

Door/Window Schedule				
Doors				
Typ.	Size	Description		
D1	1200 x 2400	FIRE PROOF STEEL DOOR		
D2	750 x 2100	FIRE PROOF STEEL DOOR		
Windows				
Typ.	Size	Lintel	Sill	Description
A	750 x 750	2100	1350	OPENING FOR FIXING AC

NOTE :-

- ALL DIMENSIONS ARE IN MM. AND LEVELS ARE IN MTR.
- OPENINGS ARE PROVIDED FOR INSTALLATION OF ACs. IN CASE ONE AC IS PROVIDED, OTHER OPENING SHALL BE CLOSED.
- 22G x 12 MM. CHICKEN WIRE MESH TO BE PROVIDED FOR ALL WALL, FLOORING AND ROOF. CHICKEN WIRE MESH SHALL BE CONNECTED WITH EARTHING SYSTEM THROUGH 75 x 12MM FLAT FIXED ON DIAGONALLY OPPOSITE COLUMNS ON ITS OUTER SURFACE

RELEASED FOR TENDER/CONSTRUCTION

POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

0.									
REV.	DESCRIPTION	CIVL.	REVD.	REVD.	MECH.	ELEC.	REVD.	APPD.	DATE.

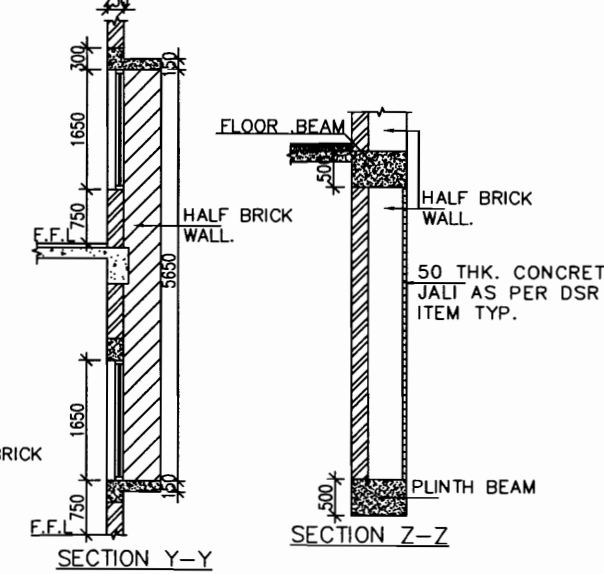
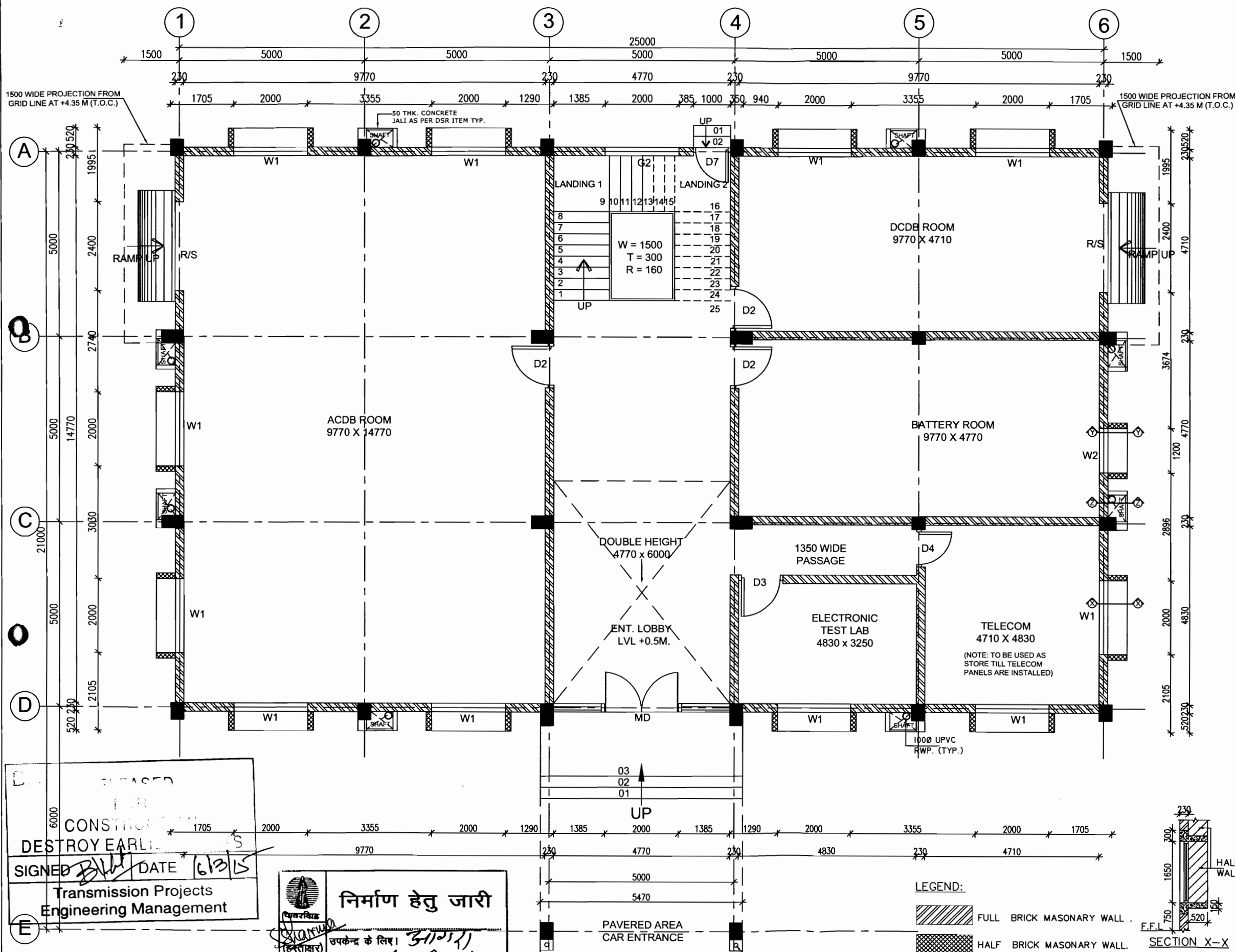
CLEARED BY

PROJECT :	400/220 KV SUB-STATION
TITLE :	STANDARD SWITCHYARD PANEL ROOM ARCHITECTURAL DRAWING OF PANEL ROOM
DRAWING NO.	C-ENGG-STD-PR-ARCH-3000
SCALE	1:50
REV.	0

DOOR & WINDOW SCHEDULE

NAME	WIDTH	LINTEL	SILL	DESCRIPTION
MD	2000	2400	-/-	Aluminum glazed door with dorma bts 80 - universal floor spring, double door with mechanical back check, hydraulic hold open or delayed action.
R/S	2400	3000	-/-	MS Rolling shutter
D1	1500	2400	-/-	Aluminum glazed door
D2	1200	2400	-/-	Fireproof steel door
D3	1200	2400	-/-	Aluminum glazed door
D4	1000	2400	-/-	Aluminum glazed door
D5	900	2400	-/-	Aluminum frame with particle board shutter & fixed glazed
D6	750	2100	-/-	Aluminum frame with particle board shutter
D7	1000	2000	-/-	Aluminum glazed door
W1	2000	2400	750	Aluminum glazing
W2	1200	2400	750	Aluminum glazing
V1	470	2400	1450	Aluminum glazing
G1	4710	3500	750	Aluminum glazing
G2	2000	AS/DETAILS		Aluminum glazing
G3	2000	LG 4 to 3790	LG 4 to 750	Aluminum glazing

- NOTES :-**
1. ALL DIMENSIONS ARE IN MM
 2. DO NOT SCALE THE DRAWING, FOLLOW WRITTEN DIMENSIONS ONLY.
 3. ALL DIMENSIONS SHALL BE CHECKED PRIOR TO EXECUTION OF THE WORK.
 4. FOR LOCATION OF BUILDING REFER GA PLAN.
 5. FOR R.C.C COLUMN SIZES REF. STRUCTURAL DRAWINGS.
 6. BRICKS (CLASS 75) SHALL BE USED IN BRICK MASONRY
 7. ALL INTERNAL WALL SHALL BE 115MM THK. & EXTERNAL WALL SHALL BE 230MM THK.
 8. THE DRAWING TO BE READ IN CONJUNCTION WITH RELEVANT STRUCTURAL DRAWINGS BOTH FOR DIMENSIONS AND LAYOUT. FOR CB TOILETS AND KITCHEN DETAILS REF. SEPARATE DRAWINGS
 9. FOR DOORS, WINDOWS AND VENTILATORS DETAILS REF. SEPARATE DRAWINGS.
 10. LAYOUT SHALL BE MARKED ON SITE AND GOT APPVD. BY ENGINEER IN-CHARGE IN WRITING BEFORE COMMENCING EXCAVATION WORK AT SITE.
 11. ANY DISCREPANCY IN DRAWING TO BE BROUGHT TO THE NOTICE OF SITE INCHARGE.
 12. COLUMN SHOWN IN THE DRAWING ARE INDICATIVE, FOR EXACT COLUMN LOCATIONS REFER STRUCTURAL DRAWING
 13. LOOSE FURNITURES ARE NOT IN THE SCOPE OF CONTRACTOR.
 14. SITE SHALL PROCURE THE LOSE FURNITURES SEPERATELY
 15. ONE NO. RCC JALI SHALL BE KEPT OPENABLE AT EACH FLOOR FOR MAINTENANCE PURPOSE
 16. CONTROL ROOM BUILDING MAY BE MIRROR IMAGED AS PER THE REQUIREMENTS OF GA PLAN IN CONSULTATION WITH CORPORATE ENGINEERING AND SITE



LEGEND:
 FULL BRICK MASONRY WALL
 HALF BRICK MASONRY WALL

Released for Construction

PLEASED FOR CONSTRUCTION DESTROY EARLY
 SIGNED *[Signature]* DATE 16/3/15
 Transmission Projects Engineering Management

निर्माण हेतु जारी
 उपकेन्द्र के लिए। *(UPPCL)*
 पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लि०
 अभियांत्रिकी (सिविल), मुडगांव, हरियाणा.

POWER GRID CORPORATION OF INDIA LIMITED
 (A Government of India Enterprise)

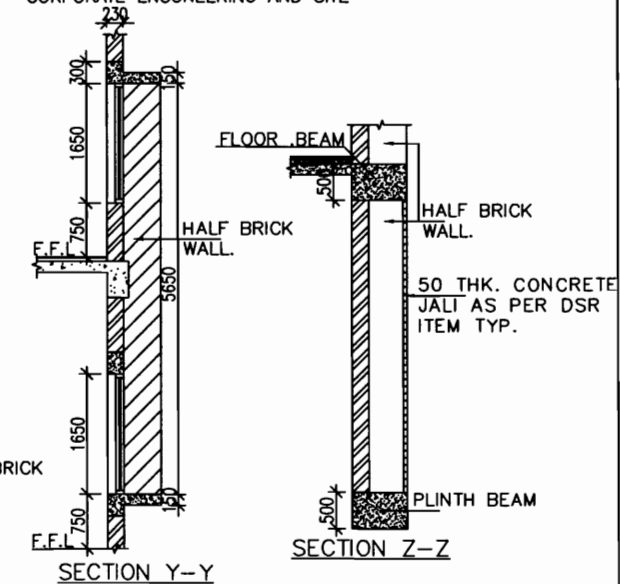
PROJECT : 765/400kV SUB STATION AT AGRA (UPPCL)
 TITLE : CONTROL ROOM BUILDING GROUND FLOOR PLAN

REV.	PROP. BY	REV. BY	REV. BY	REV. BY	REV. BY	APPD. BY	DATE	DRAWING NO.
0								C-ENGG-NR-1-AGRA-CRB-ARCH-01

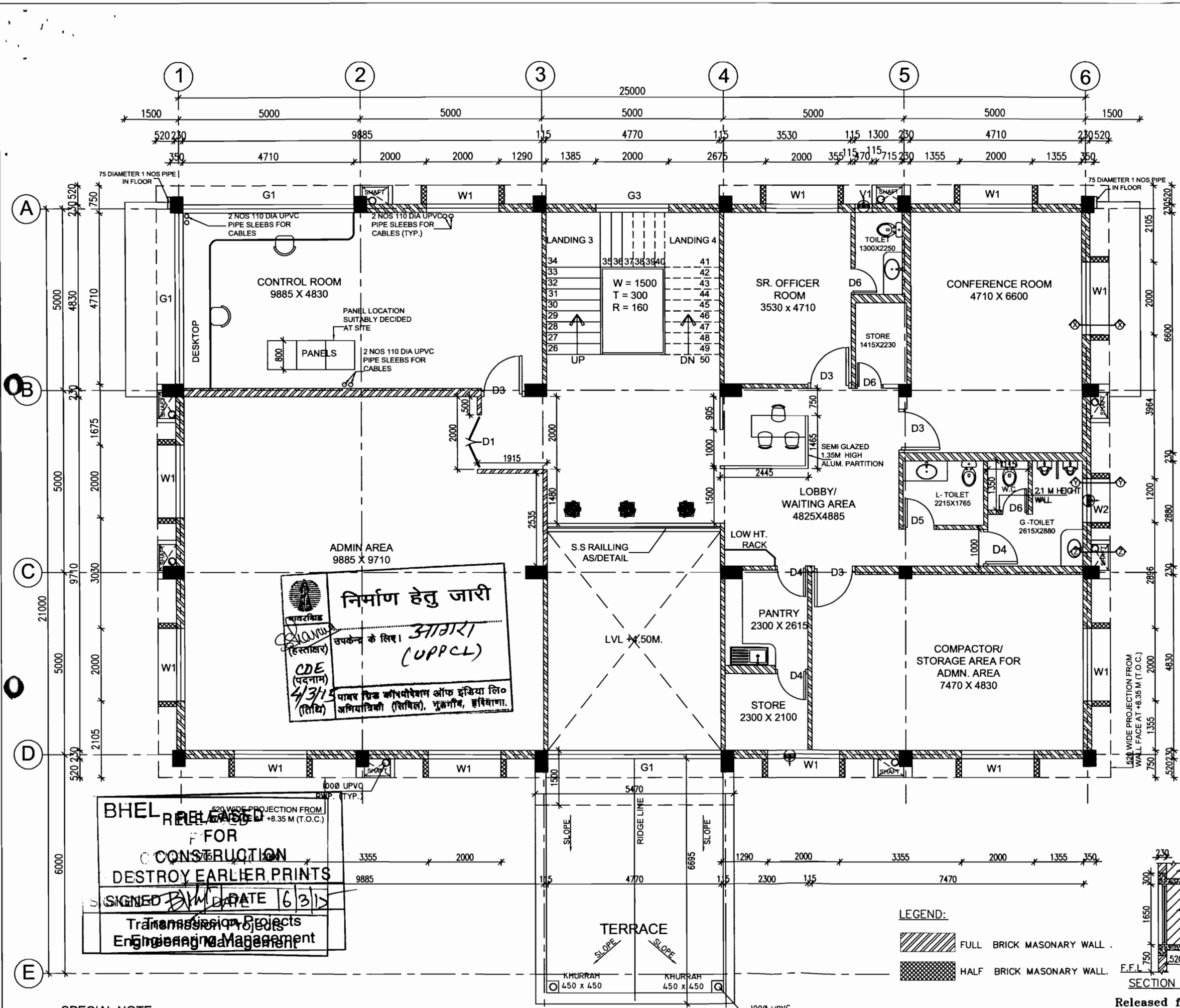
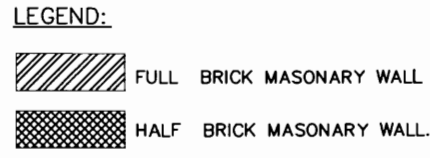
DOOR & WINDOW SCHEDULE

NAME	WIDTH	LINTEL	SILL	DESCRIPTION
MD	2000	2400	--	Aluminum glazed door with dorma bts 80 - universal floor spring, double door with mechanical back check, hydraulic hold open or delayed action.
R/S	2400	3000	--	MS Rolling shutter
D1	1500	2400	--	Aluminum glazed door
D2	1200	2400	--	Fireproof steel door
D3	1200	2400	--	Aluminum glazed door
D4	1000	2400	--	Aluminum glazed door
D5	900	2400	--	Aluminum frame with particle board shutter & fixed glazed
D6	750	2100	--	Aluminum frame with particle board shutter
D7	1000	2000	--	Aluminum glazed door
W1	2000	2400	750	Aluminum glazing
W2	1200	2400	750	Aluminum glazing
V1	470	2400	1450	Aluminum glazing
G1	4710	3500	750	Aluminum glazing
G2	2000	AS/DETAILS		Aluminum glazing
G3	2000	LG 4 to 3790	LG 4 to 750	Aluminum glazing

- NOTES :-**
- ALL DIMENSIONS ARE IN MM
 - DO NOT SCALE THE DRAWING, FOLLOW WRITTEN DIMENSIONS ONLY.
 - ALL DIMENSIONS SHALL BE CHECKED PRIOR TO EXECUTION OF THE WORK.
 - FOR LOCATION OF BUILDING REFER GA PLAN.
 - FOR R.C.C COLUMN SIZES REF. STRUCTURAL DRAWINGS.
 - BRICKS (CLASS 75) SHALL BE USED IN BRICK MASONRY
 - ALL INTERNAL WALL SHALL BE 115MM THK. & EXTERNAL WALL SHALL BE 230MM THK.
 - THE DRAWING TO BE READ IN CONJUNCTION WITH RELEVANT STRUCTURAL DRAWINGS BOTH FOR DIMENSIONS AND LAYOUT.
 - FOR CB TOILETS AND KITCHEN DETAILS REF. SEPARATE DRAWINGS
 - FOR DOORS, WINDOWS AND VENTILATORS DETAILS REF. SEPARATE DRAWINGS.
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 - ANY DISCREPANCY IN DRAWING TO BE BROUGHT TO THE NOTICE OF SITE INCHARGE.
 - COLUMN SHOWN IN THE DRAWING ARE INDICATIVE, FOR EXACT COLUMN LOCATIONS REFER STRUCTURAL DRAWING
 - LOOSE FURNITURES ARE NOT IN THE SCOPE OF CONTACTOR.
 - SITE SHALL PROCURE THE LOSE FURNITURES SEPARATELY
 - ONE NO. RCC JALI SHALL BE KEPT OPENABLE AT EACH FLOOR FOR MAINTENANCE PURPOSE
 - CONTROL ROOM BUILDING MAY BE MIRROR IMAGED AS PER THE REQUIREMENTS OF GA PLAN IN CONSULTATION WITH CORPORATE ENGINEERING AND SITE



SECTION X-X
Released for Construction



निर्माण हेतु जारी
उपकेन्द्र के लिए। आगरा (UPPCL)
पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लि०
अभियांत्रिकी (सिविल), भुक्तानी, हरियाणा.

BHEL RELEASED FOR CONSTRUCTION DESTROY EARLIER PRINTS
SIGNED [Signature] DATE 16/3/12
Transmission Projects Engineering Management

SPECIAL NOTE:
UNDER DECK THERMAL INSULATION TO BE PROVIDED IN THE FIRST FLOOR CEILING AS PER DSR'2013 ITEM CODE NO. 12.34 EXCEPT TOILETS, PANTRY AND STORE

REV.	PROP BY	REVD. BY	REVD. BY	REVD. BY	REVD. BY	APPD. BY	DATE	DRAWING NO.	SCALE	REV
0	DR(ENGG CIVIL)	CDR(ENGG CIVIL)	ED(ENGG S/S)	ENGG S/S)	ENGG S/S)	GM(ENGG CIVIL)		C-ENGG-NR-1-AGRA-CRB-ARCH-01	SCALE NTS	0

POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

PROJECT : 765/400kV SUB STATION AT AGRA (UPPCL)
TITLE : CONTROL ROOM BUILDING FIRST FLOOR PLAN

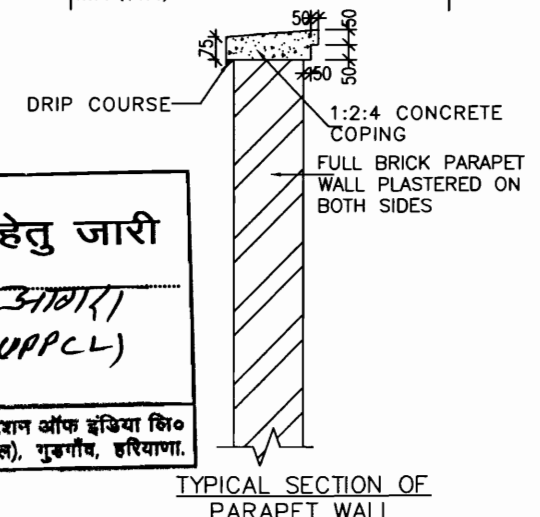
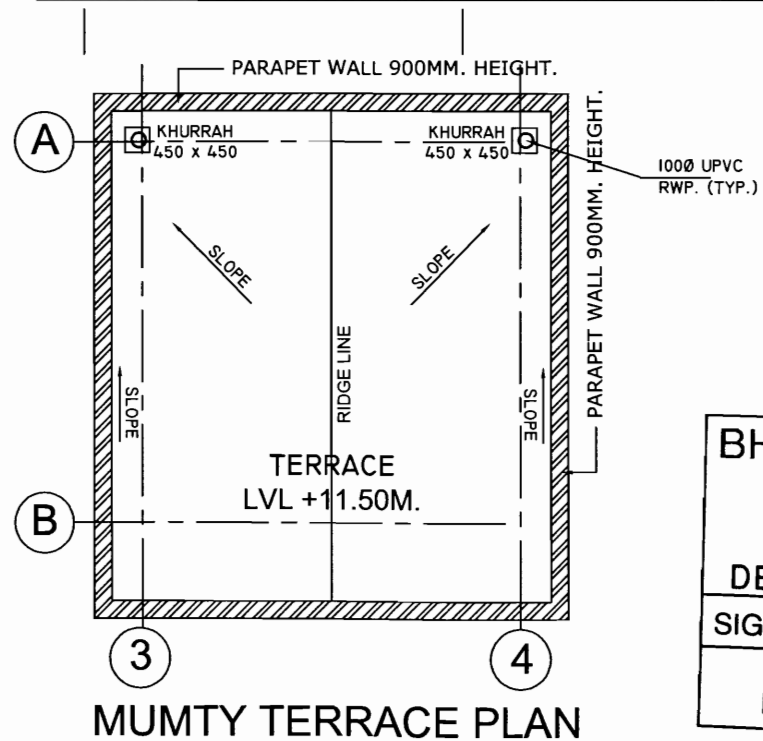
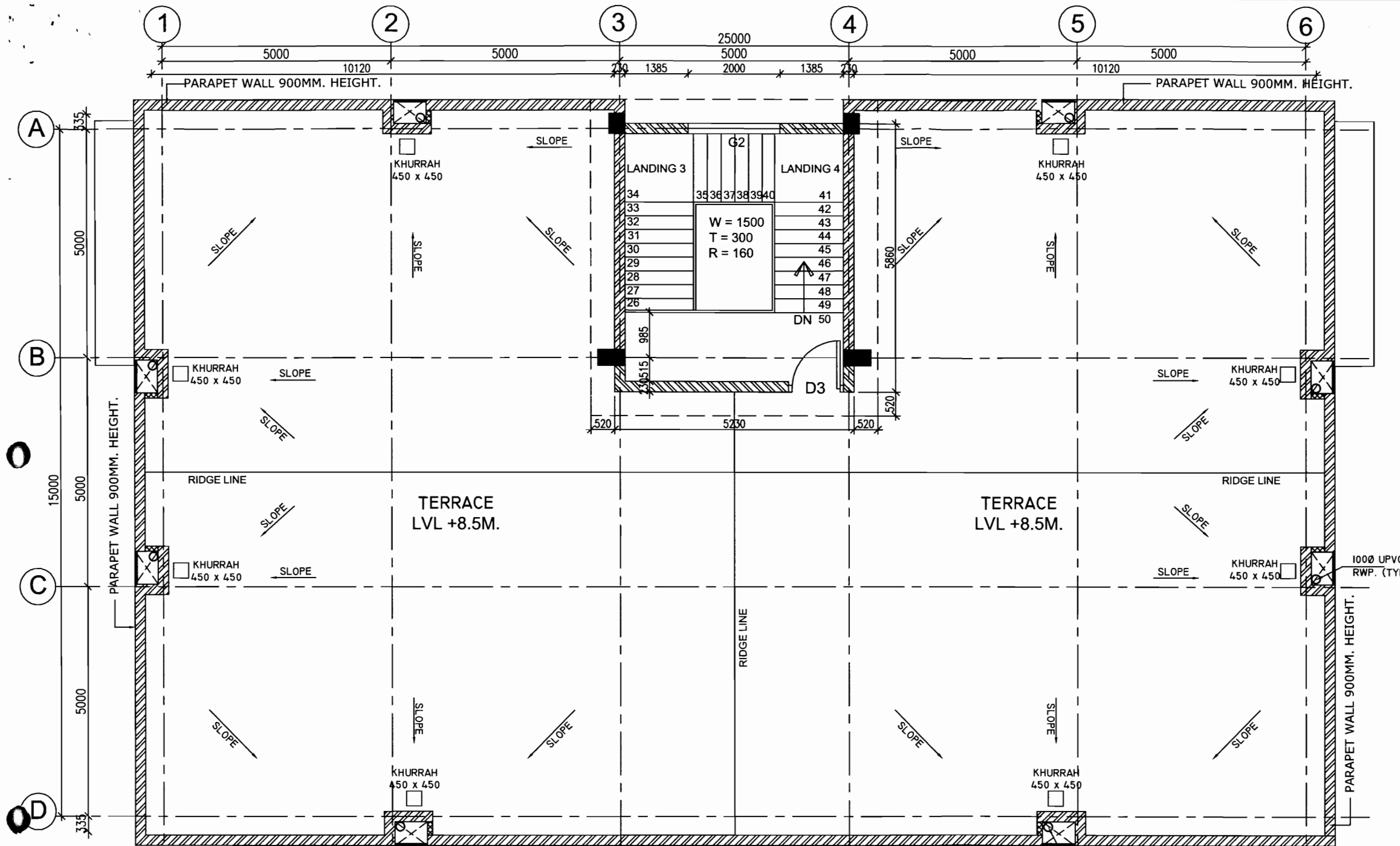
DOOR & WINDOW SCHEDULE

NAME	WIDTH	LINTEL	SILL	DESCRIPTION
MD	2000	2400	---	Aluminum glazed door with dorma bts 80 - universal floor spring, double door with mechanical back check, hydraulic hold open or delayed action.
R/S	2400	3000	---	MS Rolling shutter
D1	1500	2400	---	Aluminum glazed door
D2	1200	2400	---	Fireproof steel door
D3	1200	2400	---	Aluminum glazed door
D4	1000	2400	---	Aluminum glazed door
D5	900	2400	---	Aluminum frame with particle board shutter & fixed glazed
D6	750	2100	---	Aluminum frame with particle board shutter
D7	1000	2000	---	Aluminum glazed door
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W2	1200	2400	750	Aluminum glazing
V1	470	2400	1450	Aluminum glazing
G1	4710	3500	750	Aluminum glazing
G2	2000	AS/DETAILS		Aluminum glazing
G3	2000	LG 4 to 3790	LG 4 to 750	Aluminum glazing

- NOTES :-**
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 - FOR R.C.C COLUMN SIZES REF. STRUCTURAL DRAWINGS.
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 - SITE SHALL PROCURE THE LOSE FURNITURES SEPERATELY
 - ONE NO. RCC JALI SHALL BE KEPT OPENABLE AT EACH FLOOR FOR MAINTENANCE PURPOSE

LEGEND:

- FULL BRICK MASONRY WALL .
- HALF BRICK MASONRY WALL .



