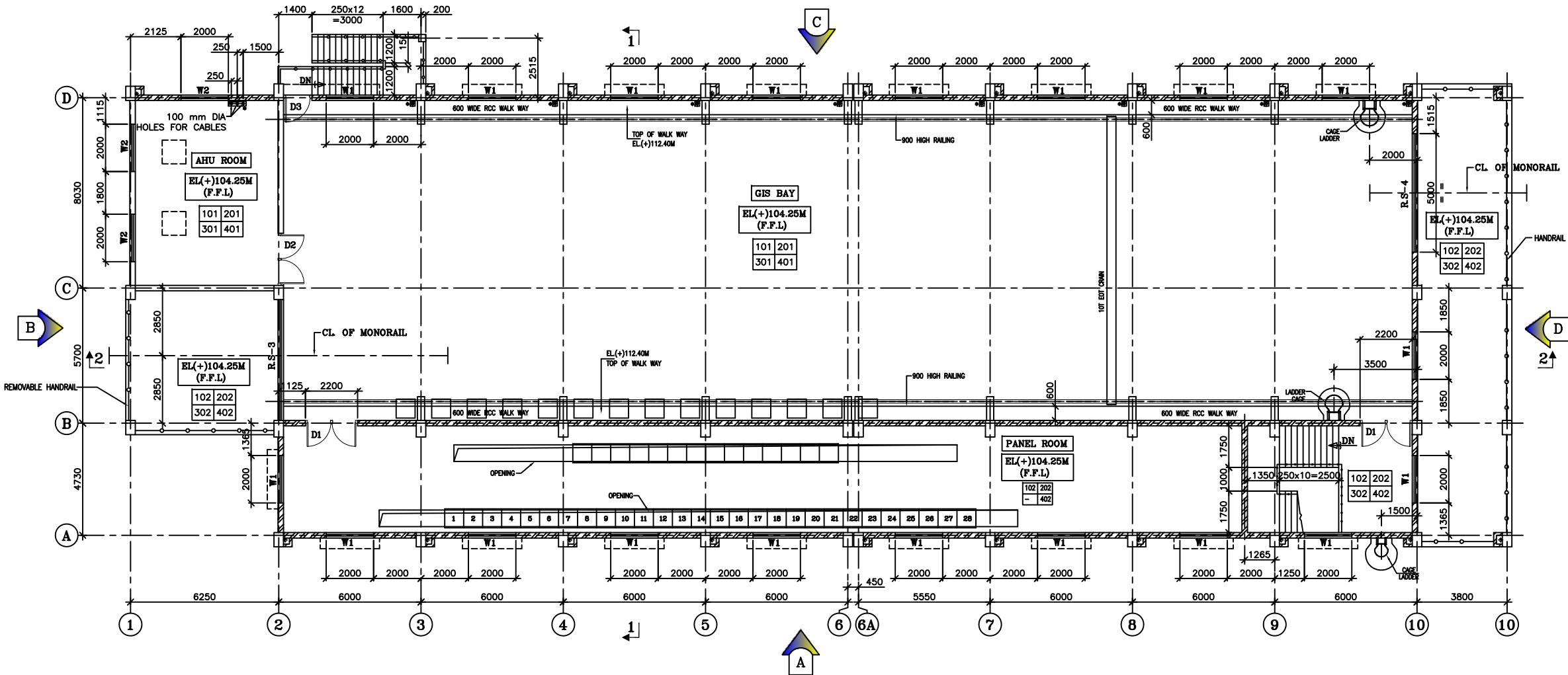
TITLE
220KV GIS BUILDING
ARCHITECTURAL GROUND FLOOR PLAN &
FINISHING SCHEDULE

CARD
CODE
NA

DRG.NO.
TB-1-406-607-651-1

REV.
00

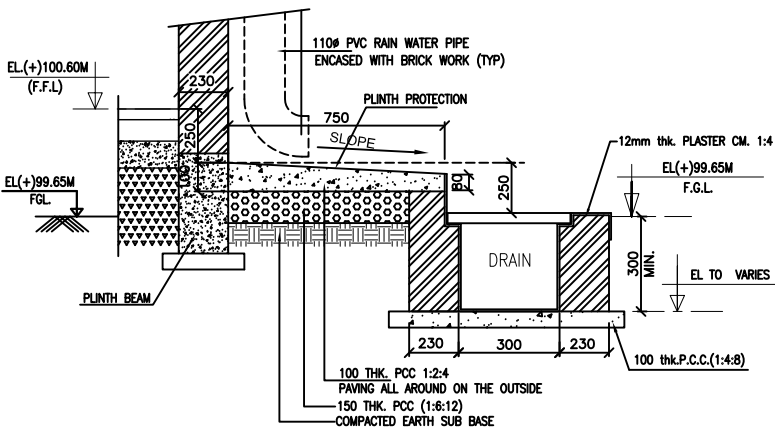
SHT. No 01 NO. OF SHT. 03



- LEGEND:-
- ☐ SIDE HUNG OPENABLE PANEL
 - ☒ FIXED GLASS PANEL
 - F.F.L. = FINISH FLOOR LEVEL
 - F.G.L. = FINISH GRADE LEVEL
 - H.P. = HIGH POINT
 - L.P. = LOWER POINT
 - TOC = TOP OF CONCRETE
 - F.F.L. = FINISH FLOOR LEVEL
 - F.G.L. = FINISH GROUND LEVEL

PLAN AT EL(+104.25M (F.F.L.))
(SCALE- 1:100)

SCHEDULE OF DOORS & WINDOWS							REMARK
TYPE	OPENING SIZE	FRAME SIZE	CILL LEVEL	LINTEL LEVEL	NOS.	DESCRIPTION	AS PER SPECIFICATION
RS-1	5000x3000	4980x2990	-	EL(+103.60M	1	STEEL ROLLING SHUTTER	
RS-2	5000x3000	4980x2990	-	EL(+103.60M	1	STEEL ROLLING SHUTTER	
RS-3	5000x5000	4980x4990	-	EL(+108.25M	1	STEEL ROLLING SHUTTER	
RS-4	5000x5000	4980x4990	-	EL(+108.25M	1	STEEL ROLLING SHUTTER	
D1	2200x2400	2180x2390	-	EL(+103.00M	6	DOUBLE SHUTTER STEEL DOOR	
D2	1600x2400	1580x2390	-	EL(+103.00M	1	DOUBLE SHUTTER STEEL DOOR	
D3	1200x2100	1180x2090	-	EL(+102.70M	1	SINGLE SHUTTER ALUMINIUM DOOR	
W1	2000x1200	1980x1180	900	EL(+102.70M	37	ALUMINIUM WINDOW FULLY GLAZED	
W2	2000x1200	1980x1180	900	EL(+102.70M	3	ALUMINIUM FIXED WINDOW FULLY GLAZED	
V1	2000x600	1980x580	-	SOFFIT OF ROOF BEAM	-	FIXED ALUMINIUM VENTILATOR	



PLINTH PROTECTION ALONG BUILDING
WITH DRAIN-TYPICAL

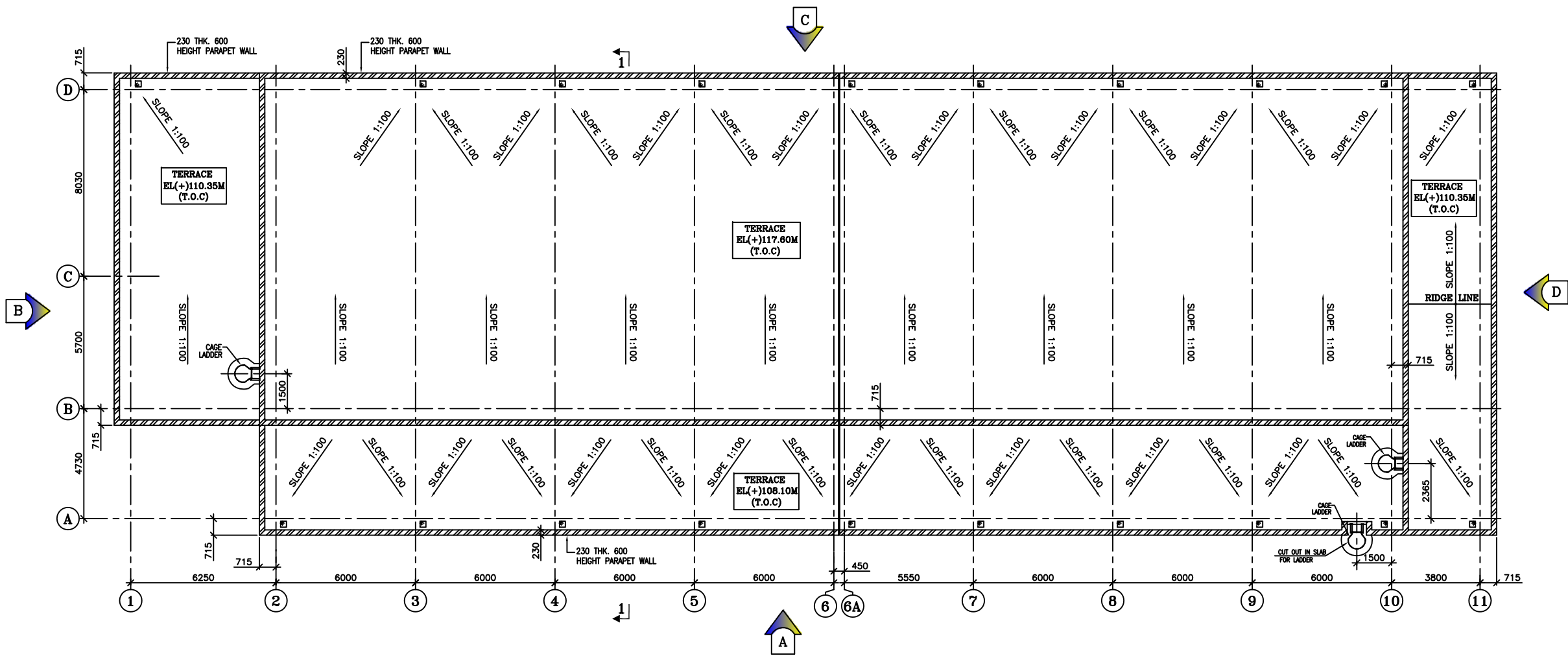
* RECTANGULAR CUTOUT TO BE PROVIDED CUTOUT DIMENSION & LOCATION SHALL BE PROVIDED AS PER GIS MANUFACTURE

