

**IMPORTANT NOTES**

**A GENERAL**

1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED & LEVELS ARE IN METER.
2. DO NOT SCALE THE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. THE DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWING I.E. ARCHITECTURAL, ELECTRICAL & STRUCTURAL DRAWINGS, (GA DRAWING OF MANUFACTURER)
4. ALL THE WORK SHALL BE CARRIED OUT AS PER RELEVANT FIELD QUALITY PLAN APPROVED BY GETCO.
5. IN CASE OF ANY DOUBT OR DISCREPANCIES, PLEASE CONTACT ENGG. CELL, NO ASSUMPTIONS SHALL BE MADE.
6. ALL SAFETY PRECAUTIONS AS MENTIONED IN ELECTRICAL LAYOUT, SAFETY MANUAL & RELEVANT STANDARD CODES, SHALL BE SCRUPULOUSLY FOLLOWED WHILE EXECUTION OF WORK.

**B CONCRETE**

7. THE CEMENT SHALL BE ORDINARY PORTLAND CEMENT WITH C3A CONTENT FROM 5 TO 8 % FOR ALL CIVIL WORK.
8. ALL THE RCC WORK SHALL BE CARRIED OUT AS PER IS 456-2000, WITH LATEST REVISION.
9. THE GRADE OF CONCRETE SHALL BE M-20, WITH MINIMUM CEMENT CONTENT OF 400 KG/M<sup>3</sup>, EXCEPT LEAN CONCRETE MIX DESIGN SHALL BE DONE CONSIDERING 'SEVERE ENVIRONMENT' EXPOSURE CONDITIONS.
10. THE GRADE OF LEAN CONCRETE SHALL BE M-15
11. CONCRETING OF ALL CIVIL WORKS UNDER BIDDER SCOPE FOR GRADE OF M30, M25 & M20 SHALL BE DONE WITH THE HELP OF DIGITAL WEIGH BATCHER OR FLORI (MOBILE CONCRETE BATCHING PLANT) ONLY.
12. ALL CONCRETE SHALL BE MACHINE MIXED, VIBRATED & CURED FOR MINIMUM 10 DAYS.
13. USE OF NEEDLE VIBRATOR IS COMPULSORY FOR ALL CONCRETE WORKS.

**C REINFORCEMENT**

14. REINFORCEMENT BARS SHALL BE TMT (THERMO MECHANICALLY TREATED) OF GRADE FE-400/500D/650 BARS CONFIRMING TO IS 1786(LATEST REVISION) COATED WITH FUSION BONDED EPOXY COATING AS PER IS-13623(LATEST REVISION)
15. REINFORCEMENT SHALL BE BENT & FIXED IN ACCORDANCE WITH THE PROCEDURE SPECIFIED IN IS 2502-1963.
16. CLEAR COVER TO THE REINFORCEMENT SHALL BE AS UNDER

	TOP	BOTTOM	SIDES
• FOOTING (RAFT & ISOLATED)	50	75	50
• PILE CAPS	75	100	50
• PILE	75	75	75
• GRADE BEAM	-	40	40
• COLUMNS & PEDESTALS	50	-	50
• BEAMS ABOVE GROUND LEVEL	35	35	35
• GRADE SLAB	25	25	25
• UNTEL BEAMS	25	25	25
• SLABS & STAIRCASE	25	25	25
• CABLE TRENCHES BASE SLAB	20	35	35
• WALL	20	35	35

17. LAP LENGTH SHOULD BE 50 TIMES OF DIA.
18. LAP AT SUPPORT SECTION, JOINT SECTION & MID SPAN SHALL BE AVOIDED.
19. OVERLAPPING OF REINFORCEMENT SHALL BE STAGGERED.
20. UNLESS OTHERWISE SPECIFIED DISTN., STEEL SHOULD BE 8 MM, TOR @ 200 MM, C/C.
21. IN CASE OF CONTINUOUS SUPPORT, REINFORCEMENTS ARE DEFERENT FOR TWO ADJACENT BEAMS / SLABS, THE HIGHER SUPPORT REINFORCEMENT OF THE TWO SHALL BE PROVIDED AT THE SUPPORT

**D FOUNDATION**

22. IN THE COURSE OF EXCAVATION, IF SUB SOIL STRATA DIFFERS IN COMPARE TO SBC REPORT, THE SAME SHALL BE REPORTED TO THE CONCERN FOR NECESSARY STEPS BY THE ENGINEERING CELL.
23. LAY-OUT, LINE-OUT & ORIENTATION SHALL BE CHECKED JOINTLY BY E. E. / D. E. - (CIVIL) & E. E. / D. E. - (CONST), ON THE BASIS OF APPROVED ELECTRICAL LAY-OUT, GA DRAWING & THIS DRAWING, PRIOR TO START THE WORK.

**FOR OPEN FOUNDATION**

24. NO FOUNDATION SHALL BE RESTED ON FILLED-UP SOIL / BLACK COTTON SOIL.
25. IF FILLED UP SOIL ENCOUNTERED, FOUNDATION SHALL BE TAKEN 300 MM BELOW VIRGIN SOIL.
26. IF FOUNDATION FALLS ON EXCAVATED TRENCHES OF ADJOINING FOUNDATION, THAN FOUNDATION SHALL EXTENDED UP TO THE DEPTH OF ADJOINING FOUNDATION.
27. IF BLACK COTTON SOIL ENCOUNTERED, AT FOUNDATION DEPTH, THAN FOUNDATION SHALL REST ON COMPACTED SAND BED OF 300MM THICK.
28. BACK FILLING OF FOUNDATION TRENCHES SHALL BE DONE WITH USE OF NON COHESIVE SOIL ONLY.
29. THE BACK FILLING AROUND THE FOUNDATION SHALL BE ADEQUATE TO ACHIEVE THE PROCTOR DENSITY OF 95%.

**FOR PILE FOUNDATION**

30. THE GRADE OF CONCRETE SHALL BE M-30 FOR PILE CAP, COLUMN, BEAM, RAFT, ETC., EXCEPT LEAN CONCRETE.
31. THE GRADE OF CONCRETE FOR PILE SHALL BE M-30, CONFIRMING TO IS 456 WITH MINIMUM CEMENT CONTENT AS 450 kg. / M<sup>3</sup> WITH TREME CONCRETE.
32. CONCRETE SLUMP SHALL BE 120 TO 150MM, (VERY HIGH DEGREE OF WORKABILITY) FOR PILE FOUNDATION WITH TREME CONCRETE.
33. FOR CONSTRUCTION SPECIFICATION OF IS 2911 (PART-III), LATEST REVISION SHALL BE FOLLOWED.
34. THE PILE SHOULD PROJECT 100MM, IN TO THE PILE CAP CONCRETE.
35. INTEGRITY TEST TO BE DONE FOR ALL PILES, PRIOR TO CAST PILE CAP.
36. INITIAL AND ROUTINE PILE LOAD TEST SHALL BE CARRIED OUT FOR EACH CAPACITY OF PILE(I.E. FOR COMPRESSION, PULL OUT & LATERAL LOAD CAPACITY) AS PER PROVISION OF IS 2911-PART-IV-LATEST REVISION, TEST RESULTS SHALL BE COMPARED WITH RECOMMENDED VALUE GIVEN IN APPROVED SOIL INVESTIGATION REPORT PRIOR TO START OF WORKING PILE.
37. PILE CONCRETE SHALL BE DONE WITH MINIMUM LEAD TIME AFTER 'PILE BORE' IS ACCEPTED & CLEARED FOR REINFORCEMENT PLACEMENT AND CONCRETING. IN NO CASE, PILE BORE SHALL REMAIN OPEN FOR MORE THAN FOUR HOURS AFTER ACCEPTANCE

**FOR HARD ROCK**

38. CARE SHOULD BE TAKEN TO REMOVE LOOSENED PIECES OF ROCK SO AS TO REST THE FOUNDATION ON UNDISTURBED ROCK MASS.
39. WASHING & AIR JETTING SHALL BE DONE SO THAT THE FOUNDATION REST ON PRACTICALLY UNDISTURBED ROCK.
40. RAFT SHALL NOT OVERHANG AT ANY CORNERS, ELSE EXCAVATE THE FILLED UP SOIL AND BACK FILL IT BY LEAN CONCRETE OF REQUIRED STRENGTH UP TO FOUNDATION LEVEL.
41. HARD ROCK STRATA SHALL BE CLASSIFIED WHERE CHISELING, DRILLING AND BLASTING IS REQUIRED FOR EXCAVATION, THESE INCLUDE HARD SAND STONE, QUARTZITE, GRANITE, BASALT, HARD MARBLE ETC (REF: CBIP MANUAL CH NO. 10, CL NO.107(I) PAGE-219)
42. SOFT ROCK / FISSURED ROCK FOUNDATION SHALL BE CLASSIFIED WHEN DECOMPOSED OR FISSURED ROCK, HARD GRAVEL, KANKAR, LIME STONE, LATERITE OR ANY OTHER SOIL OF SIMILAR NATURE IS MET WHICH CAN BE EXCAVATED WITHOUT BLASTING.(CBIP MANUAL, CH NO. 10, CL NO. 107(g), P. NO. 219)
43. ANCHOR BAR OF SUFFICIENT CAPACITY SHALL BE GROUTED IN HARD ROCK WITH GROUTING MATERIAL AS PER BOG.

**SPECIAL NOTE:**

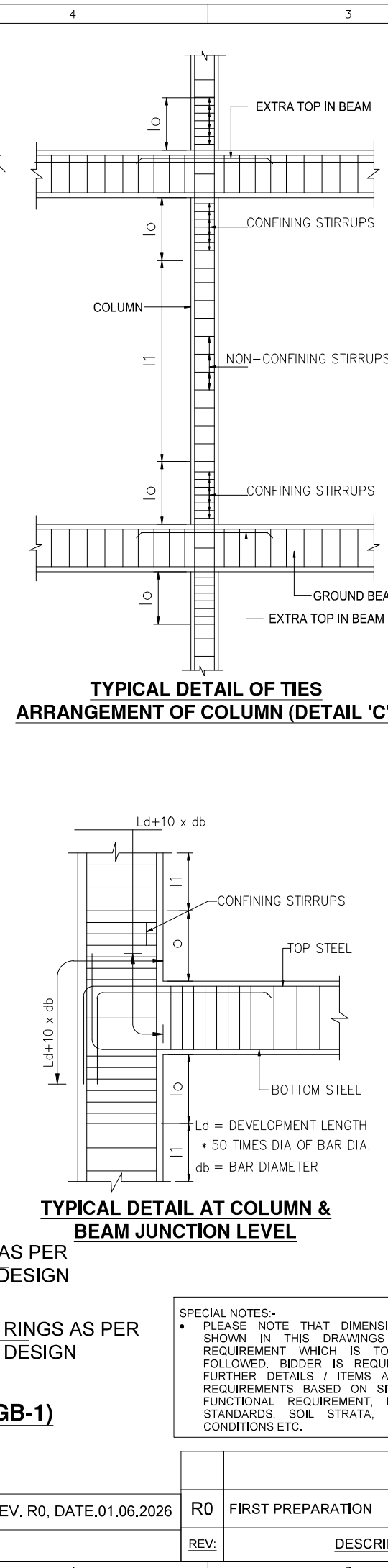
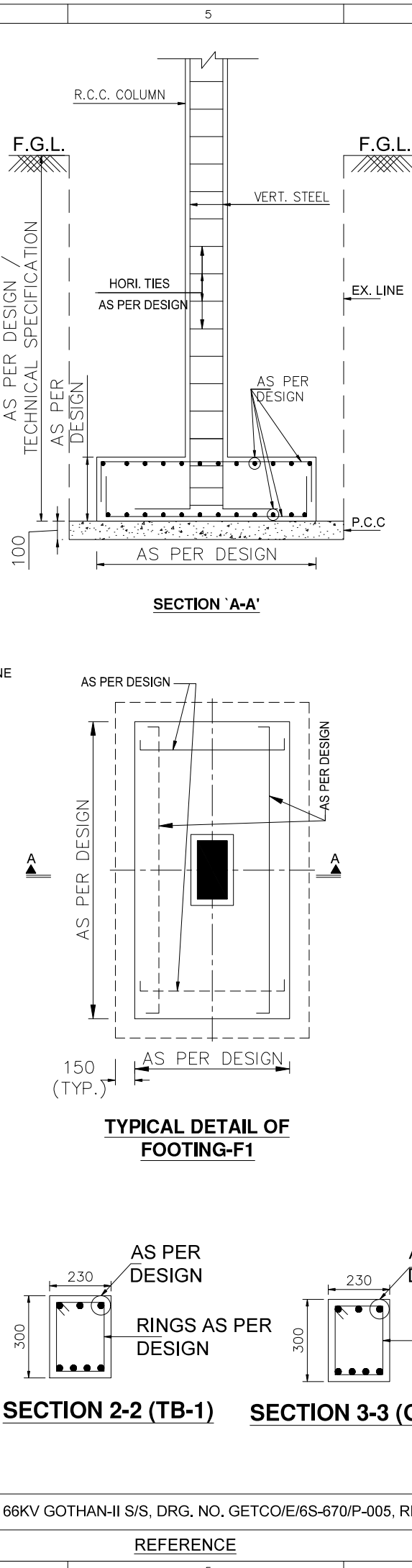
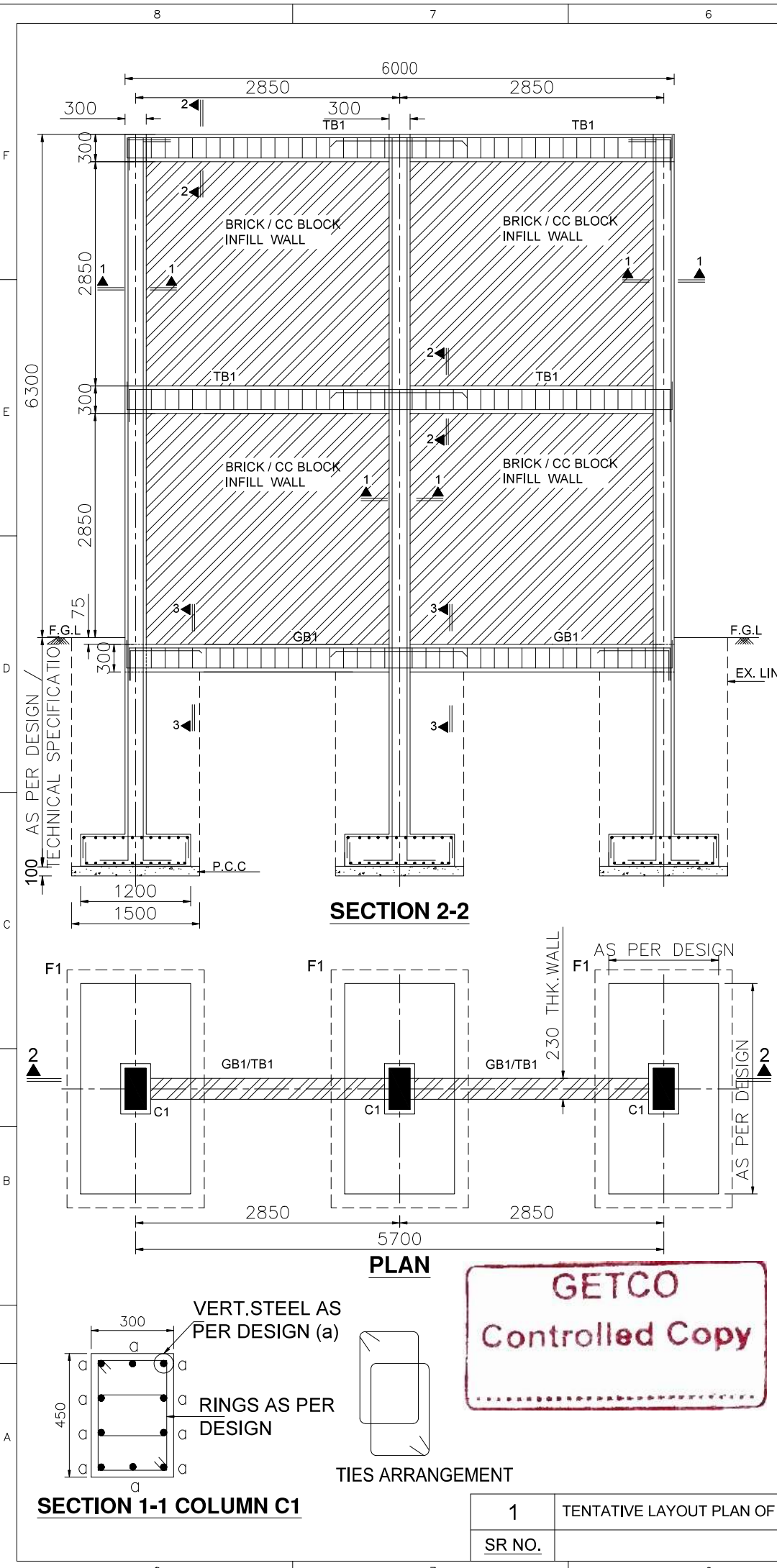
44. PVC PIPE OF 150MM DIA, SHALL BE PROVIDED UNDERNEATH CABLE TRENCH FOR PASSING OF EARTHING ROD, GRID SHALL BE DECIDED IN CONSULTATION WITH EE(CONST.) & DE (CONST).
45. SUFFICIENT SLOPE (1 IN 1000) SHALL BE PROVIDED AT BOTTOM OF CABLE TRENCH SO THAT RAIN WATER (IF ANY) ENTERS MAY BE COLLECTED AT ONE POINT AND DRAIN OF EASILY.
46. HOLES SHALL BE KEPT IN RCC WALL AT REQUIRED LOCATION FOR ENTRY OF CABLE OF EQUIPMENTS AS PER APPROVED ELECTRICAL LAYOUT.
47. INVERTED LEVEL OF BOTTOM OF CABLE TRENCH SHALL BE DECIDED BY BIDDER FOR DRAIN RAIN WATER CONSIDERING SURROUNDING TERRAIN.
48. REINFORCEMENT DETAILS OF 'PSC' COVER SHALL BE AS PER DESIGN REQUIREMENTS.
49. ANCHOR FASTER BOLT OF SUFFICIENT CAPACITY MAY BE USED INSTEAD OF HOLDFAST GROUTED IN WALL.
50. ALL STEEL STRUCTURAL MEMBER SHALL BE FULLY GALVANIZED AS PER TECH. SPECIFICATION RELEVANT CODES AND STANDARDS.
51. ALL EXPOSED STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED AS PER IS:4759-1984 WITH MINIMUM COATING THICKNESS OF 900 g/m<sup>2</sup> AND WELDED JOINT SHALL BE ALUMINIUM PAINTED.
52. PVC WATER STOPPER SHALL BE PROVIDED.
53. CONSTRUCTION JOINT SHALL BE PROVIDED AT EVERY 40 MTR.
54. THICKNESS OF WALL AND REINFORCEMENT SHOWN IN DWG IS MINIMUM REQUIRED, HOWEVER, IT MAY INCREASE AS PER ACTUAL SITE CONDITION.
55. SCOPE OF WORK SHALL BE AS MENTION IN BOG DESCRIPTION & TECHNICAL SPECIFICATION.
56. THIS DRAWING IS GIVEN FOR BID PURPOSE ONLY, HOWEVER, BIDDER HAS TO DEVELOP CONSTRUCTION DRAWINGS AND RELEVANT STRUCTURE DRAWINGS ON THE BASIS OF THIS DRAWING, APPROVED LAY OUT OF SUB STATION, TENDER SPECIFICATION, SBC REPORT, SITE CONDITION, CONTOUR MAP AND AS PER CODES & STANDARDS.
57. CERTAIN MINIMUM REQUIREMENTS ARE INDICATED IN THIS DRAWING FOR GUIDANCE PURPOSE, HOWEVER BIDDER SHALL QUOTE THE RATES ACCORDING TO SYSTEM REQUIREMENTS.
58. DIMENSION SHOWN IN THIS DRAWING IS MINIMUM REQUIRED & BIDDER CAN NOT DECREASE THE SAME, HOWEVER, IT SHALL INCREASED DURING DETAILED ENGINEERING AS PER RELEVANT CODES & STANDARD
59. LENGTH OF ALL 'L' SHOULD BE AT LEAST 150MM.