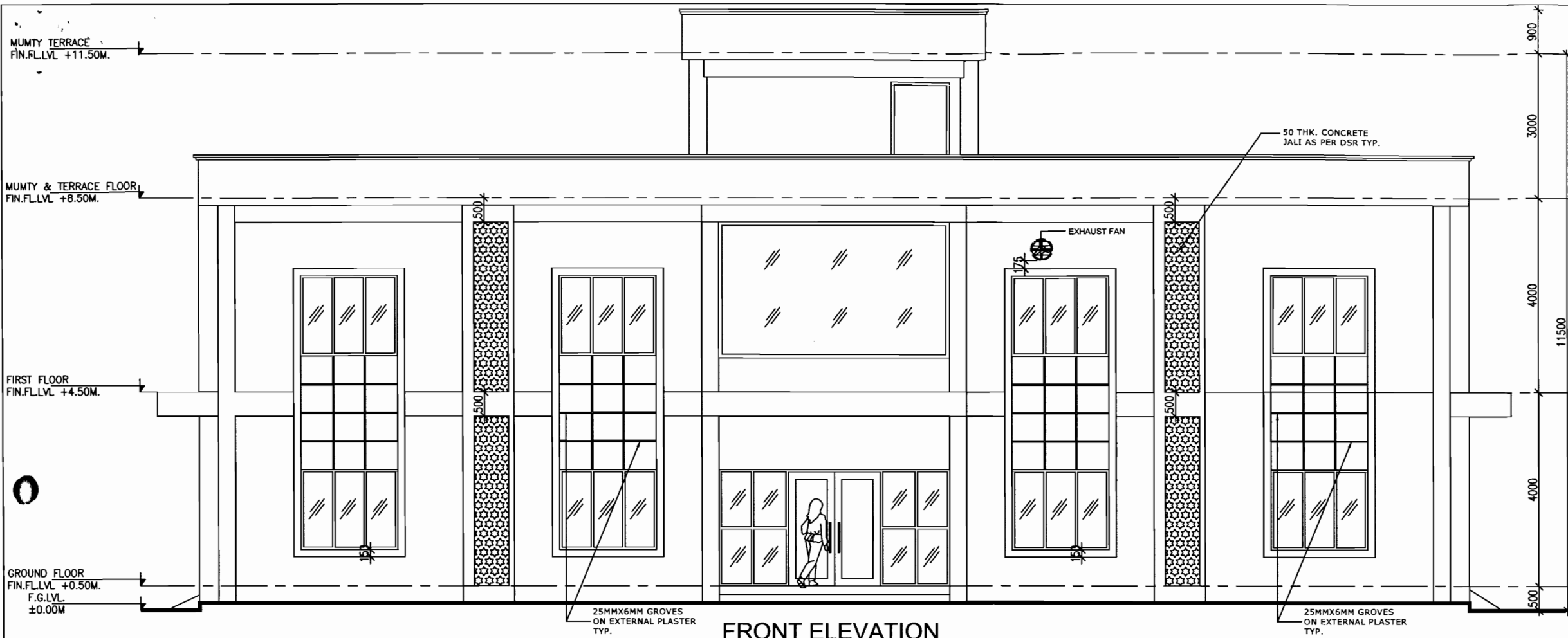
निर्माण हेतु जारी
 उपकेन्द्र के लिए। 3/10/15
 (UPPCL)
 पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लि०
 अभियांत्रिकी (सिविल), गुडगाँव, हरियाणा.

BHEL RELEASED FOR CONSTRUCTION DESTROY EARLIER PRINTS
 SIGNED *[Signature]* DATE 16/3/15
 Transmission Projects Engineering Management

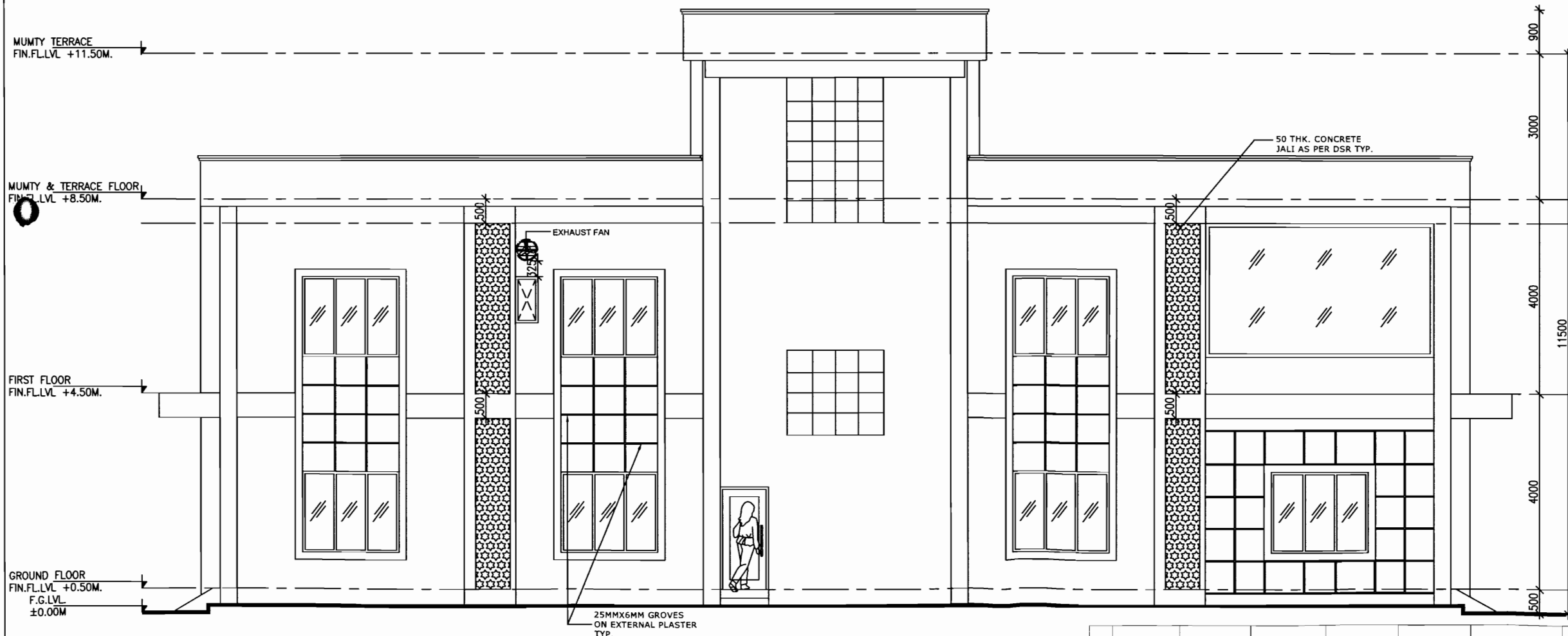
POWER GRID CORPORATION OF INDIA LIMITED (A Government of India Enterprise)	
PROJECT :	785/400kV SUB STATION AT AGRA (UPPCL)
TITLE :	CONTROL ROOM BUILDING TERRACE FLOOR & MUMTY TERRACE PLAN
DRAWING NO.	C-ENGG-NR-1-AGRA-CRB-ARCH-01 (REV. 3 OF 3)
SCALE	NTS
REV	0

REV.	PROP BY	REVD. BY	REVD. BY	REVD. BY	REVD. BY	APPD. BY	DATE
0	DR/ENGG (CIVIL)	CDR/ENGG (CIVIL)	CDR/ENGG (S/S)	ENGG. S/S	GM/ENGG (CIVIL)	KM/ENGG-TL/SS(CIVIL)	

Released for Construction



FRONT ELEVATION



REAR ELEVATION

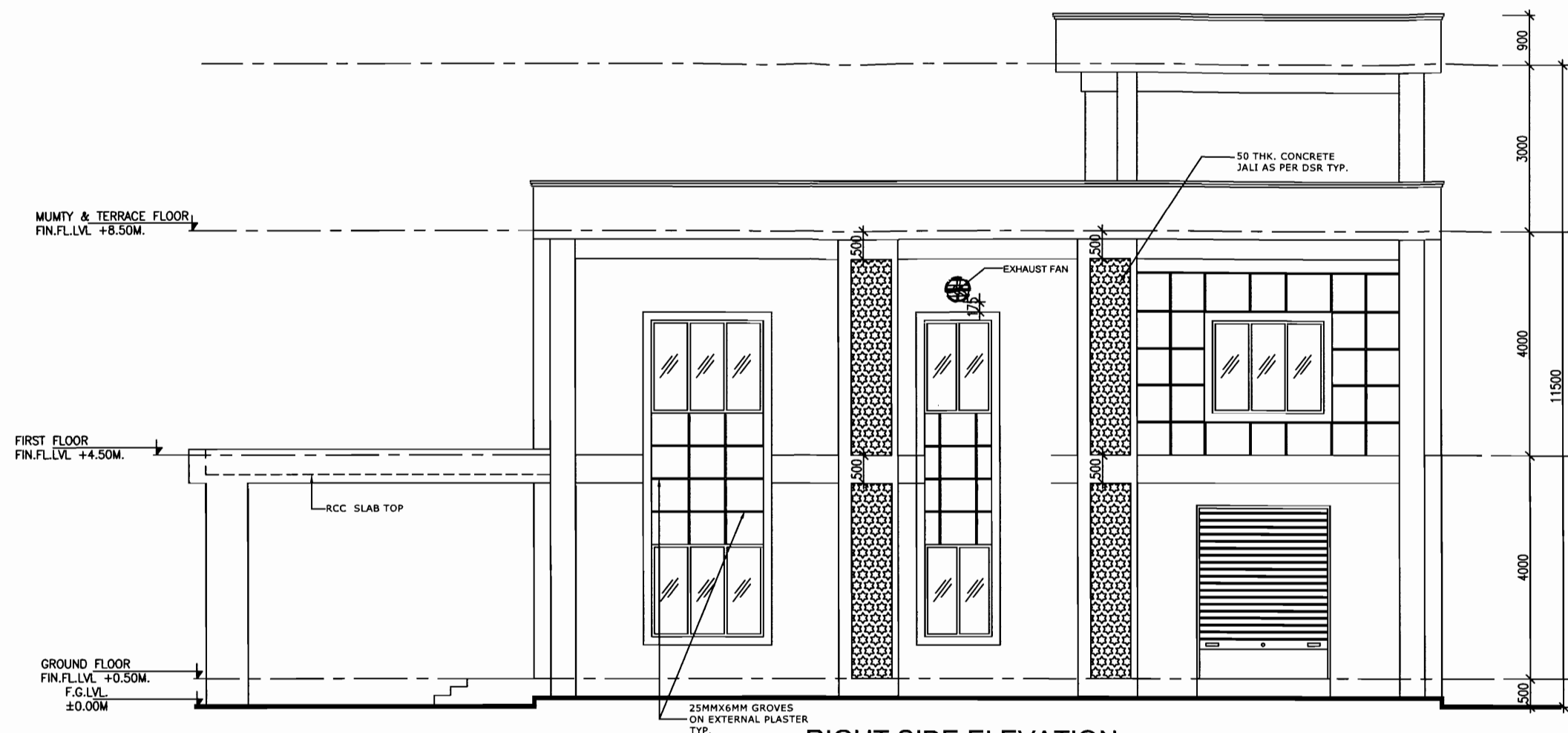
निर्माण हेतु जारी
 उपकेन्द्र के लिए। अग्रा (UPPCL)
 पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड
 अभियांत्रिकी (सिविल), गुडगाँव, हरियाणा।

BHEL RELEASED FOR CONSTRUCTION DESTROY EARLIER PRINTS SIGNED [Signature] DATE 16/3/15 Transmission Projects Engineering Management

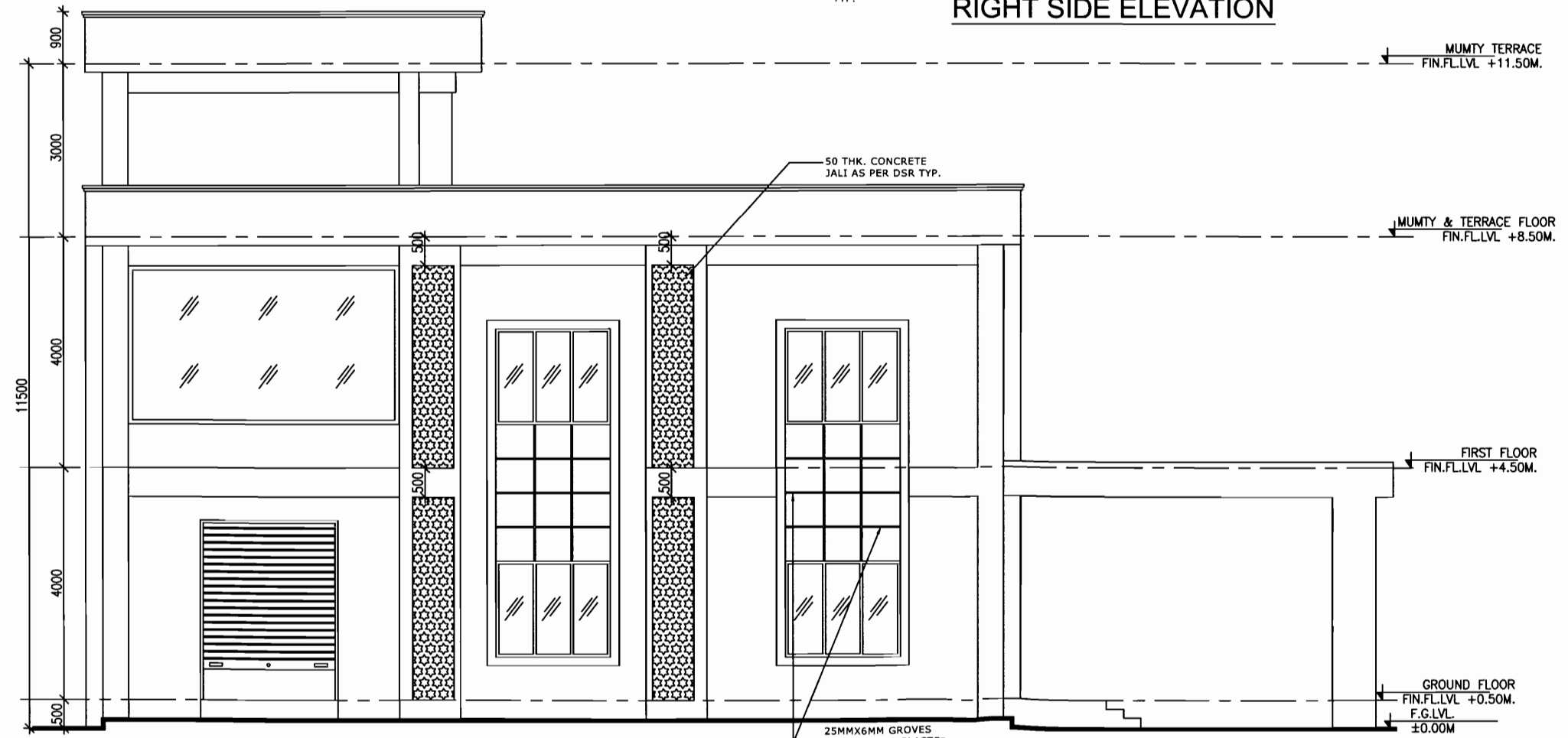
Released for Construction
 POWER GRID CORPORATION OF INDIA LIMITED
 (A Government of India Enterprise)

REV.	PROP. BY	REVD. BY	REVD. BY	REVD. BY	REVD. BY	APPD. BY	DATE	DRAWING NO.	SCALE	REV
0								C-ENGG-NR-1-AGRA-CRB-ARCH-02	NTS	0

PROJECT : 765/400kV SUB STATION AT AGRA (UPPCL)
 TITLE : CONTROL ROOM BUILDING FRONT & REAR SIDE ELEVATIONS



RIGHT SIDE ELEVATION



LEFT SIDE ELEVATION

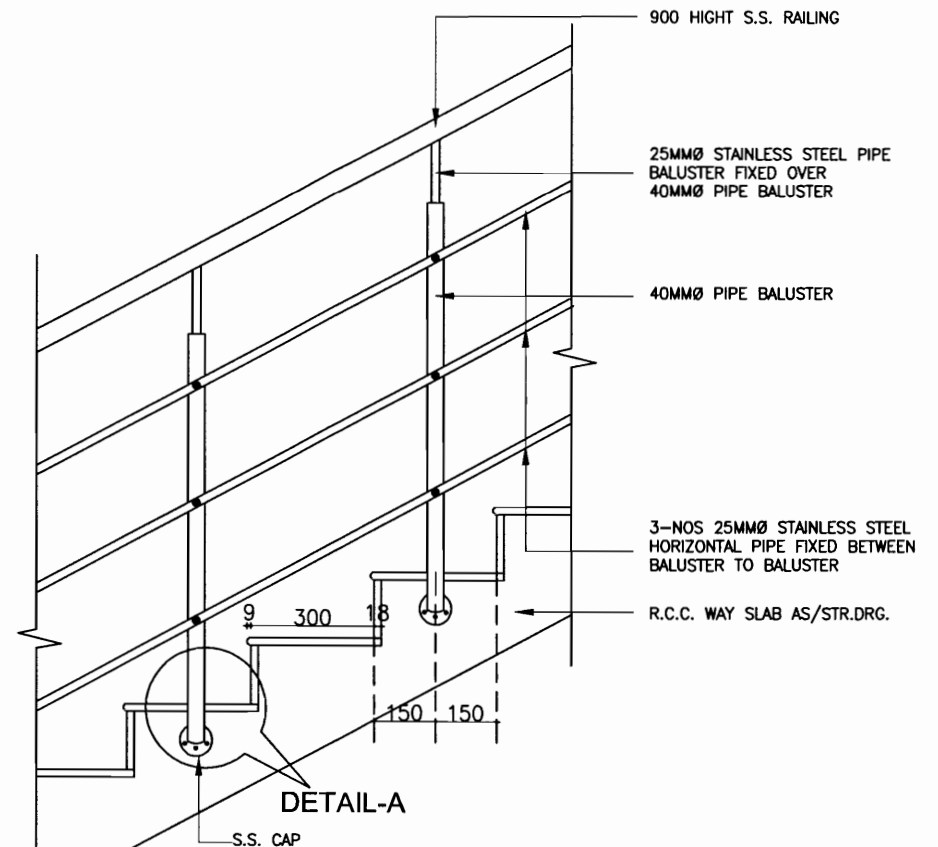
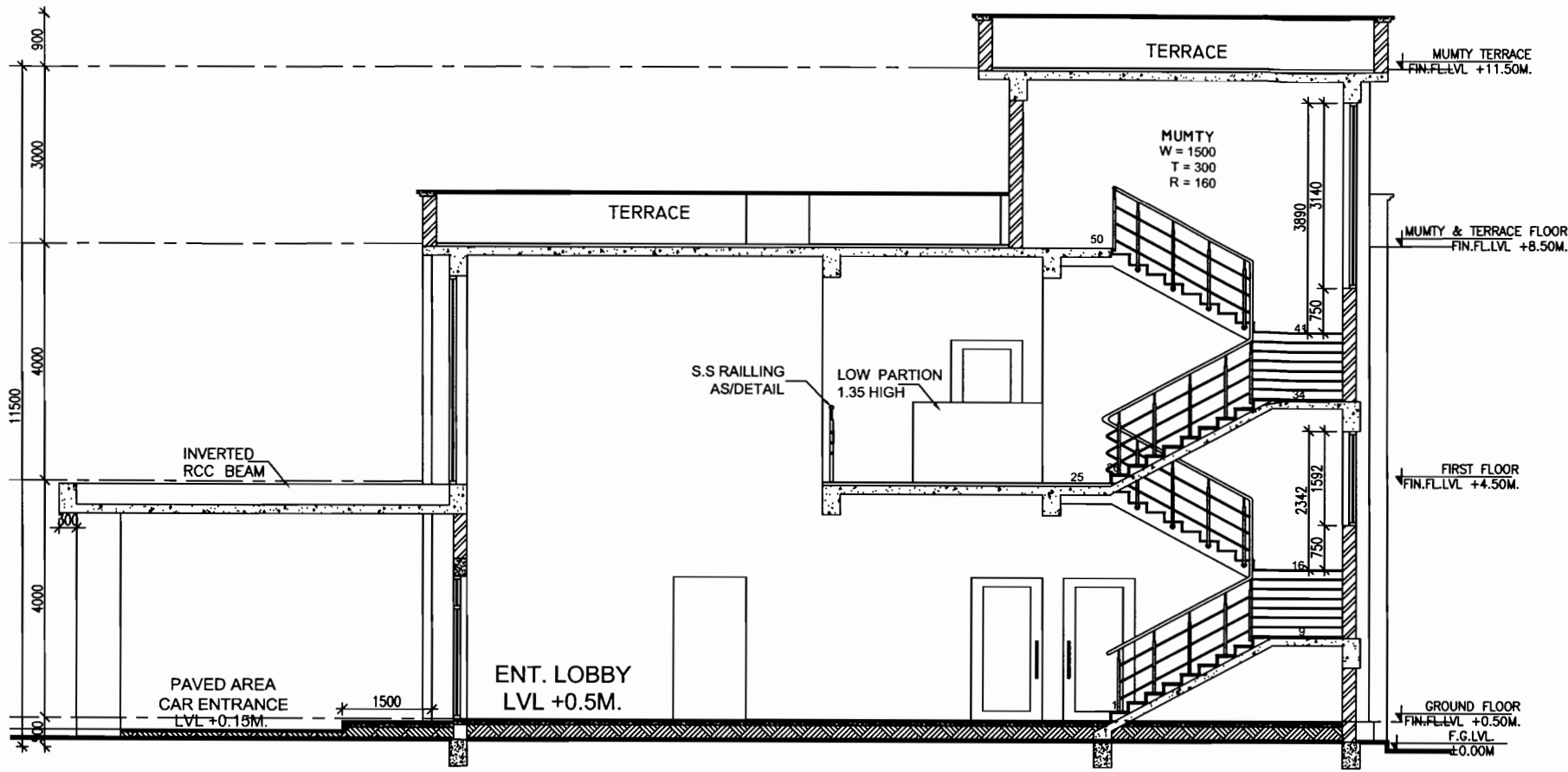
निर्माण हेतु जारी
 उपकेन्द्र के लिए। आगरा (UPPCL)
 पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लि०
 अभियांत्रिकी (विशेष), मुंडगाँव, हरियाणा.

