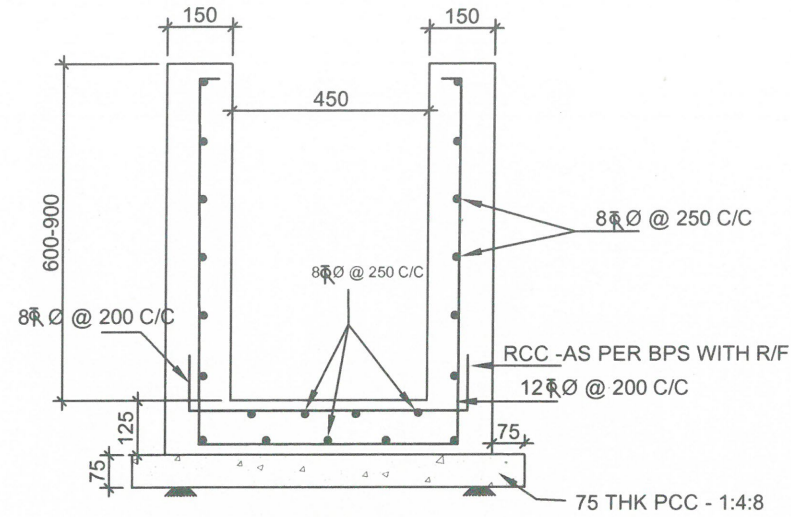
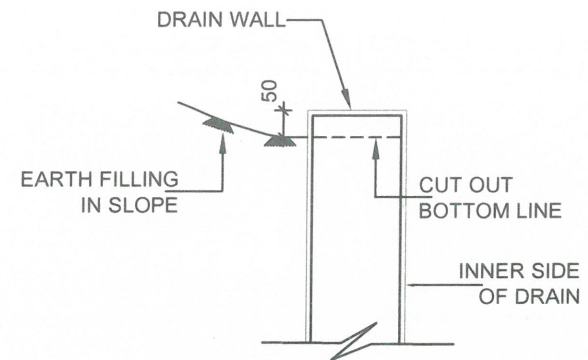


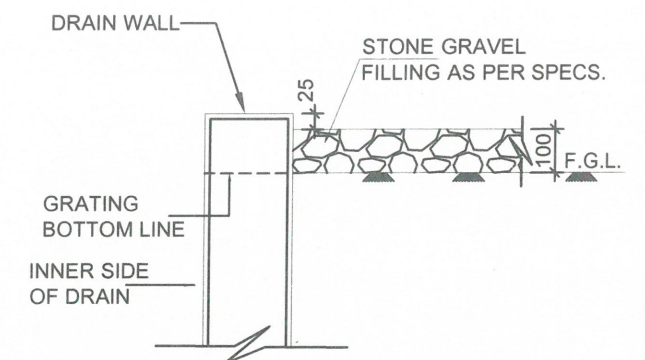
SECTION A-A
(FOR DEPTH UP TO 600 MM)