1	TENTATIVE LAYOUT PLAN OF 66KV GOTHAN-II S/S, DRG. NO. GETCO/E/6S-670/P-005, REV. R0, DATE.01.06.2026
SR NO.	REFERENCE

**SPECIAL NOTES:-**

- PLEASE NOTE THAT DIMENSIONS / DETAILS SHOWN IN THIS DRAWINGS ARE MINIMUM REQUIREMENT WHICH IS TO BE STRICTLY FOLLOWED. BIDDER IS REQUESTED TO ADD FURTHER DETAILS / ITEMS AS PER ACTUAL REQUIREMENTS BASED ON SITE CONDITIONS, FUNCTIONAL REQUIREMENT, I.S. CODE AND STANDARDS, SOIL STRATA, ENVIRONMENTAL CONDITIONS ETC.

TENDER PURPOSE				
GUJARAT ENERGY TRANSMISSION CORPN.LTD.				
S.P.VIDYUT BHAVAN, RACE COURSE, VADODARA - 390 007				
TENTATIVE SECTION OF CABLE TRENCH OF ALL TYPE AT 66KV GOTHAN-II (GIS) SUB-STATION				
CHECKED:	APPD:		SIZE: A3	
JE (CIVIL)	DE (CIVIL)	EE (CIVIL)	SE (ENGG.)	I/C ACE (ENGG.)
SCALE:	DATE:	DRG. NO:	SHEET:	REV:
N.T.S.	01.06.26	GETCO / C / 06S-670/CBLT-018	1 OF 1	R0



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- ANCHOR BAR OF SUFFICIENT CAPACITY SHALL BE GROUTED IN HARD ROCK WITH GROUTING MATERIAL AS PER BOQ.

**E FOUNDATION BOLT**

- BEFORE CONCRETING, LOCATION OF FOUNDATION BOLT SHALL BE CHECKED & APPROVED BY ENGINEER IN CHARGE.
- FOUNDATION BOLT SHALL BE CONNECTED TO REINFORCEMENT CAGE BY MEANS OF 12 MM. DIA. BAR, (TO PROVIDE THE EARTHING TO THE FOUNDATION)
- IF FOUNDATION BOLTS FOUL WITH STIRRUPS, STIRRUPS MAY BE ADJUSTED AT SITE.

**F SPECIAL NOTE:-**

- PROVIDE 20MM THK. SMOOTH PLASTER ON BOTH THE FACES.
- FOR CEMENT PLASTER PATTERN & COLOUR PATTERN, PLEASE REFER CIRCULAR NO. GETCO / SE(C) / STREAM LINE / S/S / 590 DTD. 16.08.2005, OR AS PER EXISTING.
- THREE COATS OF "APEX" ACRYLIC PAINT ON BOTH THE FACES SHALL BE PROVIDED.
- THIS DRAWING IS GIVEN FOR BID PURPOSE ONLY. HOWEVER, BIDDER HAS TO DEVELOP CONSTRUCTION DRAWINGS AND RELEVANT STRUCTURE DRAWINGS ON THE BASIS OF THIS DRAWING, APPROVED LAY OUT OF SUB STATION, TENDER SPECIFICATION, SBC REPORT, SITE CONDITION, CONTOUR MAP AND AS PER CODES & STANDARDS.
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- LENGTH OF ALL 'L' SHOULD BE AT LEAST 150MM.

**TENDER PURPOSE**

GUJARAT ENERGY TRANSMISSION CORPN.LTD.  
S.P.VIDYUT BHAVAN, RACE COURSE,  
VADODARA - 390 007

**TENTATIVE FOUNDATION PLAN & SECTION FOR  
FIRE PROTECTION WALL AT 66KV GOTHAN-II (GIS) SUB-STATION**

CHECKED:	APPD:		
JE(CIVIL)	DE(CIVIL)		
SCALE	DATE	DRG. NO:	SHEET: REV:
N.T.S	01.06.26	GETCO/C/ 06S-670/FPW-020	1 OF 1 R0

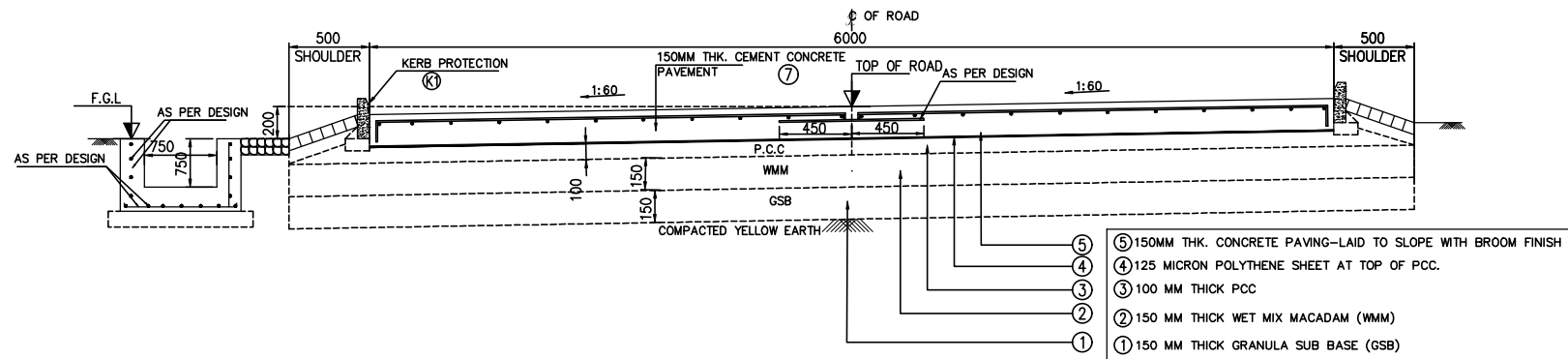
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SR NO.	REFERENCE	REV:	DESCRIPTION

**GETCO**  
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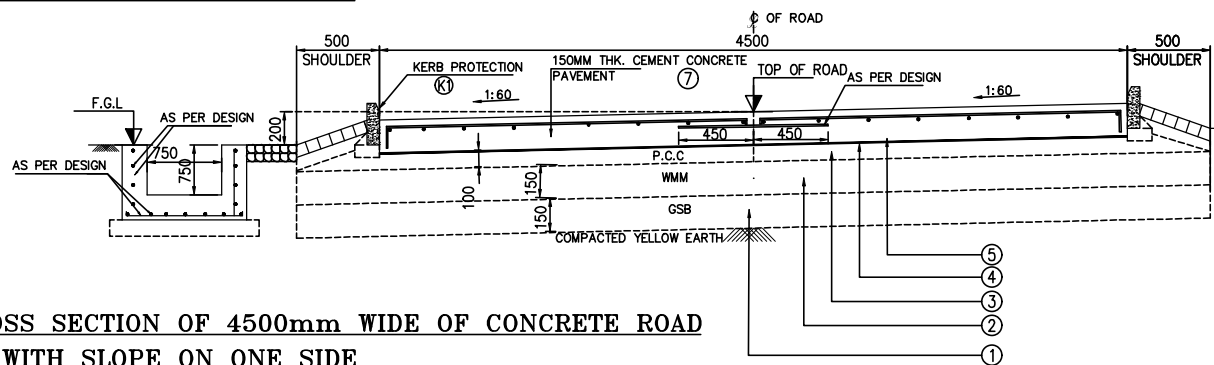
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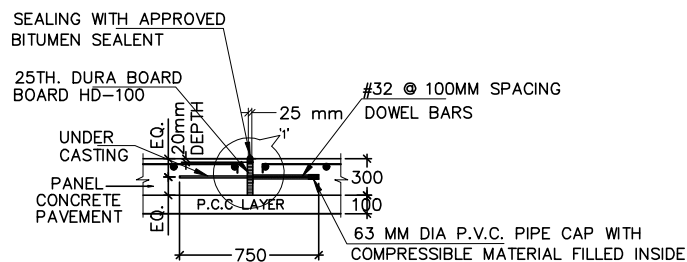




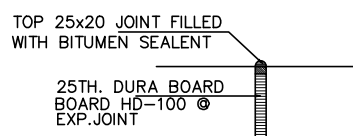
**TYPICAL CROSS SECTION OF 6000mm WIDE OF CONCRETE ROAD WITH SLOPE ON ONE SIDE**



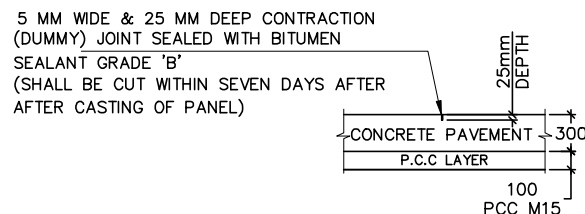
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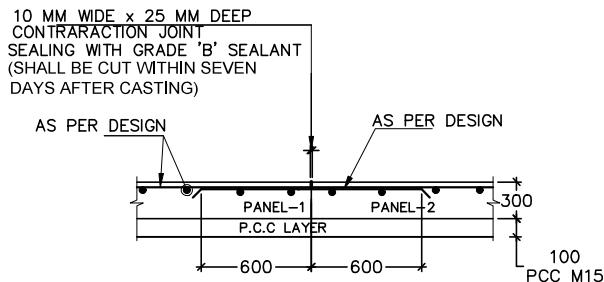
**TYP. DETAIL OF DOWEL BARS AT EXPANSION JOINTS**