BHEL RELEASED FOR CONSTRUCTION DESTROY EARLIER PRINTS
 SIGNED [Signature] DATE 16/3/15
 Transmission Projects Engineering Management

POWER GRID CORPORATION OF INDIA LIMITED
 (A Government of India Enterprise)

REV.	PROG. BY	REVD. BY	REVD. BY	REVD. BY	REVD. BY	APPD. BY	DATE	DRAWING NO.	SCALE	REV
0								C-ENGG-NR-1-AGRA-CRB-ARCH-02 (SH. 2 OF 2)	NTS	0

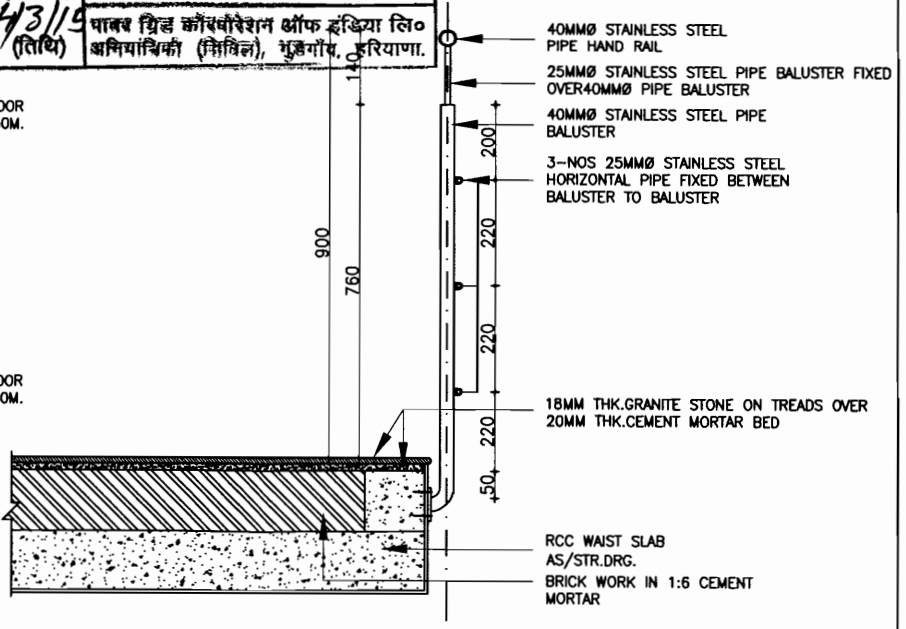
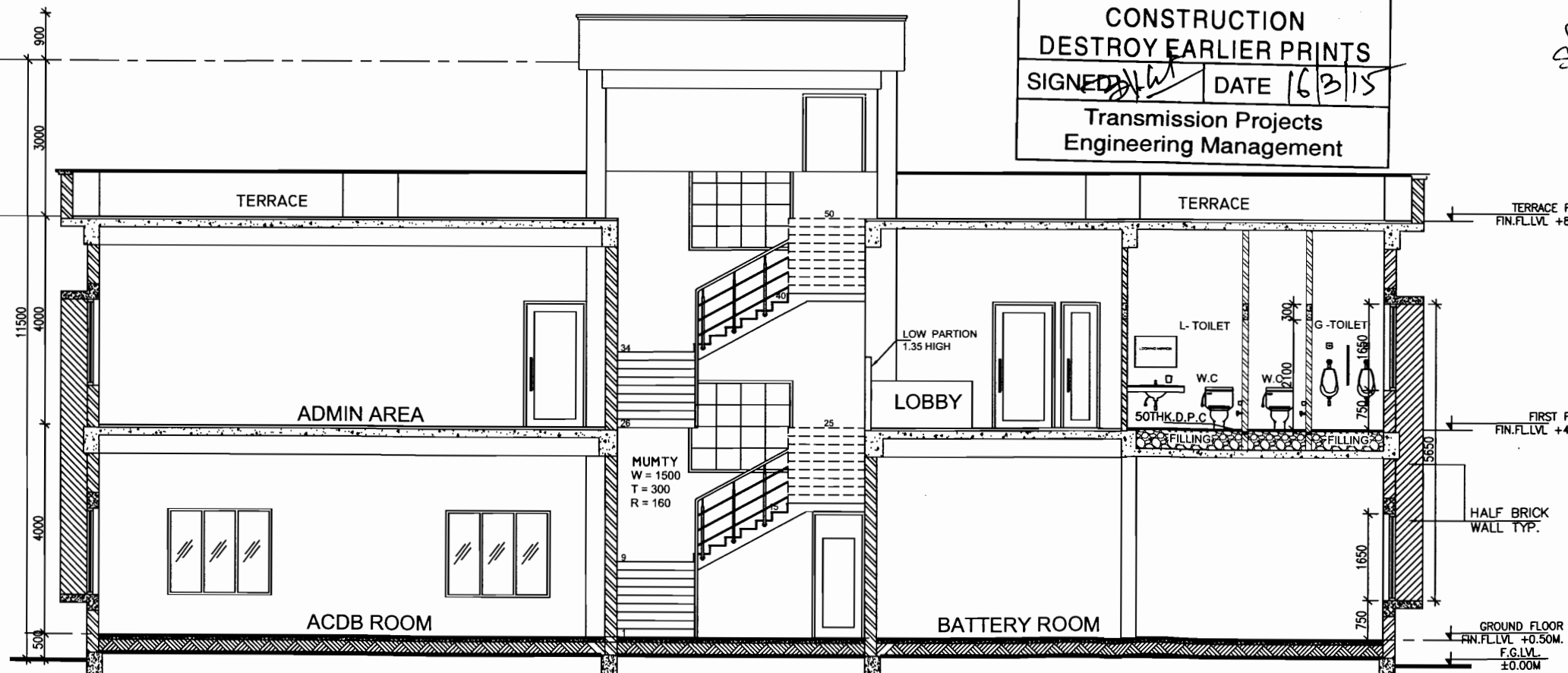
Released for Construction



SECTION THROUGH CANOPY, LOBBY & STAIRCASE

BHEL RELEASED FOR CONSTRUCTION DESTROY EARLIER PRINTS
 SIGNED: [Signature] DATE: 16/3/15
 Transmission Projects Engineering Management

निर्माण हेतु जारी
 उपकेन्द्र के लिए। आगरा (UPPCL)
 CDE (पदनाम) 4/3/15 (तिथि)
 पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लि. अग्रा (UPPCL) इरियाणा.



SECTION-A-A

SECTION THROUGH DCDB ROOM, TOILET, BATTERY ROOM, LOBBY, ACDB ROOM & ADMIN AREA

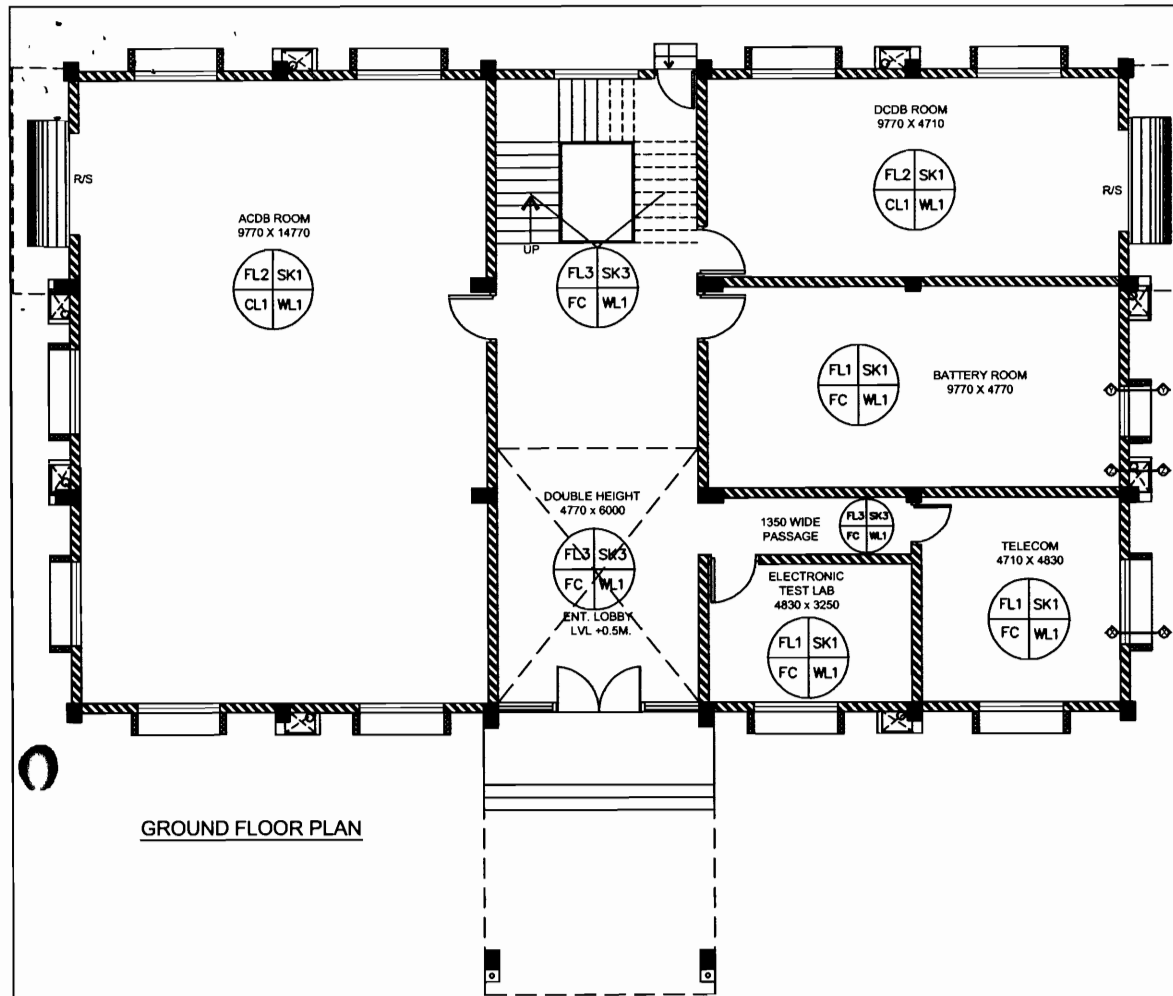
Released for Construction

POWER GRID CORPORATION OF INDIA LIMITED
 (A Government of India Enterprise)

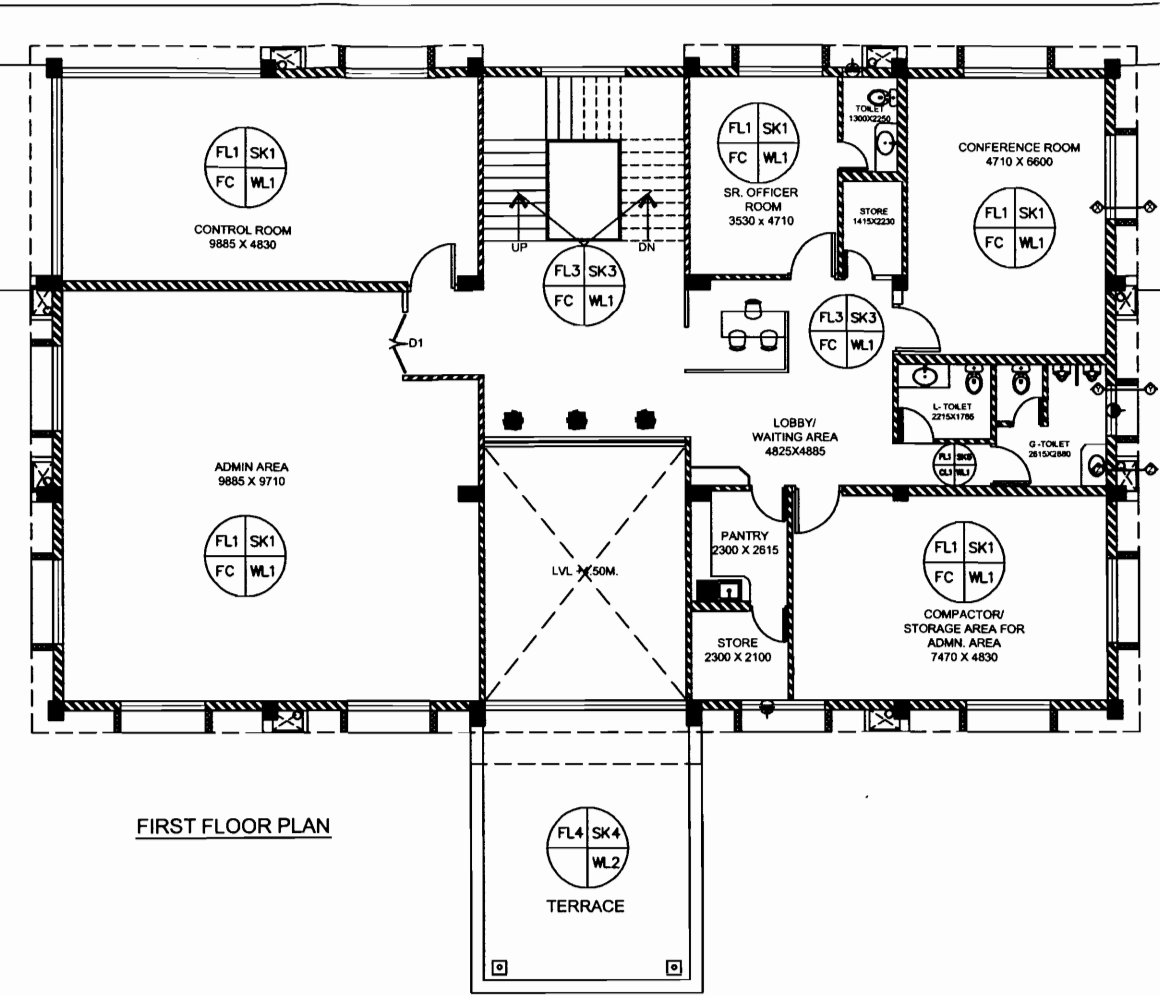
PROJECT : 765/400KV SUB STATION AT AGRA (UPPCL)
 TITLE : CONTROL ROOM BUILDING SECTIONS

REV.	PROP BY	REV. BY	REV. BY	REV. BY	REV. BY	APPD. BY	DATE

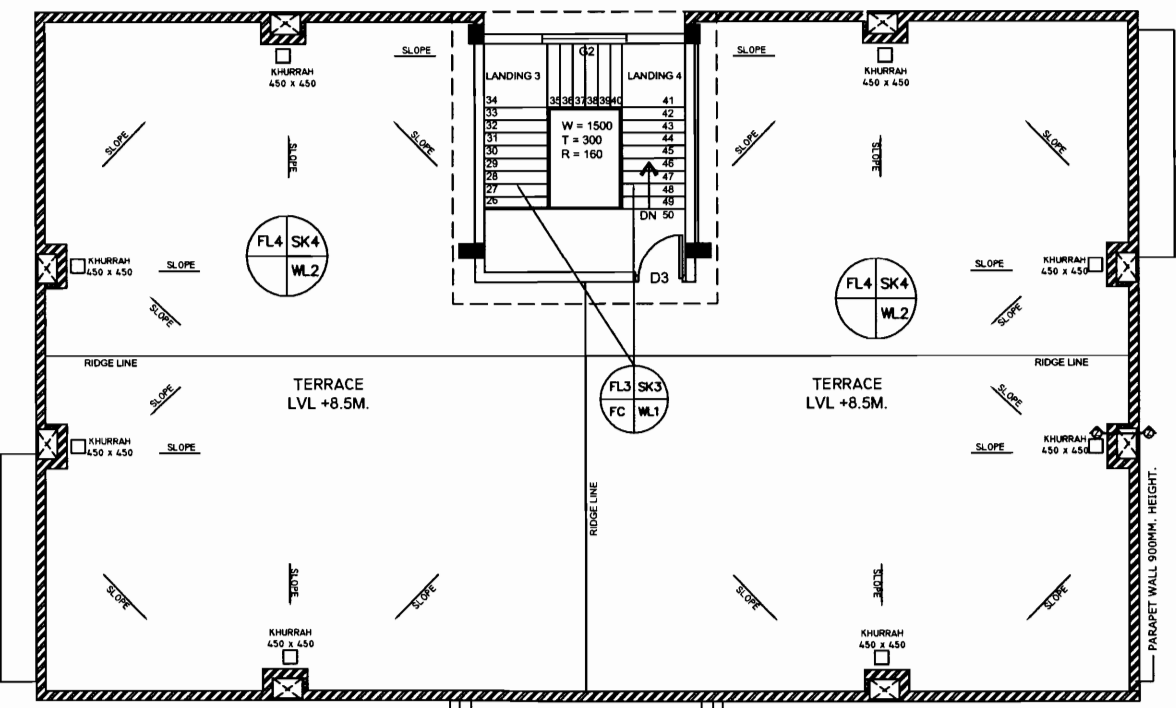
DRAWING NO. C-ENGG-NR-1-AGRA-CRB-ARCH-03 SCALE RBY



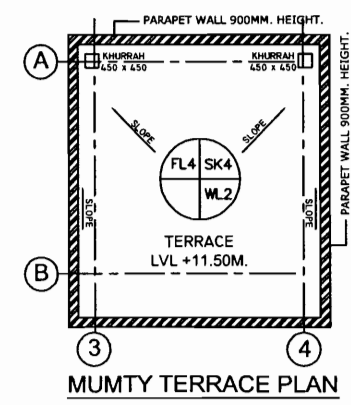
GROUND FLOOR PLAN



FIRST FLOOR PLAN



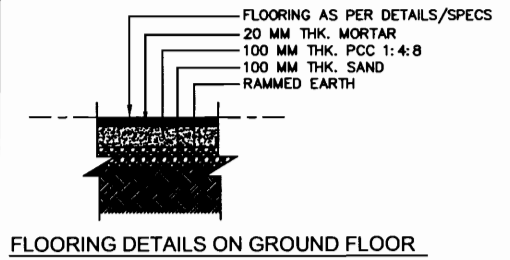
TERRACE & MUMTY FLOOR PLAN



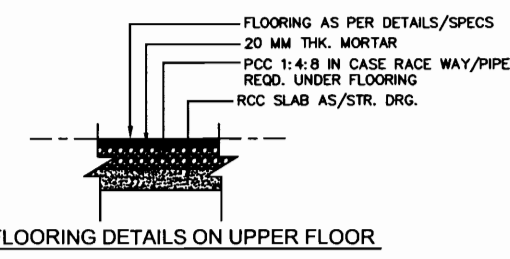
MUMTY TERRACE PLAN

BHEL RELEASED FOR CONSTRUCTION DESTROY EARLIER PRINTS
 SIGNED *[Signature]* DATE 16/3/15
 Transmission Projects Engineering Management

निर्माण हेतु जारी
 उपकेन्द्र के लिए। 370K (UPPCL)
 4/3/15
 पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लि०
 अभियांत्रिकी (सिविल), गुडगाँव, हरियाणा.



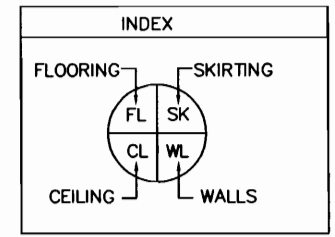
FLOORING DETAILS ON GROUND FLOOR



FLOORING DETAILS ON UPPER FLOOR

- NOTES :-
- ALL DIMENSIONS ARE IN MM
 - DO NOT SCALE THE DRAWING, FOLLOW WRITTEN DIMENSIONS ONLY.
 - ALL DIMENSIONS SHALL BE CHECKED PRIOR TO EXECUTION OF THE WORK.
 - FOR LOCATION OF BUILDING REFER GA PLAN.
 - FOR R.C.C COLUMN SIZES REF. STRUCTURAL DRAWINGS.
 - BRICKS (CLASS 75) SHALL BE USED IN BRICK MASONRY
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 - THE DRAWING TO BE READ IN CONJUNCTION WITH RELEVANT STRUCTURAL DRAWINGS BOTH FOR DIMENSIONS AND LAYOUT.
 - FOR CB TOILETS AND KITCHEN DETAILS REF. SEPARATE DRAWINGS
 - FOR DOORS, WINDOWS AND VENTILATORS DETAILS REF. SEPARATE DRAWINGS.
 - LAYOUT SHALL BE MARKED ON SITE AND GOT APPVD. BY ENGINEER IN-CHARGE IN WRITING BEFORE COMMENCING EXCAVATION WORK AT SITE.
 - ANY DESCREANCY IN DRAWING TO BE BROUGHT TO THE NOTICE OF SITE INCHARGE.
 - COLUMN SHOWN IN THE DRAWING ARE INDICATIVE, FOR EXACT COLUMN LOCATIONS REFER STRUCTURAL DRAWING
 - LOOSE FURNITURES ARE NOT IN THE SCOPE OF CONTRACTOR.
 - SITE SHALL PROCURE THE LOSE FURNITURES SEPERATELY
 - ONE NO. RCC JALI SHALL BE KEPT OPENABLE AT EACH FLOOR FOR MAINTENANCE PURPOSE

FINISHING SCHEDULE



AREA/SURFACE	INTERIOR FINISH	NOMEN-CLATURE	REMARKS
FLOORING	Vitrified floor tiles	FL1	
	Cement conc. (ips) flooring (with concrete hardener topping)	FL2	
	Granite stone	FL3	
	Brick bat water proofing as/specs.	FL4	
SKIRTING/DADO	Vitrified tiles	SK1	
	Cement plaster	SK2	
	Granite stone	SK3	
	Dholpur stone	SK4	
	Vitrified tiles	SK5	Dado up to 2400ht.
WALLS	Plastic emulsion paint	WL1	
	Premium Acrylic exterior paint with silicone additives	WL2	
CEILING	Plastic emulsion paint	CL1	
	False ceiling as specifications	FC	

SPECIAL NOTE:
 UNDER DECK THERMAL INSULATION TO BE PROVIDED IN THE FIRST FLOOR CELING AS PER DSR'2013 ITEM CODE NO. 12.34

POWER GRID CORPORATION OF INDIA LIMITED
 (A Government of India Enterprise)



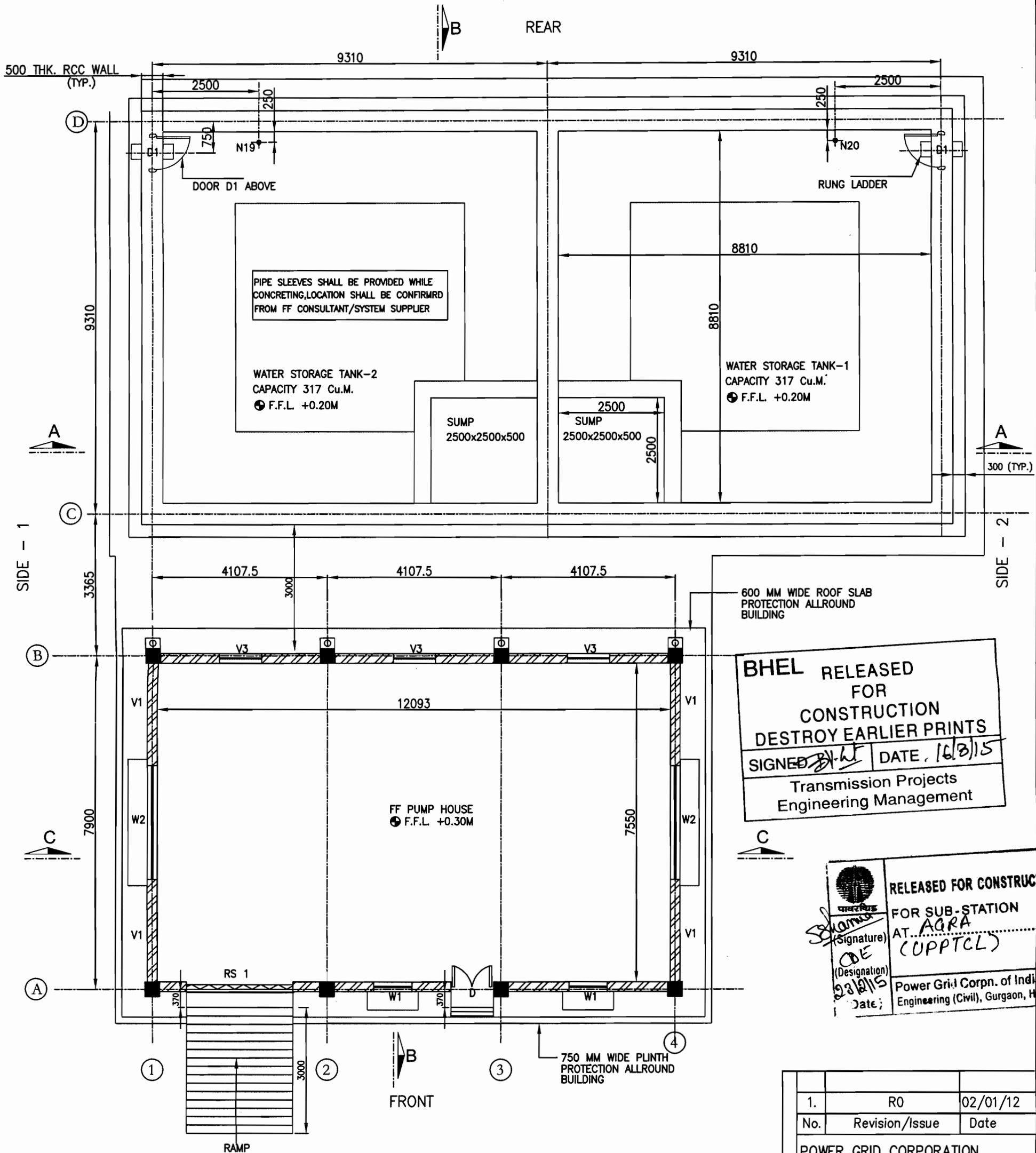
PROJECT : 765/400kV SUB STATION AT AGRA (UPPCL)

TITLE : CONTROL ROOM BUILDING FINISHING DRAWING

DRAWING NO. C-ENGG-NR-1-AGRA-CRB-ARCH-04 (SH. 1 OF 1) SCALE NTS REV 0

Released for Construction

REV.	PROP BY	REVD. BY	REVD. BY	REVD. BY	REVD. BY	APPD. BY	DATE
	DE(ENGG CIVIL)	CDE(ENGG CIVIL)	CDE(ENGG S/S)	(ENGG S/S)	GM(ENGG CIVIL)	ED(ENGG-TL/SS/CVL)	
0							