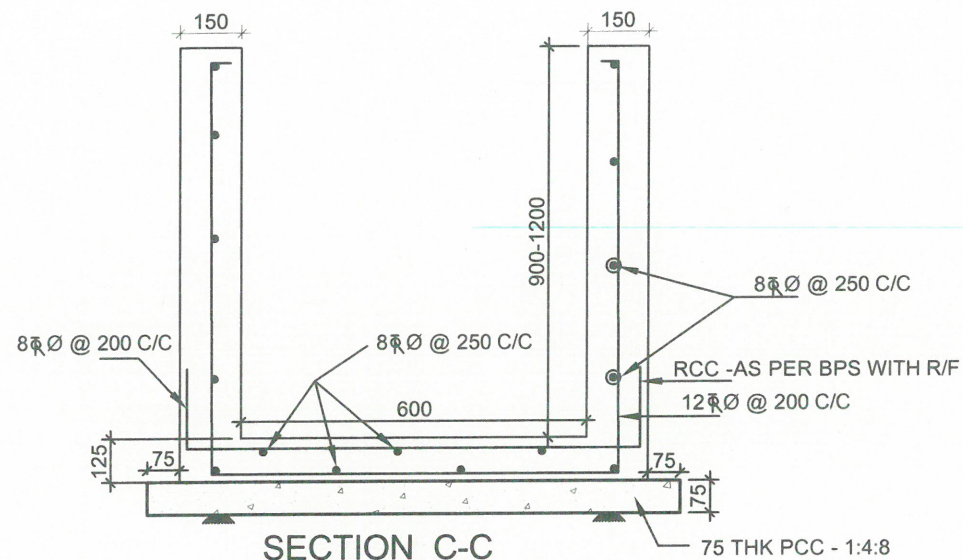
SECTION B-B
(FOR DEPTH FROM 600 TO 900 MM)