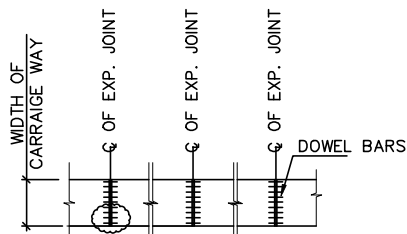
**DETAIL - 1'**



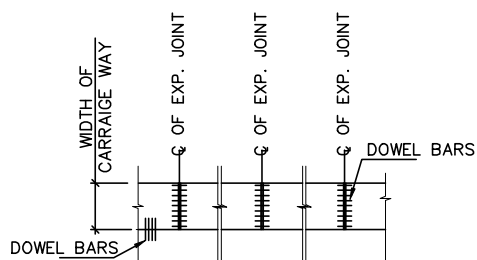
**TYP. DETAILS OF CONTRACTION (DUMMY) JOINT**



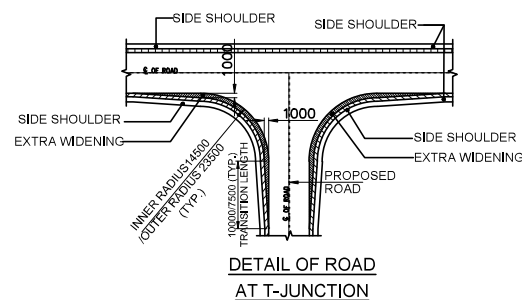
**TYP. DETAILS OF TIE BARS AT CONSTRUCTION JOINTS (TRANSVERSE DIRECTION)**



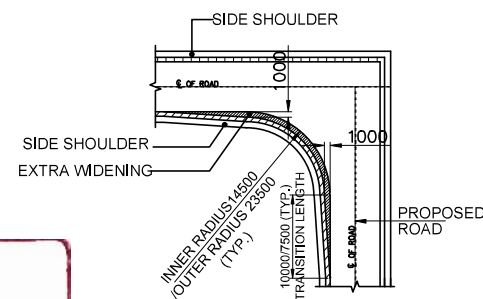
**TYPICAL DETAILS OF TIE BARS & DOWEL BARS (FOR SINGLE PANEL WIDTH)**



**CONTINUOUS LONG JOINT FOR ROAD**

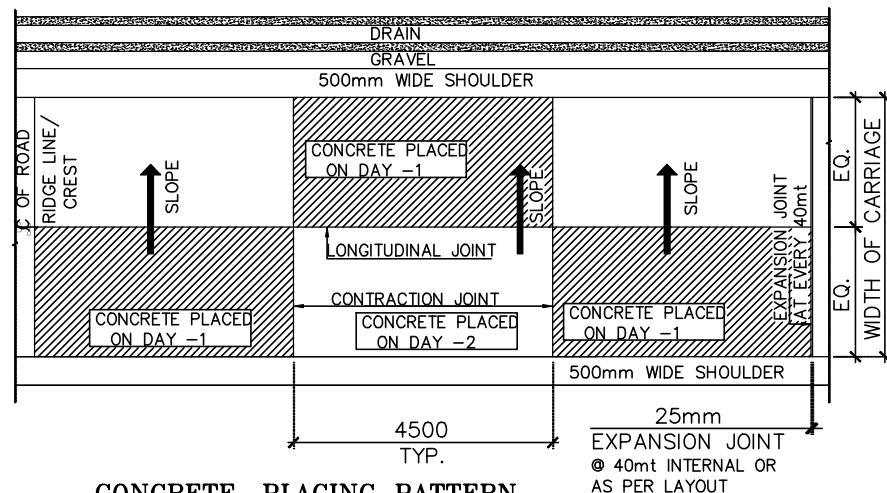


**DETAIL OF ROAD AT T-JUNCTION**



**DETAIL OF ROAD AT L-JUNCTION**

**GETCO**  
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**CONCRETE. PLACING PATTERN**

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  - THE DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWING I.E. ARCHITECTURAL, ELECTRICAL & STRUCTURAL DRAWING, (GA DRAWING OF MANUFACTURER)
  - ALL THE WORK SHALL BE CARRIED OUT AS PER RELEVANT FIELD QUALITY PLAN APPROVED BY GETCO.
  - IN CASE OF ANY DOUBT OR DISCREPANCIES, PLEASE CONTACT ENGG. CELL. NO ASSUMPTIONS SHALL BE MADE.
  - ALL SAFETY PRECAUTIONS AS MENTIONED IN ELECTRICAL LAYOUT, SAFETY MANUAL & RELEVANT STANDARD CODES, SHALL BE SCRUPULOUSLY FOLLOWED WHILE EXECUTION OF WORK.
- B. CONCRETE**
- THE CEMENT SHALL BE ORDINARY PORTLAND CEMENT WITH C3A CONTENT FROM 5 TO 8 % FOR ALL CIVIL WORK.
  - ALL THE RCC WORK SHALL BE CARRIED OUT AS PER IS 456-2000, WITH LATEST REVISION.
  - THE GRADE OF CONCRETE SHALL BE M-20, WITH MINIMUM CEMENT CONTENT OF 400 KG/M<sup>3</sup>, EXCEPT LEAN CONCRETE MIX DESIGN SHALL BE DONE CONSIDERING SEVERE ENVIRONMENT EXPOSURE CONDITIONS.
  - THE GRADE OF LEAN CONCRETE SHALL BE M-15
  - CONCRETING OF ALL CIVIL WORKS UNDER BIDDER SCOPE FOR GRADE OF M30, M25 & M20 SHALL BE DONE WITH THE HELP OF DIGITAL WEIGH BATCHER OR FLORI (MOBILE CONCRETE BATCHING PLANT) ONLY.
  - ALL CONCRETE SHALL BE MACHINE MIXED, VIBRATED & CURED FOR MINIMUM 10 DAYS.
  - USE OF NEEDLE VIBRATOR IS COMPULSORY FOR ALL CONCRETE WORKS.
- C. REINFORCEMENT**
- REINFORCEMENT BARS SHALL BE TMT (THERMO MECHANICALLY TREATED) OF GRADE FE-500/550D/550 BARS CONFORMING TO IS 1786(LATEST REVISION) COATED WITH FUSION BONDED EPOXY COATING AS PER IS-4320(LATEST REVISION)
  - REINFORCEMENT SHALL BE BENT & FIXED IN ACCORDANCE WITH THE PROCEDURE SPECIFIED IN IS 2502-1983.
  - CLEAR COVER TO THE REINFORCEMENT SHALL BE AS UNDER
- |                             | TOP | BOTTOM | SIDES |
|-----------------------------|-----|--------|-------|
| • FOOTING (RAFT & ISOLATED) | 50  | 75     | 50    |
| • PILE CAPS                 | 50  | 100    | 50    |
| • PILE                      | 75  | 75     | 75    |
| • GRADE BEAM                | -   | 40     | 40    |
| • COLUMNS & PEDESTALS       | 50  | 50     | 50    |
| • BEAMS ABOVE GROUND LEVEL  | 35  | 35     | 35    |
| • GRADE SLAB                | 25  | 25     | 25    |
| • LINTEL BEAMS              | 25  | 25     | 25    |
| • SLABS & STAIRCASE         | 25  | 25     | 25    |
| • CABLE TRENCHES BASE SLAB  | 20  | 35     | 35    |
| • WALL                      | 20  | 35     | 35    |
- LAP LENGTH SHOULD BE 50 TIMES OF DIA.
  - LAP AT SUPPORT SECTION, JOINT SECTION & MID SPAN SHALL BE AVOIDED.
  - OVERLAPPING OF REINFORCEMENT SHALL BE STAGGERED.
  - UNLESS OTHERWISE SPECIFIED DISTN. STEEL SHOULD BE 8 MM, TOR @ 200 MM, C/C.
  - IN CASE OF CONTINUOUS SUPPORT, REINFORCEMENTS ARE DEFERENT FOR TWO ADJACENT BEAMS / SLABS, THE HIGHER SUPPORT REINFORCEMENT OF THE TWO SHALL BE PROVIDED AT THE SUPPORT
- D. FOUNDATION**
- IN THE COURSE OF EXCAVATION, IF SUB SOIL STRATA DIFFERS IN COMPARE TO SBC REPORT, THE SAME SHALL BE REPORTED TO THE CONCERN FOR NECESSARY STEPS BY THE ENGINEERING CELL.
  - LAY-OUT, LINE-OUT & ORIENTATION SHALL BE CHECKED JOINTLY BY E, E, / D, E, - (CIVIL) & E, E, / D, E, - (CONST), ON THE BASIS OF APPROVED ELECTRICAL LAY-OUT, GA DRAWING & THIS DRAWING, PRIOR TO START THE WORK.
- FOR OPEN FOUNDATION**
- NO FOUNDATION SHALL BE RESTED ON FILLED-UP SOIL / BLACK COTTON SOIL.
  - IF FILLED UP SOIL ENCOUNTERED, FOUNDATION SHALL BE TAKEN 300 MM BELOW VIRGIN SOIL.
  - IF FOUNDATION FALLS ON EXCAVATED TRENCHES OF ADJOINING FOUNDATION, THAN FOUNDATION SHALL EXTENDED UP TO THE DEPTH OF ADJOINING FOUNDATION.
  - IF BLACK COTTON SOIL ENCOUNTERED, AT FOUNDATION DEPTH, THAN FOUNDATION SHALL REST ON COMPACTED SAND BED OF 300MM THICK.
  - BACK FILLING OF FOUNDATION TRENCHES SHALL BE DONE WITH USE OF NON COHESIVE SOIL ONLY.
  - THE BACK FILLING AROUND THE FOUNDATION SHALL BE ADEQUATE TO ACHIEVE THE PROCTOR DENSITY OF 95%.
- FOR PILE FOUNDATION**
- THE GRADE OF CONCRETE SHALL BE M-30 FOR PILE CAP, COLUMN, BEAM, RAFT, ETC., EXCEPT LEAN CONCRETE.
  - THE GRADE OF CONCRETE FOR PILE SHALL BE M-30, CONFORMING TO IS 456 WITH MINIMUM CEMENT CONTENT AS 450 kg / M<sup>3</sup>, WITH TREME CONCRETE.
  - CONCRETE SLUMP SHALL BE 120 TO 150MM, (VERY HIGH DEGREE OF WORKABILITY) FOR PILE FOUNDATION WITH TREME CONCRETE.
  - FOR CONSTRUCTION SPECIFICATION OF IS 2911 (PART-III), LATEST REVISION SHALL BE FOLLOWED.
  - THE PILE SHOULD PROJECT 100MM. IN TO THE PILE CAP CONCRETE.
  - INTEGRITY TEST TO BE DONE FOR ALL PILES, PRIOR TO CAST PILE CAP.
  - INITIAL AND ROUTINE PILE LOAD TEST SHALL BE CARRIED OUT FOR EACH CAPACITY OF PILE(I.E. FOR COMPRESSION, PULL OUT & LATERAL LOAD CAPACITY) AS PER PROVISION OF IS 2911-PART-IV-LATEST REVISION. TEST RESULTS SHALL BE COMPARED WITH RECOMMENDED VALUE GIVEN IN APPROVED SOIL INVESTIGATION REPORT PRIOR TO START OF WORKING PILE.
  - PILE CONCRETE SHALL BE DONE WITH MINIMUM LEAD TIME AFTER 'PILE BORE' IS ACCEPTED & CLEARED FOR REINFORCEMENT PLACEMENT AND CONCRETING. IN NO CASE, PILE BORE SHALL REMAIN OPEN FOR MORE THAN FOUR HOURS AFTER ACCEPTANCE
- FOR HARD ROCK**
- CARE SHOULD BE TAKEN TO REMOVE LOOSENED PIECES OF ROCK SO AS TO REST THE FOUNDATION ON UNDISTURBED ROCK MASS.
  - WASHING & AIR JETTING SHALL BE DONE SO THAT THE FOUNDATION REST ON PRACTICALLY UNDISTURBED ROCK.
  - RAFT SHALL NOT OVERHANG AT ANY CORNERS, ELSE EXCAVATE THE FILLED UP SOIL AND BACK FILL IT BY LEAN CONCRETE OF REQUIRED STRENGTH UP TO FOUNDATION LEVEL.
  - HARD ROCK STRATA SHALL BE CLASSIFIED WHERE CHISELING, DRILLING AND BLASTING IS REQUIRED FOR EXCAVATION. THESE INCLUDE HARD SAND STONE, QUARTZITE, GRANITE, BASALT, HARD MARBLE ETC (REF: CBIP MANUAL CH NO: 10, CL NO:10.7(h) PAGE-219)
  - SOFT ROCK / FISSURED ROCK FOUNDATION SHALL BE CLASSIFIED WHEN DECOMPOSED OR FISSURED ROCK, HARD GRAVEL, KANKAR, LIME STONE, LATERITE OR ANY OTHER SOIL OF SIMILAR NATURE IS MET WHICH CAN BE EXCAVATED WITHOUT BLASTING, CBIP MANUAL, CH. NO. - 10, CL. NO. 10.7(g), P. NO. : 219)
  - ANCHOR BAR OF SUFFICIENT CAPACITY SHALL BE GROUTED IN HARD ROCK WITH GROUTING MATERIAL AS PER BOQ.
- E. SPECIAL NOTES**
- ROAD SIDE DRAIN SHALL BE PROVIDED ON ONE SIDE OF ROAD AS PER SITE CONDITION.
  - TOP OF ROAD SHALL BE 200MM ABOVE FGL.
  - THE SIDE SHOULDER ON BOTH SIDES OF ROAD SHALL BE PROPERLY COMPACTED & DRESSED TO THE SPECIFIED SLOPES.
  - REQUIRED RADIUS SHALL BE PROVIDED AT JUNCTION OF ROAD AS PER SITE CONDITION.
  - ALL MATERIAL & CONSTRUCTION SHALL BE IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS OF IRC ITEM DESCRIPTION, UNLESS OTHERWISE SPECIFIED.
  - NP3 CLASS RCC HUME PIPE OF 100 MM DIA. SHALL BE PROVIDED UNDERNEATH ROAD AT EVERY 20 MTR. INTERVAL OR AS PER REQUIREMENT FOR PASSING OF EARTHING ROD, WATER SUPPLY LINE, CABLES, IF ANY, GRID OF EARTHING ETC. DULY SEALED ON BOTH ENDS.
  - AFTER EXCAVATION ALL LOOSE SOIL SHALL BE REMOVED & ROLLING SHALL BE DONE UP TO 95% PROCTOR DENSITY.
  - SUDDEN DIP'S IN ROAD PATH SHOULD BE FILLED WITH MURRUM OF APPROVED MATERIAL & COMPACTED TO 95% MOD.
  - EXPANSION JOINT 12MM THICK SHALL BE PROVIDED AT EVERY 40.0M ALONG ROAD LENGTH.
  - ROAD EXPANSION JOINT SHALL BE PROVIDED LONGITUDINALLY AT THE CENTRE OF THE ROAD.
  - THIS DRAWING IS GIVEN FOR BID PURPOSE ONLY. HOWEVER, BIDDER HAS TO DEVELOP CONSTRUCTION DRAWINGS AND RELEVANT STRUCTURE DRAWINGS ON THE BASIS OF THIS DRAWING, APPROVED LAY OUT OF SUB STATION, TENDER SPECIFICATION, SBC REPORT, SITE CONDITION, CONTOUR MAP AND AS PER CODES & STANDARDS.
  - CERTAIN MINIMUM REQUIREMENTS ARE INDICATED IN THIS DRAWING FOR GUIDANCE PURPOSE, HOWEVER BIDDER SHALL QUOTE THE RATES ACCORDING TO SYSTEM REQUIREMENTS.
  - DIMENSION SHOWN IN THIS DRAWING IS MINIMUM REQUIRED & BIDDER CAN NOT DECREASE THE SAME, HOWEVER, IT SHALL INCREASED DURING DETAILED ENGINEERING AS PER RELEVANT CODES & STANDARD.