GROUND FLOOR PLAN FOR FFPH & WATER TANK

APPROVED BY E.D.ENGG-S/Strn & T/L VIDE NOTE SHEET
 Ref:- C/ENGG/CIVL/STD/FDN/M25 Dated 09/02/2012

RELEASED FOR TENDER/CONSTRUCTION

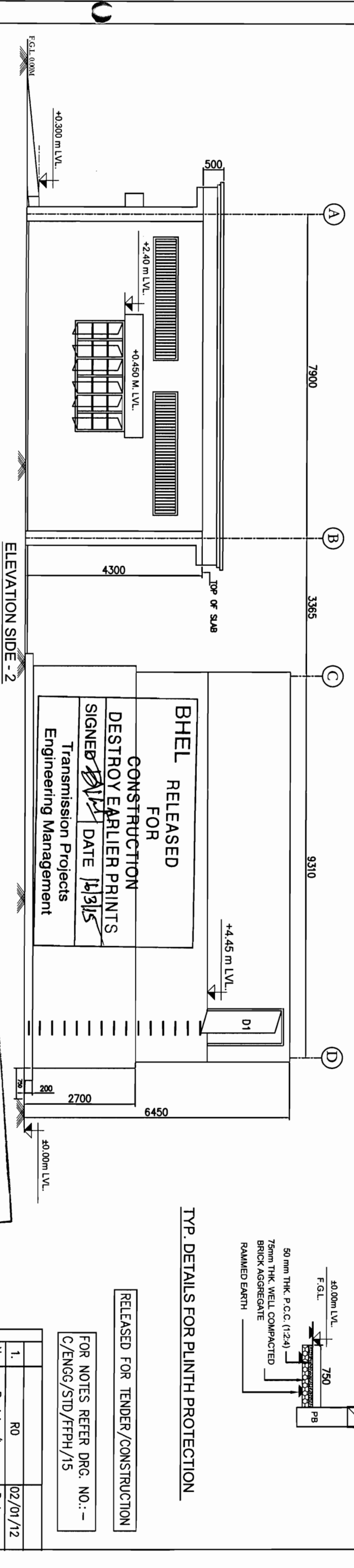
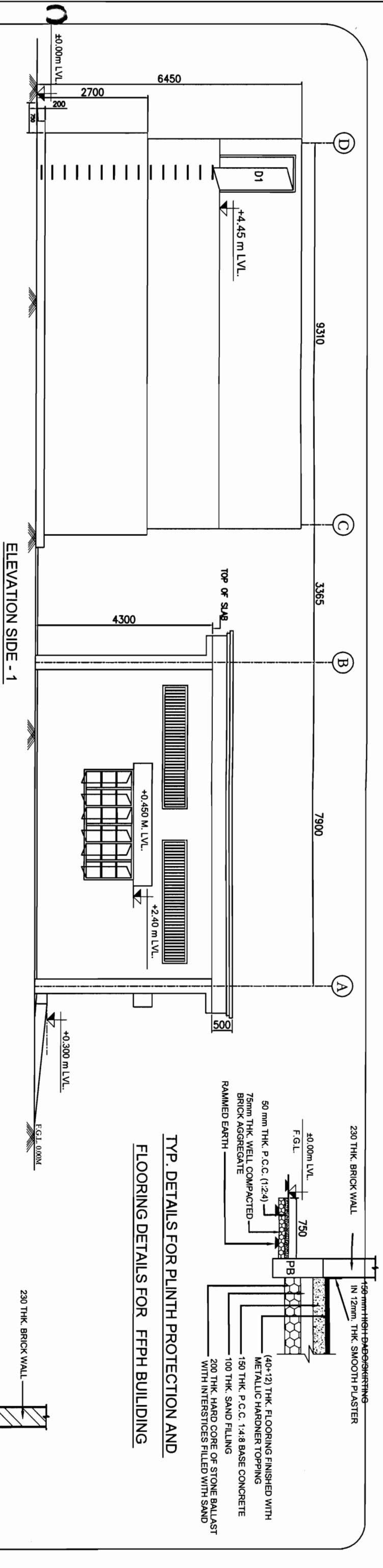
FOR NOTES REFER DRG. NO.: -
 C/ENGG/STD/FFPH/15

PREP.	REVD.	REVD.	REVD.	REVD.	REVD.	APPD.	DATE

BHEL RELEASED FOR CONSTRUCTION DESTROY EARLIER PRINTS
 SIGNED: [Signature] DATE: 16/3/15
 Transmission Projects Engineering Management

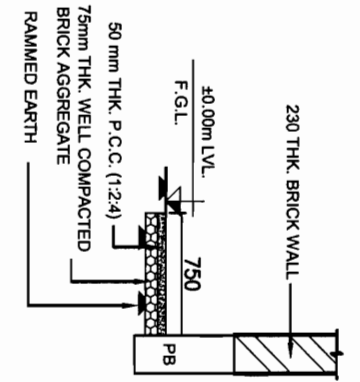
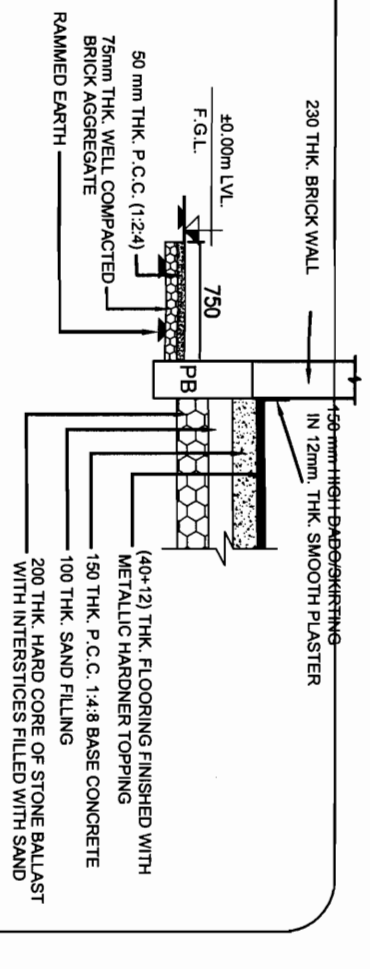
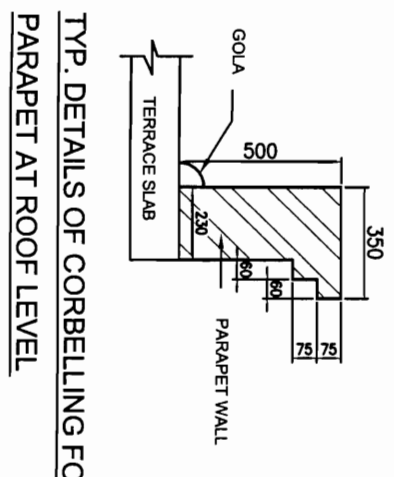
RELEASED FOR CONSTRUCTION FOR SUB-STATION AT AGRA (UPPTCL)
 [Signature] (Designation) [Date]
 Power Grid Corpn. of India Ltd. Engineering (Civil), Gurgaon, Haryana

1.	RO	02/01/12
No.	Revision/Issue	Date
POWER GRID CORPORATION OF INDIA LIMITED (A Government of India Enterprise)		
PROJECT: STANDARD FIRE FIGHTING PUMP HOUSE & WATER TANK.		
TITLE: GROUND FLOOR PLAN FOR FIRE FIGHTING PUMP HOUSE & WATER TANK		
DRAWING NO: C/ENGG/STD/FFPH-1		
SCALE	SCALE N.T.S.	Sheet 1



SCHEDULE OF OPENING:-

SR. NO.	OPENING MARK	SIZE WXD mm	CLL LVL. mts.	UNTEL LVL. mts.	NOS.	DESCRIPTION
01	ROLLING SHUTTER RS1	2500X3400	+0.300	+3.70	01	STANDERD STEEL ROLLING SHUTTER
02	DOOR D	1000X2100	+0.300	+2.40	01	M.S. DOOR FRAME WITH M.S. SHEET DOUBLE SHUTTER
03	DOOR D1	900X1850	+4.45	+6.3	02	STEEL DOOR - SINGLE SHUTTER MADE FROM HOT ROLLED SECTION
04	WINDOW W1	900X1200	+1.20	+2.40	02	STEEL WINDOW (1200mm) GLAZED OPENING MADE FROM HOT ROLLED SECTIONS.
05	WINDOW W2	2700X1200	+1.20	+2.40	02	STEEL WINDOW (1200mm) GLAZED OPENING MADE FROM HOT ROLLED SECTIONS.
06	VENTILATOR V1	3010X860	AT BEAM	BOTTOM	04	STEEL GRIL
07	VENTILATOR V3	1000X860	AT BEAM	BOTTOM	03	STEEL GRIL



BHEL RELEASED FOR CONSTRUCTION DESTROY EARLIER PRINTS
 SIGNED *[Signature]* DATE 16/3/15
 Transmission Projects
 Engineering Management

RELEASED FOR CONSTRUCTION FOR SUB-STATION AT AGRA (UPPTCL)
 (Designation) *[Signature]*
 (Signature) *[Signature]*
 Power Grid Corpn. of India Ltd.
 Engineering (Civil), Gurgaon, Haryana
 Date: 29/01/15

APPROVED BY E.D. ENGG-S/SH & T/L WIDE NOTE SHEET
 Ref:- C/ENGG/CIVIL/STD/TDN/M25 Dated 09/02/2012

RELEASED FOR TENDER/CONSTRUCTION

FOR NOTES REFER DRG. NO.:-
 C/ENGG/STD/FFPH/15

No.	Revision/Issue	Date
1.	R0	02/01/12

POWER GRID CORPORATION OF INDIA LIMITED
 (A Government of India Enterprise)

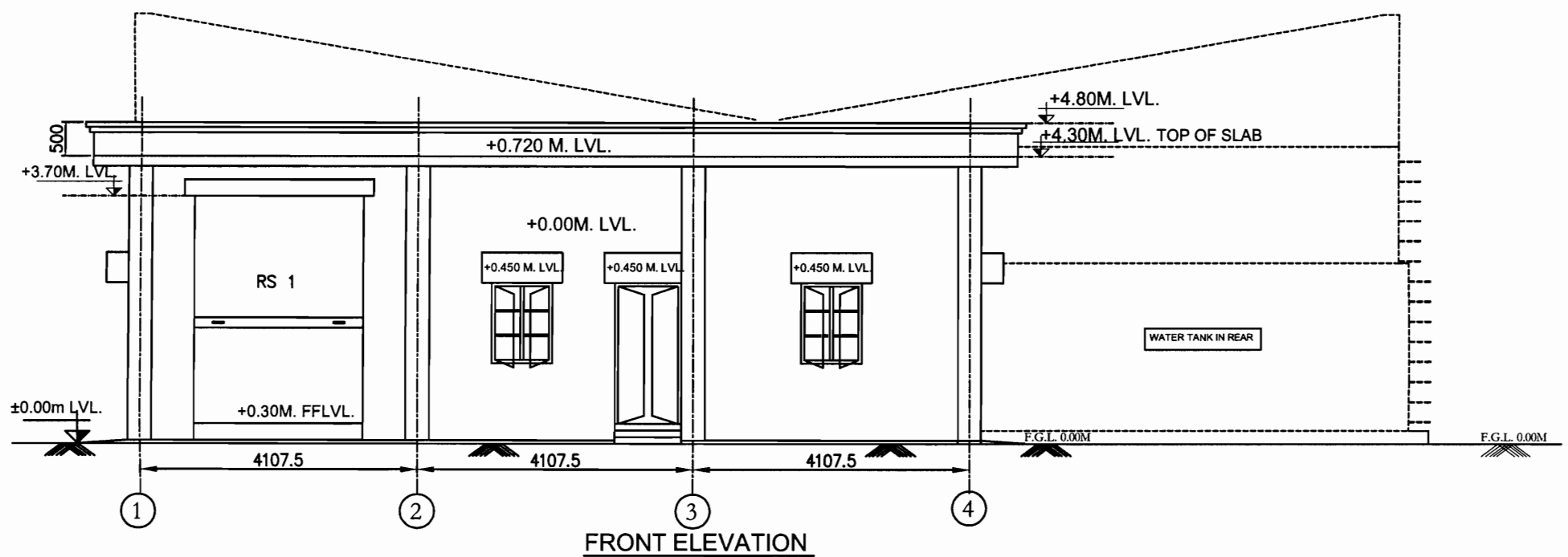
PROJECT:
 STANDARD FIRE FIGHTING PUMP HOUSE & WATER TANK.

TITLE: ELEVATION FOR FIRE FIGHTING PUMP HOUSE & WATER TANK

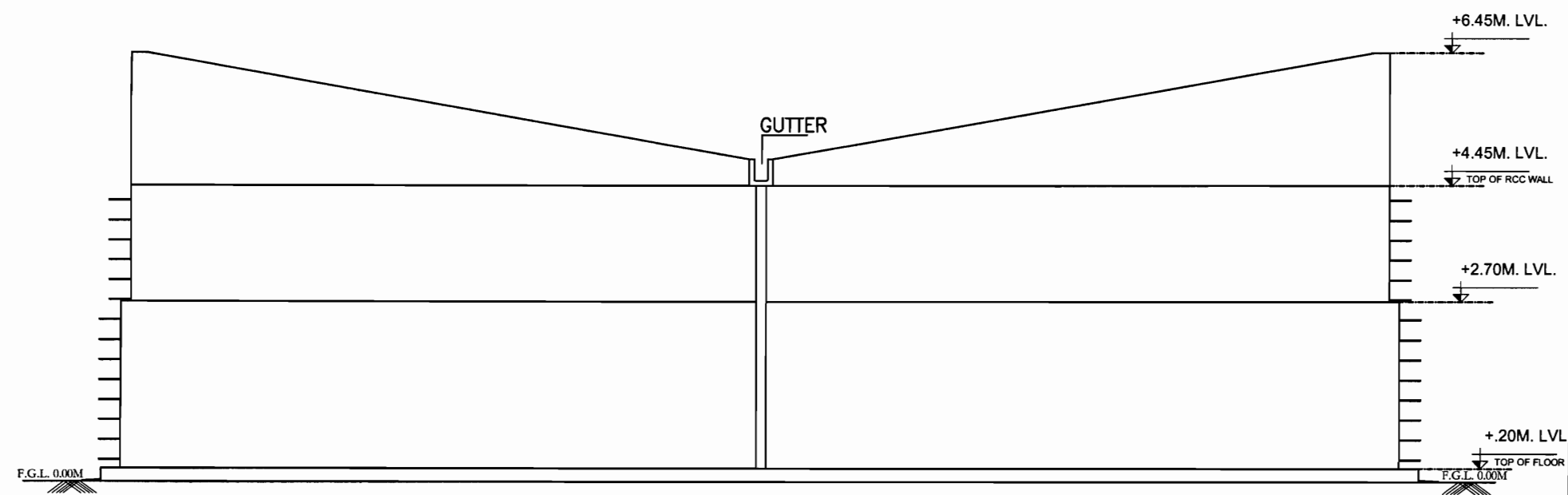
DRAWING NO.:
 C/ENGG/STD/FFPH-2

PREP.	REVD.	REVD.	REVD.	REVD.	APPD.	DATE

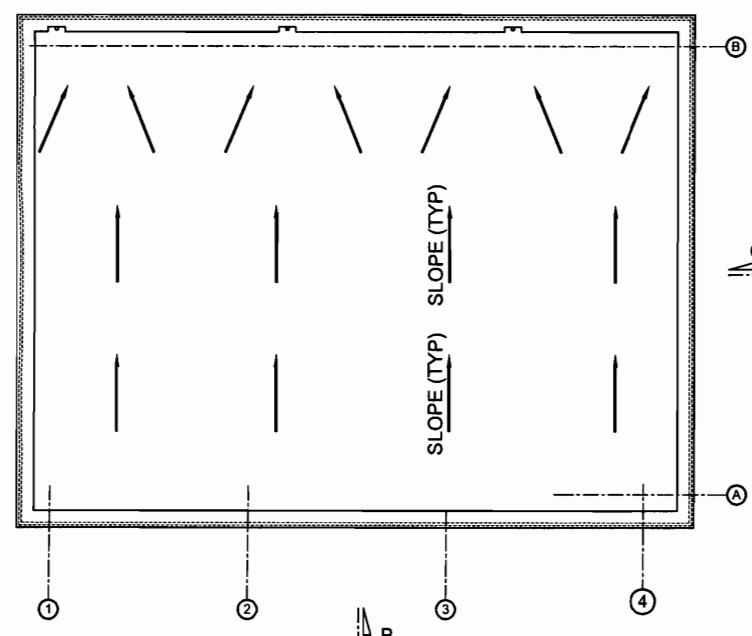
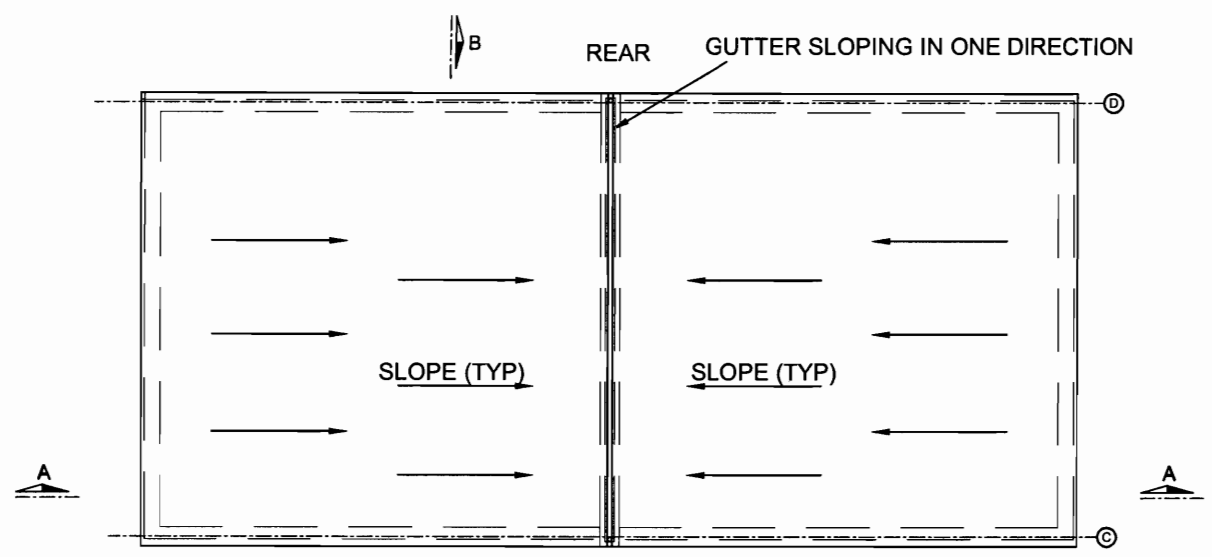
SCALE: N.T.S. Sheet 1



FRONT ELEVATION



REAR ELEVATION



TERRACE LEVEL PLAN FOR FFPH

BHEL RELEASED FOR CONSTRUCTION DESTROY EARLIER PRINTS
 SIGNED *[Signature]* DATE 16/3/15
 Transmission Projects Engineering Management

APPROVED BY E.D.ENGG-S/Strn & T/L VIDE NOTE SHEET Ref:- C/ENGG/CIVL/STD/FDN/M25 Dated 09/02/2012

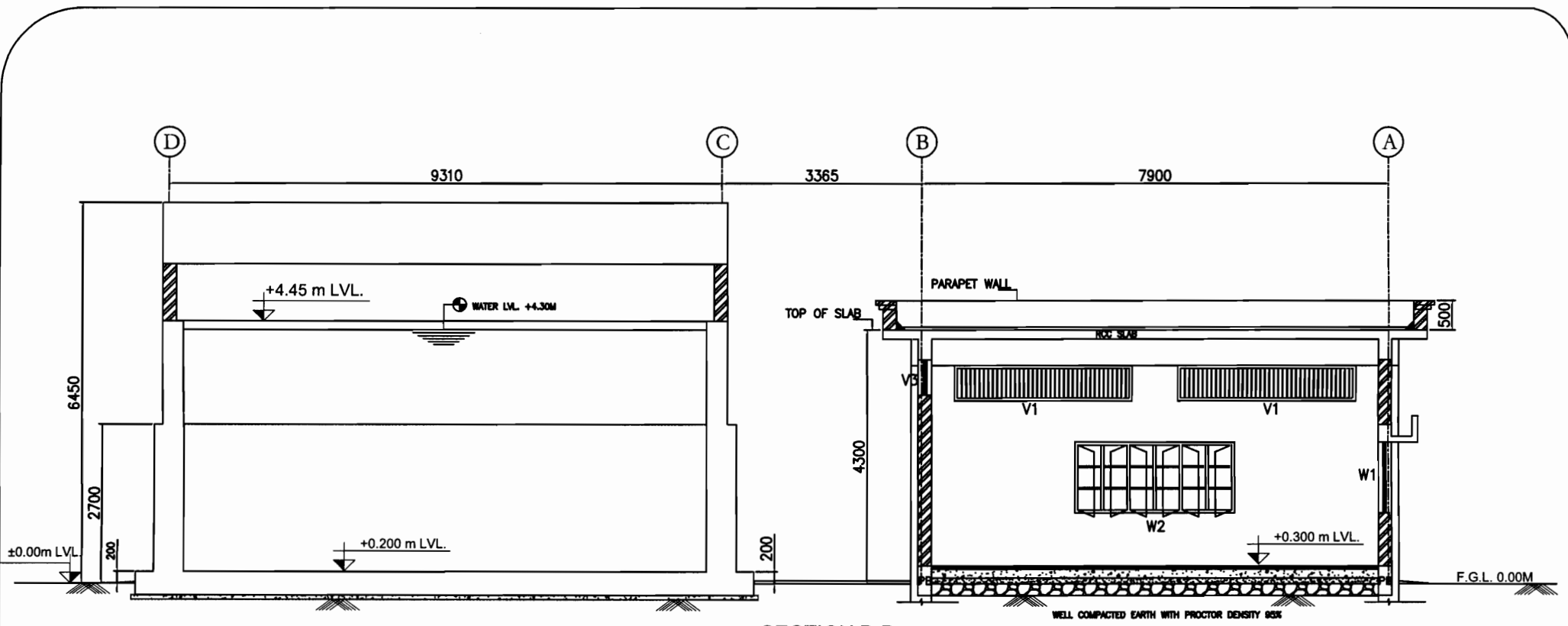
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FOR NOTES REFER DRG. NO.:- C/ENGG/STD/FFPH/15

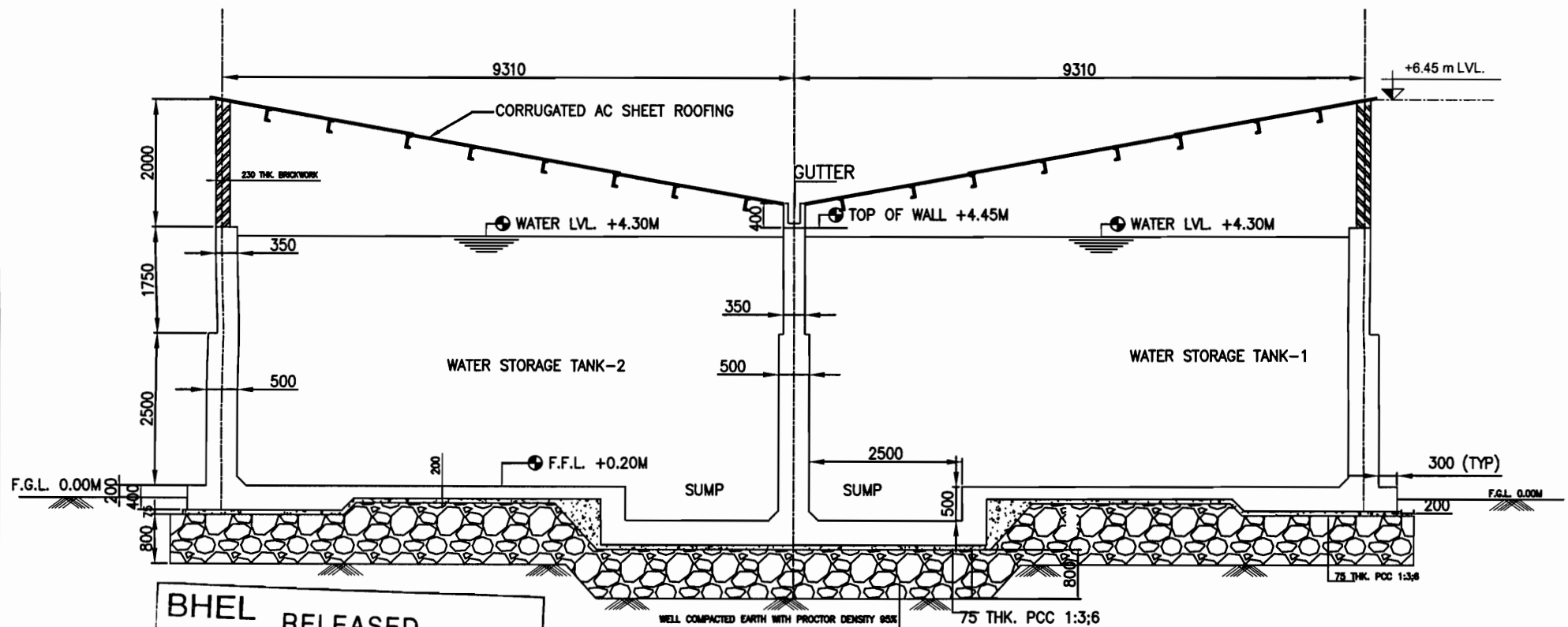
RELEASED FOR CONSTRUCTION FOR SUB-STATION AT AGRA (UPPTCL)
[Signature]
 CDE (Designation)
 23/2/15 (Date)
 Power Grid Corpn. of India Ltd. Engineering (Civil), Gurgaon, Haryana

1.	RO	02/01/12
No.	Revision/Issue	Date
POWER GRID CORPORATION OF INDIA LIMITED (A Government of India Enterprise)		
PROJECT: STANDARD FIRE FIGHTING PUMP HOUSE & WATER TANK.		
TITLE: FRONT & REAR ELEVATION & TERRACE FLOOR PLAN FOR FIRE FIGHTING PUMP HOUSE & WATER TANK		
DRAWING NO: C/ENGG/STD/FFPH-3		
SCALE	SCALE N.T.S.	Sheet 1