PROJECT:				400/220/132kV GIS SUBSTATION AT SHAMLI (U.P.)			
CUSTOMER:				UTTAR PRADESH POWER TRANSMISSION CORPORATION LIMITED			
Bharat Heavy Electricals Ltd.				TRANSMISSION BUSINESS GROUP NOIDA			
STRUCTURAL CONSULTANTS:-				NAME	SIGN.	DATE	NO.OF VAR.
STRUC MECH ENGINEERS PVT. LTD.				DRN.	Subrata	01.05.19	N.A.
87, OLD A.G. COLONY, KADRU, RANCHI.				CHD.	Madhus	01.05.19	N.A.
☎ PH. 0651 2340631, FAX 0651 2340631				APPD.	Madhus	01.05.19	N.A.
DEPT. TBG CODE	UNTOL. DIMS. GR. 2/M/F	SCALE N.T.S.	WEIGHT (KG) N.A.	REF. TO ASSY. DRG. N.A.	ITEM NO. N.A.	NO.OF ITEMS N.A.	REV. N.A.
TITLE 220KV GIS BUILDING ARCHITECTURAL 1st FLOOR PLAN & CRAN GIRDER LEVEL				CARD CODE NA	DRG.NO. TB-1-406-607-651-1	SHT. No 02	NO. OF SHT. 03

NOTES:-

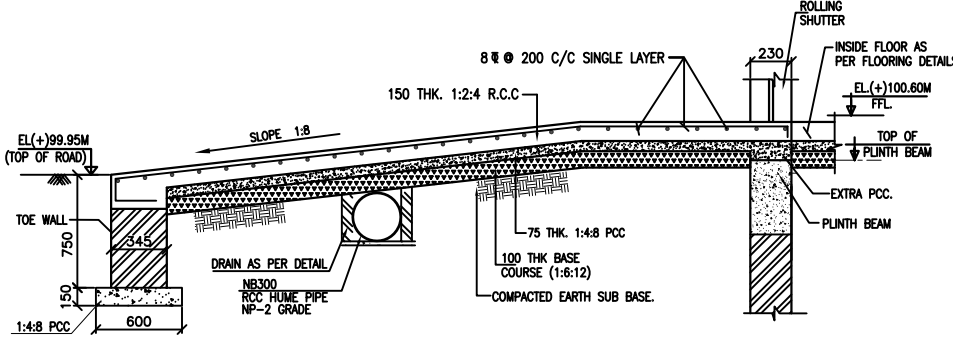
1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
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5. EL. (+)99.95 M CORRESPONDS TO TOP OF SWITCHYARD ROAD.

REV.	DATE	ALTERED CHD/APPD	REV.	DATE	ALTERED CHD/APPD	REV.	DATE	ALTERED CHD/APPD	REV.	DATE	ALTERED CHD/APPD
ZONE			ZONE			ZONE			ZONE		

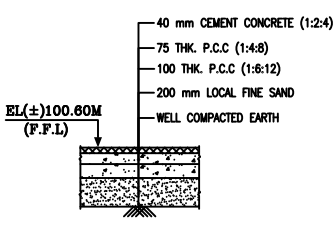


- LEGEND:-
- SIDE HUNG OPENABLE PANEL
 - FIXED GLASS PANEL
 - F.F.L. = FINISH FLOOR LEVEL
 - F.G.L. = FINISH GRADE LEVEL
 - H.P. = HIGH POINT
 - L.P. = LOWER POINT
 - T.O.C. = TOP OF CONCRETE
 - F.F.L. = FINISH FLOOR LEVEL
 - F.G.L. = FINISH GRADE LEVEL

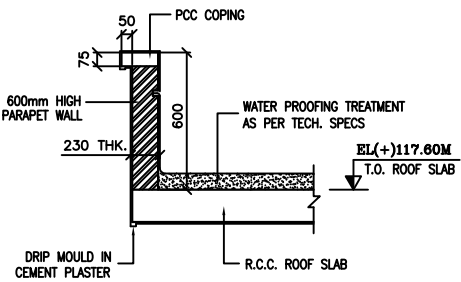
PLAN AT EL(+117.60M (T.O.C)
(SCALE- 1:100)



DETAIL OF RAMP



TYP. DETAIL OF FLOORING



TYP. DETAIL OF PARAPET

NOTES:-

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- EL. (+)99.95 M CORRESPONDS TO TOP OF SWITCHYARD ROAD.

REV.	DATE	ALTERED
		CHD/APPD
ZONE		

REV.	DATE	ALTERED
		CHD/APPD
ZONE		

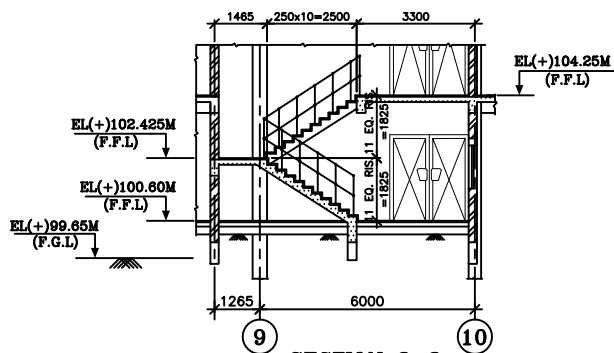
REV.	DATE	ALTERED
		CHD/APPD
ZONE		

REV.	DATE	ALTERED
		CHD/APPD
ZONE		

PROJECT: 400/220/132kV GIS SUBSTATION AT SHAMLI (U.P.)			
CUSTOMER: UTTAR PRADESH POWER TRANSMISSION CORPORATION LIMITED			
BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION BUSINESS GROUP NOIDA			
STRUCTURAL CONSULTANTS:- STRUC MECH ENGINEERS PVT. LTD. 87, OLD A.G. COLONY, KADRU, RANCHI. PH. 0651 2340631, FAX 0651 2340631		NAME	SIGN.
		DRN.	Subrata
		CHD.	Madhush
		APPD.	Madhush
		DATE	01.05.19
		DATE	01.05.19
		DATE	01.05.19
DEPT. TBG CODE	UNTOL. DIMS. GR. 2/M/F	SCALE N.T.S.	WEIGHT (KG) N.A.
TITLE 220KV GIS BUILDING ARCHITECTURAL TERRACE FLOOR PLAN		CARD CODE NA	REF. TO ASSY. DRG. N.A.
		DRG. NO. TB-1-406-607-651-1	ITEM NO. N.A.
		SHT. No 03	NO. OF SHT. 03
		NO. OF ITEMS N.A.	REV. 00



SECTION 2-2
(SCALE- 1:100)



SECTION 3-3
(SCALE- 1:100)

* RECTANGULAR CUTOUT TO BE PROVIDED CUTOUT DIMENSION & LOCATION SHALL BE PROVIDED AS PER GIS MANUFACTURE

SECTION 1-1
(SCALE- 1:100)

NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. ALL WINDOWS AND VENTILATORS ON GROUND FLOOR OF ALL BUILDINGS SHALL BE PROVIDED WITH SUITABLE MS GRILL.
3. ALL DOOR-WINDOW, ETC. HEIGHT SHALL BE CONSIDERED FROM FINISH FLOOR LEVEL.
4. EL(+3)0.00M CORRESPONDS TO TOP LEVEL OF ROAD (T.B.M.) WHICH IS +100.0M ABSOLUTE ELEVATION.
5. EL. (+)99.95 M CORRESPONDS TO TOP OF SWITCHYARD ROAD.

[illegible]

PROJECT:

400/220/132kV GIS SUBSTATION AT SHAMLI (U.P.)

CUSTOMER:

UTTAR PRADESH POWER TRANSMISSION CORPORATION LIMITED



BHARAT HEAVY ELECTRICALS LTD.
TRANSMISSION BUSINESS GROUP
NOIDA



STRUCTURAL CONSULTANTS:-
STRUC MECH ENGINEERS PVT. LTD.
87, OLD A.G. COLONY, KADRU, RANCHI.
☎ P. 0651 2340631, FAX 0651 2340631

	NAME	SIGN.	DATE	NO. OF VAR.
DRN.	Subrata		01.05.19	N.A.
CHD.	Mishra		01.05.19	
APPD.	Mishra		01.05.19	

DEPT. TBG	UNTOL DIMS.		SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEMS
CODE	GR. ♂/M/♀		N.T.S	N.A.	N.A.	N.A.	N.A.

TITLE	220KV GIS BUILDING ARCHITECTURAL SECTIONS	CARD CODE NA	DRG. NO. TB-1-406-607-651-3	REV. 00
			SHT. No 01	NO. OF SHT. 01