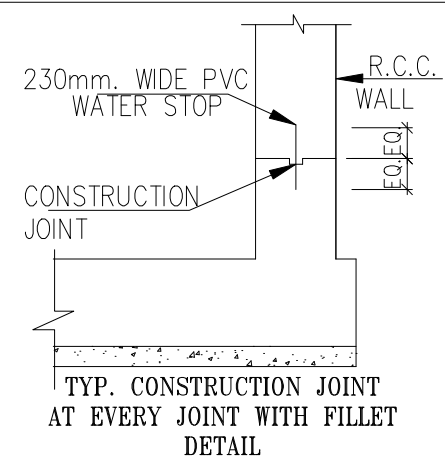
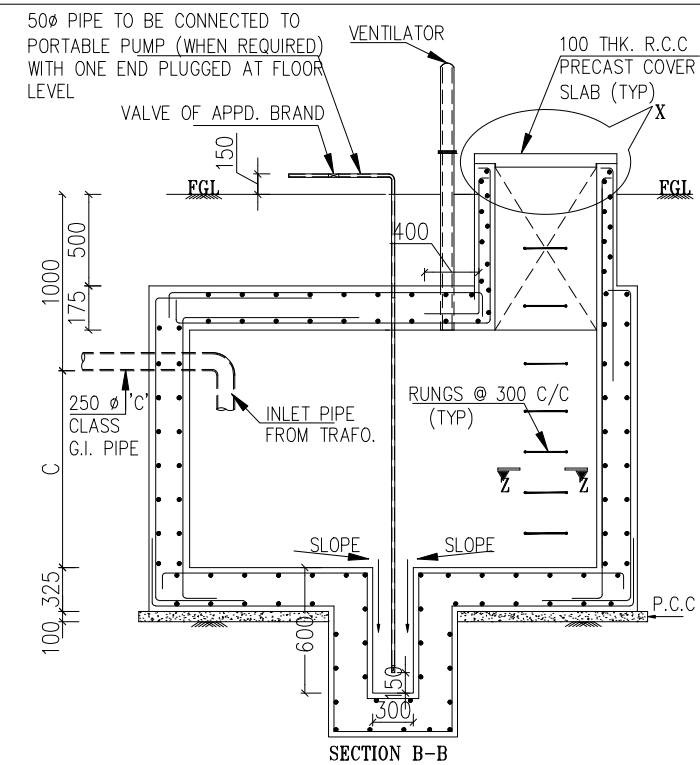
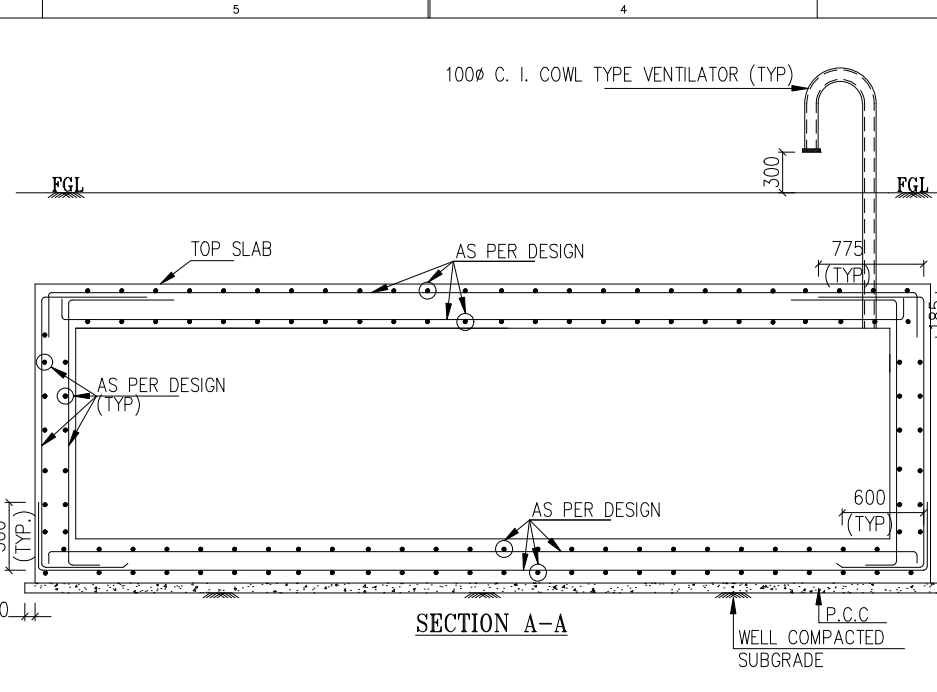
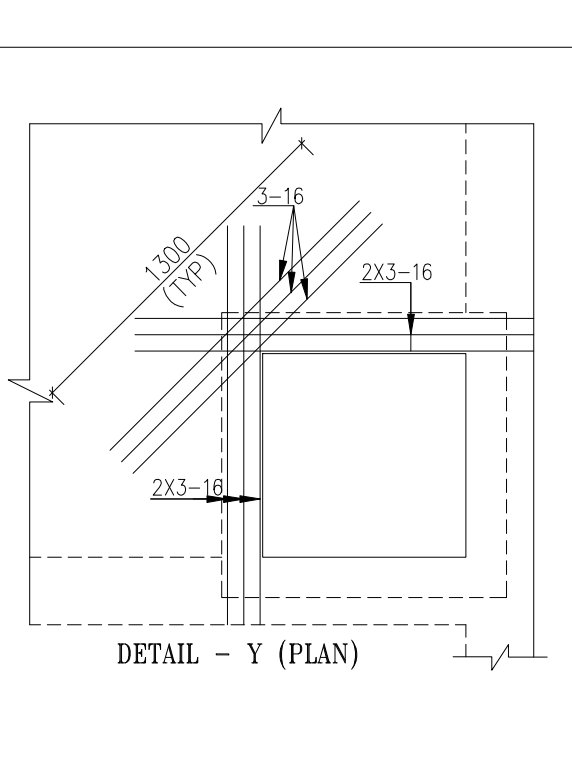
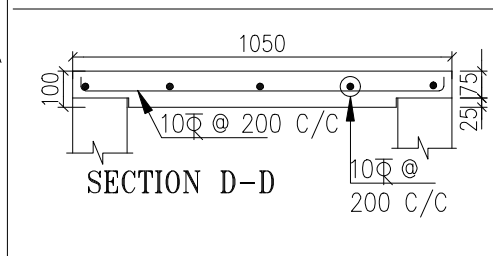
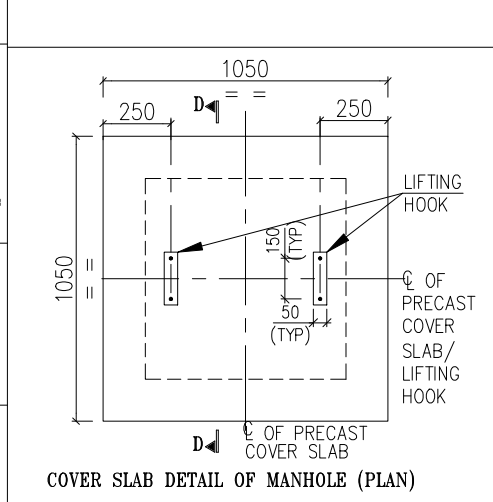
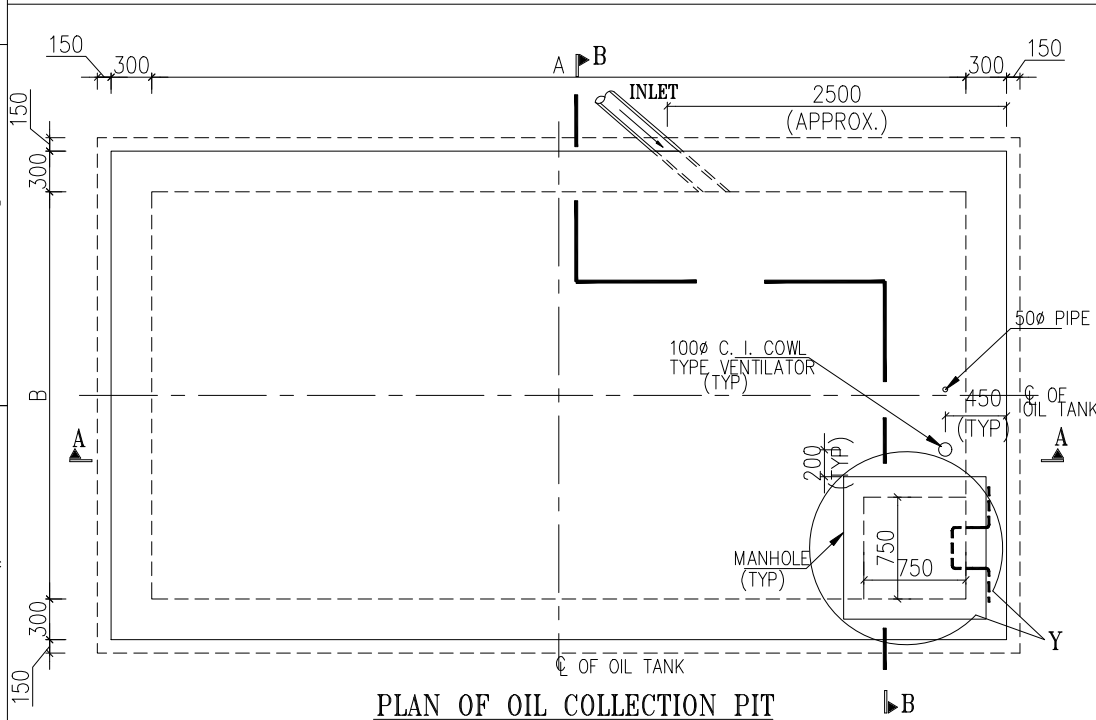
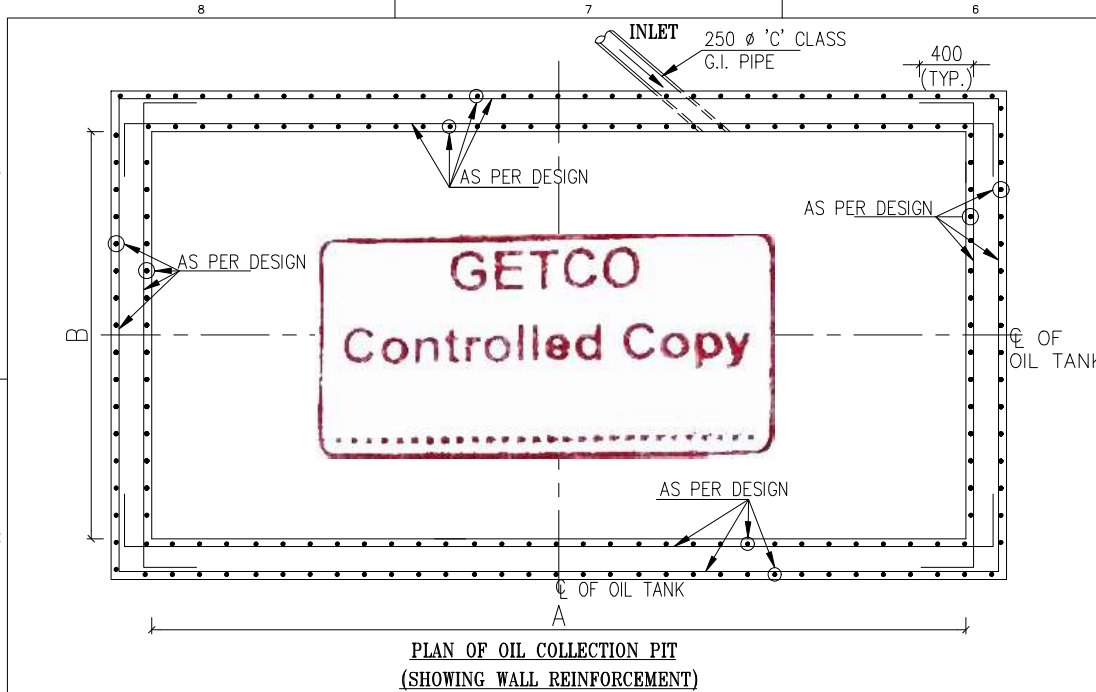


**GUJARAT ENERGY TRANSMISSION CORPN.LTD.**  
S.P.VIDYUT BHAVAN, RACE COURSE,  
VADODARA - 390 007

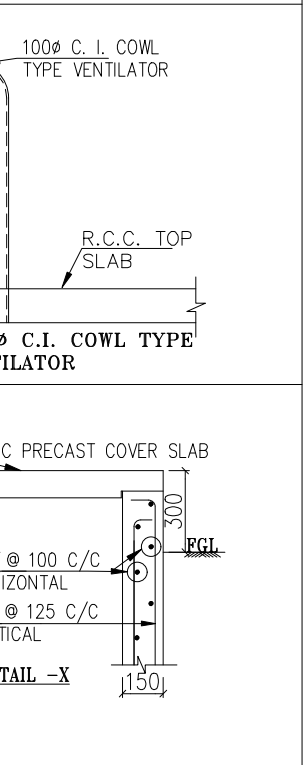
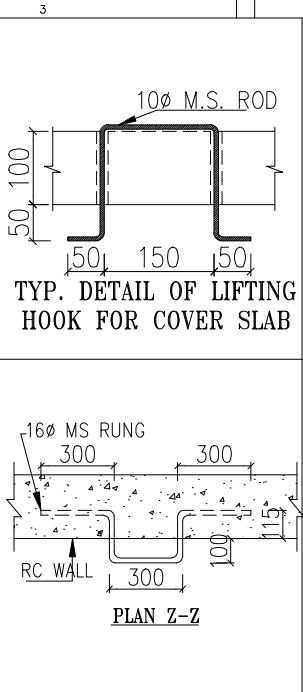
**TENTATIVE RCC ROAD AT 66KV GOTHAN-II (GIS) SUB-STATION**

CHECKED:			APPD:		
JE (CIVIL)	DE (CIVIL)	EE (CIVIL)	SE (ENGG.)	I/C ACE (ENGG.)	
SCALE:	DATE:		DRG. NO:		SHEET: REV:
N.T.S	01.06.26		GETCO / C / 06S-670 / RD-020		1 OF 1 R0

SR NO.	REFERENCE
1	TENTATIVE LAYOUT PLAN OF 66KV GOTHAN-II S/S, DRG. NO. GETCO/E/6S-670/P-005, REV. R0, DATE.01.06.2026



1	TENTATIVE LAYOUT PLAN OF 66KV GOTHAN-II S/S, DRG. NO. GETCO/E/6S-670/P-005, REV. R0, DATE.01.06.2026
SR NO.	REFERENCE





**SPECIAL NOTES:-**

- PLEASE NOTE THAT DIMENSIONS / DETAILS SHOWN IN THIS DRAWINGS ARE MINIMUM REQUIREMENT WHICH IS TO BE STRICTLY FOLLOWED. BIDDER IS REQUESTED TO ADD FURTHER DETAILS / ITEMS AS PER ACTUAL REQUIREMENTS BASED ON SITE CONDITIONS, FUNCTIONAL REQUIREMENT, I.S. CODE AND STANDARDS, SOIL STRATA, ENVIRONMENTAL CONDITIONS ETC.