PREP.	REVD.	REVD.	REVD.	REVD.	APPD.	DATE



SECTION B-B

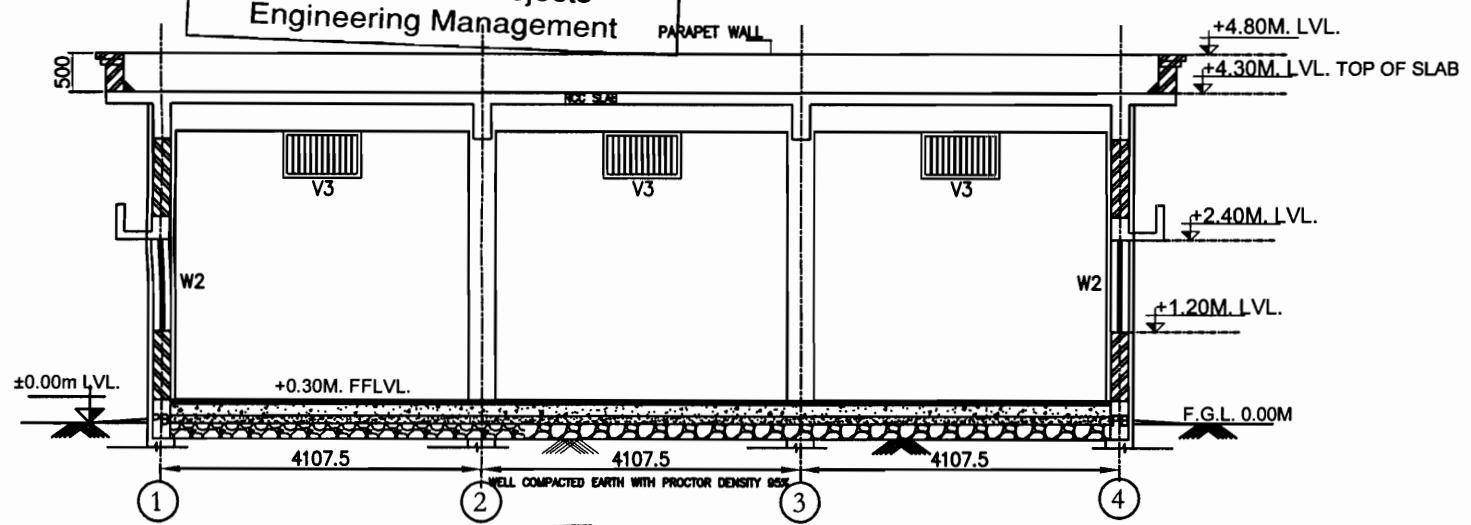


SECTION A-A

BHEL RELEASED FOR CONSTRUCTION DESTROY EARLIER PRINTS
 SIGNED *[Signature]* DATE 16/3/15
 Transmission Projects Engineering Management

RELEASED FOR TENDER/CONSTRUCTION

FOR NOTES REFER DRG. NO.: - C/ENGG/STD/FFPH/15



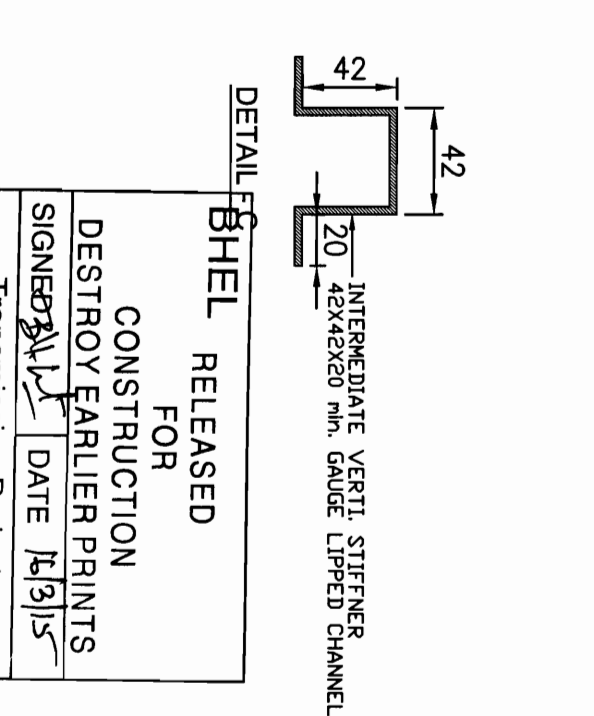
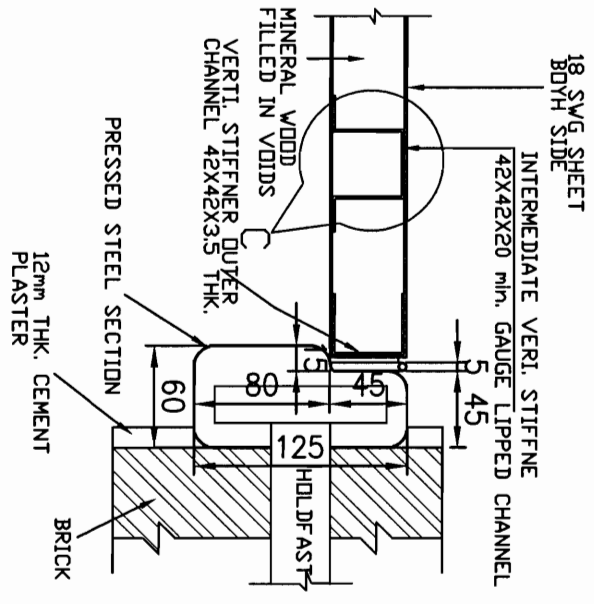
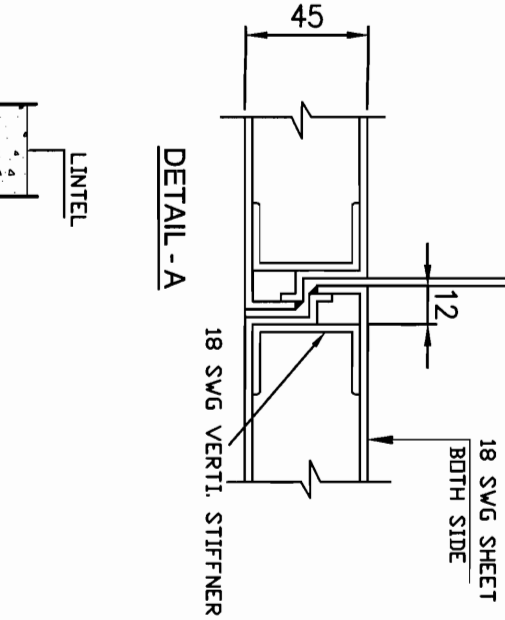
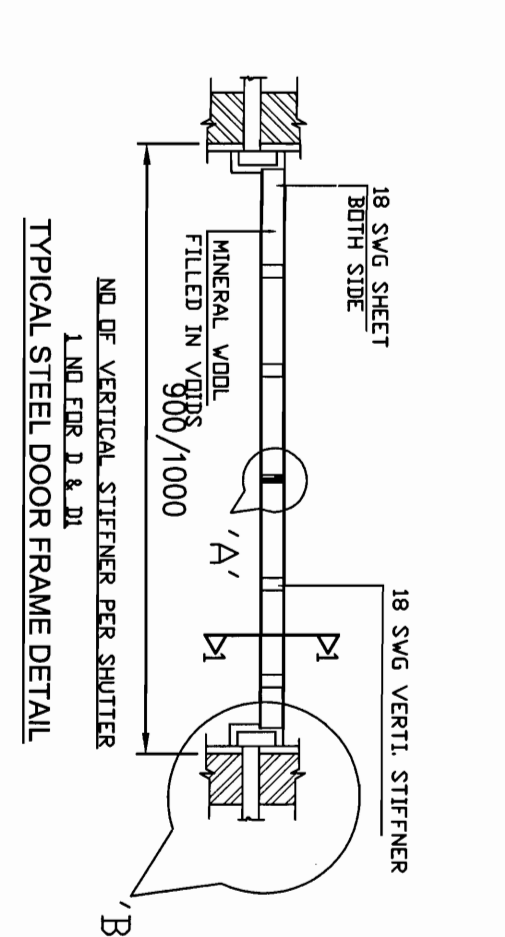
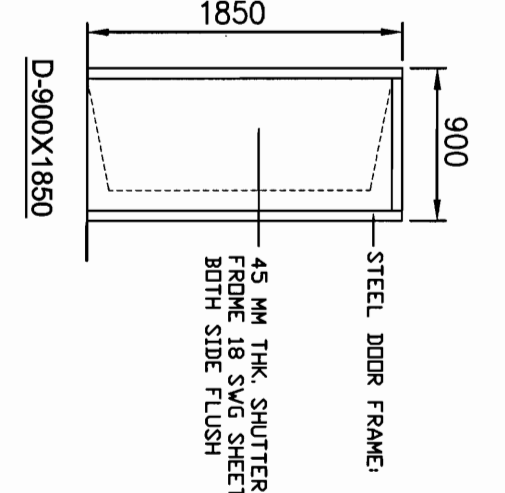
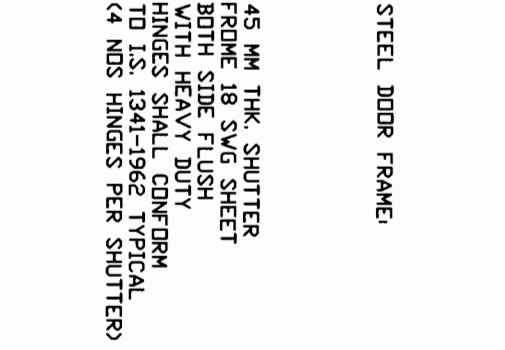
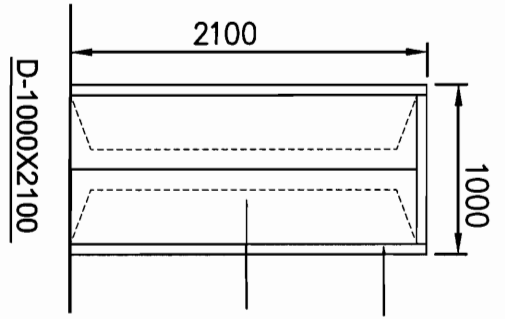
SECTION C-C

1.	RO	02/01/12
No.	Revision/Issue	Date
POWER GRID CORPORATION OF INDIA LIMITED (A Government of India Enterprise)		
PROJECT: STANDARD FIRE FIGHTING PUMP HOUSE & WATER TANK.		
TITLE: SECTION FOR FIRE FIGHTING PUMP HOUSE & WATER TANK		
DRAWING NO: C/ENGG/STD/FFPH-4		
SCALE	SCALE N.T.S.	Sheet 1

APPROVED BY E.D.ENGG-S/Strn & T/L VIDE NOTE SHEET
 Ref:- C/ENGG/CIVL/STD/FDN/M25 Dated 09/02/2012

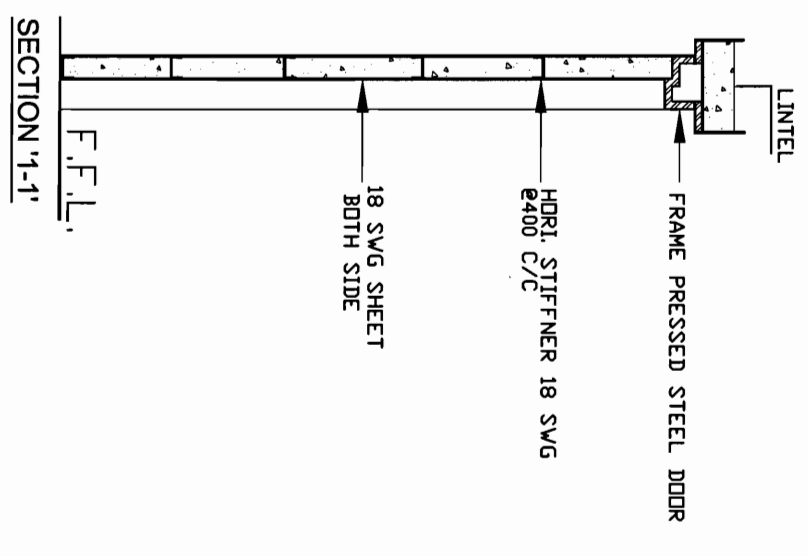
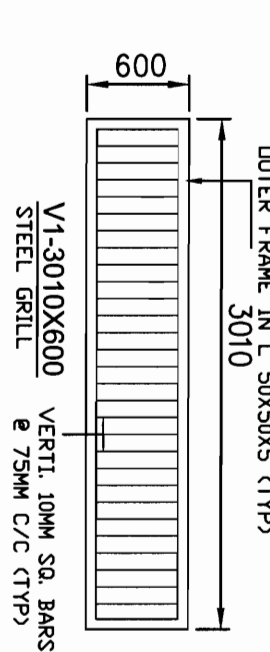
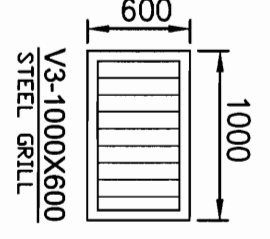
PREP.	REVD.	REVD.	REVD.	REVD.	APPD.	DATE

RELEASED FOR CONSTRUCTION FOR SUB-STATION AT AGRA (CUPPTCL)
 Signature: *[Signature]*
 (Designation) COE
 Date: 23/8/15
 Power Grid Corpn. of India Ltd. Engineering (Civil), Gurgaon, Haryana

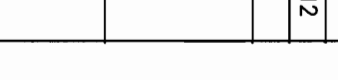
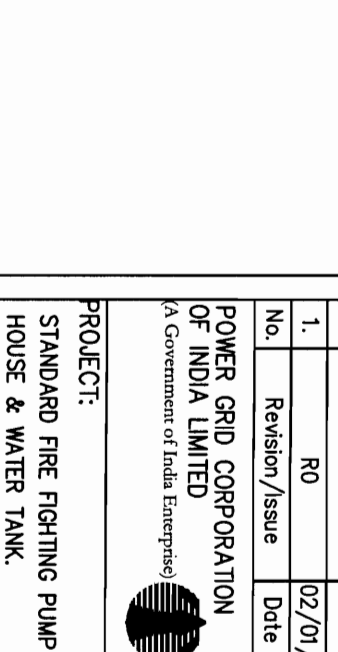
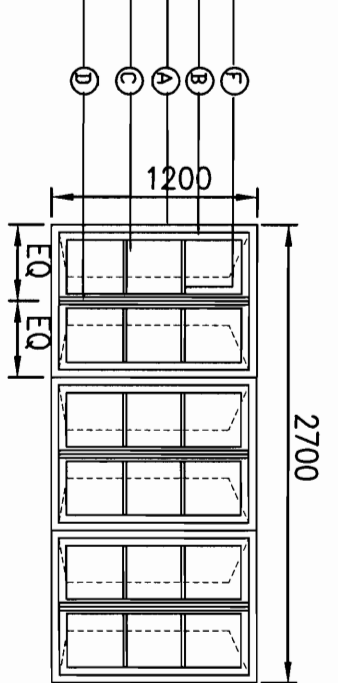
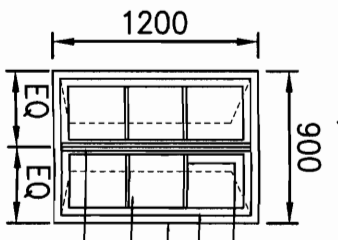


RELEASED FOR CONSTRUCTION
FOR
DESTROY EARLIER PRINTS
SIGNED: [Signature] DATE: 15/3/15
Transmission Projects
Engineering Management

RELEASED FOR CONSTRUCTION
FOR SUB-STATION
AT: Agara
(UPPTCL)
(Designation)
[Signature]
[Date]
Power Grid Corp. of India Ltd.
Engineering (Civil), Gurgaon, Haryana



S. NO	MARKED	DESCRIPTION	SIZE	REMARKS
01	A	DUTER FRAME	F7D SECTION	AS PER I.S. 7452-1982
02	B	INNER SHUTTER FRAME	F7D SECTION	AS PER I.S. 7452-1982
03	C	PLAIN GLASS	4.0 MM THK.	----
04	D	CENTRAL MULLION	F4B SECTION	AS PER I.S. 7452-1982
05	E	VERTICAL GLAZING BAR	F4B SECTION	AS PER I.S. 7452-1982
06	F	HORIZONTAL GLAZING BAR	T2 SECTION	AS PER I.S. 7452-1982



LEGEND:-

No.	Revision/Issue	Date
1.	R0	02/01/12

POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

PROJECT:
STANDARD FIRE FIGHTING PUMP HOUSE & WATER TANK.

TITLE: DETAILS OF DOORS, WINDOWS & VENTILATORS (STEEL) FOR FIRE FIGHTING PUMP HOUSE & WATER TANK

DRAWING NO.:
C/ENGG/STD/FFPH-5

SCALE:
N.T.S.

Sheet:
1

RELEASED FOR TENDER/CONSTRUCTION

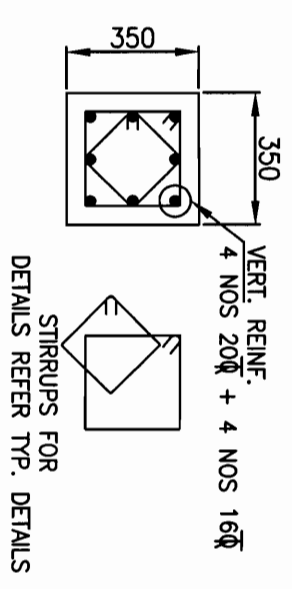
FOR NOTES REFER DRG. NO.:-
C/ENGG/STD/FFPH/15

APPROVED BY E.D. ENGG-S/Strn & T/L VIDE NOTE SHEET
Ref:- C/ENGG/CIVIL/STD/FDN/M25 Dated 09/02/2012

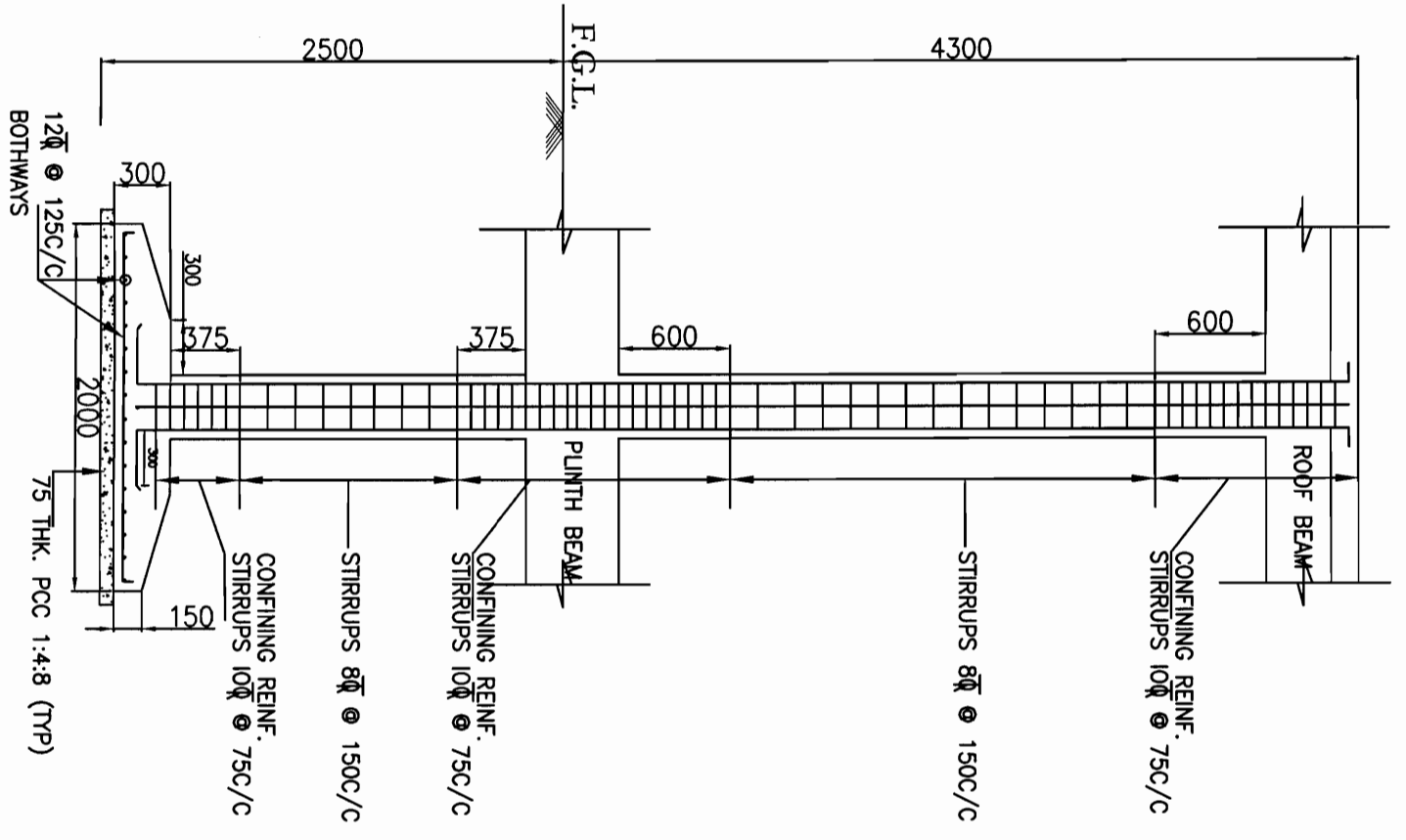
PREP.	REVD.	REVD.	REVD.	APPD.	DATE

BHEL RELEASED

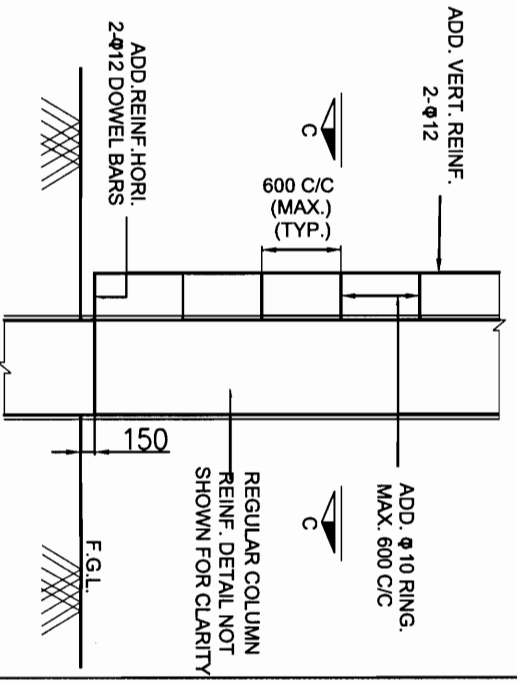
FOR CONSTRUCTION
DESTROY EARLIER PRINTS
 SIGNED *[Signature]* DATE 16/3/15
 Transmission Projects
 Engineering Management



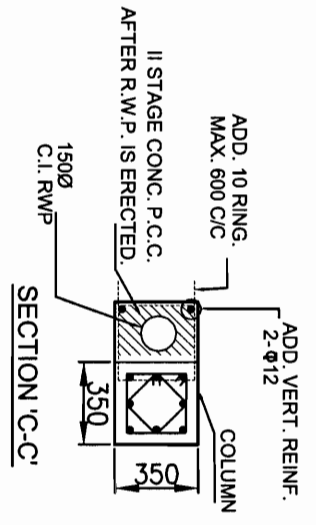
TYP. REINF. DETAILS FOR COLUMN TYPE - C1 & C2



TYP. DETAILS FOR FOOTING F1 & F2 & COLUMN TYPE - C1 & C2

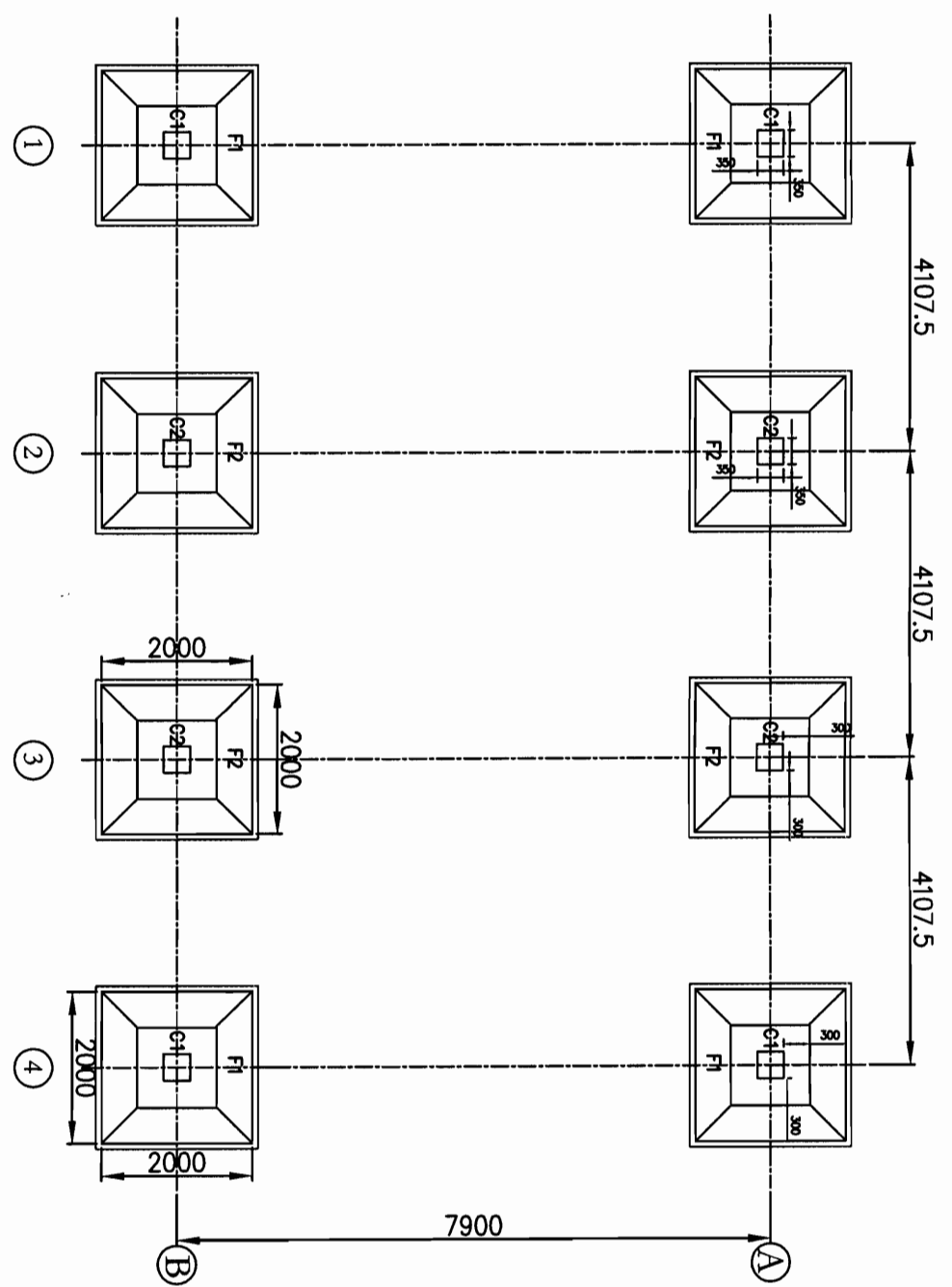


TYPICAL DETAIL OF DOWEL BARS R.W.P. CONCEALMENT IN P.C.C.