F

F

E

E

D

D

C

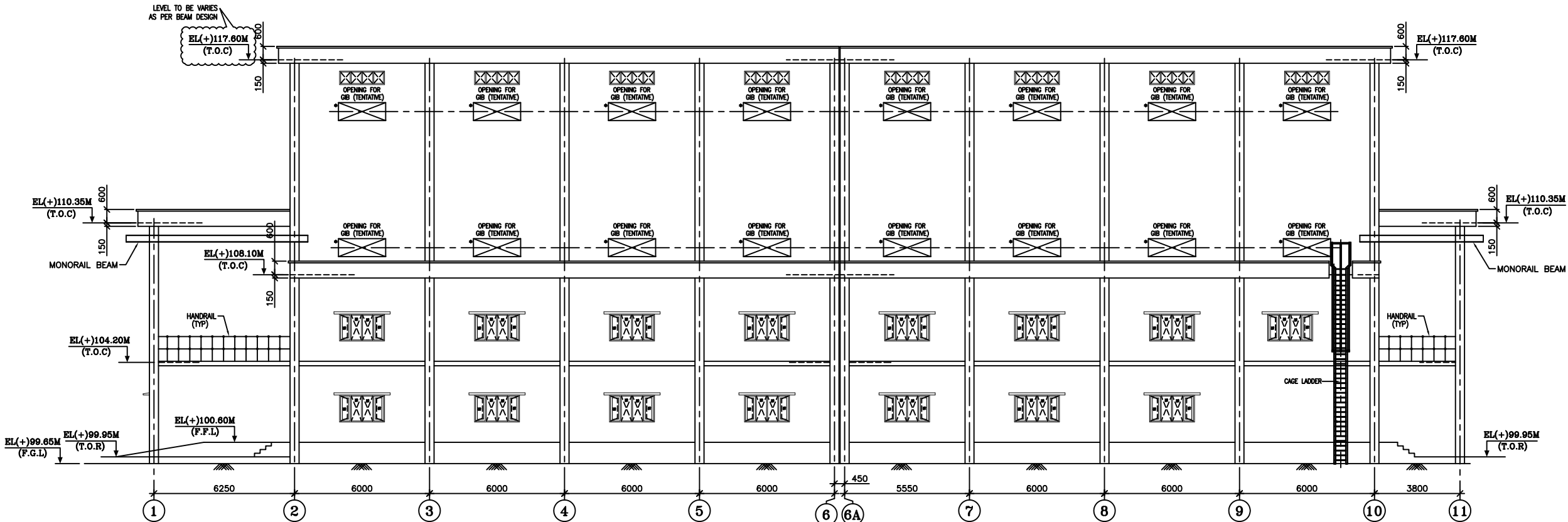
C

B

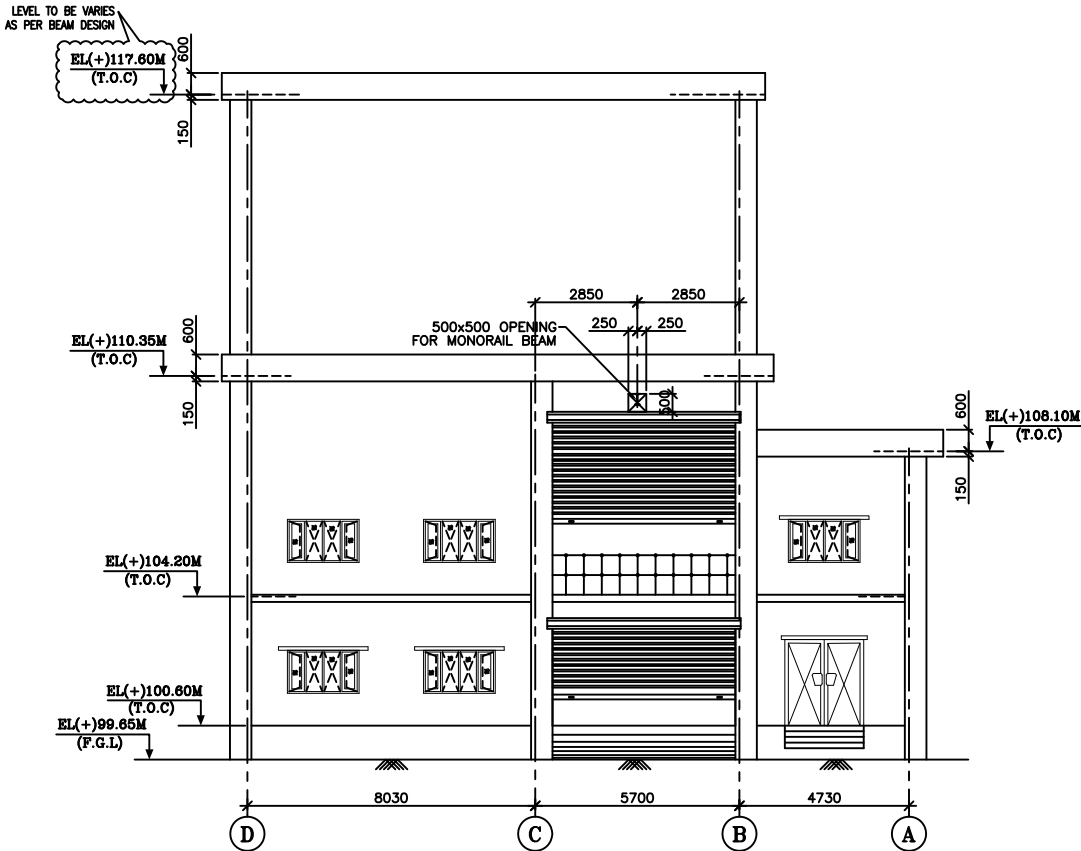
B

A

A



ELEVATION - A



ELEVATION - B

NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
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REV.	DATE	ALTERED CHD/APPD	REV.	DATE	ALTERED CHD/APPD	REV.	DATE	ALTERED CHD/APPD	REV.	DATE	ALTERED CHD/APPD
ZONE			ZONE			ZONE			ZONE		

PROJECT:

400/220/132kV GIS SUBSTATION AT SHAMLI (U.P.)

CUSTOMER:

UTTAR PRADESH POWER TRANSMISSION CORPORATION LIMITED



BHARAT HEAVY ELECTRICALS LTD.
TRANSMISSION BUSINESS GROUP
NOIDA



STRUCTURAL CONSULTANTS:-
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	DRN.	Subrata		01.05.19	N.A.
	CHD.	Mishra		01.05.19	
	APPD.	Mishra		01.05.19	

DEPT. TBG CODE	UNTOL DIMS. GR. ℓ/M/F		SCALE N.T.S	WEIGHT (KG) N.A.	REF. TO ASSY. DRG. N.A.	ITEM NO. N.A.	NO.OF ITEMS N.A.
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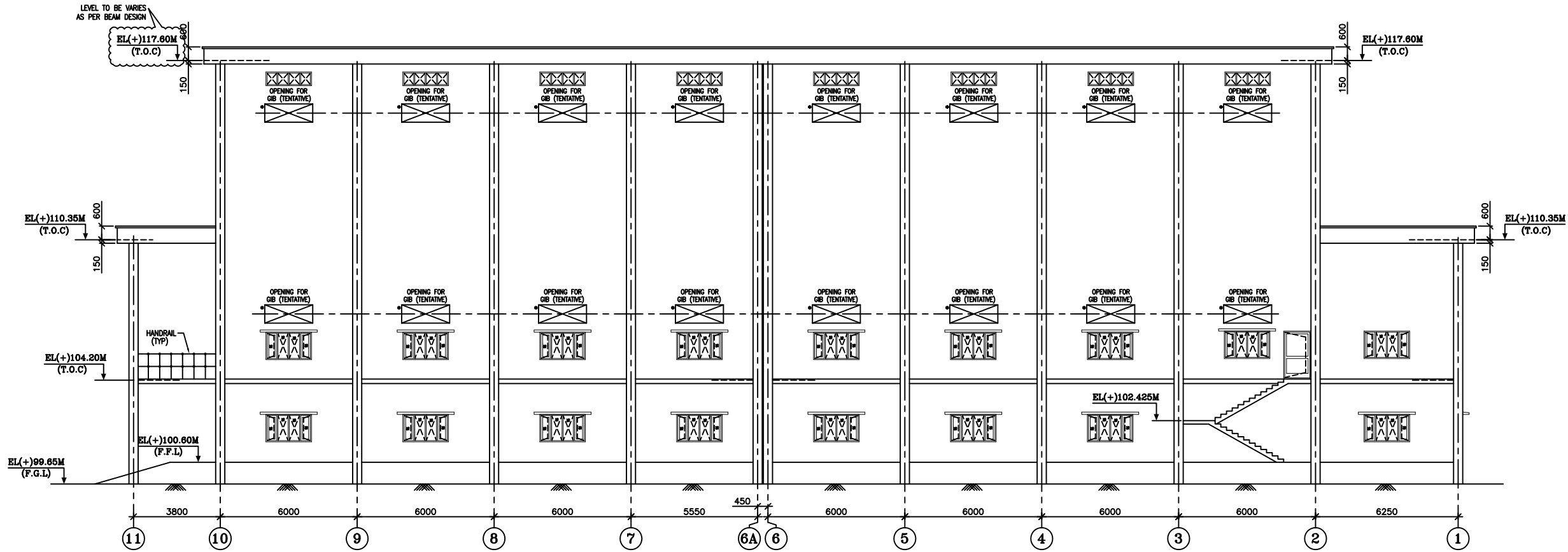
TITLE
220KV GIS BUILDING
ARCHITECTURAL ELEVATION

CARD
CODE
NA

DRG.NO.
TB-1-406-607-651-2

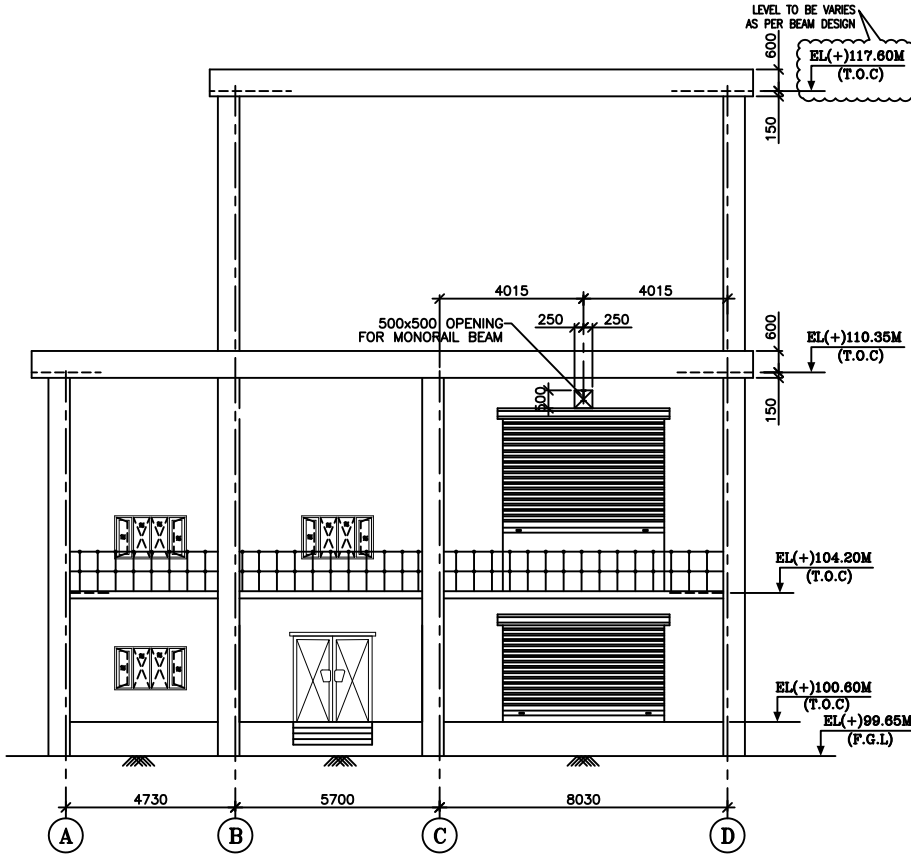
REV.
00

SHT. No 01	NO. OF SHT. 02
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- LEGEND:-
- ☐ SIDE HUNG OPENABLE PANEL
 - ☒ FIXED GLASS PANEL
 - F.F.L. = FINISH FLOOR LEVEL
 - F.G.L. = FINISH GRADE LEVEL
 - H.P. = HIGH POINT
 - L.P. = LOWER POINT
 - T.O.C. = TOP OF CONCRETE
 - F.F.L. = FINISH FLOOR LEVEL
 - F.G.L. = FINISH GRADE LEVEL

ELEVATION-C



ELEVATION-D

* RECTANGULAR CUTOUT TO BE PROVIDED CUTOUT DIMENSION & LOCATION SHALL BE PROVIDED AS PER GIS MANUFACTURE

NOTES:-

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REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHD/APPD			CHD/APPD			CHD/APPD			CHD/APPD
ZONE			ZONE			ZONE			ZONE		

PROJECT:

400/220/132kV GIS SUBSTATION AT SHAMLI (U.P.)