- IMPORTANT NOTES**
- A GENERAL**
- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED & LEVELS ARE IN METER.
  - DO NOT SCALE THE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
  - THE DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWING I.E. ARCHITECTURAL, ELECTRICAL & STRUCTURAL DRAWING, (GA DRAWING OF MANUFACTURER)
  - ALL THE WORK SHALL BE CARRIED OUT AS PER RELEVANT FIELD QUALITY PLAN APPROVED BY GETCO.
  - IN CASE OF ANY DOUBT OR DISCREPANCIES, PLEASE CONTACT ENGG. CELL. NO ASSUMPTIONS SHALL BE MADE.
  - ALL SAFETY PRECAUTIONS AS MENTIONED IN ELECTRICAL LAYOUT, SAFETY MANUAL & RELEVANT STANDARD CODES, SHALL BE SCRUPULOUSLY FOLLOWED WHILE EXECUTION OF WORK.
- B CONCRETE**
- THE CEMENT SHALL BE ORDINARY PORTLAND CEMENT WITH C3A CONTENT FROM 5 TO 8 % FOR ALL CIVIL WORK.
  - ALL THE R.C.WORK SHALL BE CARRIED OUT AS PER IS 456-2000, WITH LATEST REVISION.
  - THE GRADE OF CONCRETE SHALL BE M-25 WITH MINIMUM CEMENT CONTENT OF 400 KG/M<sup>3</sup>. EXCEPT LEAN CONCRETE MIX DESIGN SHALL BE DONE CONSIDERING 'SEVERE ENVIRONMENT' EXPOSURE CONDITIONS.
  - THE GRADE OF LEAN CONCRETE SHALL BE M-15
  - CONCRETING OF ALL CIVIL WORKS UNDER BIDDER SCOPE FOR GRADE OF M30, M25 & M20 SHALL BE DONE WITH THE HELP OF DIGITAL WEIGH BATCHER OR FLOOR / MOBILE CONCRETE BATCHING PLANT ONLY.
  - ALL CONCRETE SHALL BE MACHINE MIXED, VIBRATED & CURED FOR MINIMUM 10 DAYS.
  - USE OF NEEDLE VIBRATOR IS COMPULSORY FOR ALL CONCRETE WORKS.
- C REINFORCEMENT**
- REINFORCEMENT BARS SHALL BE TMT (THERMO MECHANICALLY TREATED) OF GRADE FE-500/550D/550 BARS CONFORMING TO IS 1786(LATEST REVISION) COATED WITH FUSION BONDED EPOXY COAT-ING AS PER IS-13620(LATEST REVISION)
  - REINFORCEMENT SHALL BE BENT & FIXED IN ACCORDANCE WITH THE PROCEDURE SPECIFIED IN IS 2502-1963.
  - CLEAR COVER TO THE REINFORCEMENT SHALL BE AS UNDER
- |                             | TOP | BOTTOM | SIDES |
|-----------------------------|-----|--------|-------|
| • FOOTING (RAFT & ISOLATED) | 50  | 75     | 50    |
| • PILE CAPS                 | 50  | 100    | 50    |
| • PILE                      | 75  | 75     | 75    |
| • GRADE BEAM                | -   | 40     | 40    |
| • COLUMNS & PEDESTALS       | 50  | -      | 50    |
| • BEAMS ABOVE GROUND LEVEL  | 35  | 35     | 35    |
| • GRADE SLAB                | 25  | 25     | 25    |
| • UNTEL BEAMS               | 25  | 25     | 25    |
| • SLABS & STAIRCASE         | 25  | 25     | 25    |
| • CABLE TRENCHES BASE SLAB  | 20  | 35     | 35    |
| • WALL                      | 20  | 35     | 35    |
- LAP LENGTH SHOULD BE 50 TIMES OF DIA.
  - LAP AT SUPPORT SECTION, JOINT SECTION & MID SPAN SHALL BE AVOIDED.
  - OVERLAPPING OF REINFORCEMENT SHALL BE STAGGERED.
  - UNLESS OTHERWISE SPECIFIED DISTN. STEEL SHOULD BE 8 MM, TOR @ 200 MM, C/C.
  - IN CASE OF CONTINUOUS SUPPORT, REINFORCEMENTS ARE DIFFERENT FOR TWO ADJACENT BEAMS / SLABS, THE HIGHER SUPPORT REINFORCEMENT OF THE TWO SHALL BE PROVIDED AT THE SUPPORT
- D FOUNDATION**
- IN THE COURSE OF EXCAVATION, IF SUB SOIL STRATA DIFFERS IN COMPARE TO SBC REPORT, THE SAME SHALL BE REPORTED TO THE CONCERN FOR NECESSARY STEPS BY THE ENGINEERING CELL.
  - LAY-OUT, LINE-OUT & ORIENTATION SHALL BE CHECKED JOINTLY BY E. E. / D. E. - (CIVIL) & E. E. / D. E. - (CONST), ON THE BASIS OF APPROVED ELECTRICAL LAY-OUT, GA DRAWING & THIS DRAWING, PRIOR TO START THE WORK.
  - 50 MM THICK GROUTING SHALL BE DONE ONLY AFTER ERECTION WORK IS COMPLETED.
  - NON SHRINK MATERIAL CONCRETE, GRADE M-30 OR POLY-GRUT - NS OR EQUIVALENT MAKE HAVING MINIMUM COMPRESSIVE STRENGTH OF 45 NMM<sup>2</sup> IS TO BE USED
- FOR OPEN FOUNDATION**
- NO FOUNDATION SHALL BE RESTED ON FILLED-UP SOIL / BLACK COTTON SOIL.
  - IF FILLED UP SOIL ENCOUNTERED, FOUNDATION SHALL BE TAKEN 300 MM BELOW VIRGIN SOIL.
  - IF FOUNDATION FALLS ON EXCAVATED TRENCHES OF ADJOINING FOUNDATION, THAN FOUNDATION SHALL EXTENDED UP TO THE DEPTH OF ADJOINING FOUNDATION.
  - IF BLACK COTTON SOIL ENCOUNTERED, AT FOUNDATION DEPTH, THAN FOUNDATION SHALL REST ON COMPACTED SAND BED OF 300MM THICK.
  - BACK FILLING OF FOUNDATION TRENCHES SHALL BE DONE WITH USE OF NON COHESIVE SOIL ONLY.
  - THE BACK FILLING AROUND THE FOUNDATION SHALL BE ADEQUATE TO ACHIEVE THE PROCTOR DENSITY OF 95%.
- FOR PILE FOUNDATION**
- THE GRADE OF CONCRETE SHALL BE M-30 FOR PILE CAP, COLUMN, BEAM, RAFT, ETC, EXCEPT LEAN CONCRETE.
  - THE GRADE OF CONCRETE FOR PILE SHALL BE M-30, CONFIRMING TO IS 456 WITH MINIMUM CEMENT CONTENT AS 450 kg / M<sup>3</sup> WITH TREMIE CONCRETE.
  - CONCRETE SLUMP SHALL BE 120 TO 150MM, (VERY HIGH DEGREE OF WORKABILITY) FOR PILE FOUNDATION WITH TREMIE CONCRETE.
  - FOR CONSTRUCTION SPECIFICATION OF IS 2911 (PART-III), LATEST REVISION SHALL BE FOLLOWED.
  - THE PILE SHOULD PROJECT 100MM, IN TO THE PILE CAP CONCRETE.
  - INTEGRITY TEST TO BE DONE FOR ALL PILES, PRIOR TO CAST PILE CAP.
  - INITIAL AND ROUTINE PILE LOAD TEST SHALL BE CARRIED OUT FOR EACH CAPACITY OF PILE (I.E. FOR COMPRESSION, PULL OUT & LATERAL LOAD CAPACITY) AS PER PROVISION OF IS 2911-PART-IV LATEST REVISION, TEST RESULTS SHALL BE COMPARED WITH RECOMMENDED VALUE GIVEN IN APPROVED SOIL INVESTIGATION REPORT PRIOR TO START OF WORKING PILE.
  - PILE CONCRETE SHALL BE DONE WITH MINIMUM LEAD TIME AFTER 'PILE BORE' IS ACCEPTED & CLEARED FOR REINFORCEMENT PLACEMENT AND CONCRETING. IN NO CASE, PILE BORE SHALL REMAIN OPEN FOR MORE THAN FOUR HOURS AFTER ACCEPTANCE
- FOR HARD ROCK**
- CARE SHOULD BE TAKEN TO REMOVE LOOSENED PIECES OF ROCK SO AS TO REST THE FOUNDATION ON UNDISTURBED ROCK MASS.
  - WASHING & AIR JETTING SHALL BE DONE SO THAT THE FOUNDATION REST ON PRACTICALLY UNDISTURBED ROCK.
  - RAFT SHALL NOT OVERHANG AT ANY CORNERS, ELSE EXCAVATE THE FILLED UP SOIL AND BACK FILL IT BY LEAN CONCRETE OF REQUIRED STRENGTH UP TO FOUNDATION LEVEL.
  - HARD ROCK STRATA SHALL BE CLASSIFIED WHERE CHISELING, DRILLING AND BLASTING IS REQUIRED FOR EXCAVATION, THESE INCLUDE HARD SAND STONE, QUARTZITE, GRANITE, BASALT, HARD MARBLE ETC (REF: CBP MANUAL CH NO. 10, CL NO.10.7(h) PAGE-219)
  - SOFT ROCK / FISSURED ROCK FOUNDATION SHALL BE CLASSIFIED WHEN DECOMPOSED OR FISSURED ROCK, HARD GRAVEL, KANKAR, LIME STONE, LATERITE OR ANY OTHER SOIL OF SIMILAR NATURE IS MET WHICH CAN BE EXCAVATED WITHOUT BLASTING, (CBP MANUAL, CH. NO. : 10, CL. NO. 10.7(g), P. NO. : 219)
  - ANCHOR BAR OF SUFFICIENT CAPACITY SHALL BE GROUTED IN HARD ROCK WITH GROUTING MATERIAL AS PER BOQ.
- E SPECIAL NOTE:-**
- SLOPE OF PIPE FROM TRANSFORMER TO OIL SUMP SHALL BE CONSIDERED 1:50
  - LOOKING TO THE SOIL CONDITIONS, ALL COLUMN/COLUMN FOOTING/STRUCTURE FOUNDATIONS SHALL BE RESTED ON PILE FOUNDATION, HOWEVER, TYPE OF FOUNDATION SHALL BE DECIDED ON THE BASIS OF RECOMMENDATION MENTIONED IN DETAILED SOIL INVESTIGATION REPORT BY SOIL TESTING AGENCY.
  - THIS DRAWING IS GIVEN FOR BID PURPOSE ONLY, HOWEVER, BIDDER HAS TO DEVELOP CONSTRUCTION DRAWINGS AND RELEVANT STRUCTURE DRAWINGS ON THE BASIS OF THIS DRAWING, APPROVED LAY OUT OF SUB STATION, TENDER SPECIFICATION, SBC REPORT, SITE CONDITION, CONTOUR MAP AND AS PER CODES & STANDARDS.
  - CERTAIN MINIMUM REQUIREMENTS ARE INDICATED IN THIS DRAWING FOR GUIDANCE PURPOSE, HOWEVER BIDDER SHALL QUOTE THE RATES ACCORDING TO SYSTEM REQUIREMENTS.
  - DIMENSION SHOWN IN THIS DRAWING IS MINIMUM REQUIRED & BIDDER CAN NOT DECREASE THE SAME, HOWEVER, IT SHALL INCREASED DURING DETAILED ENGINEERING AS PER RELEVANT CODES & STANDARD
  - LENGTH OF ALL 'L' SHOULD BE AT LEAST 150MM.

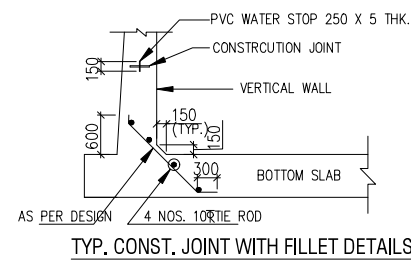
TRANSFORMER CAPACITY	A	B	C	CAPACITY
5 TO 25 MVA	3000	3000	1700	15000 LTR

TENDER PURPOSE				
 <b>GUJARAT ENERGY TRANSMISSION CORPN.LTD.</b> S.P.VIDYUT BHAVAN, RACE COURSE, VADODARA - 390 007				

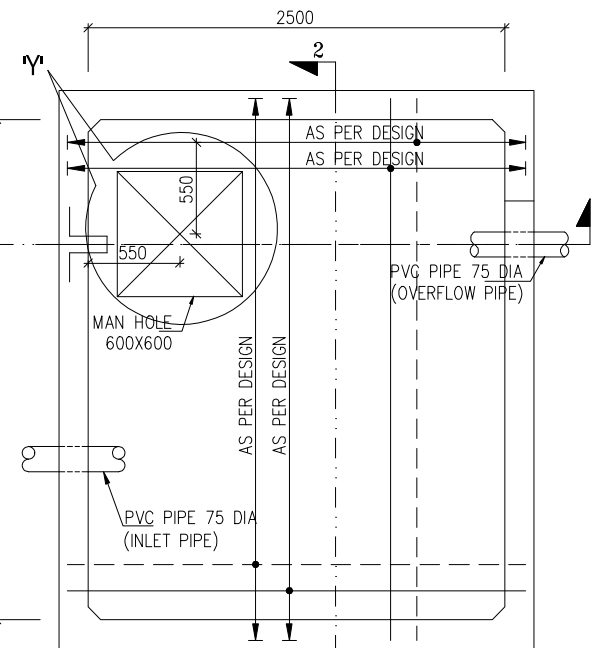
TENTATIVE OIL STORAGE SUMP FOR 15,000 LTR. CAPACITY AT 66kV GOTHAN-II (GIS) SUB-STATION						
CHECKED:			APPD:			
JE (CIVIL)	DE (CIVIL)	EE (CIVIL)	SE (ENGG.)	I/C ACE (ENGG.)		SIZE: A1
SCALE:	DATE:		DRG. NO:		SHEET:	REV:
N.T.S	01.06.26		GETCO / C / 06S-670 / OS-1		1 OF 1	R0

R0	FIRST PREPARATION
REV:	DESCRIPTION

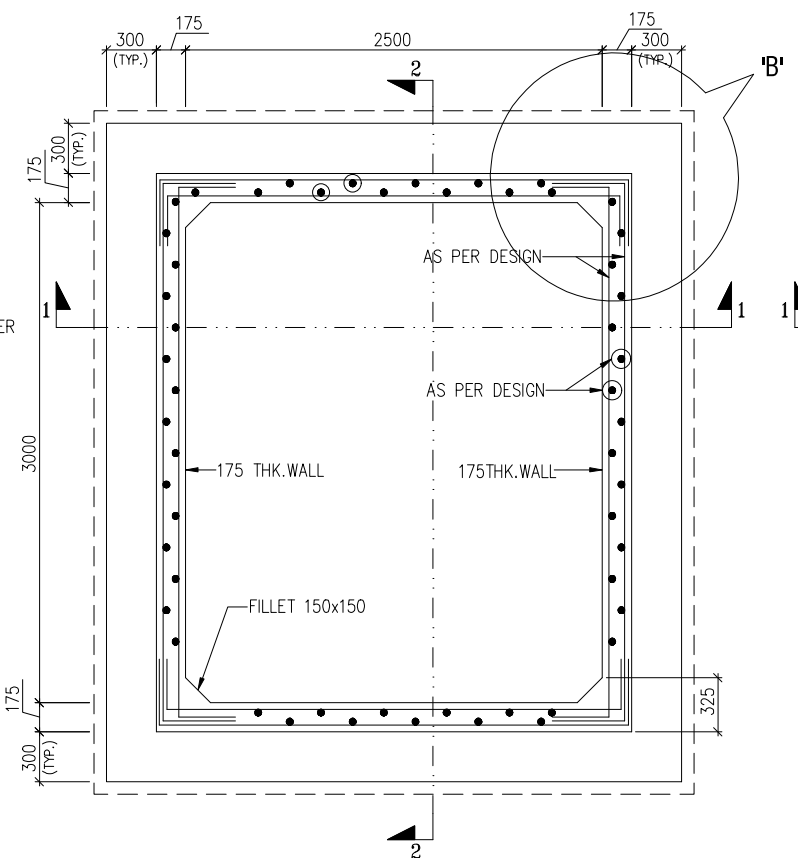




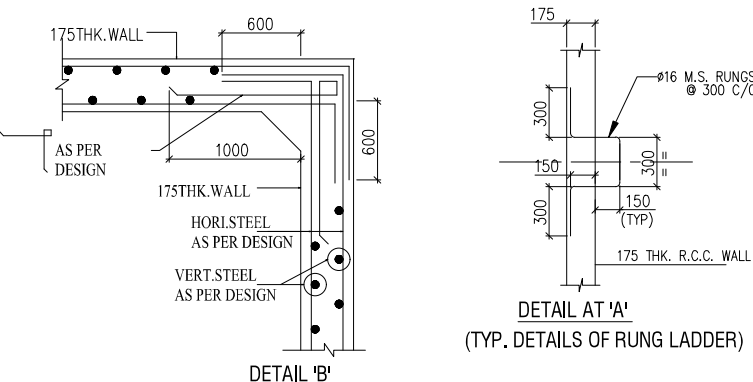
TYP. CONST. JOINT WITH FILLET DETAILS



TOP PLAN OF WATER TANK

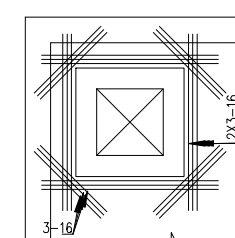


### PLAN OF WATER TANK



DETAIL AT 'A'

(TYP. DETAILS OF RUNG LADDER)



DETAIL Y

**SPECIAL NOTES:-**

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**IMPORTANT NOTES**  
**A GENERAL**

1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED & LEVELS ARE IN METER.
2. DO NOT SCALE THE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. THE DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWING I.E. ARCHITECTURAL, ELECTRICAL & STRUCTURAL DRAWING. (GA DRAWING OF MANUFACTURER)
4. ALL THE WORK SHALL BE CARRIED OUT AS PER RELEVANT FIELD QUALITY PLAN APPROVED BY GETCO.
5. IN CASE OF ANY DOUBT OR DISCREPANCIES, PLEASE CONTACT ENGG. CELL. NO ASSUMPTIONS SHALL BE MADE.
6. ALL SAFETY PRECAUTIONS AS MENTIONED IN ELECTRICAL LAYOUT, SAFETY MANUAL & RELEVANT STANDARD CODES SHALL BE SCRUPULOUSLY FOLLOWED WHILE EXECUTION OF WORK.

**B CONCRETE**

7. THE CEMENT SHALL BE ORDINARY PORTLAND CEMENT WITH C3A CONTENT FROM 5 TO 8 % FOR ALL CIVIL WORK.
8. ALL THE RCC WORK SHALL BE CARRIED OUT AS PER IS 456-2000, WITH LATEST REVISION.
9. THE GRADE OF CONCRETE SHALL BE **M-20**, WITH MINIMUM CEMENT CONTENT OF 400 KG/M<sup>3</sup>, EXCEPT LEAN CONCRETE MIX DESIGN SHALL BE DONE CONSIDERING SEVERE ENVIRONMENT EXPOSURE CONDITIONS.
10. THE GRADE OF LEAN CONCRETE SHALL BE **M-15**
11. CONCRETING OF CIVIL WORKS UNDER BIDDER SCOPE FOR GRADE OF M30, M25 & M20 SHALL BE DONE WITH THE HELP OF DIGITAL WEIGH BATCHER OR FLORI (MOBILE CONCRETE BATCHING PLANT) ONLY.
12. ALL CONCRETE SHALL BE MACHINE MIXED, VIBRATED & CURED FOR MINIMUM 10 DAYS.
13. USE OF NEEDLE VIBRATOR IS COMPULSORY FOR ALL CONCRETE WORKS.