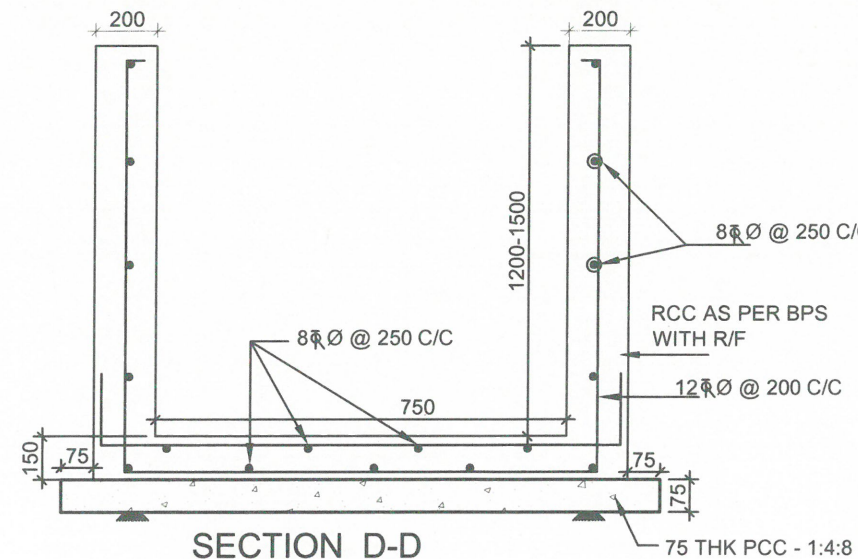
TYP. SECTION OF DRAIN EDGE TOWARDS EARTHEN SIDE



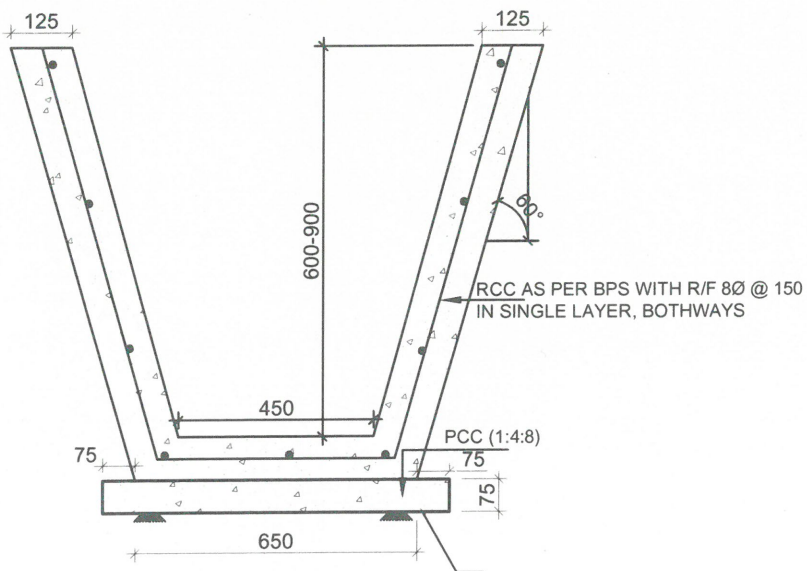
TYP. SECTION OF DRAIN EDGE TOWARDS SWITCHYARDS AREA



SECTION C-C
END SECTION
DEPTH : FROM 900 MM TO 1200 MM
LENGTH : 300 M



SECTION D-D
END SECTION
DEPTH : FROM 1200 MM TO 1500 MM
LENGTH : 300 M



SECTION E-E
END SECTION
DEPTH : FROM 600MM TO 900MM
LENGTH : 300M

NOTES:-

- ALL DIMENSIONS ARE IN MM. & ELEVATIONS ARE IN METRE UNLESS NOTED OTHERWISE.
- ALL DRAINS SHALL BE GIVEN A MINIMUM SLOPE OF 1: 1000 IN THE LONGITUDINAL DIRECTION
- ALL REINFORCEMENT SHALL BE AS PER BPS.
- MINIMUM DEPTH OF DRAIN SHALL BE 300MM BELOW FGL.
- WHERE EVER TWO SECTIONS ARE MEETING A TRANSITION ZONE SHALL BE CONSTRUCTED HAVING LENGTH 1000mm.
- 75X75mm WEEP HOLE SHALL BE PROVIDED AT SPACING OF 1500mm HORIZONTALLY & 300mm VERTICALLY IN STAGGERED MANNER USING 75 MM DIA PVC PIPE .
- DEPTH OFF DRAIN IS TAKEN AS HEIGHT FROM TOP OF DRAIN TO INVERT OF DRAIN
- LAYOUT OF DRAIN WILL BE ISSUED DURING DETAILED ENGINEERING.
- IF EXPANSIVE SOIL IS ENCOUNTERED AT FOUNDING LVL. IT SHALL BE REMOVED TO A MIN. DEPTH OF 300 MM. AND SHALL BE REPLACED BY WELL COMPACED (IN 03 EQ. LAYERS) LOCALLY AVAILABLE C.N.S. MATERIAL /SAND.
- WHEREEVER DRAINS ARE COMING IN THE SIDE OF SWITCHYARD / TOWNSHIP ROAD, PROPER COMPACTION BETWEEN EDGE OF ROAD AND DRAIN SHOULD BE ENSURED
- 20MM WIDE EXPANSION JOINT SHALL BE PROVIDED IN RCC DRAIN @ 45M C/C. THE JOINT SHALL BE FILLED WITH 1:4 CEMENT SAND MORTAR.

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PROJECT :- STANDARD CONCRETE DRAIN DRAWING

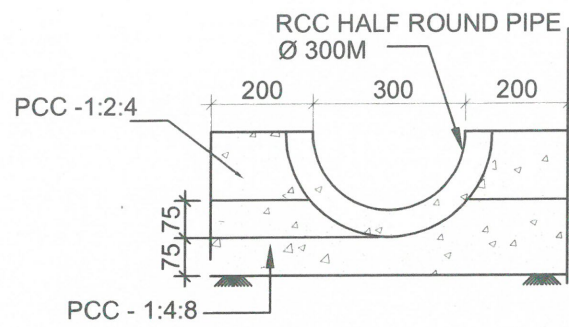
SUBSTATION :- 765/400/220kV POWERGRID SUBSTATION