CUSTOMER:

UTTAR PRADESH POWER TRANSMISSION CORPORATION LIMITED



BHARAT HEAVY ELECTRICALS LTD.
TRANSMISSION BUSINESS GROUP
NOIDA



STRUCTURAL CONSULTANTS:-
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87, OLD A.G. COLONY, KADRU, RANCHI.
☎ PH. 0651 2340631, FAX 0651 2340631

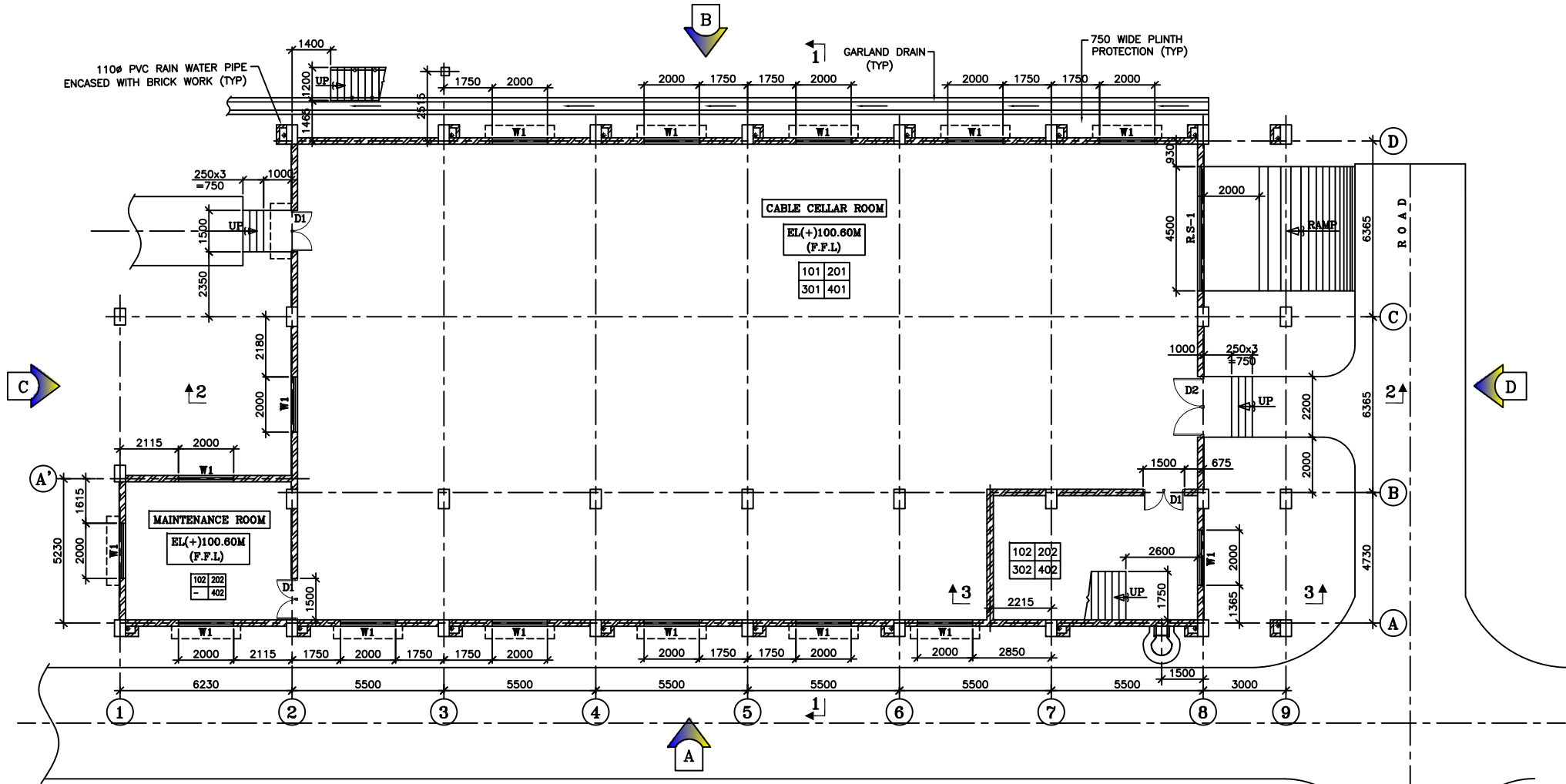
		NAME	SIGN.	DATE	NO.OF VAR.
	DRN.	Subrata		01.05.19	
	CHD.	Madush		01.05.19	N.A.
	APPD.	Madush		01.05.19	

DEPT. TBG CODE	UNTOL DIMS. GR. 2/M/F		SCALE N.T.S.	WEIGHT (KG) N.A.	REF. TO ASSY. DRG. N.A.	ITEM NO. N.A.	NO.OF ITEMS N.A.
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TITLE

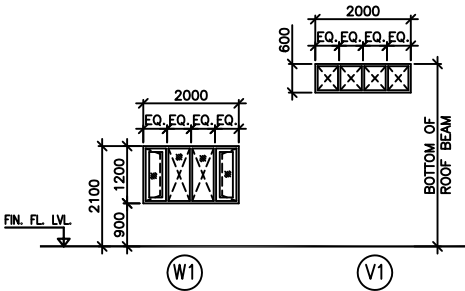
220KV GIS BUILDING
ARCHITECTURAL ELEVATION

CARD CODE NA	DRG.NO. TB-1-406-607-651-2	REV. 00
SHT. No 02	NO. OF SHT. 02	



LEGEND:-

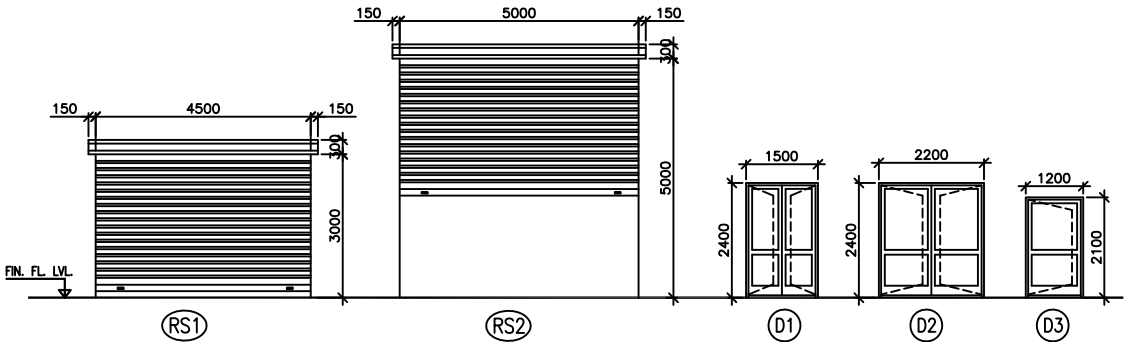
- ☐ SIDE HUNG OPENABLE PANEL
- ☒ FIXED GLASS PANEL
- F.F.L. = FINISH FLOOR LEVEL
- F.G.L. = FINISH GRADE LEVEL
- H.P. = HIGH POINT
- L.P. = LOWER POINT
- TOC = TOP OF CONCRETE
- F.F.L. = FINISH FLOOR LEVEL
- F.G.L. = FINISH GRADE LEVEL



PLAN AT EL(+100.60M (F.F.L.)
(SCALE- 1:100)

ILLUSTRATION OF FINISHES.		FINISHES OF SCHEDULE	
WALL SERIES 100	FLOORING SERIES 200	WALL FINISHES-	
	CEILING SERIES 300	SR.NO.	DESCRIPTION
SKIRTING/DADO SERIES 400	SKIRTING/ DADO SERIES 400	1.	101
		2.	102
SKIRTING/DADO FINISHES		FLOORING FINISHES	
1.	401	1.	201
2.	402	2.	202
CEILING FINISHES			
1.	301		
2.	302		

PLASTER:
INTERNAL:
12mm THK. PLASTER (1:4 CEMENT : SAND)
EXTERNAL:
12mm THK. PLASTER (1:4 CEMENT : SAND)
CEILING EXCEPT FOR WHERE FALSE CEILING WILL BE PROVIDED.
6mm THK. PLAIN PLASTER (1:4 CEMENT : SAND)



WATER PROOFING ON ROOF

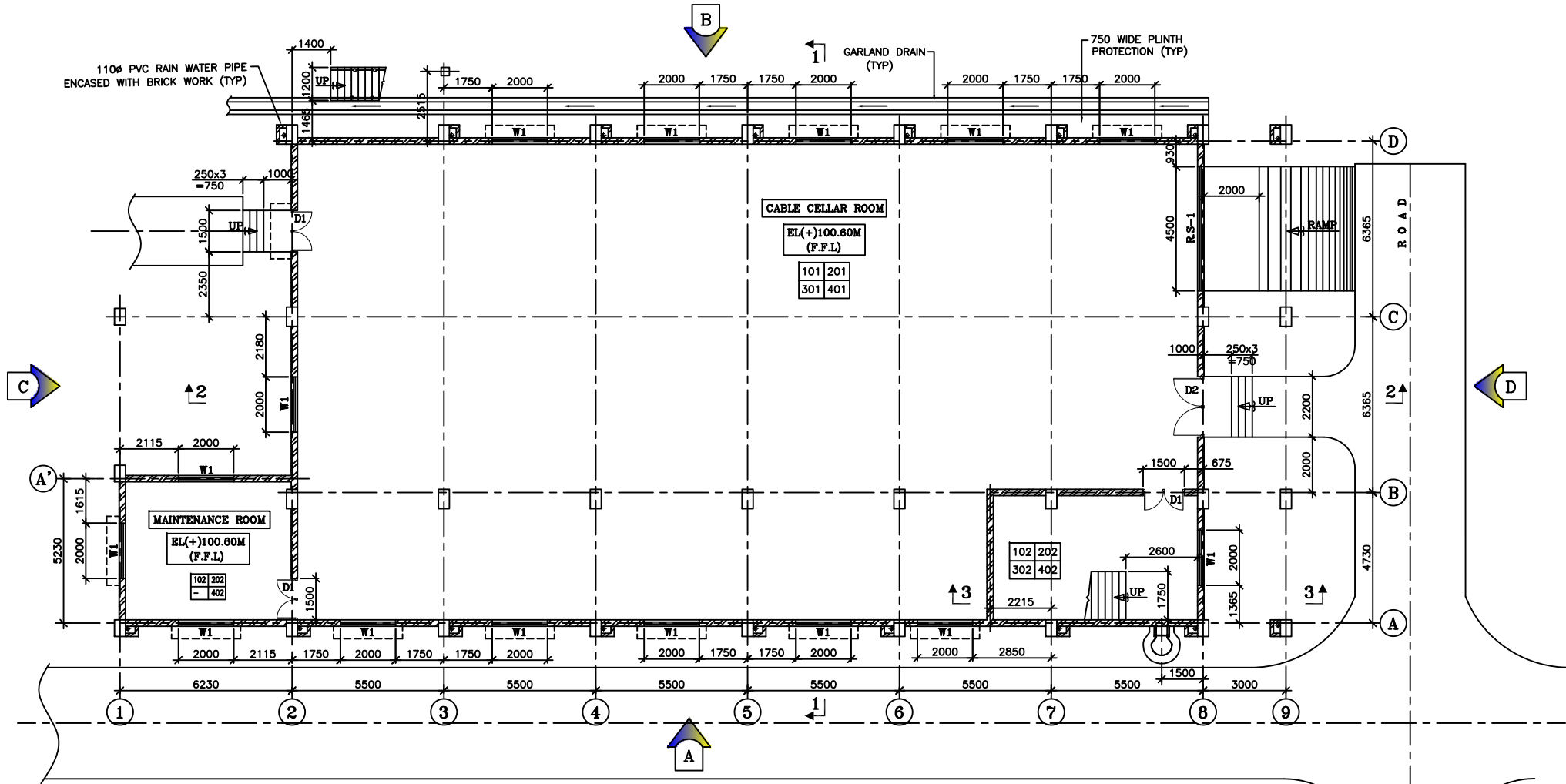
PROVIDING AND APPLYING FOUR COURSES OF WATER PROOFING TREATMENT AT ROOFS CONSISTING FIRST COURSE OF STRAIGHT RUN 85/25 GRADE BITUMEN CONFORMING TO I.S. 73-1961@0.7 KG/SQM, SECOND COURSE OF ROOF GUARD CONSISTING OF POLYTHENE SHEETS WEIGHTING 0.12 KG/ SQM, WITH 75MM OVER LAPS, ALONG ROOF SLOPE, THIRD COURSE OF COLD CUT BACK BITUMEN B.S. GRADE @ 1.0 KG/ SQM AS PER I.S. 7290 AND THE FOURTH AND FINAL COURSE OF 1:1.5:3 CEMENT CONCRETE, 25MM THICK WITH WATER PROOFING COMPOUND (RECRON.3S) AS PER SPECIFICATIONS, INCLUDING ALL MATERIALS, LABOUR AND T & P ETC. REQUIRED FOR PROPER COMPLETION OF WORK.