SECTION 'C-C'

APPROVED BY E.ENGG-S/Str & T/L WIDE NOTE SHEET
 Ref:- C/ENGG/CIVIL/STD/FDN/M25 Dated 09/02/2012



FOUNDATION LAYOUT FOR FFPH

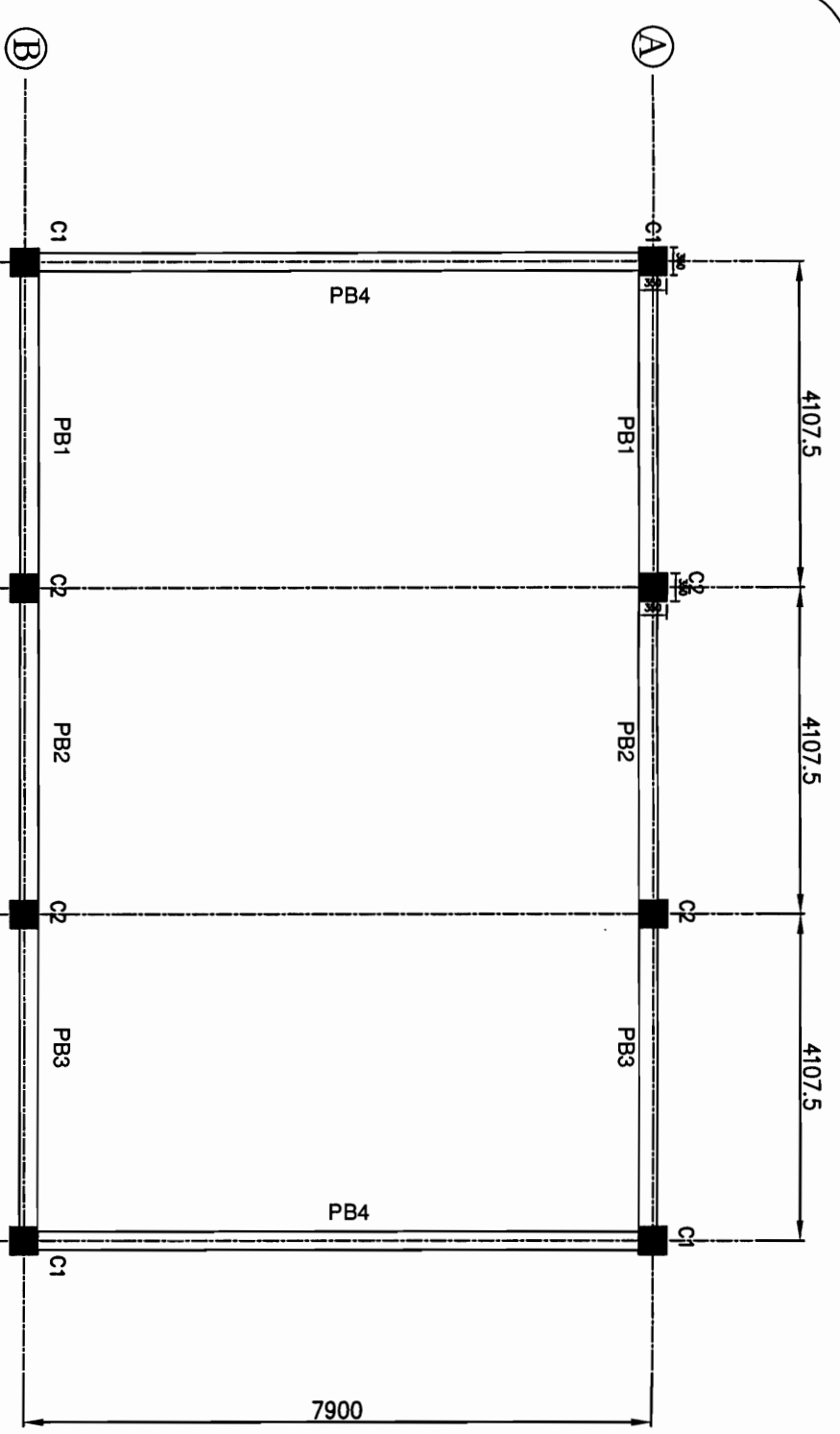
RELEASED FOR CONSTRUCTION
 FOR SUB-STATION
 AT...A.C.R.A.
 (UPPTCL)
 (Signature)
 (Designation) AOE
 (Date) 29/3/15
 Power Grid Corpn. of India Ltd.
 Engineering (Civil), Gurgaon, Haryana

RELEASED FOR TENDER/CONSTRUCTION

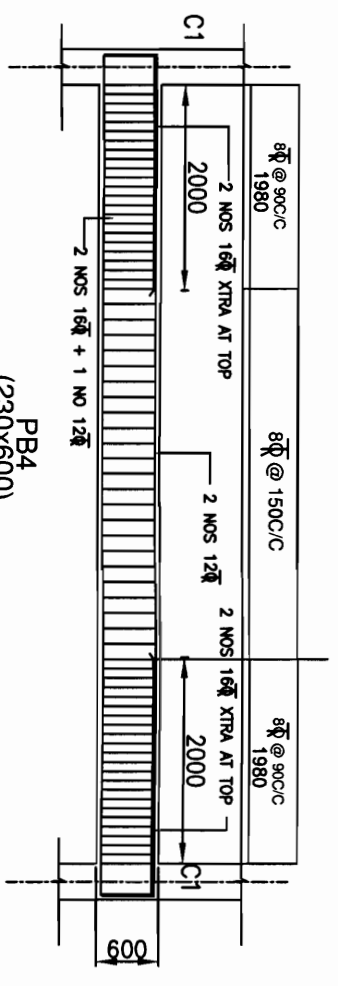
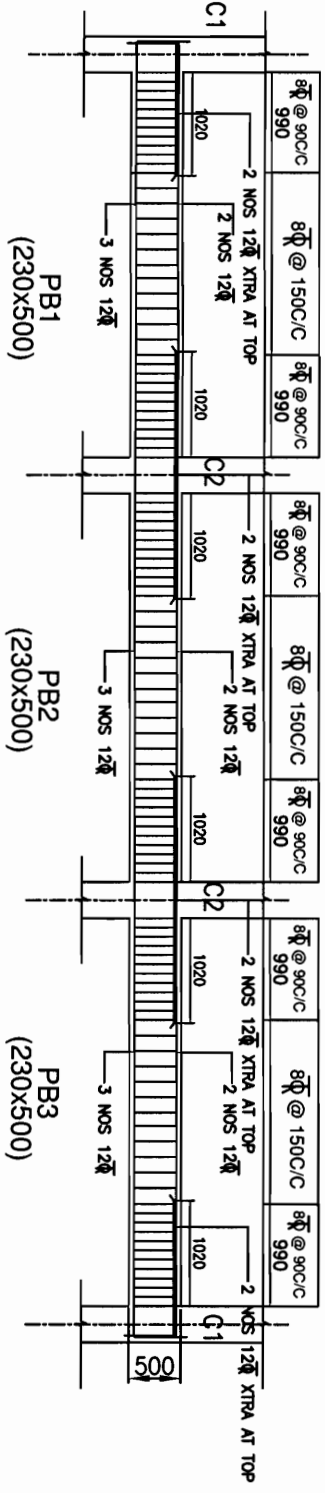
FOR NOTES REFER DRG. NO.:-
 C/ENGG/STD/FFPH/15

PREP.	REVD.	REVD.	REVD.	REVD.	APPD.	DATE

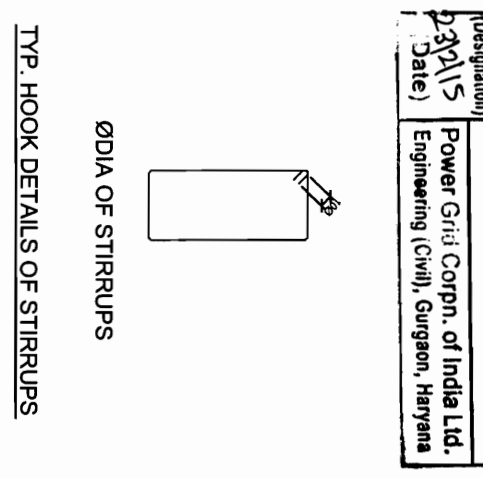
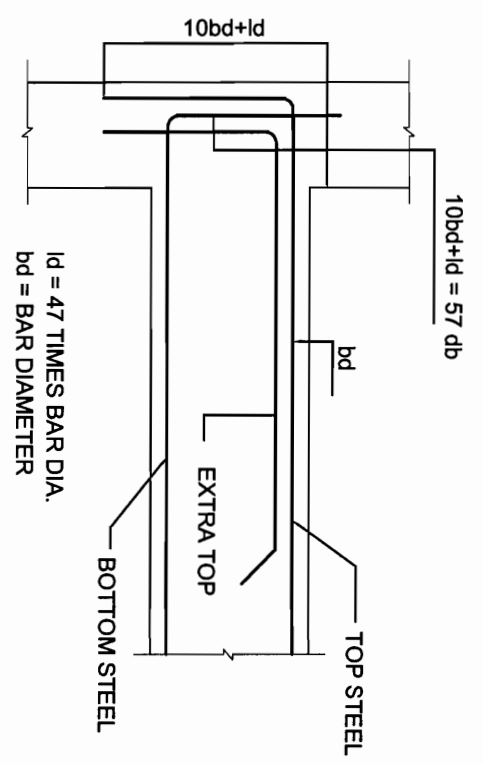
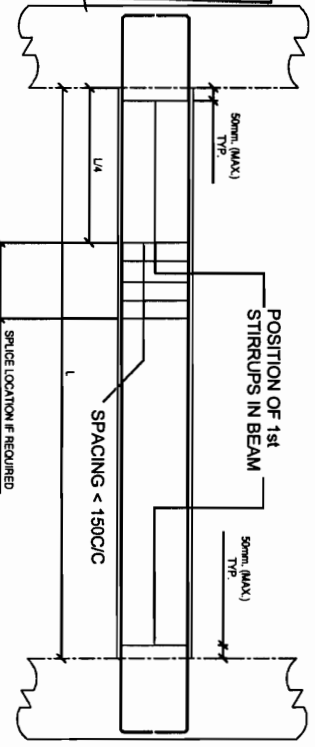
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SCALE		N.T.S.	
PROJECT:		STANDARD FIRE FIGHTING PUMP HOUSE & WATER TANK.	
TITLE:		FOUNDATION LAYOUT & DETAILS FOR FIGHTING PUMP HOUSE	
No.	Revision/Issue	Date	
1.	R0	02/01/12	
POWER GRID CORPORATION OF INDIA LIMITED (A Government of India Enterprise)			



PLINTH LEVEL LAYOUT FOR FFPH



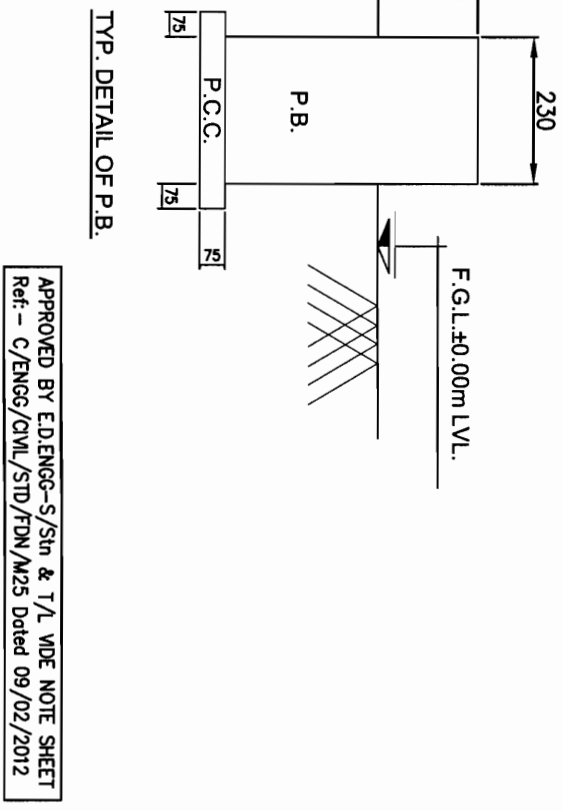
BHEL
RELEASED FOR CONSTRUCTION
DESTROY EARLIER PRINTS
SIGNED: [Signature] DATE: 16/3/15
Transmission Projects
Engineering Management



RELEASED FOR TENDER/CONSTRUCTION

FOR NOTES REFER DRG. NO.:-
C/ENGG/STD/FFPH/15

PREP.	REVD.	REVD.	REVD.	REVD.	APPD.	DATE



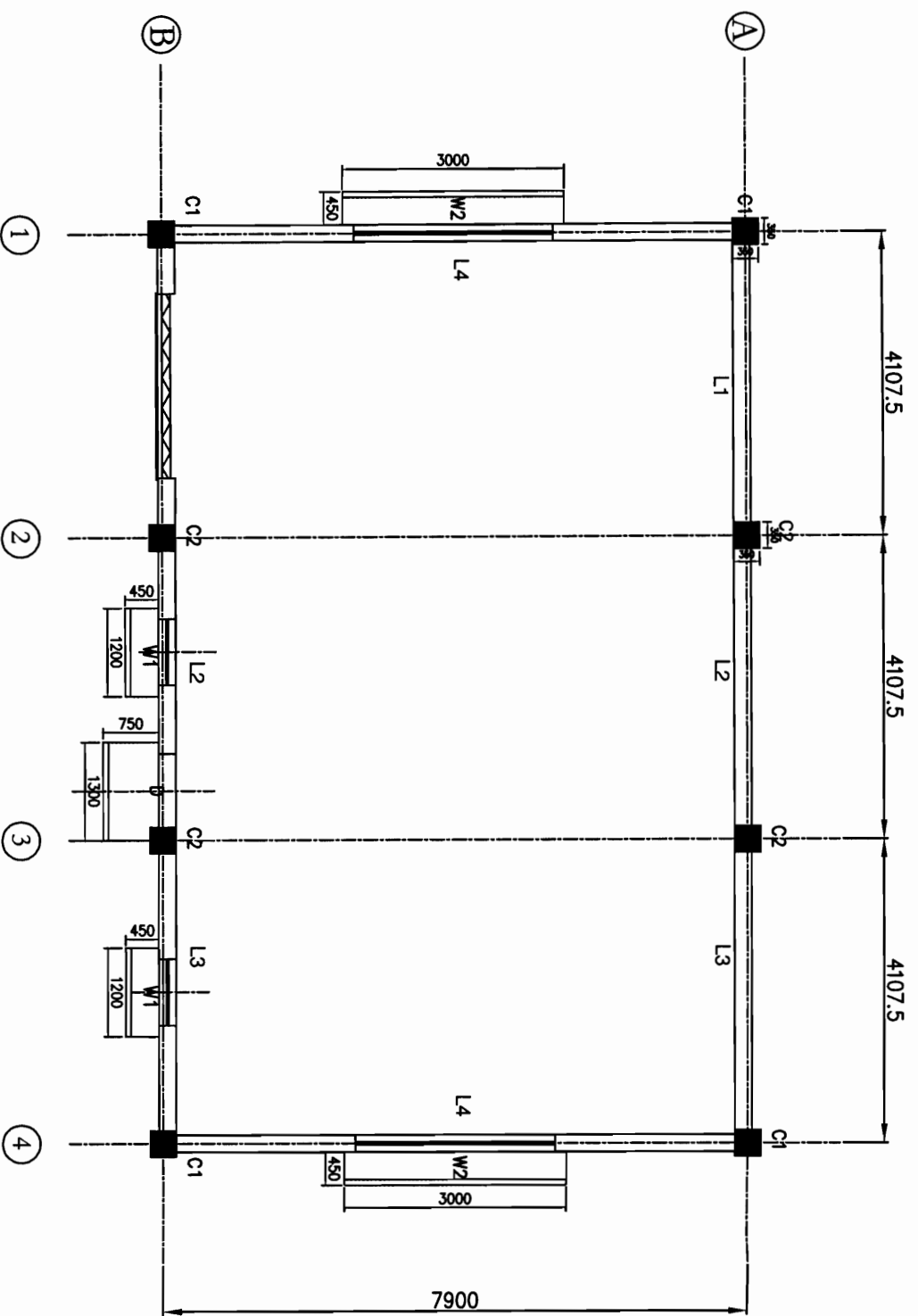
PROJECT: STANDARD FIRE FIGHTING PUMP HOUSE & WATER TANK.		<p>POWER GRID CORPORATION OF INDIA LIMITED (A Government of India Enterprise)</p>						
TITLE: PLINTH LEVEL LAYOUT & DETAILS OF PLINTH BEAM FOR FFPH								
DRAWING NO: C/ENGG/STD/FFPH-7		<table border="1"> <tr> <th>No.</th> <th>Revision/Issue</th> <th>Date</th> </tr> <tr> <td>1.</td> <td>R0</td> <td>02/01/12</td> </tr> </table>	No.	Revision/Issue	Date	1.	R0	02/01/12
No.	Revision/Issue	Date						
1.	R0	02/01/12						
SCALE N.T.S.	SCALE Sheet	1						

RELEASED FOR CONSTRUCTION

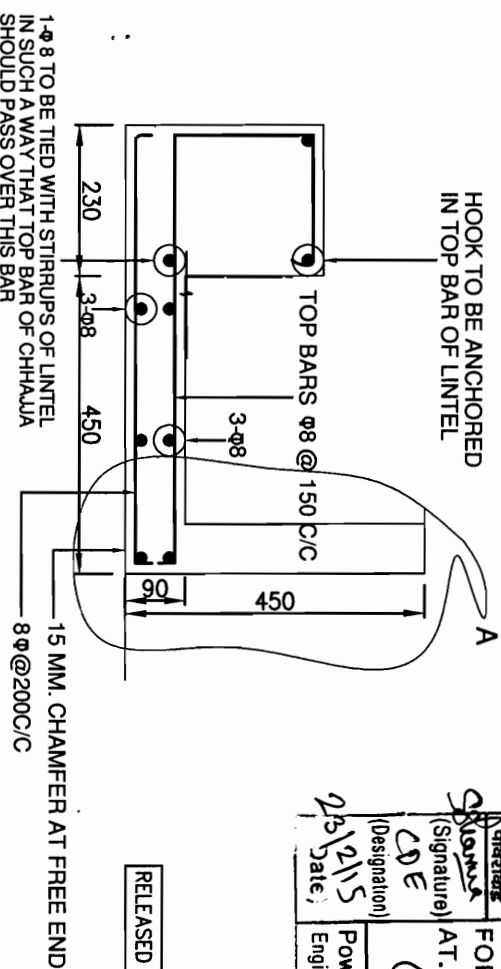
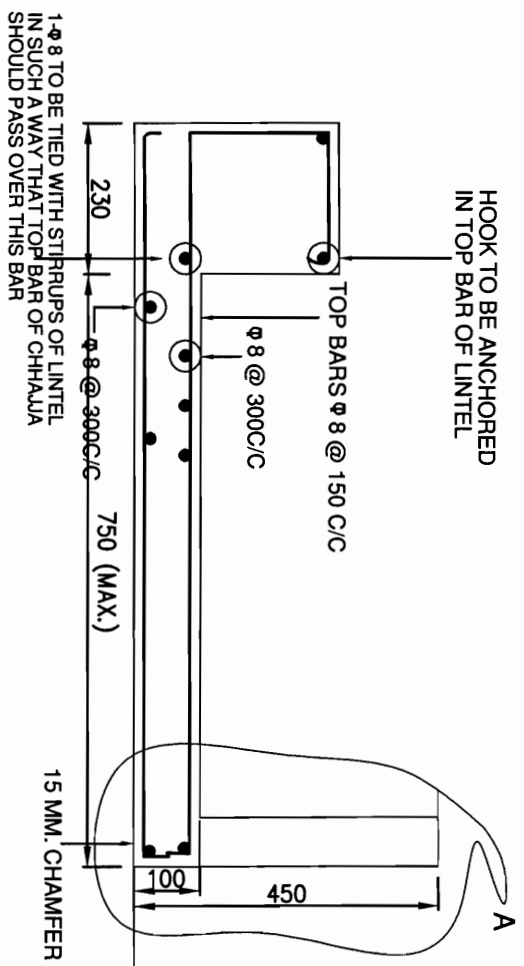
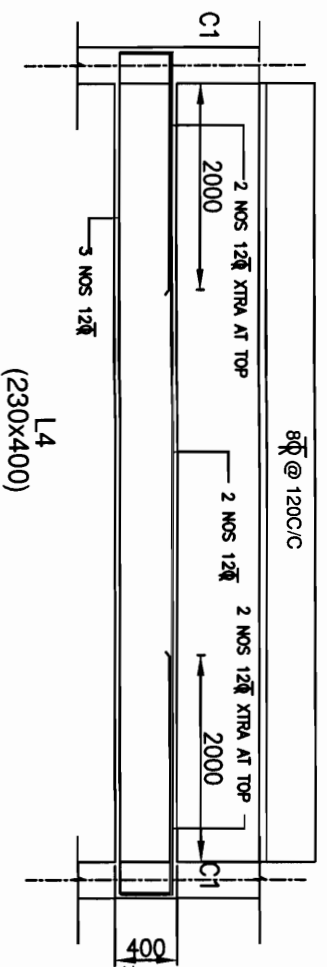
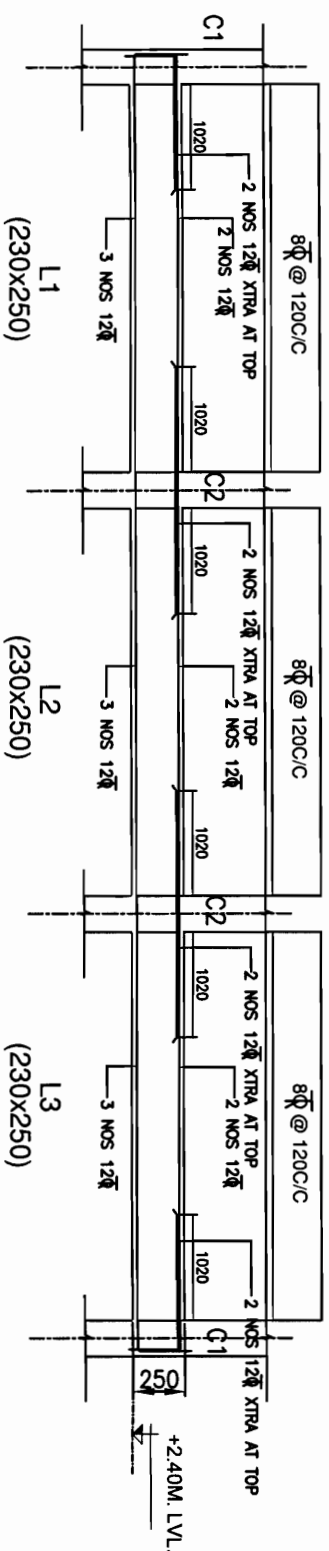
FOR SUB-STATION
AT: Ag. RA.....
(UPPTCL)

(Designation)
[Signature]
Date) 23/1/15

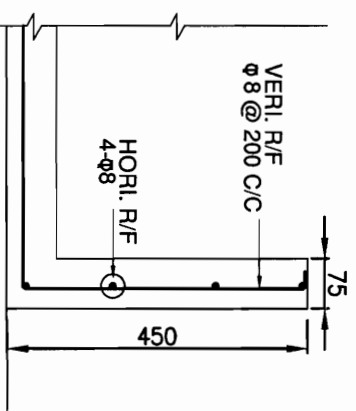
Power Grid Corpn. of India Ltd.
Engineering (Civil), Gurgaon, Haryana



LINTEL LEVEL LAYOUT FOR FFPH



TYPICAL CHHAJUA DETAIL UP TO 450mm PROJECTION



DETAIL A

RELEASED FOR CONSTRUCTION
FOR SUB-STATION
 AT **AGRA**
 (VPPTCL)
 Power Grid Corp. of India Ltd.
 Engineering (Civil), Gurgaon, Haryana
 25/01/15
 (Signature)
 (Designation)
 Date,

RELEASED FOR TENDER/CONSTRUCTION

FOR NOTES REFER DRG. NO.: -
 C/ENGG/STD/FFPH/15

No.	Revision/Issue	Date
1.	R0	02/01/12

PROJECT:
 STANDARD FIRE FIGHTING PUMP
 HOUSE & WATER TANK.