TITLE : DETAILS OF STANDARD RCC DRAIN SECTIONS

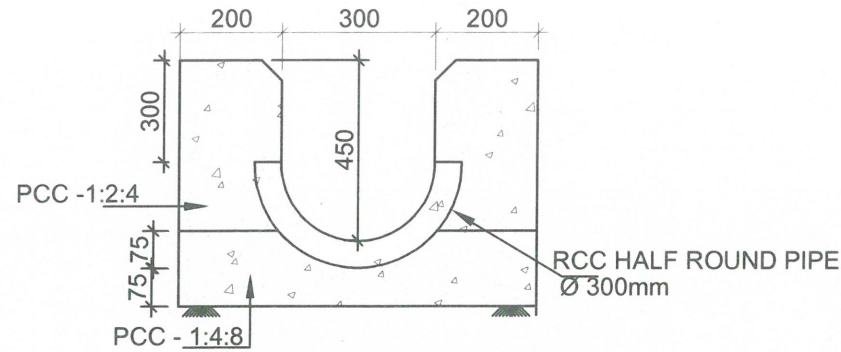
DRAWING NO. CC/ENGG/STD/RCC/DRAIN/01	SCALE NTS	REV R-0	SHEET 01 OF 03
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RELEASED FOR CONSTRUCTION.

<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>	<i>26/03/2026</i>
PREP	CHK	CHK	REVD (ELEC)	APPD	DATE

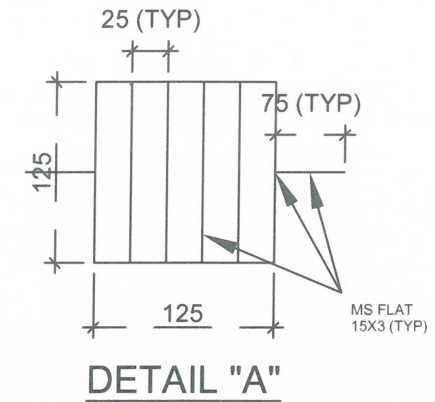


(TO BE USED AT BEGINING 150MM DEPTH)

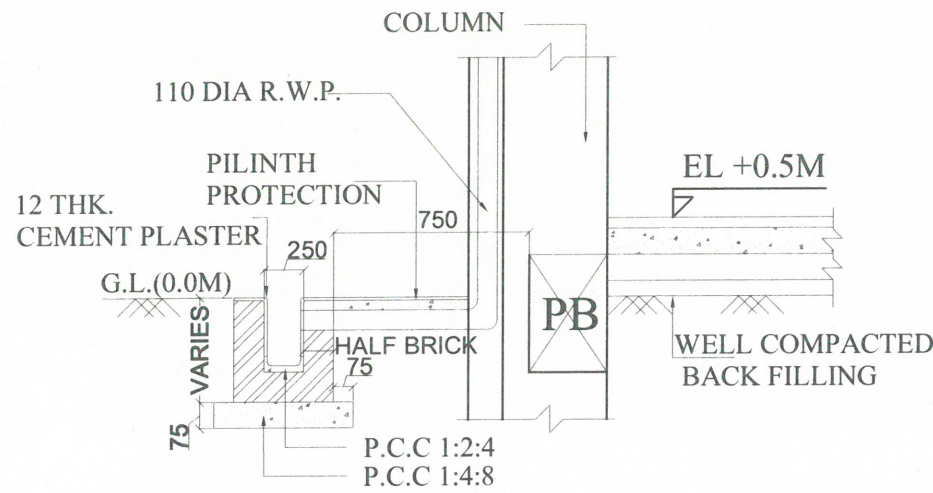
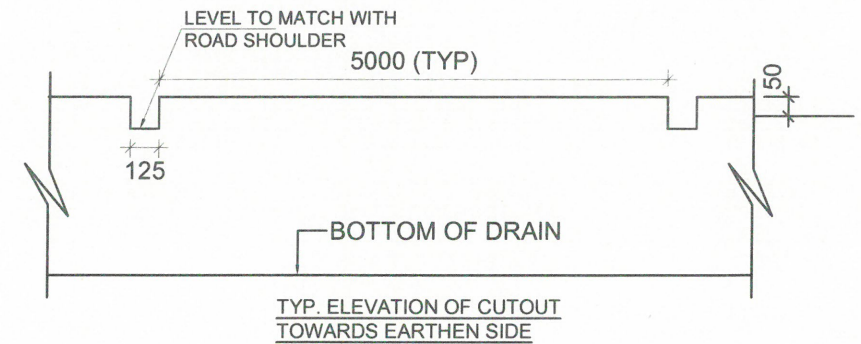
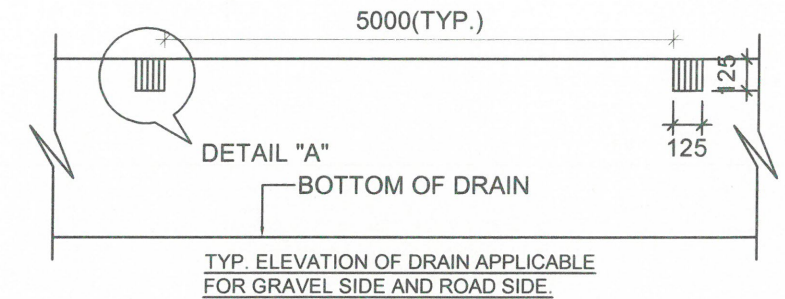