**C REINFORCEMENT**

14. REINFORCEMENT BARS SHALL BE TMT (THERMO MECHANICALLY TREATED) OF GRADE FE-500/550D/550 BARS CONFORMING TO IS 1786(LATEST REVISION) COATED WITH FUSION BONDED EPOXY COATING AS PER IS-3620(LATEST REVISION)
15. REINFORCEMENT SHALL BE BENT & FIXED IN ACCORDANCE WITH THE PROCEDURE SPECIFIED IN IS 2502-1963.
16. CLEAR COVER TO THE REINFORCEMENT SHALL BE AS UNDER

	TOP	BOTTOM	SIDES
• FOOTING (RAFT & ISOLATED)	50	75	50
• PILE CAPS	50	100	50
• PILE	75	75	75
• GRADE BEAM	-	40	40
• COLUMNS & PEDESTALS	50	-	50
• BEAMS ABOVE GROUND LEVEL	35	35	35
• GRADE SLAB	25	25	25
• LINTEL BEAMS	25	25	25
• SLABS & STAIRCASE	25	25	25
• CABLE TRENCHES BASE SLAB	20	35	35
• WALL	20	35	35

17. LAP LENGTH SHOULD BE 50 TIMES OF DIA.
18. LAP AT SUPPORT SECTION, JOINT SECTION & MID SPAN SHALL BE AVOIDED.
19. OVERLAPPING OF REINFORCEMENT SHALL BE STAGGERED.
20. UNLESS OTHERWISE SPECIFIED DISTN., STEEL SHOULD BE 8 MM, TOR @ 200 MM, C/C.
21. IN CASE OF CONTINUOUS SUPPORT, REINFORCEMENTS ARE DIFFERENT FOR TWO ADJACENT BEAMS / SLABS, THE HIGHER SUPPORT REINFORCEMENT OF THE TWO SHALL BE PROVIDED AT THE SUPPORT

**D FOUNDATION**

22. IN THE COURSE OF EXCAVATION, IF SUB SOIL STRATA DIFFERS IN COMPARE TO SBC REPORT, THE SAME SHALL BE REPORTED TO THE CONCERN FOR NECESSARY STEPS BY THE ENGINEERING CELL.
23. LAY-OUT, LINE-OUT & ORIENTATION SHALL BE CHECKED JOINTLY BY E, E, / D, E, - (CIVIL) & E, E, / D, E, - (CONST), ON THE BASIS OF APPROVED ELECTRICAL LAY-OUT, GA DRAWING & THIS DRAWING, PRIOR TO START THE WORK.
- **FOR OPEN FOUNDATION**
24. NO FOUNDATION SHALL BE RESTED ON FILLED-UP SOIL / BLACK COTTON SOIL.
- IF FILLED UP SOIL ENCOUNTERED, FOUNDATION SHALL BE TAKEN 300 MM BELOW VIRGIN SOIL.
- IF FOUNDATION FALLS ON EXCAVATED TRENCHES OF ADJOINING FOUNDATION, THAN FOUNDATION SHALL EXTENDED UP TO THE DEPTH OF ADJOINING FOUNDATION.
- IF BLACK COTTON SOIL ENCOUNTERED, AT FOUNDATION DEPTH, THAN FOUNDATION SHALL REST ON COMPACTED SAND BED OF 300MM THICK.
25. BACK FILLING OF FOUNDATION TRENCHES SHALL BE DONE WITH USE OF NON COHESIVE SOIL ONLY.
- THE BACK FILLING AROUND THE FOUNDATION SHALL BE ADEQUATE TO ACHIEVE THE PROCTOR DENSITY OF 95%.
- **FOR PILE FOUNDATION**
26. THE GRADE OF CONCRETE SHALL BE M-30 FOR PILE CAP, COLUMN, BEAM, RAFT, ETC., EXCEPT LEAN CONCRETE.
27. THE GRADE OF CONCRETE FOR PILE SHALL BE M-30, CONFORMING TO IS 456 WITH MINIMUM CEMENT CONTENT AS 450 kg / M<sup>3</sup>, WITH TREMIE CONCRETE.
28. CONCRETE SLUMP SHALL BE 120 TO 150MM, (VERY HIGH DEGREE OF WORKABILITY) FOR PILE FOUNDATION WITH MINIMUM 10% FREE WATER.
29. FOR CONSTRUCTION SPECIFICATION OF IS 2911 (PART-III), LATEST REVISION SHALL BE FOLLOWED.
30. THE PILE SHOULD PROJECT 100MM. IN TO THE PILE CAP CONCRETE.
31. INTEGRITY TEST TO BE DONE FOR ALL PILES, PRIOR TO CAST PILE CAP.
32. INITIAL AND ROUTINE PILE LOAD TEST SHALL BE CARRIED OUT FOR EACH CATEGORY OF PILE(I.E. FOR COMPRESSION, PULL OUT & LATERAL LOAD CAPACITY) AS PER PROVISION OF IS 2911-PART-IV-LATEST REVISION. TEST RESULTS SHALL BE COMPARED WITH RECOMMENDED VALUE GIVEN IN APPROVED SOIL INVESTIGATION REPORT PRIOR TO START OF WORKING PILE.
33. PILE CONCRETE SHALL BE DONE WITH MINIMUM LEAD TIME AFTER 'PILE BORE' IS ACCEPTED & CLEARED FOR REINFORCEMENT PLACEMENT AND CONCRETING. IN NO CASE, PILE BORE SHALL REMAIN OPEN FOR MORE THAN FOUR HOURS AFTER ACCEPTANCE
- **FOR HARD ROCK**
34. CARE SHOULD BE TAKEN TO REMOVE LOOSENED PIECES OF ROCK SO AS TO REST THE FOUNDATION ON UNDISTURBED ROCK MASS.
35. WASHING & AIR JETTING SHALL BE DONE SO THAT THE FOUNDATION REST ON PRACTICALLY UNDISTURBED ROCK.
36. RAFT SHALL NOT OVERHANG AT ANY CORNERS, ELSE EXCAVATE THE FILLED UP SOIL AND BACK FILL IT BY LEAN CONCRETE OF REQUIRED STRENGTH UP TO FOUNDATION LEVEL.
37. HARD ROCK STRATA SHALL BE CLASSIFIED WHERE CHISELING, DRILLING AND BLASTING IS REQUIRED FOR EXCAVATION, THESE INCLUDE HARD SAND STONE, QUARTZITE, GRANITE, BASALT, HARD MARBLE ETC (REF: CBP MANUAL CH.NO. 101 CL. NO.10, 7IN PAGE-219)
38. SOFT ROCK / FISSURED ROCK FOUNDATION SHALL BE CLASSIFIED WHEN DECOMPOSED OR FISSURED ROCK, HARD GRAVEL, KANKAR, LIME STONE, LATERITE OR ANY OTHER SOIL OF SIMILAR NATURE IS MET WHICH CAN BE EXCAVATED WITHOUT BLASTING.(CBP MANUAL, CH. NO. 10, CL. NO. 10.7(g), P. NO. : 219)
39. ANCHOR BAR OF SUFFICIENT CAPACITY SHALL BE GROUTED IN HARD ROCK WITH GROUTING MATERIAL AS PER BOQ.

**E FOUNDATION BOLT**

40. BEFORE CONCRETING, LOCATION OF FOUNDATION BOLT SHALL BE CHECKED & APPROVED BY ENGINEER IN CHARGE.
41. FOUNDATION BOLT SHALL BE CONNECTED TO REINFORCEMENT CAGE BY MEANS OF 12 MM. DIA. BAR, (TO PROVIDE THE EARTHING TO THE FOUNDATION)
42. IF FOUNDATION BOLTS FOUL WITH STIRRUPS, STIRRUPS MAY BE ADJUSTED AT SITE.

**F SPECIAL NOTE:-**

43. 15MM THK. CEMENT PLASTER WITH WATER PROOFING COMPOUND CHEMICAL SHALL BE APPLIED AT INSIDE WALL OF THE RCC TANK.
44. THICKNESS OF RCC WALL, THICKNESS OF RAFT AND REINFORCEMENT DETAILS SHOWN IN THE DRAWING ARE MINIMUM TO BE PROVIDED BUT IT MAY EXCEED AS PER ACTUAL SITE CONDITION.
45. THIS DRAWING IS GIVEN FOR BID PURPOSE ONLY. HOWEVER, BIDDER HAS TO DEVELOP CONSTRUCTION DRAWINGS AND RELEVANT STRUCTURE DRAWINGS ON THE BASIS OF THIS DRAWING, APPROVED LAY OUT OF SUB STATION, TENDER SPECIFICATION, SBC REPORT, SITE CONDITION, CONTOUR MAP AND AS PER CODES & STANDARDS.
46. CERTAIN MINIMUM REQUIREMENTS ARE INDICATED IN THIS DRAWING FOR GUIDANCE PURPOSE, HOWEVER BIDDER SHALL QUOTE THE RATES ACCORDING TO SYSTEM REQUIREMENTS.
47. DIMENSION SHOWN IN THIS DRAWING IS MINIMUM REQUIRED & BIDDER CAN NOT DECREASE THE SAME, HOWEVER, IT SHALL INCREASED DURING DETAILED ENGINEERING AS PER RELEVANT CODES & STANDARD
48. LENGTH OF ALL 'L' SHOULD BE AT LEAST 150MM.


TENDER PURPOSE



**GUJARAT ENERGY TRANSMISSION CORPN.LTD.**

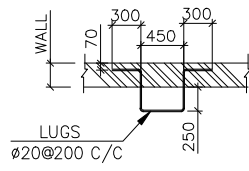
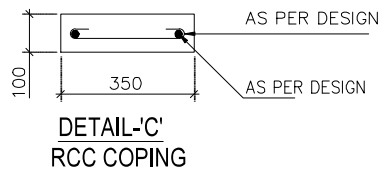
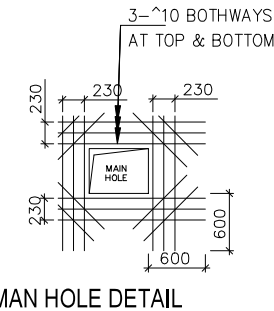
S.P.VIDYUT BHAVAN, RACE COURSE  
VADODARA - 390 007

### TENTATIVE DETAILS OF UNDERGROUND WATER TANK AT 66kV GOTHAN-II (GIS) SUB-STATION

CHECKED:			APPD:		
JE (CIVIL)	DE (CIVIL)	EE(CIVIL)	SE (ENGG.)	I/C ACE (ENGG)	
SCALE:	DATE:	DRG. NO:	SHEET:		REV:
N.T.S	01.06.26	GETCO / C / 06S-670/UGWS-020		1 OF 1	R0

1	TENTATIVE LAYOUT PLAN OF 66KV GOTHAN-II S/S, DRG. NO. GETCO/E/6S-670/P-005, REV. R0, DATE.01.06.2026
SR NO.	REFERENCE

R0	FIRST PREPARATION
REV:	DESCRIPTION



TYP. DETAIL OF RUNG LADDER

1	TENTATIVE LAYOUT PLAN OF 66KV GOTHAN-II S/S, DRG. NO. GETCO/E/6S-670/P-005, REV. R0, DATE.01.06.2026
<u>SR NO.</u>	<u>REFERENCE</u>

**IMPORTANT NOTES**

**A GENERAL**

1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED & LEVELS ARE IN METER.
2. DO NOT SCALE THE DRAWING, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. THE DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWING I.E. ARCHITECTURAL, ELECTRICAL & STRUCTURAL DRAWING, (GA DRAWING OF MANUFACTURER)
4. ALL THE WORK SHALL BE CARRIED OUT AS PER RELEVANT FIELD QUALITY PLAN APPROVED BY GETCO.
5. IN CASE OF ANY DOUBT OR DISCREPANCIES, PLEASE CONTACT ENGG. CELL, NO ASSUMPTIONS SHALL BE MADE.
6. ALL SAFETY PRECAUTIONS AS MENTIONED IN ELECTRICAL LAYOUT, SAFETY MANUAL & RELEVANT STANDARD CODES, SHALL BE SCRUPULOUSLY FOLLOWED WHILE EXECUTION OF WORK.

**B CONCRETE**

7. THE CEMENT SHALL BE ORDINARY PORTLAND CEMENT WITH C3A CONTENT FROM 5 TO 8 % FOR ALL CIVIL WORK.
8. ALL THE RCC WORK SHALL BE CARRIED OUT AS PER IS 456-2000, WITH LATEST REVISION.
9. THE GRADE OF CONCRETE SHALL BE **M-20**, WITH MINIMUM CEMENT CONTENT OF 400 KG/M<sup>3</sup>. **EXCEPT** LEAN CONCRETE MIX DESIGN SHALL BE DONE CONSIDERING 'SEVERE ENVIRONMENT' EXPOSURE CONDITIONS.
10. THE GRADE OF LEAN CONCRETE SHALL BE **M-15**
11. CONCRETING OF ALL CIVIL WORKS UNDER BIDDER SCOPE FOR GRADE OF M30, M25 & M20 SHALL BE DONE WITH THE HELP OF DIGITAL WEIGH BATCHER OR FLORI ( MOBILE CONCRETE BATCHING PLANT) ONLY.
12. ALL CONCRETE SHALL BE MACHINE MIXED, VIBRATED & CURED FOR MINIMUM 10 DAYS.
13. USE OF NEEDLE VIBRATOR IS COMPULSORY FOR ALL CONCRETE WORKS.

**C REINFORCEMENT**

14. REINFORCEMENT BARS SHALL BE TMT (THERMO MECHANICALLY TREATED) OF GRADE FE-500/550D/550 BARS CONFIRMING TO IS 1786(LATEST REVISION) COATED WITH FUSION BONDED EPOXY COATING AS PER IS-13620(LATEST REVISION)
15. REINFORCEMENT SHALL BE BENT & FIXED IN ACCORDANCE WITH THE PROCEDURE SPECIFIED IN IS 2502-1963.
16. CLEAR COVER TO THE REINFORCEMENT SHALL BE AS UNDER

	TOP	BOTTOM	SIDES
• FOOTING (RAFT & ISOLATED)	50	75	50
• PILE CAPS	50	100	50
• PILE	75	75	75
• GRADE BEAM	-	40	40
• COLUMNS & PEDESTALS	50	-	50
• BEAMS ABOVE GROUND LEVEL	35	35	35
• GRADE SLAB	25	25	25
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• SLABS & STAIRCASE	25	25	25
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20. UNLESS OTHERWISE SPECIFIED DISTN., STEEL SHOULD BE 8 MM. TOR @ 200 MM, C/C.
21. IN CASE OF CONTINUOUS SUPPORT, REINFORCEMENTS ARE DEFERENT FOR TWO ADJACENT BEAMS / SLABS, THE HIGHER SUPPORT REINFORCEMENT OF THE TWO SHALL BE PROVIDED AT THE SUPPORT

**D FOUNDATION**

22. IN THE COURSE OF EXCAVATION, IF SUB SOIL STRATA DIFFERS IN COMPARE TO SRC REPORT, THE SAME SHALL BE REPORTED TO THE CONCERN FOR NECESSARY STEPS BY THE ENGINEERING CELL.
23. LAY-OUT, LINE-OUT & ORIENTATION SHALL BE CHECKED JOINTLY BY E. E. / D. E. - (CIVIL) & E. E. / D. E. - (CONST), ON THE BASIS OF APPROVED ELECTRICAL LAY-OUT, GA DRAWING & THIS DRAWING, PRIOR TO START THE WORK.