POWER GRID CORPORATION
 OF INDIA LIMITED
 (A Government of India Enterprise)



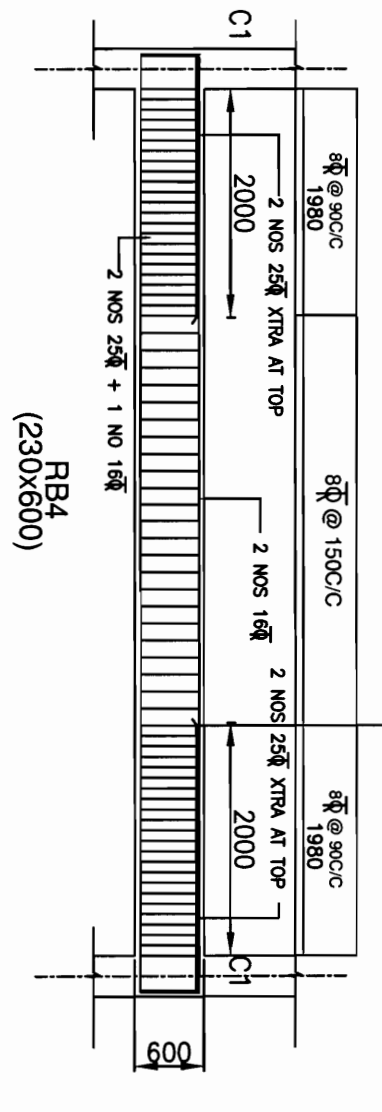
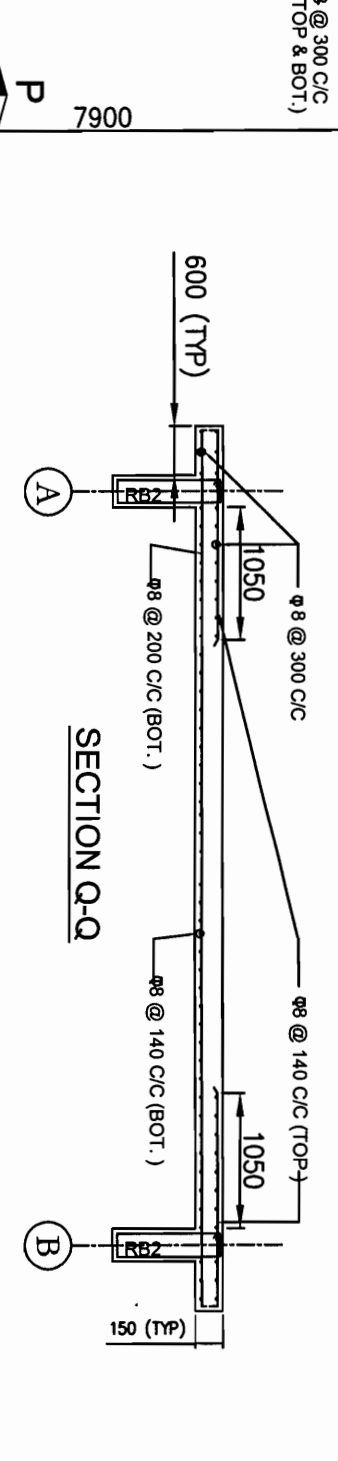
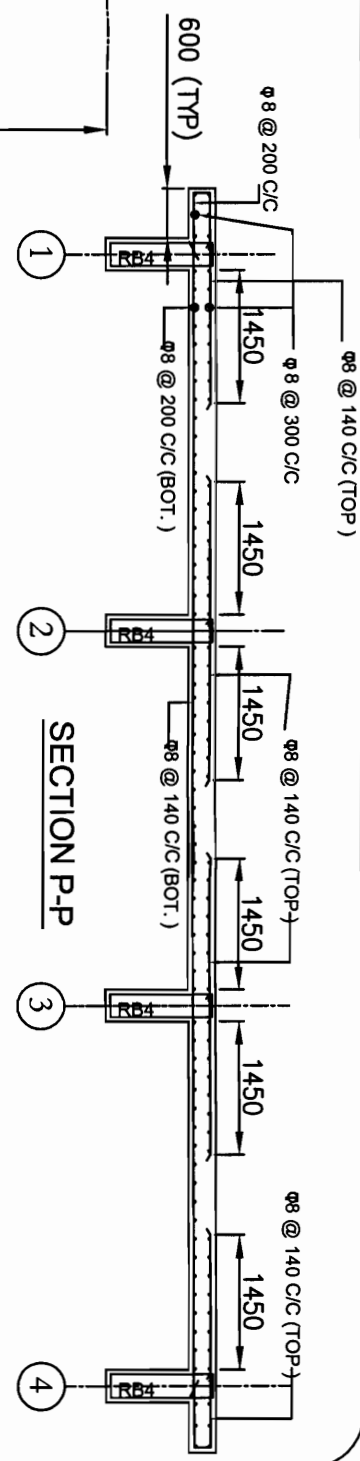
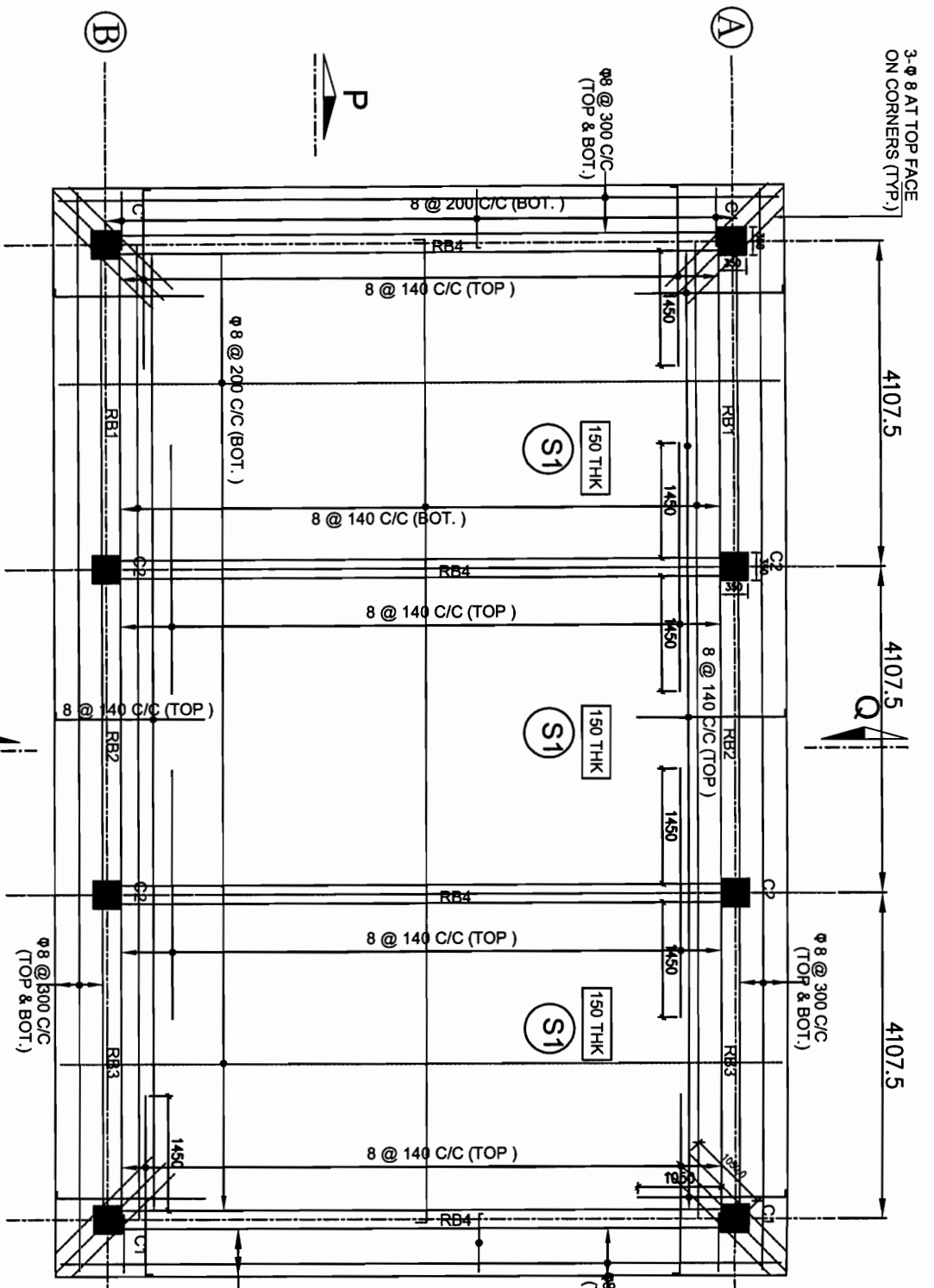
TITLE:
 LINTEL LEVEL LAYOUT & DETAILS
 OF LINTEL BEAMS FOR FFPH

DRAWING NO.:
 C/ENGG/STD/FFPH-8

SCALE: N.T.S. Sheet 1

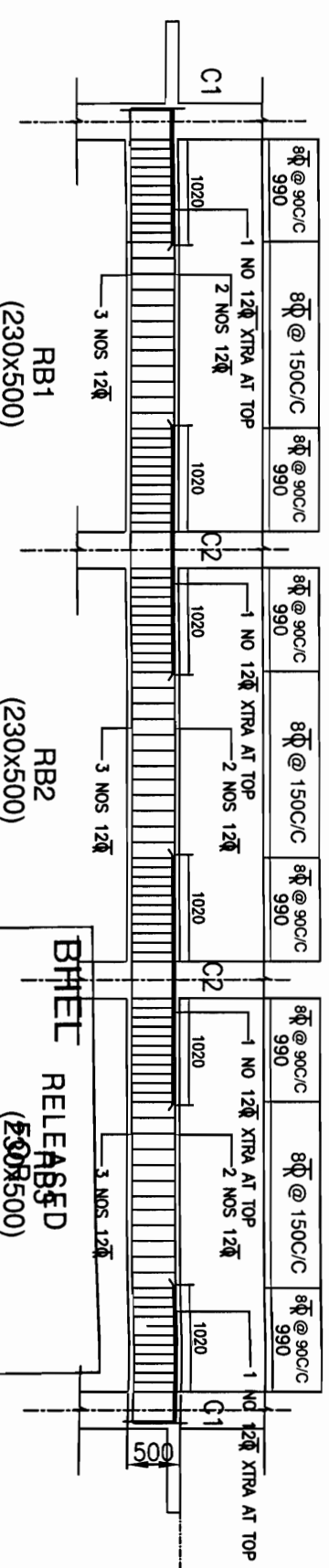
APPROVED BY E.D.ENGG-S/Sm & T/L VDE NOTE SHEET
 Ref: C/ENGG/STD/FFPH/15 Dated: 09/02/2012
BHEL RELEASED FOR CONSTRUCTION
 DESTROY EARLIER PRINTS
 SIGNED *BW* DATE 16/3/15
 Transmission Projects
 Engineering Management

PREP.	REVD.	REVD.	REVD.	REVD.	APPD.	DATE



ROOF SLAB LEVEL LAYOUT FOR FFPH

NOTE: - DISTRIBUTION REINFORCEMENT WHENEVER NOT SHOWN SHALL BE TOR 8@300 C/C



RELEASED FOR CONSTRUCTION
FOR SUB-STATION
 AT: **AGRA**
 (UPPTCL)

(Designation) **COE**
 (Signature) *[Signature]*
 (Date) **29/01/15**

Power Grid Corpn. of India Ltd.
 Engineering (Civil), Gurgaon, Haryana

RELEASED FOR TENDER/CONSTRUCTION

FOR NOTES REFER DRG. NO.:-
 C/ENGG/STD/FFPH/15

BHEL RELEASED
 (230x500)
CONSTRUCTION
 DESTROY EARLIER PRINTS
 SIGNED *[Signature]* DATE **16/3/15**
 Transmission Projects
 Engineering Management

APPROVED BY E.D. ENGG-S/Sin & T/L WIDE NOTE SHEET
 Ref:- C/ENGG/CIVIL/STD/FDN/M25 Dated 09/02/2012

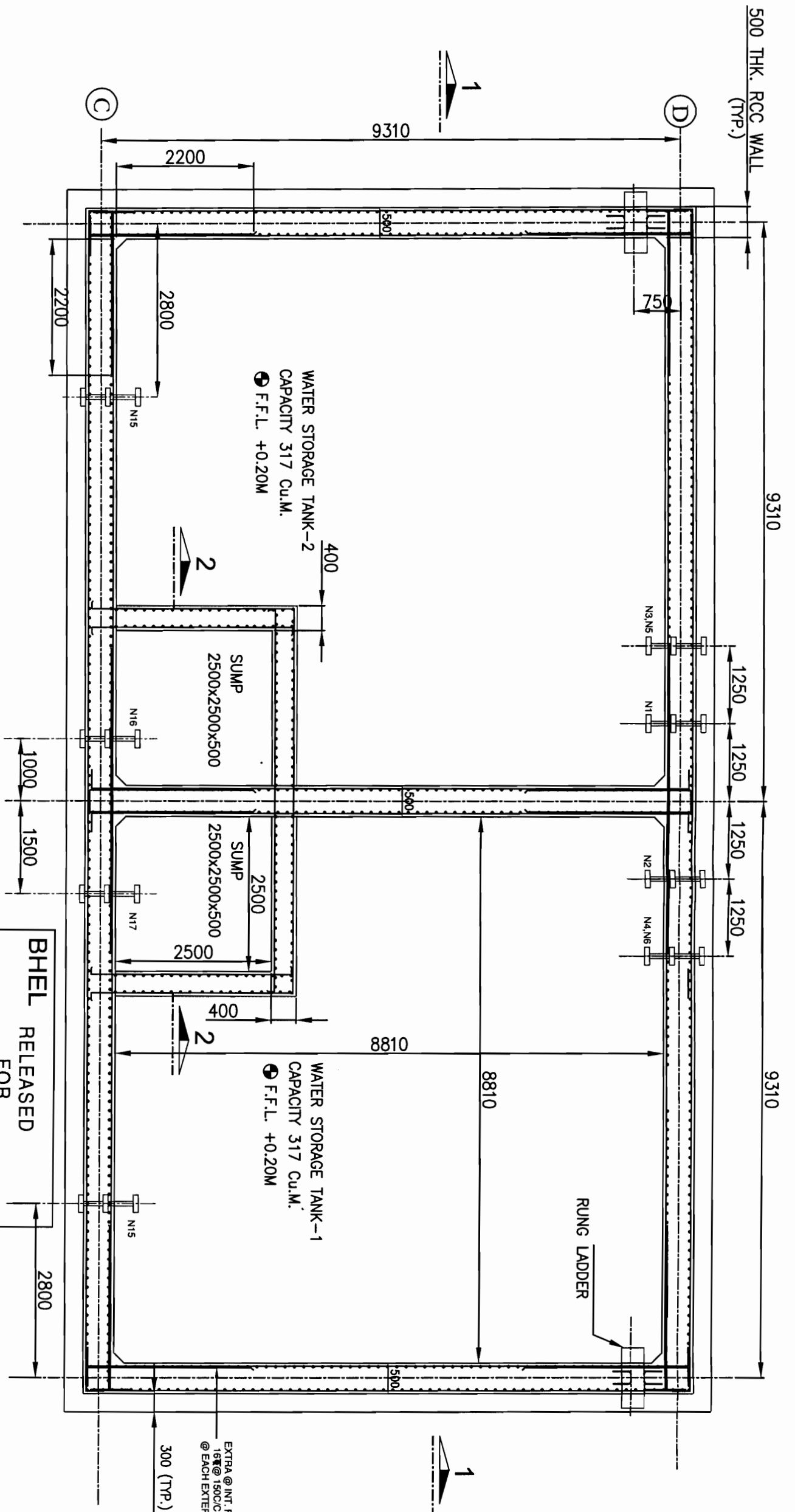
No.	Revision/Issue	Date
1.	R0	02/01/12

PROJECT: STANDARD FIRE FIGHTING PUMP HOUSE & WATER TANK.

TITLE: ROOF LEVEL LAYOUT & DETAILS OF BEAMS & SLAB FOR FFPH


DRAWING NO: C/ENGG/STD/FFPH-9

SCALE: N.T.S. Sheet 1



ALL INSERTS, NOZZLES, PIPE SLEEVES SHALL BE PLACED IN POSITION AS PER F.F. REQUIREMENT BEFORE CONCRETING.

SR. NO.	NOZZEL NO.	SIZE	DISCRPTION	BOTTOM OF PIPE ELEVATION LEVEL
1	N1, N2	100 NB	WATER INLET	EL. +4.30
2	N3, N4	50 NB	DRAIN	EL. +0.25
3	N5, N6	80 NB	OVER FLOW	EL. +4.30
4	N7, N8	80 NB	LVL. SWITCH	TOP
5	N9, N10	25 NB	LVL. INDICATOR	TOP
6	N11, N12	25 NB	LVL. INDICATOR	TOP
7	N13, N14	25 NB	LVL. INDICATOR	TOP
8	N15	100 NB	RECIRCULATION	EL. +4.45
9	N16	300 NB	PUMP SUCTION	EL. +0.919
10	N17	300 NB	PUMP SUCTION	EL. +0.919


RELEASED FOR CONSTRUCTION
 FOR SUB-STATION
 AT: **AGADA**
 (UPPTCL)
 (Signature) _____
 (Designation) _____
 (Date) 03/12/15
 Power Grid Corpn. of India Ltd.
 Engineering (Civil), Gurgaon, Haryana

BHEL RELEASED FOR CONSTRUCTION
 DESTROY EARLIER PRINTS
 SIGNED *[Signature]* DATE 16/3/15
 Transmission Projects
 Engineering Management

APPROVED BY E.D.ENG-G/S/Std & T/L WIDE NOTE SHEET
 Ref:- C/ENGG/CIVIL/STD/FDN/M25 Dated 09/02/2012

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PREP.	REVD.	REVD.	REVD.	REVD.	APPD.	DATE

No.	Revision/Issue	Date
1.	R0	02/01/12


POWER GRID CORPORATION OF INDIA LIMITED
 (A Government of India Enterprise)

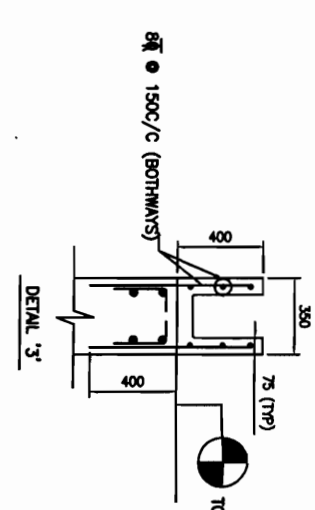
PROJECT:
 STANDARD FIRE FIGHTING PUMP HOUSE & WATER TANK.

TITLE: RCC DETAILS OF GROUND WATER STORAGE TANK FOR FIRE FIGHTING PUMP HOUSE

DRAWING NO.: C/ENGG/STD/FFPH-10

SCALE: N.T.S. Sheet 1

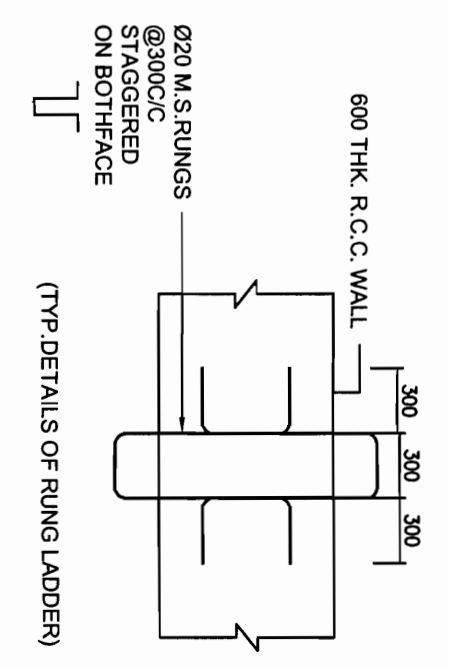
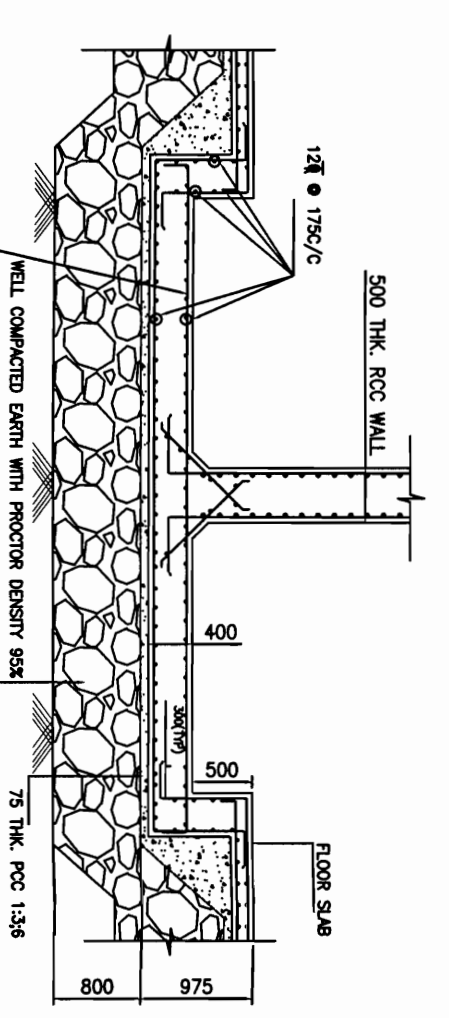
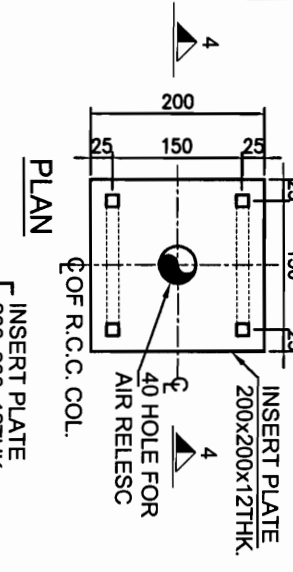
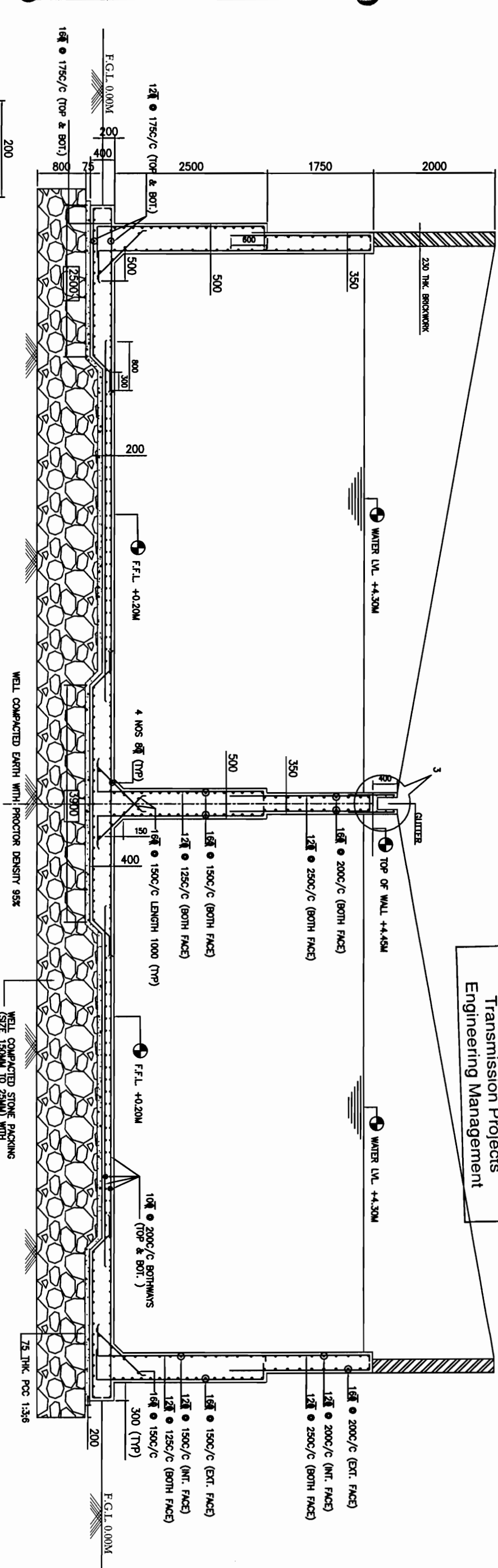

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 Power Grid Corpn. of India Ltd.
 Engineering (Civil), Gurgaon, Haryana
 (Signature) *ADP*
 (Date) 09/02/15



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 SIGNED *ADP* DATE 03/15
 Transmission Projects
 Engineering Management