(TO BE USED 150 TO 450 MM DEPTH)

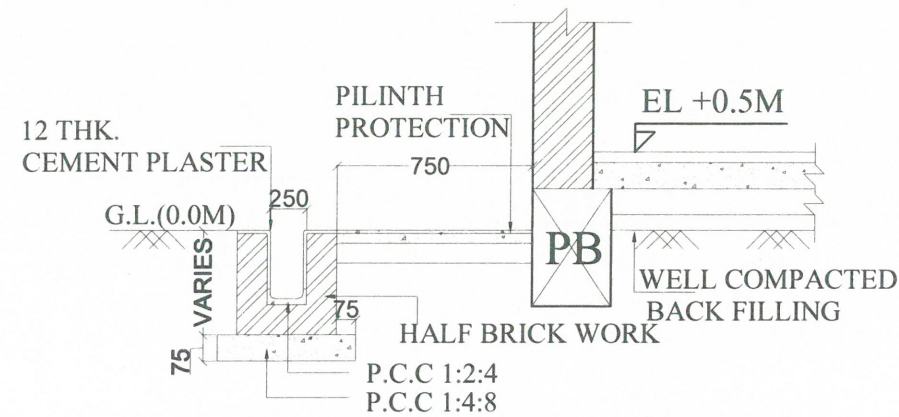
SECTION F-F



DETAIL "A"



PLINTH PROTECTION DRAIN WITH RAIN WATER PIPE
APPLICABLE FOR ALL BUILDING (REFER TS MEASUREMENT CLAUSE)



PLINTH PROTECTION DRAIN (GENERAL)
APPLICABLE FOR ALL BUILDING (REFER TS MEASUREMENT CLAUSE)

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PROJECT :- STANDARD CONCRETE DRAIN DRAWING