**FOR OPEN FOUNDATION**

24. NO FOUNDATION SHALL BE RESTED ON FILLED-UP SOIL / BLACK COTTON SOIL.
- IF FILLED UP SOIL ENCOUNTERED, FOUNDATION SHALL BE TAKEN 300 MM BELOW VIRGIN SOIL.
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30. THE PILE SHOULD PROJECT 100MM. IN TO THE PILE CAP CONCRETE.
31. INTEGRITY TEST TO BE DONE FOR ALL PILES, PRIOR TO CAST PILE CAP.
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33. PILE CONCRETE SHALL BE DONE WITH MINIMUM LEAD TIME AFTER 'PILE BORE' IS ACCEPTED & CLEARED FOR REINFORCEMENT PLACEMENT AND CONCRETING. IN NO CASE, PILE BORE SHALL REMAIN OPEN FOR MORE THAN FOUR HOURS AFTER ACCEPTANCE

**FOR HARD ROCK**

34. CARE SHOULD BE TAKEN TO REMOVE LOOSENED PIECES OF ROCK SO AS TO REST THE FOUNDATION ON UNDISTURBED ROCK MASS.
35. WASHING & AIR JETTING SHALL BE DONE SO THAT THE FOUNDATION REST ON PRACTICALLY UNDISTURBED ROCK.
36. RAFT SHALL NOT OVERHANG AT ANY CORNERS, ELSE EXCAVATE THE FILLED UP SOIL AND BACK FILL IT BY LEAN CONCRETE OF REQUIRED STRENGTH UP TO FOUNDATION LEVEL.
37. HARD ROCK STRATA SHALL BE CLASSIFIED WHERE CHISELING, DRILLING AND BLASTING IS REQUIRED FOR EXCAVATION. THESE INCLUDE HARD SAND STONE, QUARTZITE, GRANITE, BASALT, HARD MARBLE ETC (REF: CBIP MANUAL CH NO: 10, CL NO.10.7(h) PAGE-219)
38. SOFT ROCK / FISSURED ROCK FOUNDATION SHALL BE CLASSIFIED WHEN DECOMPOSED OR FISSURED ROCK, HARD GRAVEL, KANKAR, LIME STONE, LATERITE OR ANY OTHER SOIL OF SIMILAR NATURE IS MET WHICH CAN BE EXCAVATED WITHOUT BLASTING.(CBIP MANUAL, CH. NO.: 10, CL. NO. 10.7(g), P. NO.: 219)
39. ANCHOR BAR OF SUFFICIENT CAPACITY SHALL BE GROUTED IN HARD ROCK WITH GROUTING MATERIAL AS PER BOQ.

**E SPECIAL NOTE:-**


1. THIS DRAWING IS GIVEN FOR BID PURPOSE ONLY, HOWEVER, BIDDER HAS TO DEVELOP CONSTRUCTION DRAWINGS AND RELEVANT STRUCTURE DRAWINGS ON THE BASIS OF THIS DRAWING, APPROVED LAY OUT OF SUB STATION, TENDER SPECIFICATION, SBC REPORT, SITE CONDITION, CONTOUR MAP AND AS PER CODES & STANDARDS.
2. CERTAIN MINIMUM REQUIREMENTS ARE INDICATED IN THIS DRAWING FOR GUIDANCE PURPOSE. HOWEVER BIDDER SHALL QUOTE THE RATES ACCORDING TO SYSTEM REQUIREMENTS.
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4. LENGTH OF ALL 'L' SHOULD BE AT LEAST 150MM.

## TENDER PURPOSE



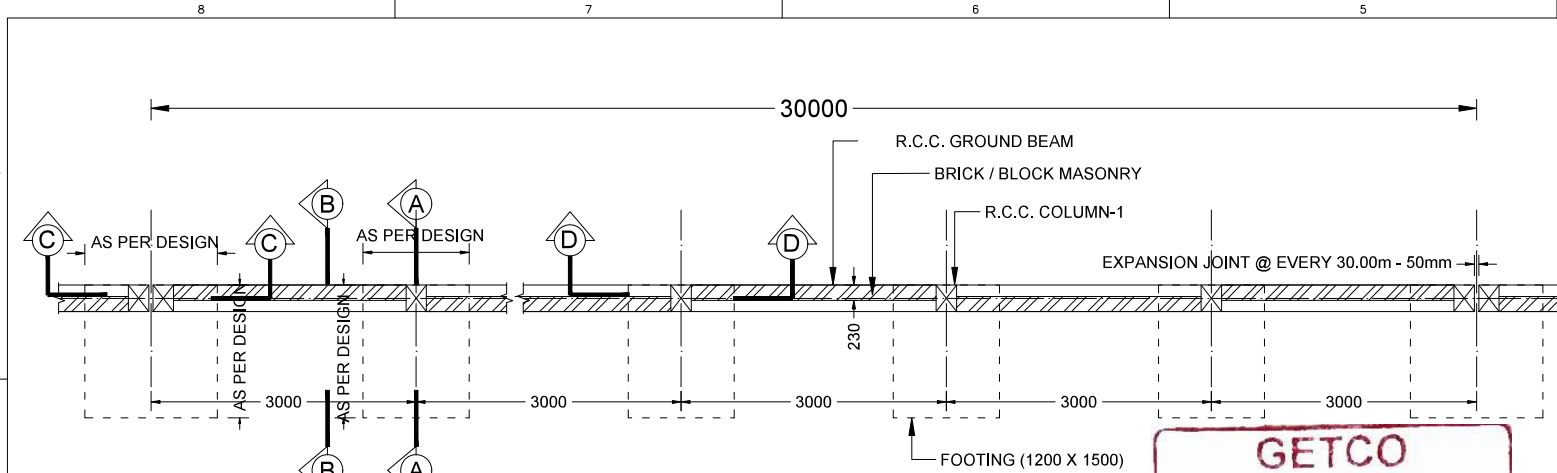
**GUJARAT ENERGY TRANSMISSION CORPN.LTD.**  
S.P.VIDYUT BHAVAN, RACE COURSE,  
VADODARA - 390 007

### **TENTATIVE DETAILS OF SEPTIC TANK AND SOAK PIT AT 66kV GOTHAN-II (GIS) SUB-STATION**

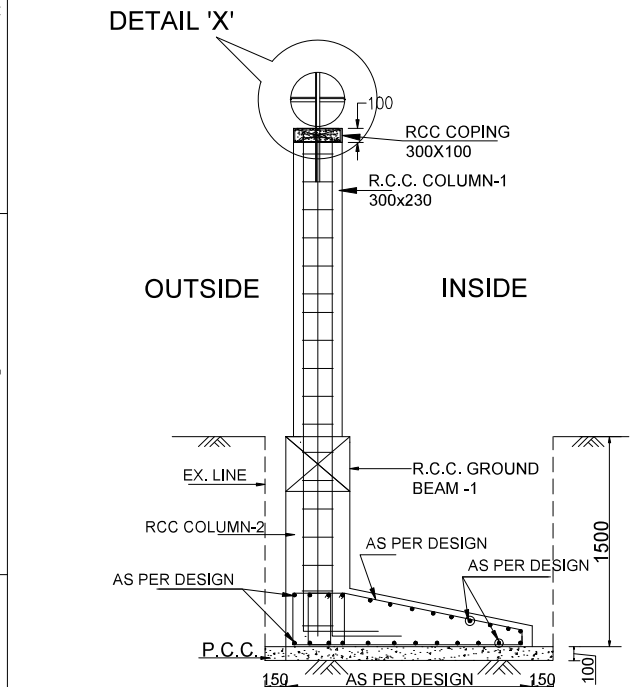
CHECKED:			APPD:		
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SCALE:	DATE:		DRG. NO:	SHEET:	REV:
N.T.S	01.06.26		GETCO / C/ 6S-670/ST&SP-020	1 OF 1	R0



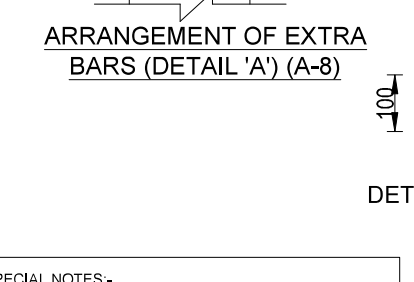
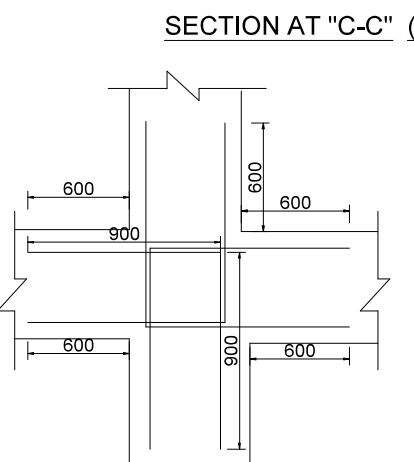
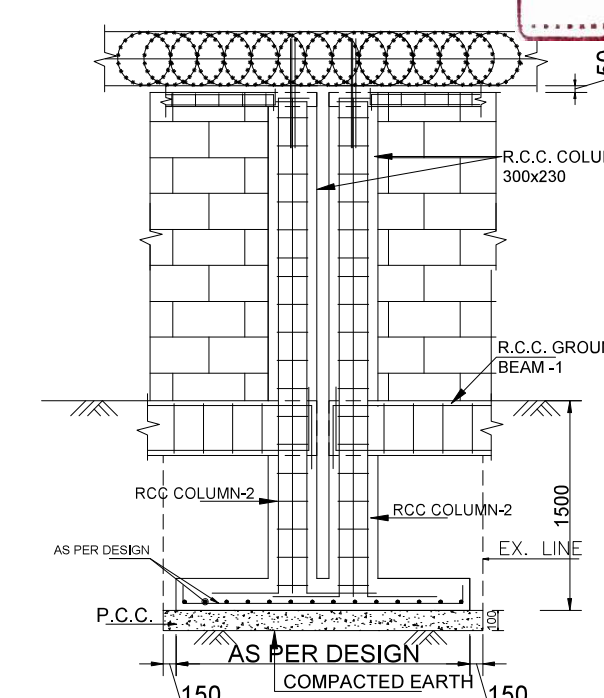




TYP. PLAN OF COMPOUND WALL

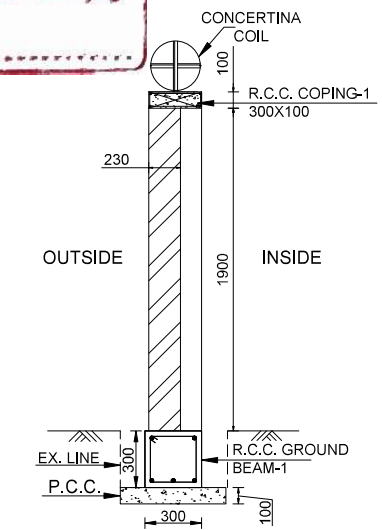


SECTION AT "A-A"

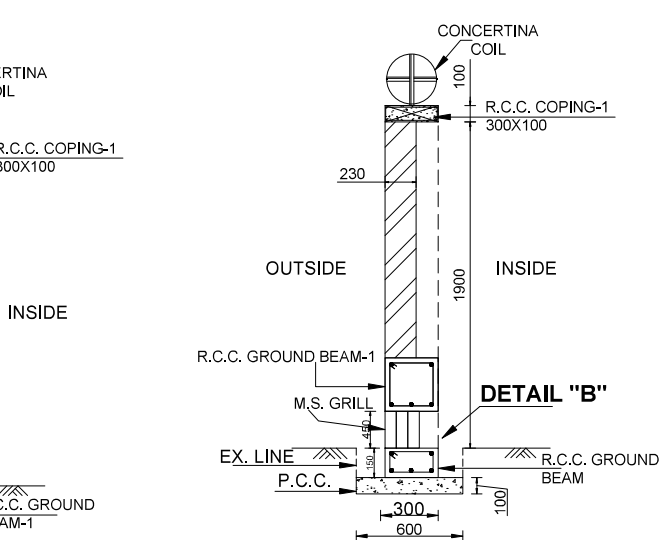
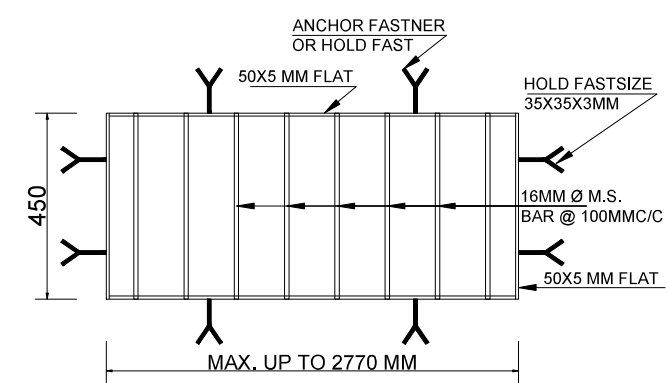
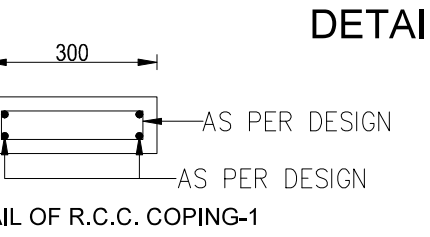
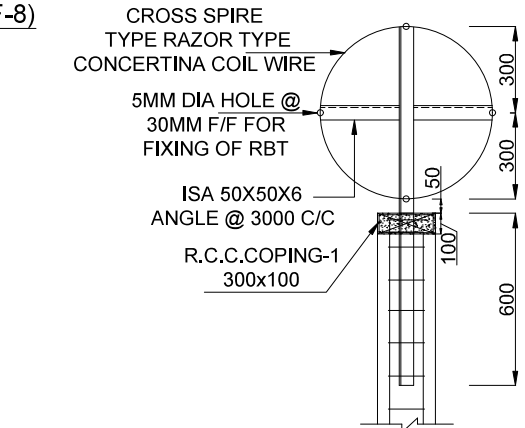


SPECIAL NOTES:-  
PLEASE NOTE THAT DIMENSIONS / DETAILS SHOWN IN THIS DRAWINGS ARE MINIMUM REQUIREMENT WHICH IS TO BE STRICTLY FOLLOWED. BIDDER IS REQUESTED TO ADD FURTHER DETAILS / ITEMS AS PER ACTUAL REQUIREMENTS BASED ON SITE CONDITIONS, FUNCTIONAL REQUIREMENT, I.S. CODE AND STANDARDS, SOIL STRATA, ENVIRONMENTAL CONDITIONS ETC.

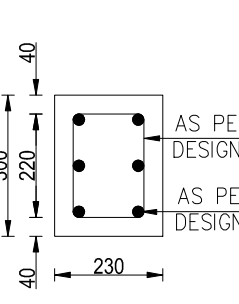
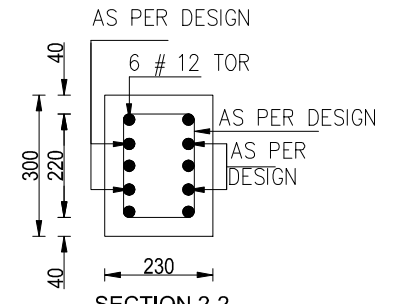
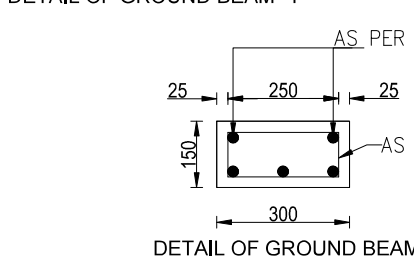
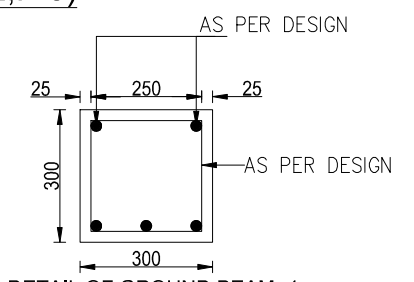
GETCO  
Controlled Copy



SECTION B-B(E,F-8)



SECTION B-B (E,F-8)  
(WHERE GRILL IS TO BE PROVIDED AS PER SITE REQUIREMENT)



**IMPORTANT NOTES**

**A GENERAL**

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- ALL THE RCC WORK SHALL BE CARRIED OUT AS PER IS 456-2000, WITH LATEST REVISION.
- THE GRADE OF CONCRETE SHALL BE M-20, WITH MINIMUM CEMENT CONTENT OF 400 KG/M<sup>3</sup>. EXCEPT LEAN CONCRETE MIX DESIGN SHALL BE DONE CONSIDERING 'SEVERE ENVIRONMENT' EXPOSURE CONDITIONS.
- THE GRADE OF LEAN CONCRETE SHALL BE M-15.
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- ALL CONCRETE SHALL BE MACHINE MIXED, VIBRATED & CURED FOR MINIMUM 10 DAYS.
- USE OF NEEDLE VIBRATOR IS COMPULSORY FOR ALL CONCRETE WORKS.