APPROVED BY E.D.ENG-S/Stn & T/L WIDE NOTE SHEET
 Ref:- C/ENGG/CIVL/STD/FDN/M25 Dated 09/02/2012

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 C/ENGG/STD/FFPH/15



SECTION 4-4

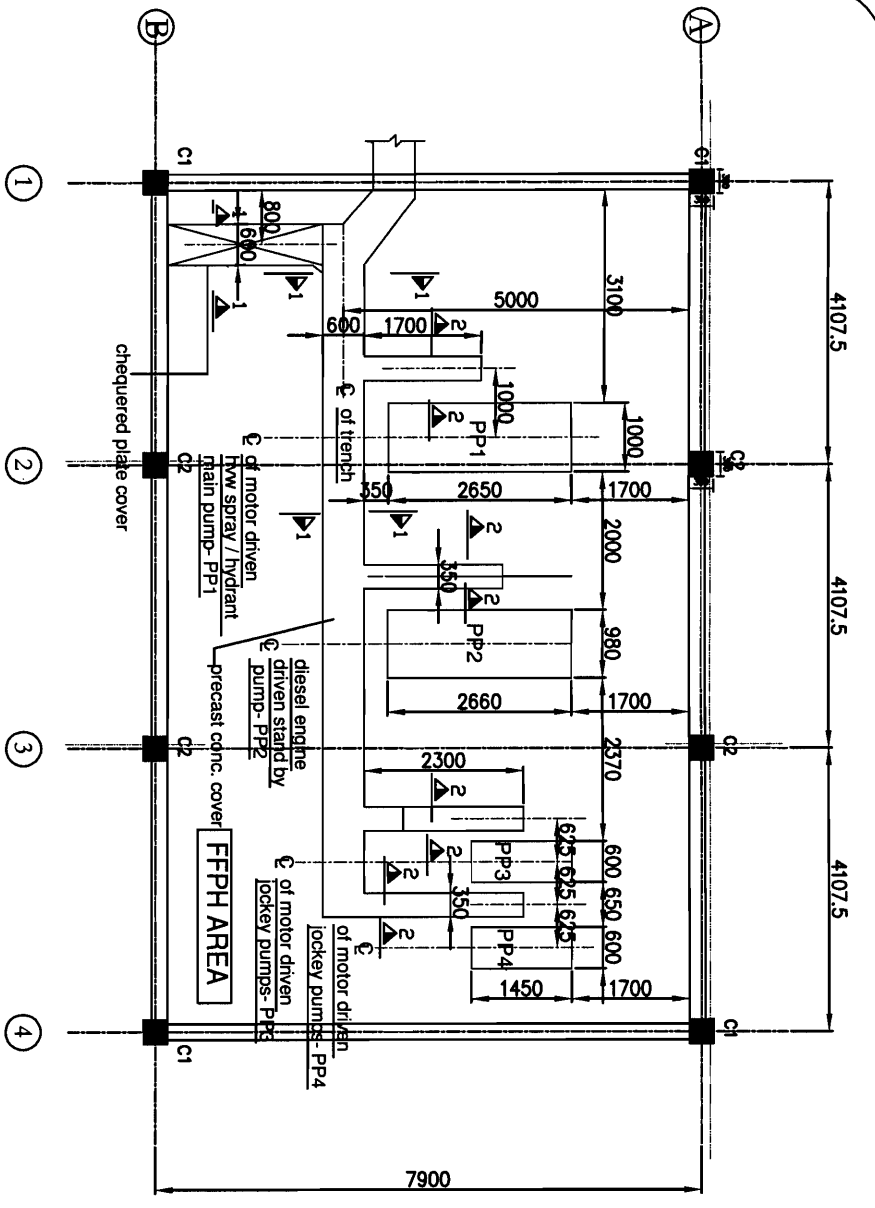
SECTION 2-2

SECTION 1-1

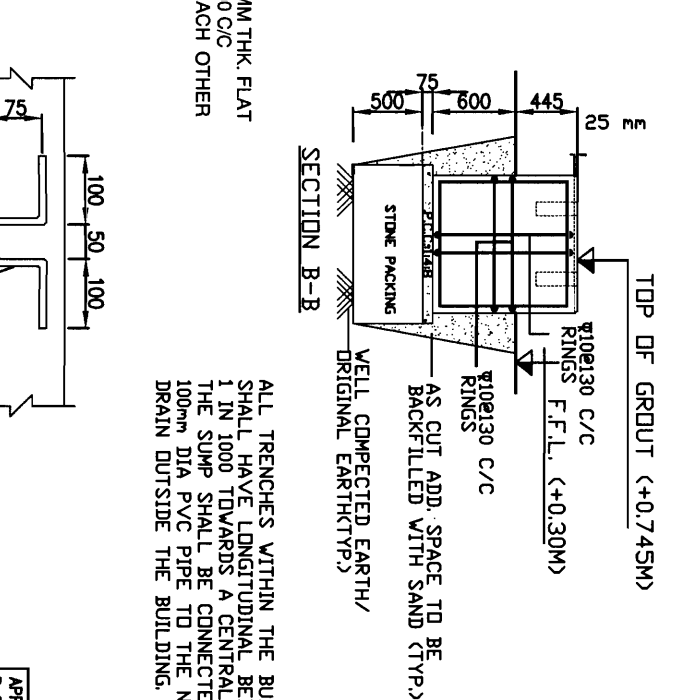
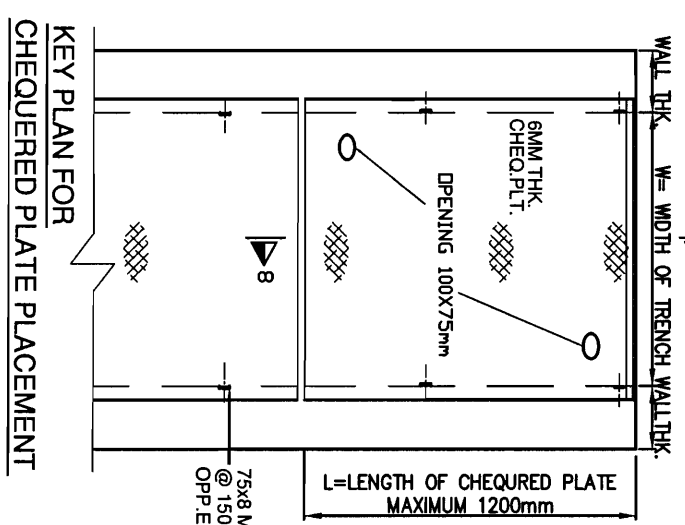
PREP.	REVD.	REVD.	REVD.	REVD.	REVD.	APPD.	DATE

1.	R0	02/01/12
No.	Revision/Issue	Date
PROJECT: STANDARD FIRE FIGHTING PUMP HOUSE & WATER TANK. TITLE: RCC DETAILS OF GROUND WATER STORAGE TANK FOR FIRE FIGHTING PUMP HOUSE		
DRAWING NO.: C/ENGG/STD/FFPH-11		
SCALE	SCALE	Sheet
N.T.S.	1	1

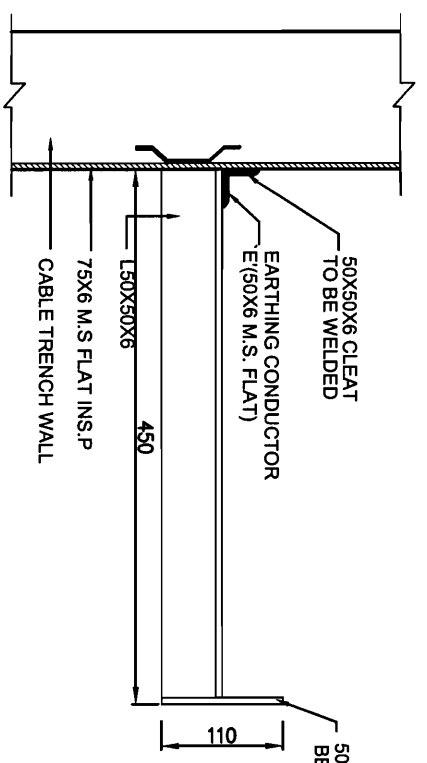
POWER GRID CORPORATION OF INDIA LIMITED
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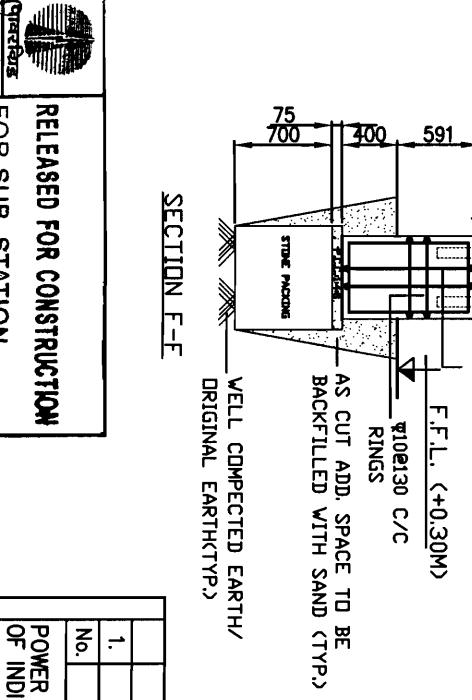
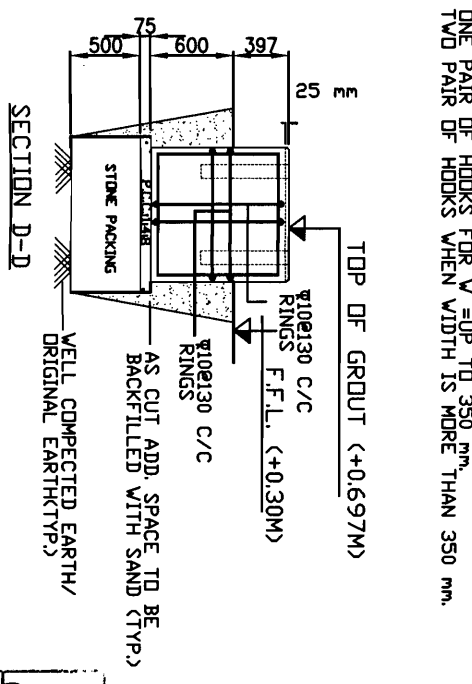
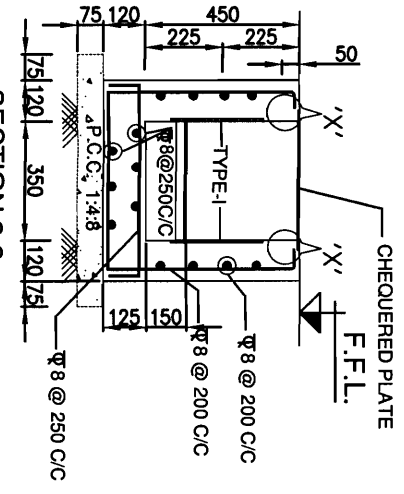
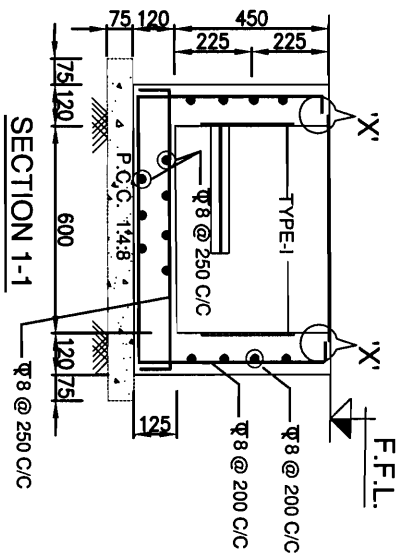
PLINTH LEVEL LAYOUT FOR FFPH



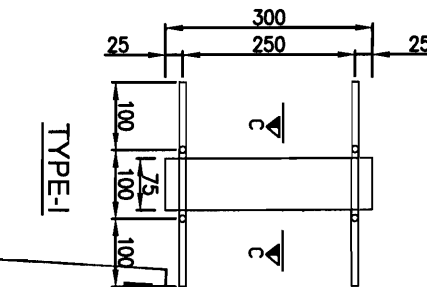
ALL TRENCHES WITHIN THE BUILDING SHALL HAVE LONGITUDINAL BED SLOPE 1 IN 1000 TOWARDS A CENTRAL SUMP. THE SUMP SHALL BE CONNECTED BY A 100mm DIA PVC PIPE TO THE NEAREST DRAIN OUTSIDE THE BUILDING.



TYPICAL CABLE SUPPORT



PROVIDE ONE PAIR OF HOOKS FOR V UP TO 350 mm, TWO PAIR OF HOOKS WHEN WIDTH IS MORE THAN 350 mm.



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Transmission Projects
Engineering Management

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Ref - C/ENG/CIVIL/STD/FDN/A25 Dated 09/02/2012

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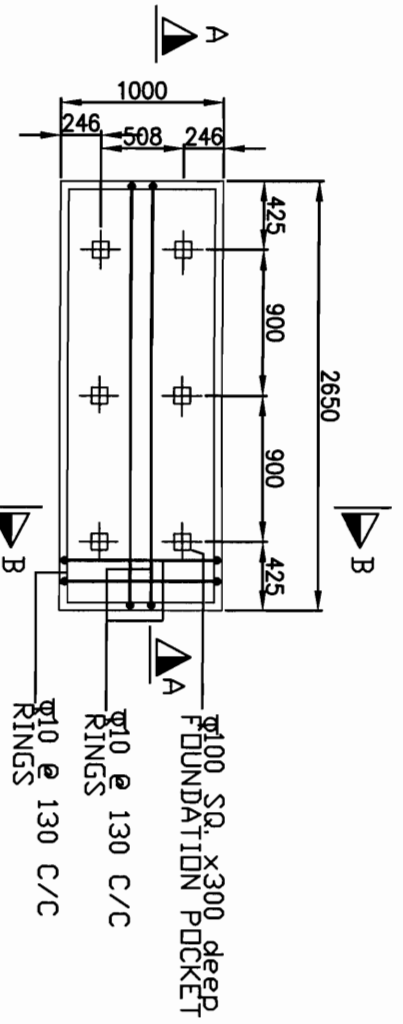
Power Grids Corpn. of India Ltd.
Engineering (Civil), Gurgaon, Haryana

PROJECT: STANDARD FIRE FIGHTING PUMP HOUSE & WATER TANK.
TITLE: DETAILS OF PUMP/MOTOR FOUNDATION AT PLINTH LEVEL FOR FFPH

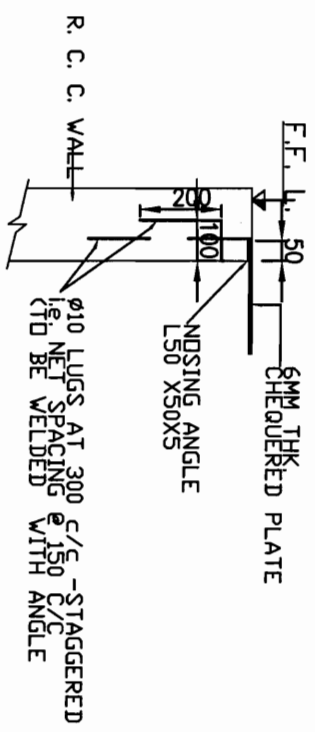
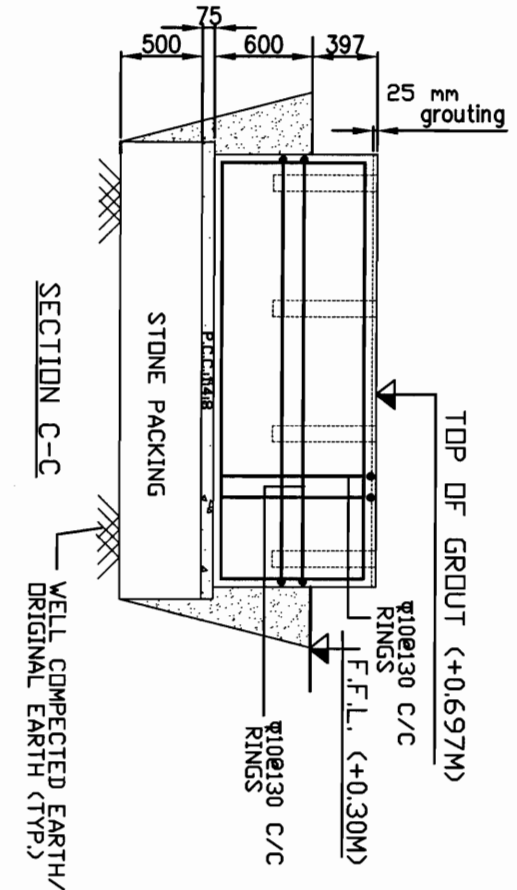
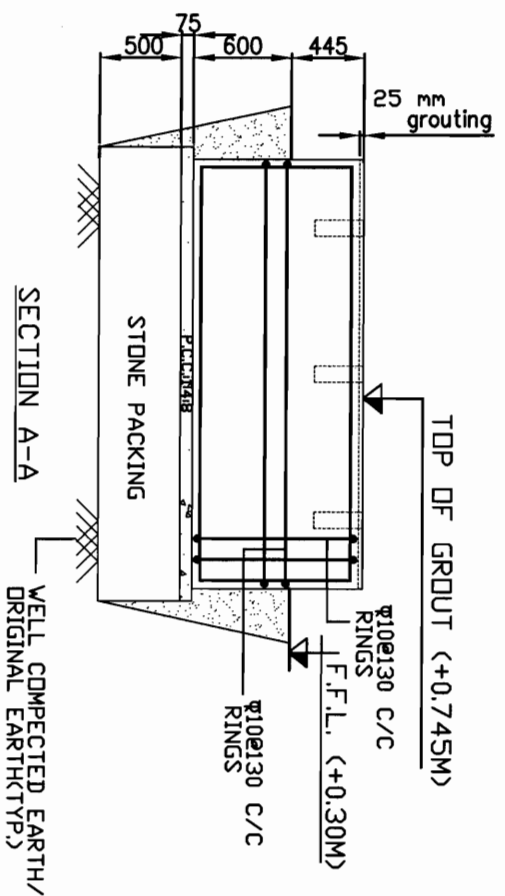
DRAWING NO.: C/ENG/STD/FFPH-13
SCALE: N.T.S.
Sheet: 1

PREP.	REVD.	REVD.	REVD.	REVD.	APPD.	DATE

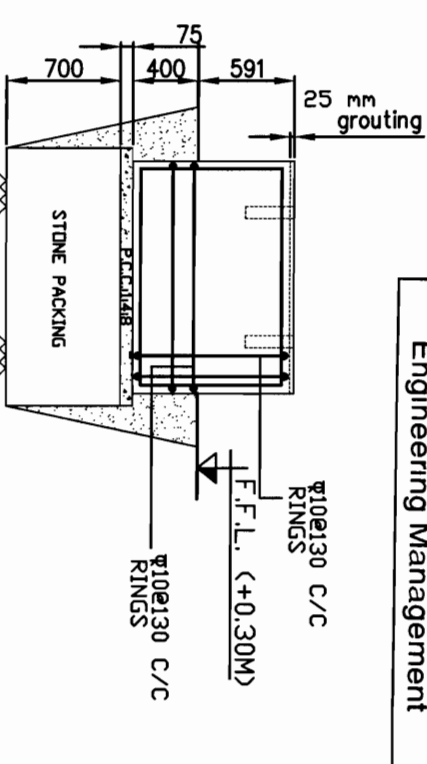
APPROVED BY ED. ENGG-S/SH & T/L WIDE NOTE SHEET
 Ref - C/ENGG/CIVIL/STD/FDN/M25 Dated 09/02/2012



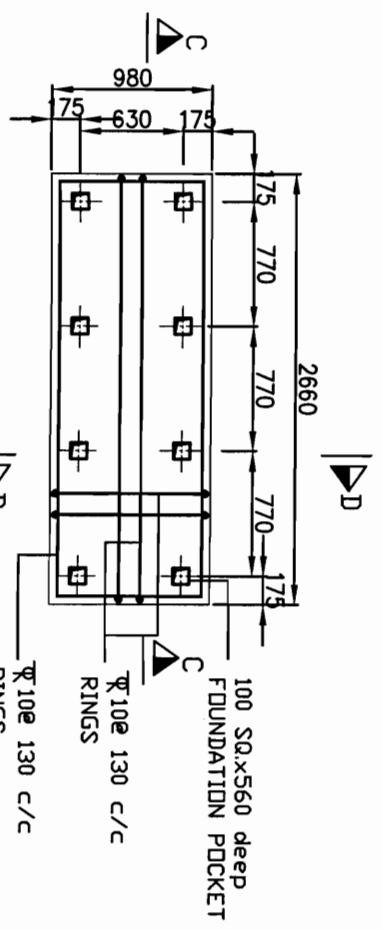
PP1-MOTOR DRIVEN HVW SPRAY/
 HYDRANT MAIN PUMP



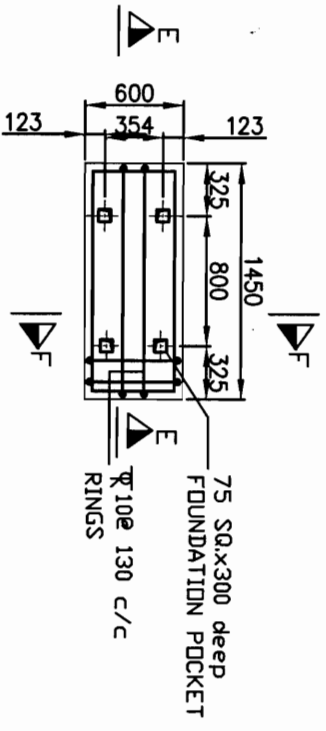
DETAIL AT 'X'
 SCALE - 1:120



SECTION E-E
 WELL COMPECTED EARTH/
 ORIGINAL EARTH (TYP.)



PP2- DIESEL ENGINE
 DRIVEN STAND BY PUMP



PP3 & PP4 MOTOR
 DRIVEN JOCKEY PUMPS

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 FOR SUB-STATION
 AT AGRA
 (UPPTCL)

(Signature)
 (Designation)
 CDE
 02/01/12
 (Date)

Power Grid Corp. of India Ltd.
 Engineering (Civil), Gurgaon, Haryana

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PREP.	REVD.	REVD.	REVD.	REVD.	APPD.	DATE

DRAWING NO.:		C/ENGG/STD/FFPH-14	
SCALE		N.T.S.	
Sheet		1	
No.	Revision/Issue	Date	
1.	RO	02/01/12	

PROJECT: STANDARD FIRE FIGHTING PUMP HOUSE & WATER TANK.


TITLE: DETAILS OF PUMP/MOTOR FOUNDATION AT PLINTH LEVEL FOR FFPH

POWER GRID CORPORATION OF INDIA LIMITED
 (A Government of India Enterprise)

GENERAL NOTES:-

- (1) ALL DIMENSIONS ARE IN MM AND LEVEL IN METERS.
- (2) DO NOT SCALE THE DRG. FOLLOW WRITTEN DIMENSIONS ONLY
- (3) THE GRADE OF CONCRETE FOR ALL RCC WORK SHALL BE M25
- (4) ALL LEAN CONCRETE SHALL BE 1:4.8 (1 CEMENT ,4 COARSE SAND
8 GRADED STONE AGGREGATE 40 MM NOMINAL SIZE)
- (5) REEINFORCEMENT USED SHALL BE TMT BARS OF GRADE Fe 500 CONFORMING TO IS 1786
- (6) CLEAR COVER TO REINFORCEMENT SHALL BE AS UNDER
 - * BOTTOM AND SIDES OF FOUNDATION - 50 MM
 - * FOR COLUMN - 40 MM
 - * FOR BEAMS - 25 MM
 - * FOR LINTELS, CHAJJAS & SLABS - 20 MM
- 7 PROVIDE CLEAR COVER TO REINFORCEMENT FOR WATER TANK AS GIVEN BELOW..
25 mm FOR FACE IN CONTACT WITH WATER
50 mm FOR FACE IN CONTACT WITH SOIL
- 8 ALL LAPS SHALL BE STAGGERED AND LAP LENGTH SHALL BE 50 TIMES THE BAR DIA.
- 9 CONSTRUCTION JOINT SHOWN MAY BE SHIFTED IN CONSULTATION WITH SITE INCHARGE
TO SUIT CONCRETING PROGRAMME/FORM WORK.
- 10 WATER NOT TO BE FILLED IN TANK UNTILL TOP LIFT HAS BEEN CAST & CURED
- 11 INTEGRAL WATER PROOFING COMPOUND SHALL BE ADDED WHILE CONCRETING
AS PER Manufacturer's RECOMENDATIONS
- 12 ALL INSERTS, NOZZLES, PIPE SLEEVES ETC. SHOWN IN DRG. ARE INDICATIVE ONLY. THESE SHALL
BE PLACED IN POSITION BEFORE CONCRETING ASPER FIREFIGHTING REQUIREMENTS.
- 13 DIMENSIONS OF EQUIPMENT FOUNDATIONS ARE INDICATIVE AND
SHALL BE ASPER REQUIREMENTS OF MANUFACTURE.
- 14 PURLINS SHALL BE MANUFACTURED AFTER EXACT MEASUREMENT AT SITE.
- 15 COLOUR SCHEME MATCHING WITH CR BUILDNG SHALL BE DECIDED AT SITE
- 16 ALL EXTERNAL WALLS ARE 230 THICK
- 17 WATER PROOFING SHALL BE DONE AS PER SPECIFICATION
- 18 ALL EXTERNAL SURFACES SHALL HAVE 18 MM THK CEMENT PLASTER AS PER SPECIFICATION
- 19 ALL INTERNAL SURFACES SHALL HAVE 12 MM THK CEMENT PLASTER ON SMOOTH SURFACE OF BRICKWALL
& 15mm THK. CEMENT PLASTER ON ROUGH SIDE OF BRICKWALL AS PER SPECIFICATION
- 20 CEILINGS SHALL HAVE 6MM THK CEMENT PLASTER AS PER SPECIFICATIONUN .
- 21 OUTSIDE AND INSIDE SURFACES OF FIRE WATER TANK SHALL BE UNPLASTERED AND PROVIDED WITH A
NEAT COAT OF CEMENT WASH
- 22 FOUNDATION HAS BEEN DESIGNED FOR A BEARING CAPACITY OF 9.0 MT/SQM
- 23 P.V.C. WATER STOPPER SHALL BE PROVIDED AT ALL CONSTRUCTION JOINT OF WATER STORAGE TANKS
- 24 IF EXPANSIVE SOIL IS MET AT FOUNGING LEVEL, NECESSARY TREATMENT OF SOIL SHALL BE DONE AS
PER RECOMMENDATIONS OF SOIL REPORT BEFORE PLACING THE FOUNDATION.


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Power Grid Corp.n. of India Ltd.
Engineering (Civil), Gurgaon, Haryana

APPROVED BY E.D.ENGG-S/Stn & T/L VIDE NOTE SHEET
Ref: - C/ENGG/CIVIL/STD/FDN/M25 Dated 09/02/2012

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1.	R0	02/01/12
No.	Revision/Issue	Date
POWER GRID CORPORATION OF INDIA LIMITED (A Government of India Enterprise) 		
PROJECT: STANDARD FIRE FIGHTING PUMP HOUSE & WATER TANK.		
TITLE: GENERAL NOTES FOR FIRE FIGHTING PUMP HOUSE & WATER TANK		
DRAWING NO: C/ENGG/STD/FFPH-15		
SCALE	N.T.S.	Sheet 1