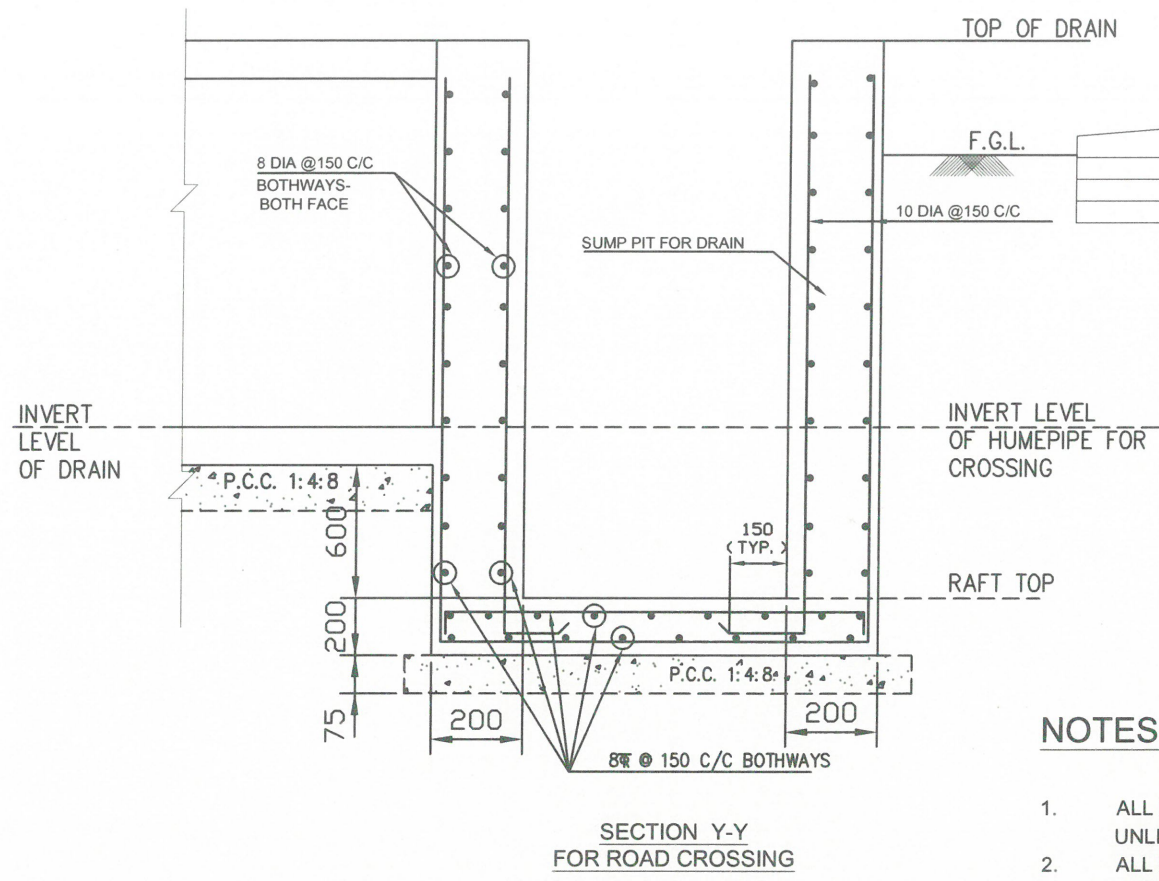
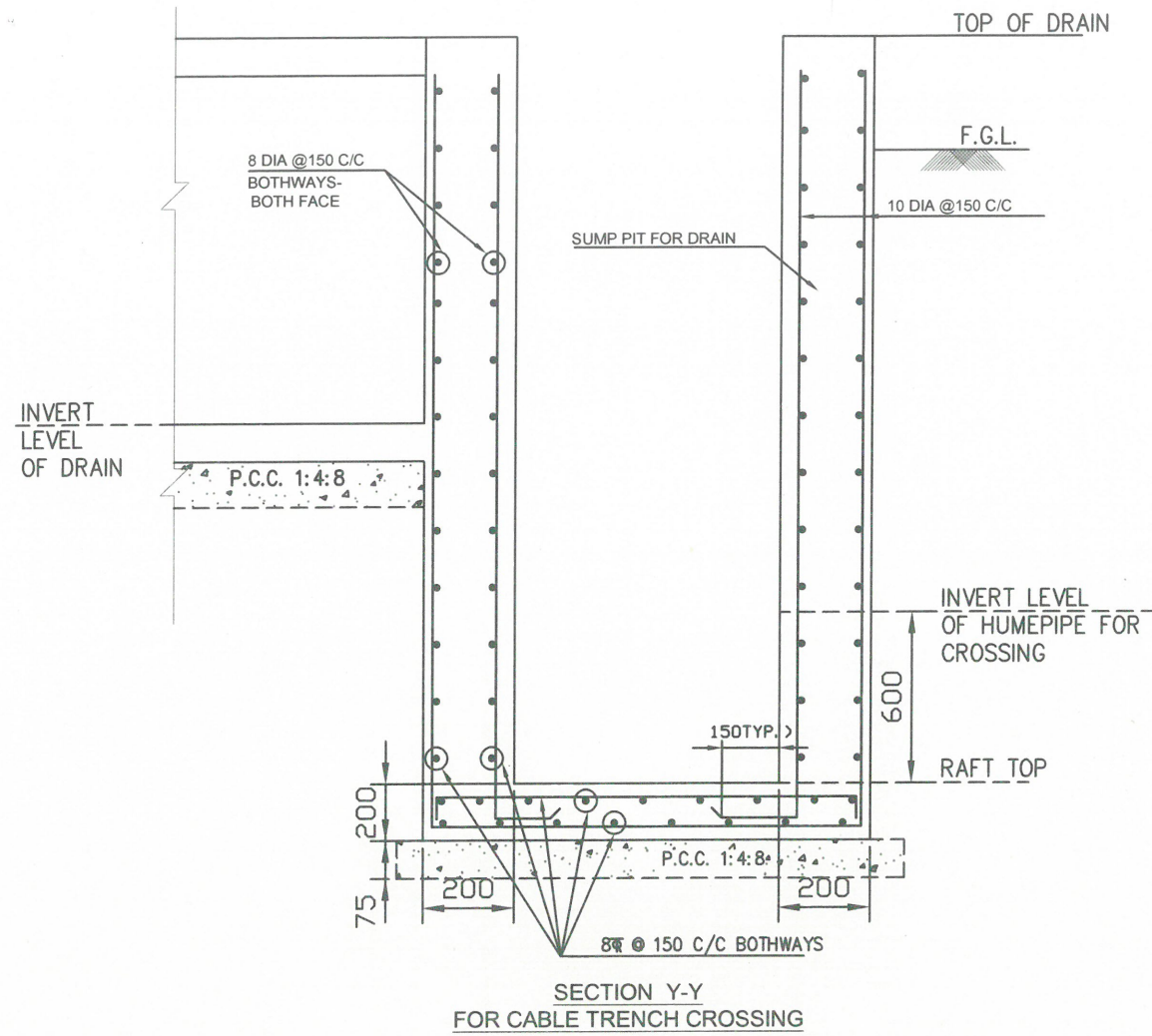
SUBSTATION :- 765/400/220kV POWERGRID SUBSTATION