NOTES:-

- ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- ALL WINDOWS AND VENTILATORS ON GROUND FLOOR OF ALL BUILDINGS SHALL BE PROVIDED WITH SUITABLE MS GRILL.
- ALL DOOR-WINDOW, ETC. HEIGHT SHALL BE CONSIDERED FROM FINISH FLOOR LEVEL.
- EL(+100.00M) CORRESPONDS TO TOP LEVEL OF ROAD (T.B.M.) WHICH IS +100.0M ABSOLUTE ELEVATION.
- EL. (+)99.95 M CORRESPONDS TO TOP OF SWITCHYARD ROAD.

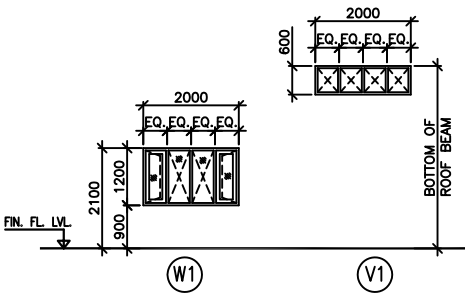
REV.	DATE	ALTERED CHD/APPD	REV.	DATE	ALTERED CHD/APPD	REV.	DATE	ALTERED CHD/APPD	REV.	DATE	ALTERED CHD/APPD
ZONE			ZONE			ZONE			ZONE		

PROJECT: 400/220/132kV GIS SUBSTATION AT SHAMLI (U.P.)			
CUSTOMER: UTTAR PRADESH POWER TRANSMISSION CORPORATION LIMITED			
BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION BUSINESS GROUP NOIDA			
STRUCTURAL CONSULTANTS:- STRUC MECH ENGINEERS PVT. LTD. 87, OLD A.G. COLONY, KADRU, RANCHI. ☎ PH. 0651 2340631, FAX 0651 2340631		NAME	SIGN.
		DRN.	Subrata
		CHD.	Madhus
		APPD.	Madhus
		DATE	20.05.19
		DATE	20.05.19
		DATE	20.05.19
DEPT. TBG CODE	UNTOL DIMS. GR G/M/F	SCALE N.T.S	WEIGHT (KG) N.A
TITLE 132KV GIS BUILDING ARCHITECTURAL GROUND FLOOR PLAN & FINISHING SCHEDULE		CARD CODE NA	REF. TO ASSY. DRG. N.A
		DRG.NO. TB-1-406-607-661-1	ITEM NO. N.A
		SHT. No 01	NO. OF SHT. 02



LEGEND:-

- ☐ SIDE HUNG OPENABLE PANEL
- ☒ FIXED GLASS PANEL
- F.F.L. = FINISH FLOOR LEVEL
- F.G.L. = FINISH GRADE LEVEL
- H.P. = HIGH POINT
- L.P. = LOWER POINT
- T.O.C. = TOP OF CONCRETE
- F.F.L. = FINISH FLOOR LEVEL
- F.G.L. = FINISH GRADE LEVEL

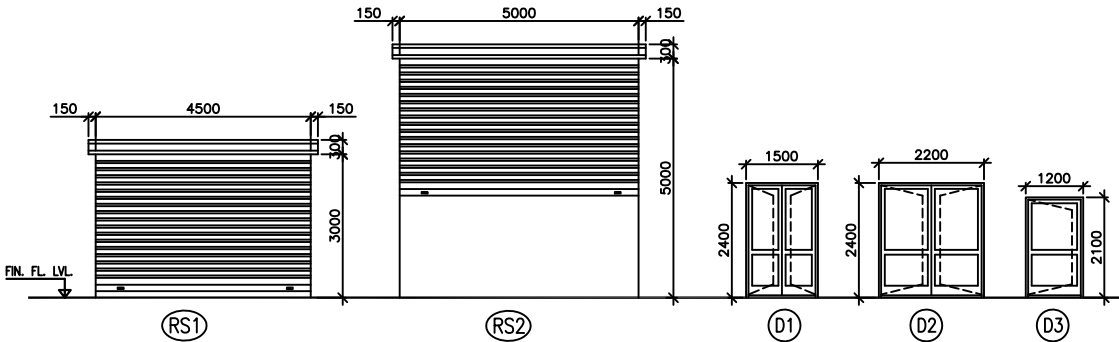


PLAN AT EL(+100.60M (F.F.L.)
(SCALE:- 1:100)

ILLUSTRATION OF FINISHES.			FINISHES OF SCHEDULE																		
<table border="1"><tr><td>WALL SERIES 100</td><td>FLOORING SERIES 200</td></tr><tr><td>CEILING SERIES 300</td><td>SKIRTING/ DADO SERIES 400</td></tr></table>	WALL SERIES 100	FLOORING SERIES 200	CEILING SERIES 300	SKIRTING/ DADO SERIES 400	<table><tr><th colspan="3">WALL FINISHES—</th></tr><tr><th>SR.NO.</th><th>CODE NO.</th><th>DESCRIPTION</th></tr><tr><td>1.</td><td>101</td><td>ACRYLIC DISTEMPER EXTERNAL FINISHED OF WALL-WATER PROOF EXTERIOR EMULSION PAINT OF APEX ULTIMATE (ASIAN) / WEATHER SHIELD MAX (ICI) OR EQUIVALENT</td></tr><tr><td>2.</td><td>102</td><td>ACRYLIC EMULSION PAINT</td></tr></table>					WALL FINISHES—			SR.NO.	CODE NO.	DESCRIPTION	1.	101	ACRYLIC DISTEMPER EXTERNAL FINISHED OF WALL-WATER PROOF EXTERIOR EMULSION PAINT OF APEX ULTIMATE (ASIAN) / WEATHER SHIELD MAX (ICI) OR EQUIVALENT	2.	102	ACRYLIC EMULSION PAINT
	WALL SERIES 100	FLOORING SERIES 200																			
	CEILING SERIES 300	SKIRTING/ DADO SERIES 400																			
	WALL FINISHES—																				
SR.NO.	CODE NO.	DESCRIPTION																			
1.	101	ACRYLIC DISTEMPER EXTERNAL FINISHED OF WALL-WATER PROOF EXTERIOR EMULSION PAINT OF APEX ULTIMATE (ASIAN) / WEATHER SHIELD MAX (ICI) OR EQUIVALENT																			
2.	102	ACRYLIC EMULSION PAINT																			
SKIRTING/DADO FINISHES			FLOORING FINISHES																		
1.	401	20mm THK. (1:2) CEMENT PLASTER SKIRTING 150 MM HIGH	1.	201	CEMENT CONCRETE FLOORING(1:2:4) 40mm THK. WITH GLASS STRIP PANEL																
2.	402	VITRIFIED TILES	2.	202	VITRIFIED TILES																
CEILING FINISHES																					
1.	301	ACRYLIC DISTEMPER																			
2.	302	ARYLIC EMULSION PAINT																			

PLASTER:

INTERNAL:
12mm THK. PLASTER (1:4 CEMENT : SAND)
EXTERNAL:
12mm THK. PLASTER (1:4 CEMENT : SAND)
CEILING EXCEPT FOR WHERE FALSE CEILING WILL BE PROVIDED.
6mm THK. PLAIN PLASTER (1:4 CEMENT : SAND)



WATER PROOFING ON ROOF

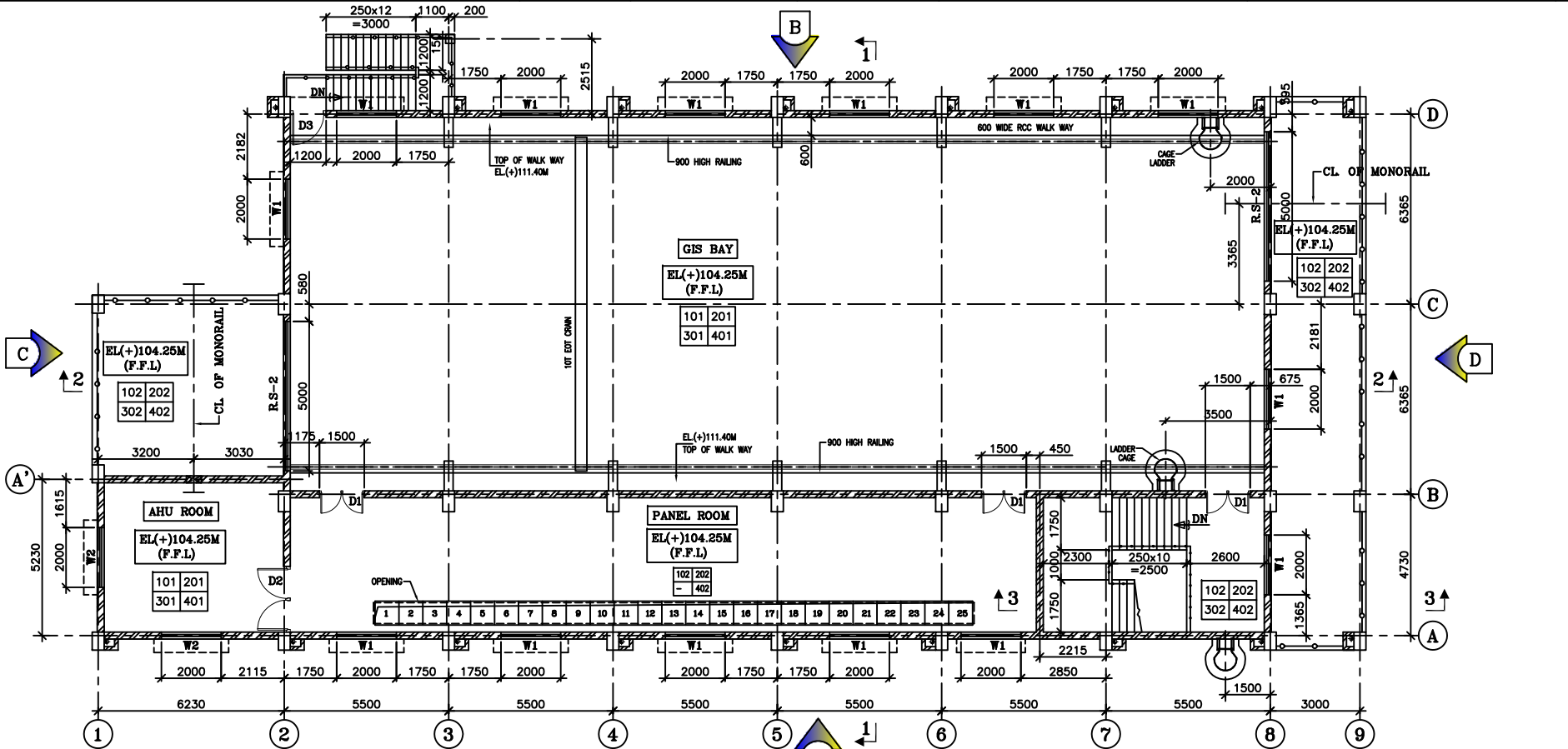
PROVIDING AND APPLYING FOUR COURSES OF WATER PROOFING TREATMENT AT ROOFS CONSISTING FIRST COURSE OF STRAIGHT RUN 85/25 GRADE BITUMEN CONFORMING TO I.S. 73-1961@0.7 KG/SQM, SECOND COURSE OF ROOF GUARD CONSISTING OF POLYTHENE SHEETS WEIGHTING 0.12 KG/ SQM, WITH 75MM OVER LAPS, ALONG ROOF SLOPE, THIRD COURSE OF COLD CUT BACK BITUMEN B.S. GRADE @ 1.0 KG/ SQM AS PER I.S. 7290 AND THE FOURTH AND FINAL COURSE OF 1:1.5:3 CEMENT CONCRETE, 25MM THICK WITH WATER PROOFING COMPOUND (RECRON.3S) AS PER SPECIFICATIONS, INCLUDING ALL MATERIALS, LABOUR AND T & P ETC. REQUIRED FOR PROPER COMPLETION OF WORK.

NOTES:-

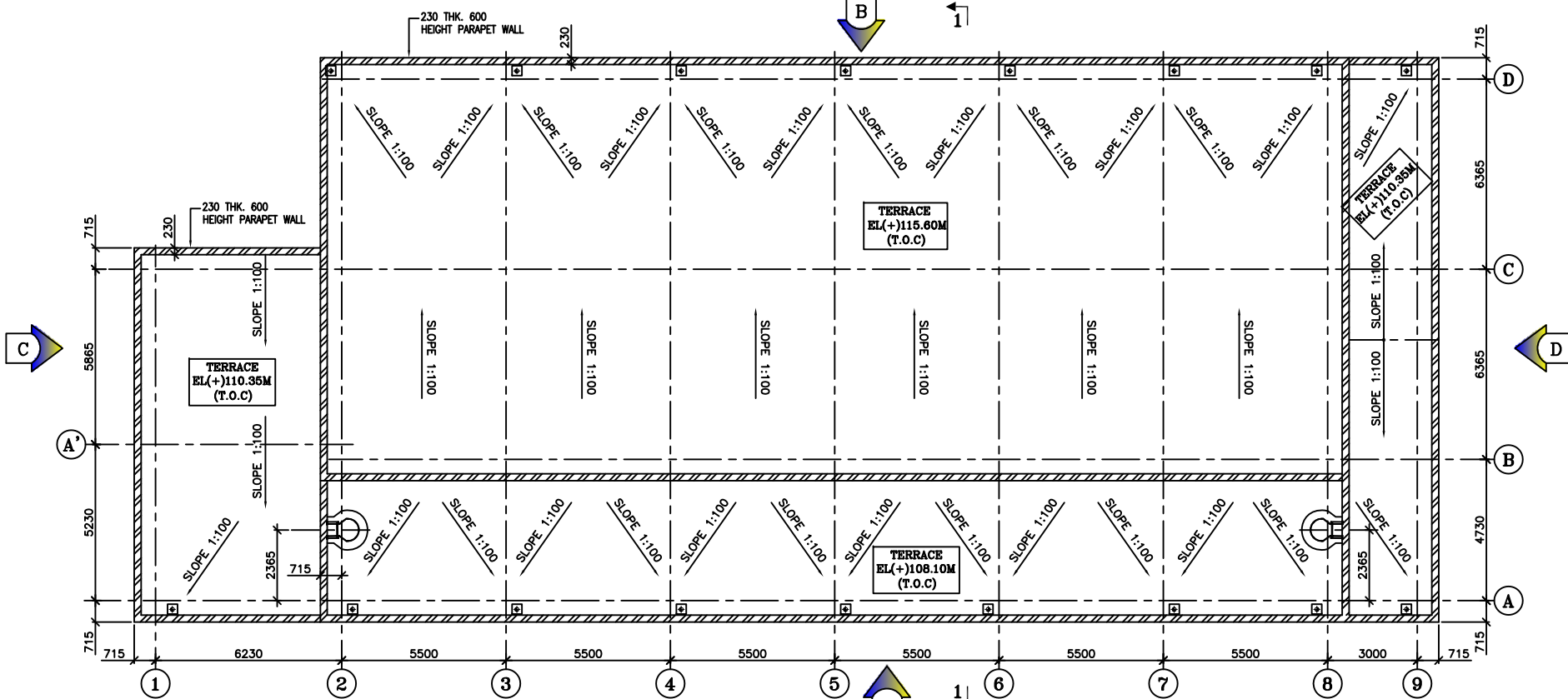
- ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- ALL WINDOWS AND VENTILATORS ON GROUND FLOOR OF ALL BUILDINGS SHALL BE PROVIDED WITH SUITABLE MS GRILL.
- ALL DOOR-WINDOW, ETC. HEIGHT SHALL BE CONSIDERED FROM FINISH FLOOR LEVEL.
- EL(+100.00M) CORRESPONDS TO TOP LEVEL OF ROAD (T.B.M.) WHICH IS +100.0M ABSOLUTE ELEVATION.
- EL. (+)99.95 M CORRESPONDS TO TOP OF SWITCHYARD ROAD.

REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHD/APPD			CHD/APPD			CHD/APPD			CHD/APPD
ZONE			ZONE			ZONE			ZONE		

PROJECT: 400/220/132KV GIS SUBSTATION AT SHAMLI (U.P.)			
CUSTOMER: UTTAR PRADESH POWER TRANSMISSION CORPORATION LIMITED			
BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION BUSINESS GROUP NOIDA			
STRUCTURAL CONSULTANTS:- STRUC MECH ENGINEERS PVT. LTD. 87, OLD A.G. COLONY, KADRU, RANCHI. ☎ PH. 0651 2340631, FAX 0651 2340631		NAME	SIGN.
		DRN.	Subrata
		CHD.	Madhus
		APPD.	Madhus
		DATE	20.05.19
		DATE	20.05.19
		DATE	20.05.19
DEPT. TBG CODE	UNTOL. DIMS. GR. 2/M/F	SCALE	WEIGHT (KG)
		N.T.S	N.A.
TITLE 132KV GIS BUILDING ARCHITECTURAL GROUND FLOOR PLAN & FINISHING SCHEDULE		CARD CODE	REF. TO ASSY. DRG.
		NA	N.A.
		DRG.NO.	ITEM NO.
		TB-1-406-607-661-1	N.A.
		SHT. No 01	NO. OF SHT. 02
		REV.	NO. OF ITEMS
		00	N.A.



PLAN AT EL(+104.25M (F.F.L))
(SCALE- 1:100)



PLAN AT EL(+15.45M (F.F.L))
(SCALE- 1:100)

SCHEDULE OF DOORS & WINDOWS							REMARK
TYPE	OPENING SIZE	FRAME SIZE	CILL LEVEL	UNTEL LEVEL	NOS.	DESCRIPTION	AS PER SPECIFICATION
RS-1	4500x3000	4480x2990	-	EL(+103.60M	1	STEEL ROLLING SHUTTER	
RS-2	5000x5000	4980x4990	-	EL(+109.25M	2	STEEL ROLLING SHUTTER	
D1	2200x2400	2180x2390	-	EL(+103.00M	6	DOUBLE SHUTTER STEEL DOOR	
D2	1600x2400	1580x2390	-	EL(+103.00M	2	DOUBLE SHUTTER STEEL DOOR	
D3	1200x2100	1180x2090	-	EL(+106.35M	1	SINGLE SHUTTER ALUMINIUM DOOR	
W1	2000x1200	1980x1180	900	EL(+102.70M	31	ALUMINIUM WINDOW FULLY GLAZED	
V1	2000x600	1980x580	-	SOFFIT OF ROOF BEAM		FIXED ALUMINIUM VENTILATOR	

LEGEND:-

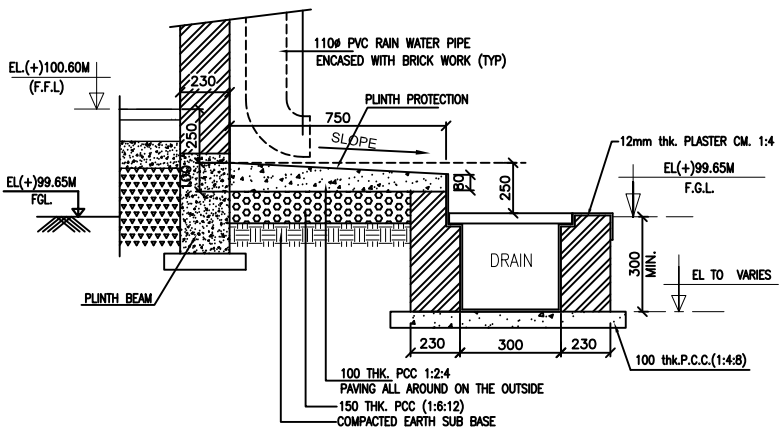
- SIDE HUNG OPENABLE PANEL
- FIXED GLASS PANEL
- F.F.L. = FINISH FLOOR LEVEL
- F.G.L. = FINISH GRADE LEVEL
- H.P. = HIGH POINT
- L.P. = LOWER POINT
- TOC = TOP OF CONCRETE
- F.F.L. = FINISH FLOOR LEVEL
- F.G.L. = FINISH GRADE LEVEL