TITLE : DETAILS OF STANDARD RCC DRAIN SECTIONS

<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>	<i>26/03/2016</i>
PREP	CHK	CHK	REVD (ELEC)	APPD	DATE

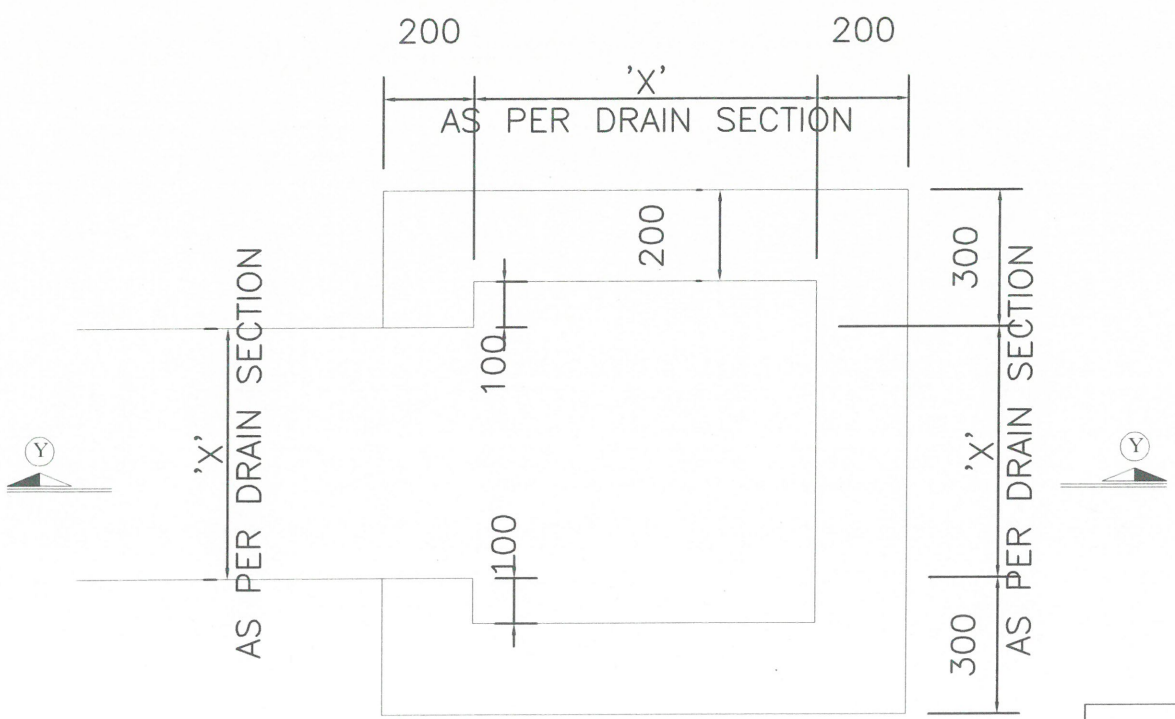
DRAWING NO. CC/ENGG/STD/RCC/DRAIN/01

SCALE NTS	REV R-0	SHEET 02 OF 03
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NOTES:-

1. ALL DIMENSIONS ARE IN MM. & ELEVATIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. ALL DRAINS SHALL BE GIVEN A MINIMUM SLOPE OF 1: 1000 IN THE LONGITUDINAL DIRECTION.
3. ALL REINFORCEMENT SHALL BE AS PER BPS.
4. ALL CONCRETE GRADE SHALL BE AS PER BPS.
5. MINIMUM DEPTH OF DRAIN SHALL BE 300MM BELOW FGL.
6. DEPTH OFF DRAIN IS TAKEN AS HEIGHT FROM TOP OF DRAIN TO INVERT OF DRAIN
7. LAYOUT OF DRAIN WILL BE ISSUED DURING DETAILED ENGINEERING.
8. IF EXPANSIVE SOIL IS ENCOUNTERED AT FOUNDING LVL. IT SHALL BE REMOVED TO AMIN. DEPTH OF 300 MM. AND SHALL BE REPLACED BY WELL COMPACTED (IN 03 EQ. LAYERS) LOCALLY AVAILABLE C.N.S. MATERIAL /SAND.
9. WHEREEVER DRAINS ARE COMING IN THE SIDE OF SWITCHYARD / TOWNSHIP ROAD, PROPER COMPACTION BETWEEN EDGE OF ROAD AND DRAIN SHOULD BE ENSURED
10. THIS DRAWING IS APPLICABLE FOR DEPTHS UP TO 2.2 METERS BELOW THE FINISHED GROUND LEVEL (FGL) FOR THE SUMP PIT.



POWER GRID CORPORATION OF INDIA LIMITED
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PROJECT :- STANDARD CONCRETE DRAIN DRAWING

SUBSTATION :- 765/400/220kV POWERGRID SUBSTATION

TITLE : DETAILS OF STANDARD RCC DRAIN SECTIONS

DRAWING NO. CC/ENGG/STD/RCC/DRAIN/01	SCALE NTS	REV R-0	SHEET 03 OF 03
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<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>	26/03/2026
PREP	CHK	CHK	REVD (ELEC)	APPD	DATE