NOTES:-

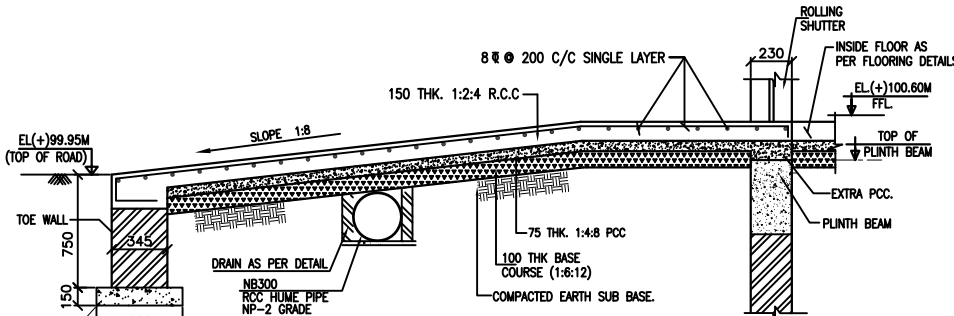
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- EL(+100.00M CORRESPONDS TO TOP LEVEL OF ROAD (T.B.M.) WHICH IS +100.00M ABSOLUTE ELEVATION.
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REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHD/APPD			CHD/APPD			CHD/APPD			CHD/APPD
ZONE			ZONE			ZONE			ZONE		

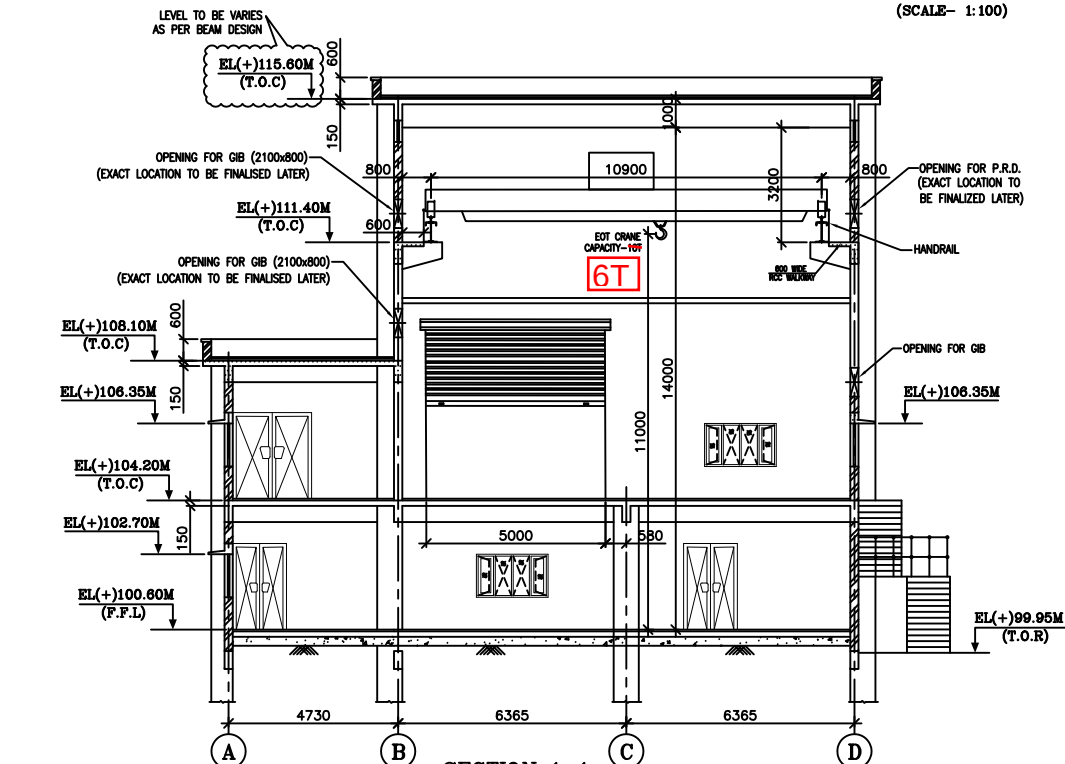
PROJECT: 400/220/132kV GIS SUBSTATION AT SHAMLI (U.P.)											
CUSTOMER: UTTAR PRADESH POWER TRANSMISSION CORPORATION LIMITED											
BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION BUSINESS GROUP NOIDA											
STRUCTURAL CONSULTANTS:- STRUC MECH ENGINEERS PVT. LTD. 87, OLD A.G. COLONY, KADRU, RANCHI. ☎ PH. 0651 2340631, FAX 0651 2340631								NAME	SIGN.	DATE	NO.OF VAR.
								DRN.	Subrata	20.05.19	N.A.
								CHD.	Madhush	20.05.19	N.A.
								APPD.	Madhush	20.05.19	N.A.
DEPT. TBG CODE	UNTOL DIMS. GR. g/m/f		SCALE N.T.S	WEIGHT (KG) N.A.	REF. TO ASSY. DRG. N.A.	ITEM NO. N.A.	NO.OF ITEMS N.A.				
TITLE 132KV GIS BUILDING ARCHITECTURAL 1st FLOOR PLAN, CRAIN GIRDER LEVEL & TERRACE FLOOR PLAN								CARD CODE NA	DRG.NO. TB-1-406-607-661-1	REV. 00	
								SHT. No 02	NO. OF SHT. 02		



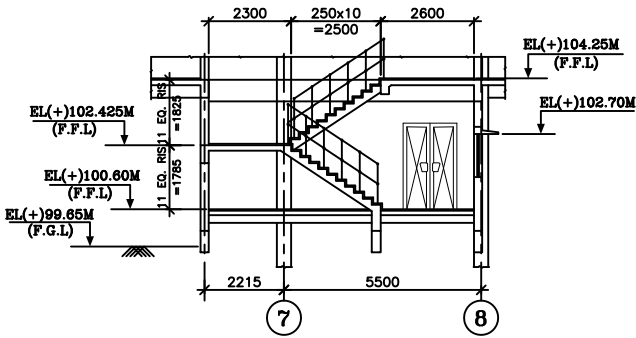
PLINTH PROTECTION ALONG BUILDING WITH DRAIN—TYPICAL



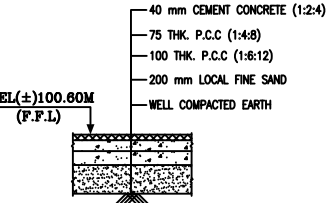
DETAIL OF RAMF



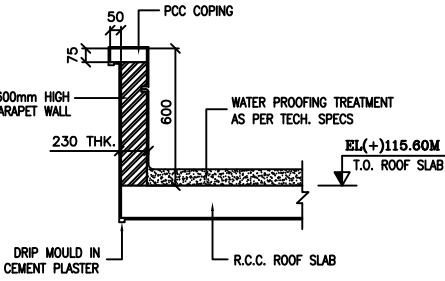
SECTION 1-1
(SCALE- 1:100)



SECTION 3-3
(SCALE- 1:100)



TYP. DETAIL OF FLOORING



TYP. DETAIL OF PARAPET

- LEGEND:-**
- | | |
|---|--------------------------|
|  | SIDE HUNG OPENABLE PANEL |
|  | FIXED GLASS PANEL |
| FFL | = FINISH FLOOR LEVEL |
| FGL | = FINISH GRADE LEVEL |
| H.P. | = HIGH POINT |
| L.P. | = LOWER POINT |
| TOC | = TOP OF CONCRETE |
| FFL | = FINISH FLOOR LEVEL |
| FGL | = FINISH GROUND LEVEL |

* RECTANGULAR CUTOUT TO BE PROVIDED CUTOUT DIMENSION & LOCATION SHALL BE PROVIDED AS PER GIS MANUFACTURE

PROJECT:
400/220/132kV GIS SUBSTATION AT SHAMLI (U.P.)

CUSTOMER: UTTAR PRADESH POWER TRANSMISSION CORPORATION LIMITED



BHARAT HEAVY ELECTRICALS LTD.
TRANSMISSION BUSINESS GROUP
NOIDA

	STRUCTURAL CONSULTANTS:-						NAME	SIGN.	DATE	NO. OF VAR.
	STRUC MECH ENGINEERS PVT. LTD.					DRN.	<i>Eubada</i>		20.05.19	
	87, OLD A.G. COLONY, KADURU, RANCHI.					CHD.	<i>Mahesh</i>		20.05.19	
	☎ PH. 0651 2340631, FAX 0651 2340631					APPD.	<i>Mahesh</i>		20.05.19	
DEPT	DESIGNER	CHECKED	DRAWN	ENGINEER (M)	PER. SEC.	LOCAL PER.	TOTAL NO.	NO. OF		

TBG CODE	UNTOL. DIMS. GR. E/M/F		SCALE N.T.S	WEIGHT (KG) N.A.	REF. TO ASSY. DRG. N.A.	ITEM NO. N.A.	RUO. OF ITEMS N.A.
TITLE 132KV GIS BUILDING ARCHITECTURAL SECTIONS				CARD CODE NA	DRG.NO. TB-1-406-607-661-3		REV. 00
					SHT. No 01	NO. OF SHT. 01	

NOTES:-

ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.

ALL WINDOWS AND VENTILATORS ON GROUND FLOOR OF ALL BUILDINGS SHALL BE PROVIDED WITH SUITABLE MS GRILL.

ALL DOOR-WINDOW, ETC. HEIGHT SHALL BE CONSIDERED FROM FINISH FLOOR LEVEL.

EL(+0.00M) CORRESPONDS TO TOP LEVEL OF ROAD (T.B.M.) WHICH IS +100.0M ABSOLUTE ELEVATION.

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[illegible]

F

E

D

C

B

A

F

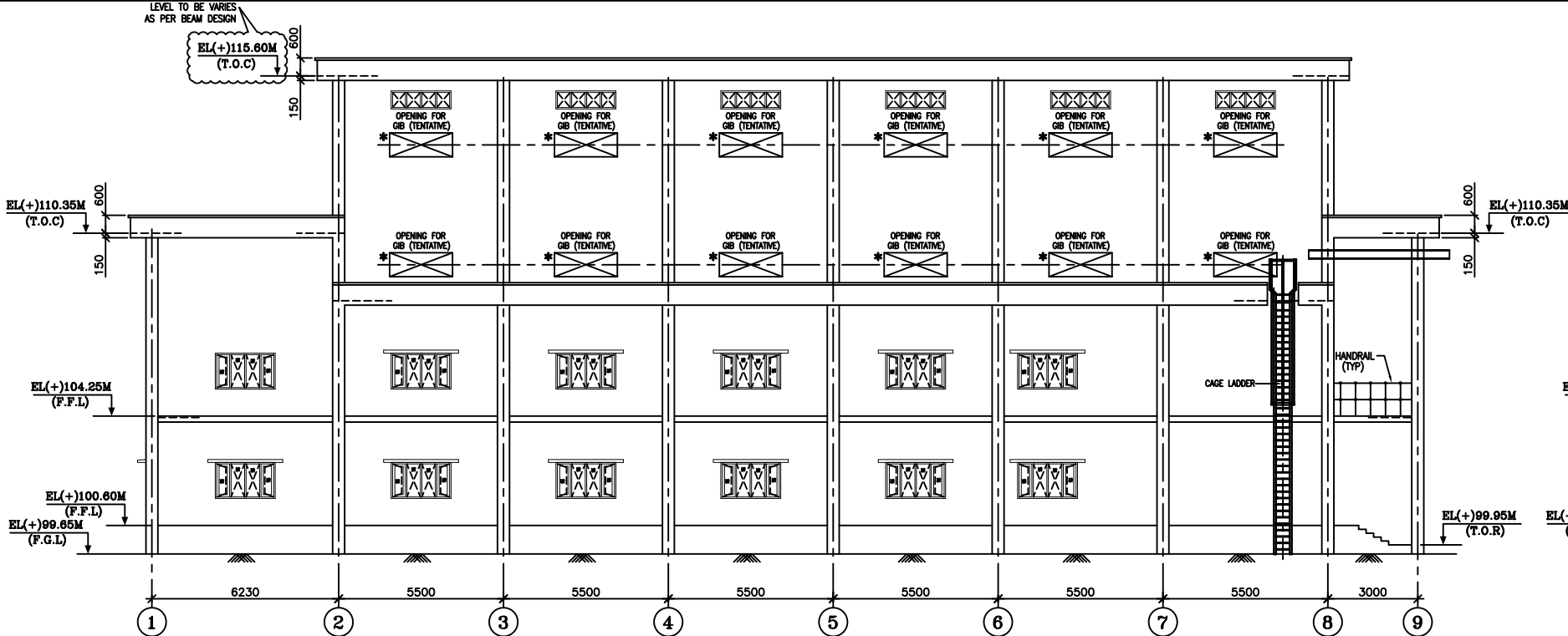
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D

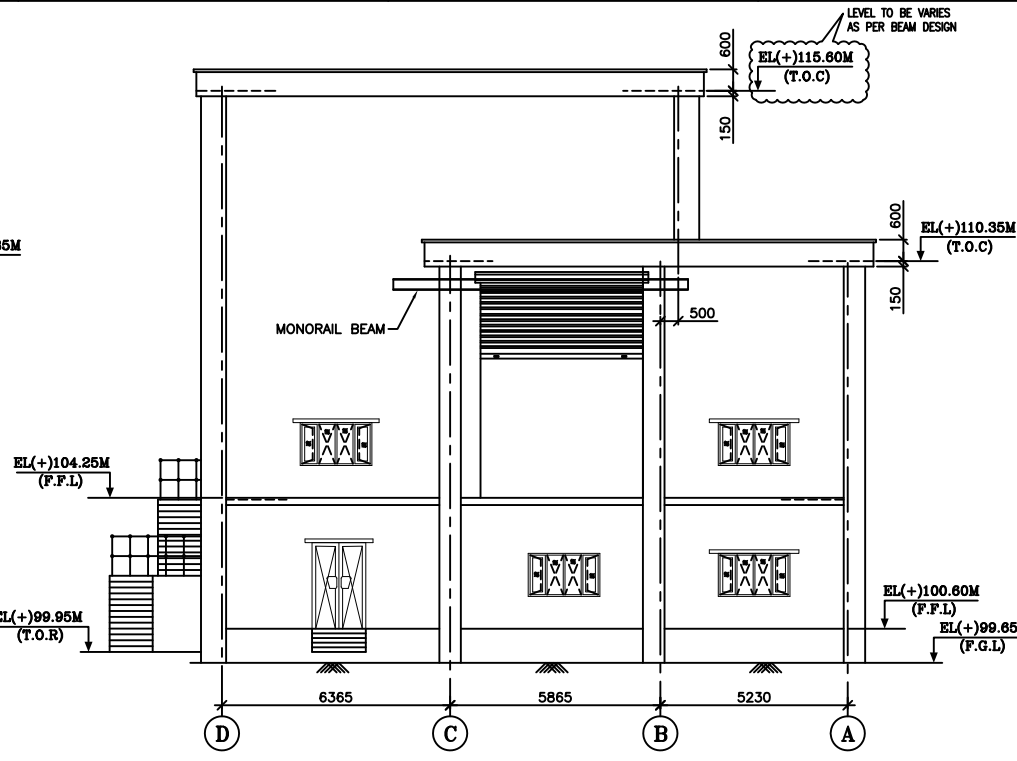
C

B

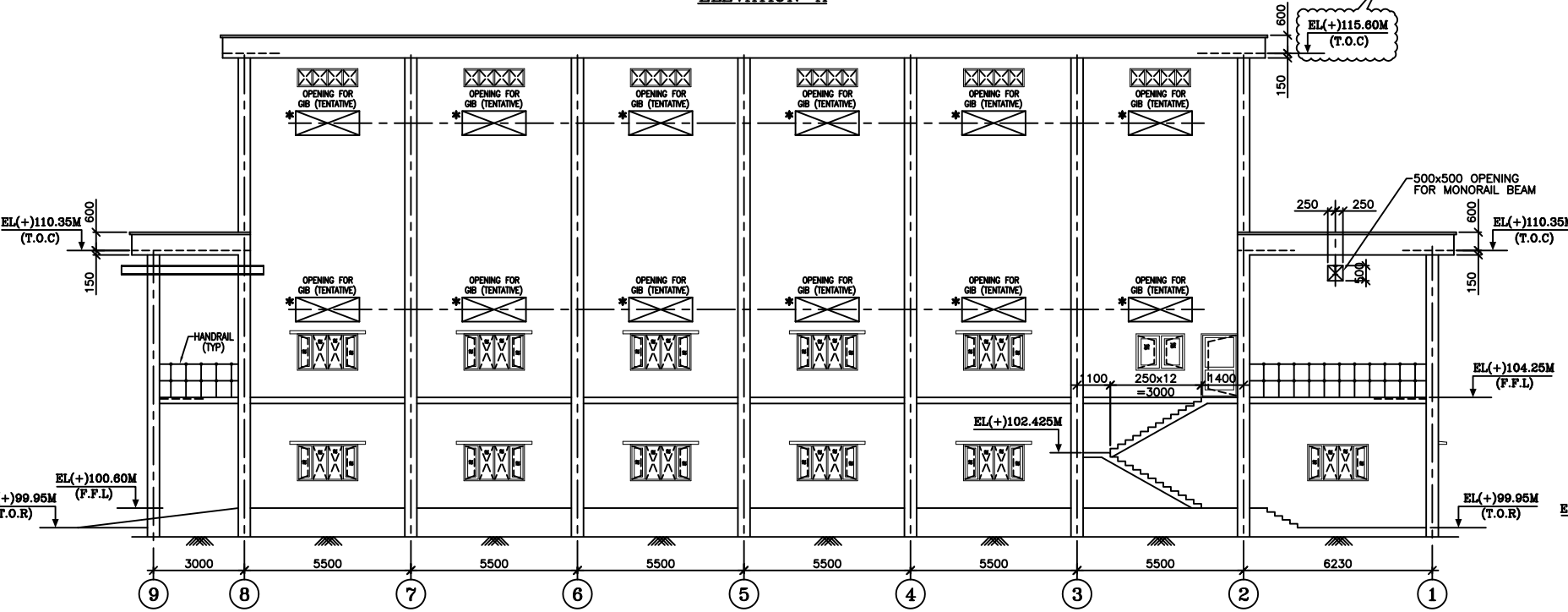
A



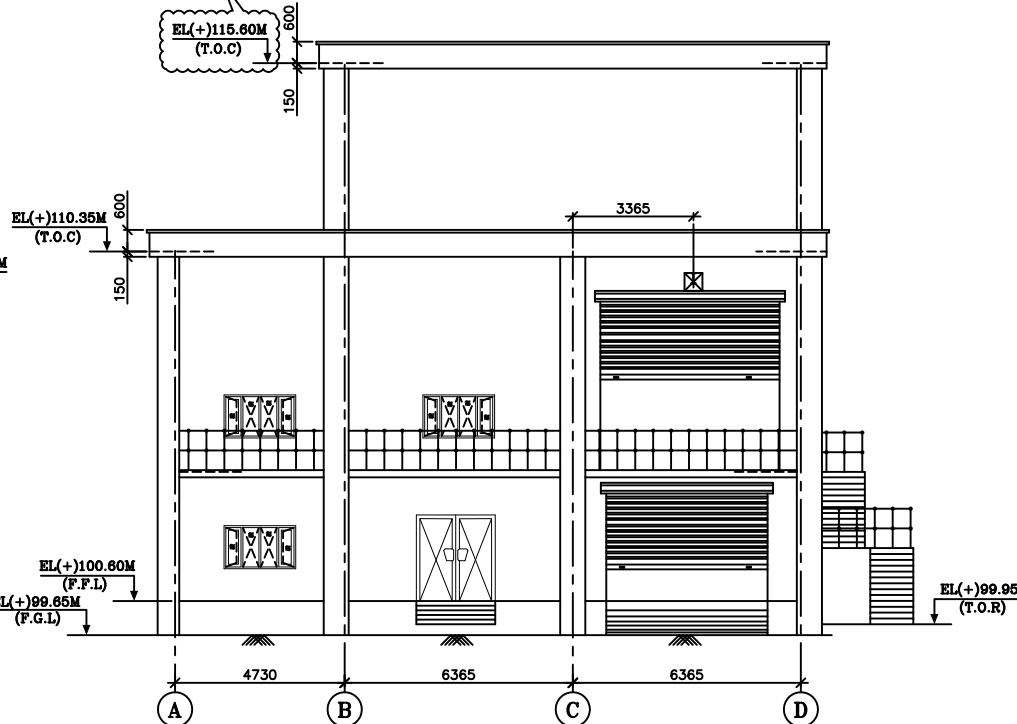
ELEVATION-A



ELEVATION-C



ELEVATION-B



ELEVATION-D

* RECTANGULAR CUTOUT TO BE PROVIDED CUTOUT DIMENSION & LOCATION SHALL BE PROVIDED AS PER GIS MANUFACTURE

LEGEND:-

- SIDE HUNG OPENABLE PANEL
- FIXED GLASS PANEL
- F.F.L. = FINISH FLOOR LEVEL
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REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHD/APPD			CHD/APPD			CHD/APPD			CHD/APPD
ZONE			ZONE			ZONE			ZONE		

PROJECT: 400/220/132KV GIS SUBSTATION AT SHAMLI (U.P.)											
CUSTOMER: UTTAR PRADESH POWER TRANSMISSION CORPORATION LIMITED											
BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION BUSINESS GROUP NOIDA											
STRUCTURAL CONSULTANTS:- STRUC MECH ENGINEERS PVT. LTD. 87, OLD A.G. COLONY, KADRU, RANCHI. PH. 0651 2340631, FAX 0651 2340631								NAME	SIGN.	DATE	NO.OF VAR.
SME								DRN.	Subrata	20.05.19	
								CHD.	Madush	20.05.19	N.A.
								APPD.	Madush	20.05.19	
DEPT. TBG CODE	UNTOL. DIMS. GR. 2/M/F	SCALE N.T.S	WEIGHT (KG) N.A.	REF. TO ASSY. DRG. N.A.	ITEM NO. N.A.	NO.OF ITEMS N.A.					
TITLE 132KV GIS BUILDING ARCHITECTURAL ELEVATION								CARD CODE NA	DRG.NO. TB-1-406-607-661-2	REV. 00	
								SHT. No 01	NO. OF SHT. 01		