**C REINFORCEMENT**

- REINFORCEMENT BARS SHALL BE TMT (THERMO MECHANICALLY TREATED) OF GRADE FE-500/500D/550 BARS CONFORMING TO IS 1786(LATEST REVISION) COATED WITH FUSION BONDED EPOXY COAT-ING AS PER IS-13620(LATEST REVISION).
- REINFORCEMENT SHALL BE BENT & FIXED IN ACCORDANCE WITH THE PROCEDURE SPECIFIED IN IS 2502-1963.
- CLEAR COVER TO THE REINFORCEMENT SHALL BE AS UNDER

	TOP	BOTTOM	SIDES
FOOTING (RAFT & ISOLATED)	50	75	50
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- IN CASE OF CONTINUOUS SUPPORT, REINFORCEMENTS ARE DEFERENT FOR TWO ADJACENT BEAMS / SLABS, THE HIGHER SUPPORT REINFORCEMENT OF THE TWO SHALL BE PROVIDED AT THE SUPPORT

**D FOUNDATION**

- IN THE COURSE OF EXCAVATION, IF SUB SOIL STRATA DIFFERS IN COMPARE TO SBC REPORT, THE SAME SHALL BE REPORTED TO THE CONCERN FOR NECESSARY STEPS BY THE ENGINEERING CELL.
- LAY-OUT, LINE-OUT & ORIENTATION SHALL BE CHECKED JOINTLY BY E. E. / D. E. - (CIVIL) & E. E. / D. E. - (CONST), ON THE BASIS OF APPROVED ELECTRICAL LAY-OUT, GA DRAWING & THIS DRAWING, PRIOR TO START THE WORK.

**FOR OPEN FOUNDATION**

- NO FOUNDATION SHALL BE RESTED ON FILLED-UP SOIL / BLACK COTTON SOIL.
- IF FILLED UP SOIL ENCOUNTERED, FOUNDATION SHALL BE TAKEN 400 MM BELOW VIRGIN SOIL.
- IF FOUNDATION FALLS ON EXCAVATED TRENCHES OF ADJOINING FOUNDATION, THAN FOUNDATION SHALL EXTENDED UP TO THE DEPTH OF ADJOINING FOUNDATION.
- IF BLACK COTTON SOIL ENCOUNTERED, AT FOUNDATION DEPTH, THAN FOUNDATION SHALL REST ON COMPACTED SAND BED OF 300MM THICK.

**FOR PILE FOUNDATION**

- BACK FILLING OF FOUNDATION TRENCHES SHALL BE DONE WITH USE OF NON COHESIVE SOIL ONLY.
- THE BACK FILLING AROUND THE FOUNDATION SHALL BE ADEQUATE TO ACHIEVE THE PROCTOR DENSITY OF 95%.

- THE GRADE OF CONCRETE SHALL BE M-30 FOR PILE CAP, COLUMN, BEAM, RAFT, ETC. EXCEPT LEAN CONCRETE.
- THE GRADE OF CONCRETE FOR PILE SHALL BE M-30, CONFIRMING TO IS 456 WITH MINIMUM CEMENT CONTENT AS 450 kg. / M<sup>3</sup> WITH TREMIE CONCRETE.
- CONCRETE SLUMP SHALL BE 120 TO 150MM, (VERY HIGH DEGREE OF WORKABILITY) FOR PILE FOUNDATION WITH TREMIE CONCRETE.
- FOR CONSTRUCTION SPECIFICATION OF IS 2911 (PART-III), LATEST REVISION SHALL BE FOLLOWED.
- THE PILE SHOULD PROJECT 100MM, IN TO THE PILE CAP CONCRETE.
- INTEGRITY TEST TO BE DONE FOR ALL PILES, PRIOR TO CAST PILE CAP.
- INITIAL AND ROUTINE PILE LOAD TEST SHALL BE CARRIED OUT FOR EACH CAPACITY OF PILE(I.E. FOR COMPRESSION, PULL OUT & LATERAL LOAD CAPACITY) AS PER PROVISION OF IS 2911-PART-IV-LATEST REVISION, TEST RESULTS SHALL BE COMPARED WITH RECOMMENDED VALUE GIVEN IN APPROVED SOIL INVESTIGATION REPORT PRIOR TO START OF WORKING PILE.
- PILE CONCRETE SHALL BE DONE WITH MINIMUM LEAD TIME AFTER 'PILE BORE' IS ACCEPTED & CLEARED FOR REINFORCEMENT PLACEMENT AND CONCRETING. IN NO CASE, PILE BORE SHALL REMAIN OPEN FOR MORE THAN FOUR HOURS AFTER ACCEPTANCE

**FOR HARD ROCK**

- CARE SHOULD BE TAKEN TO REMOVE LOOSENEED PIECES OF ROCK SO AS TO REST THE FOUNDATION ON UNDISTURBED ROCK MASS.
- WASHING & AIR JETTING SHALL BE DONE SO THAT THE FOUNDATION REST ON PRACTICALLY UNDISTURBED ROCK.
- RAFT SHALL NOT OVERHANG AT ANY CORNERS, ELSE EXCAVATE THE FILLED UP SOIL AND BACK FILL IT BY LEAN CONCRETE OF REQUIRED STRENGTH UP TO FOUNDATION LEVEL.
- HARD ROCK STRATA SHALL BE CLASSIFIED WHERE CHISELING, DRILLING AND BLASTING IS REQUIRED FOR EXCAVATION, THESE INCLUDE HARD SAND STONE, QUARTZITE, GRANITE, BASALT, HARD MARBLE ETC (REF. CBIP MANUAL CH NO. 10, CL NO.10.7(h) PAGE-219)
- SOFT ROCK / FISSURED ROCK FOUNDATION SHALL BE CLASSIFIED WHEN DECOMPOSED OR FISSURED ROCK, HARD GRAVEL, KANKAR, LIME STONE, LATERITE OR ANY OTHER SOIL OF SIMILAR NATURE IS MET WHICH CAN BE EXCAVATED WITHOUT BLASTING.(CBIP MANUAL, CH, NO. : 10, CL, NO.10.7(g), P. NO. : 219)
- ANCHOR BAR OF SUFFICIENT CAPACITY SHALL BE GROUTED IN HARD ROCK WITH GROUTING MATERIAL AS PER BOQ.

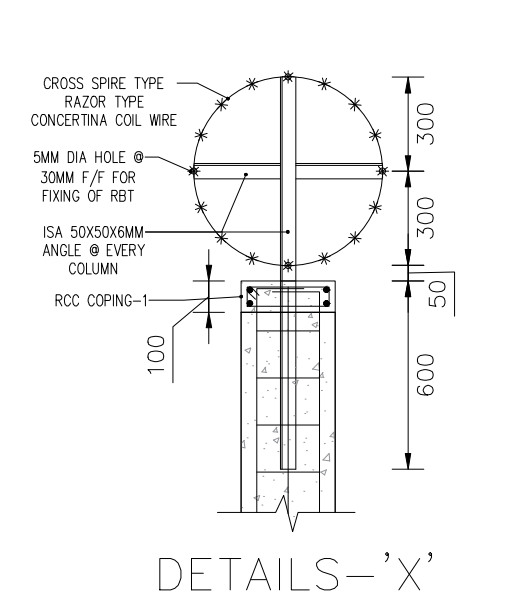
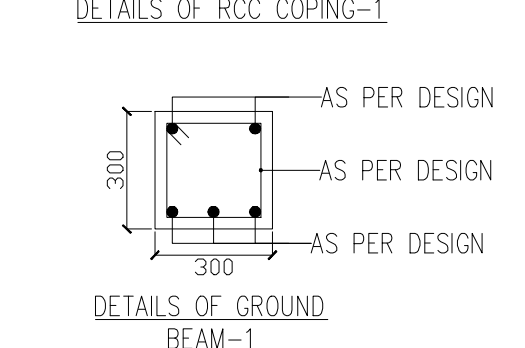
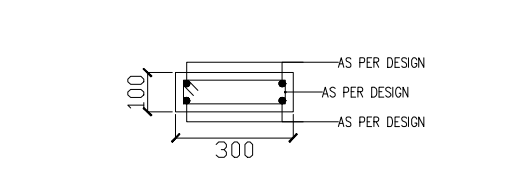
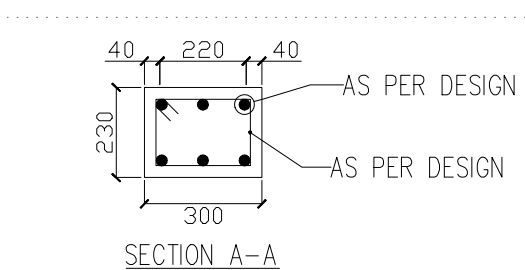
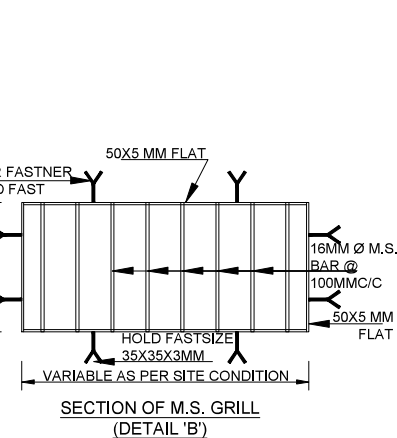
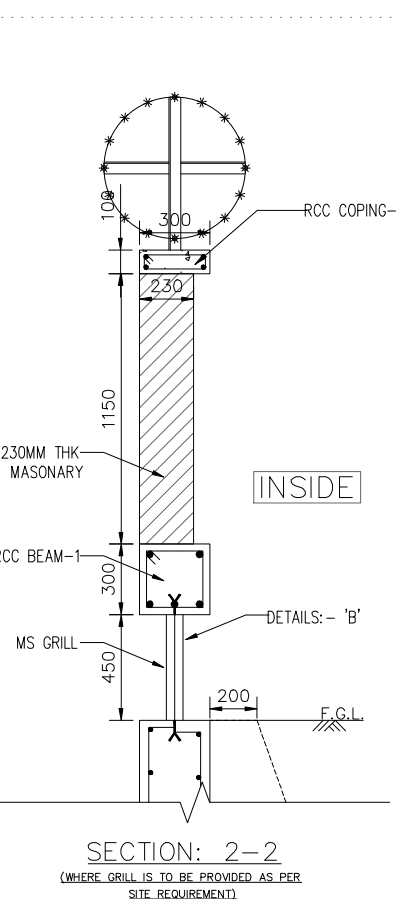
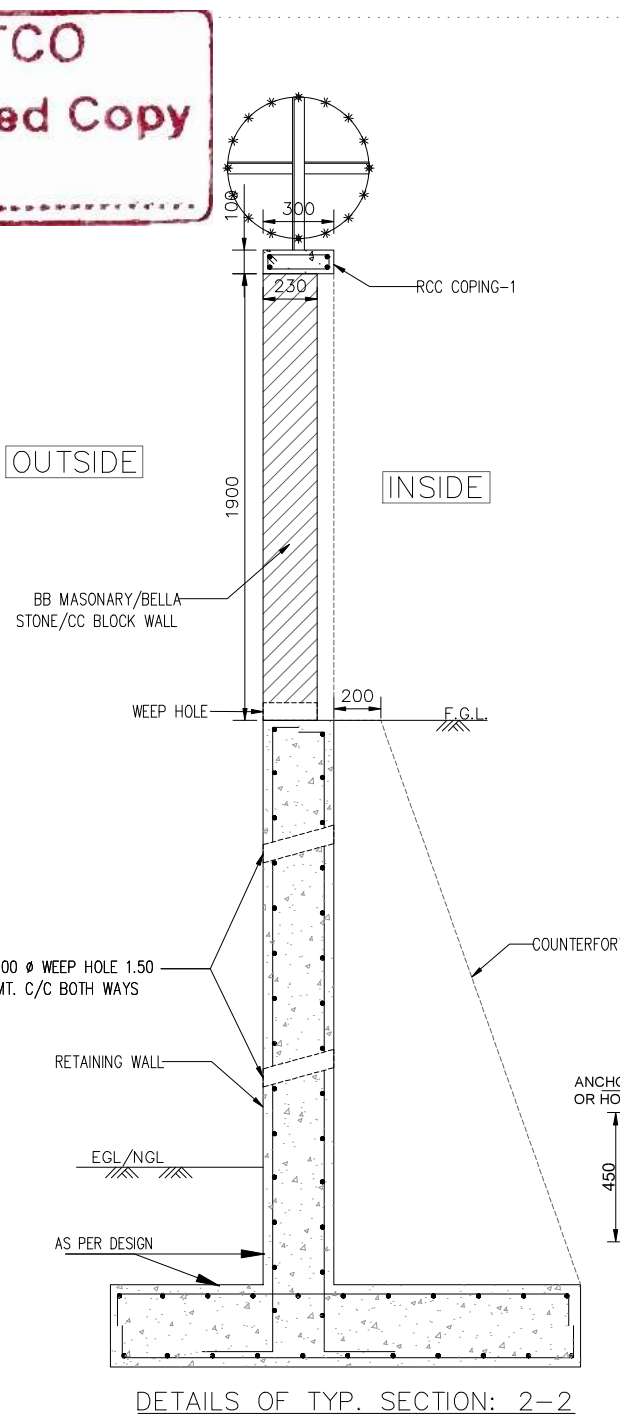
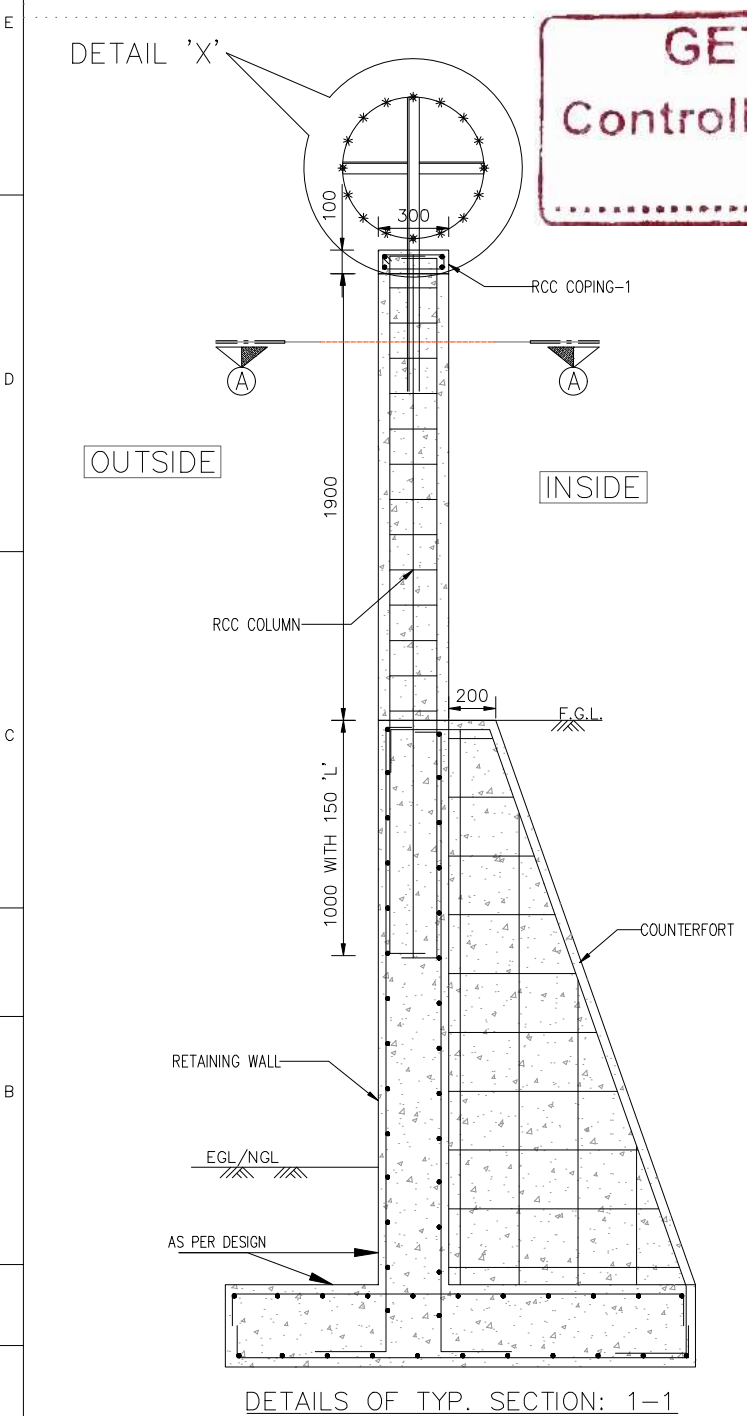
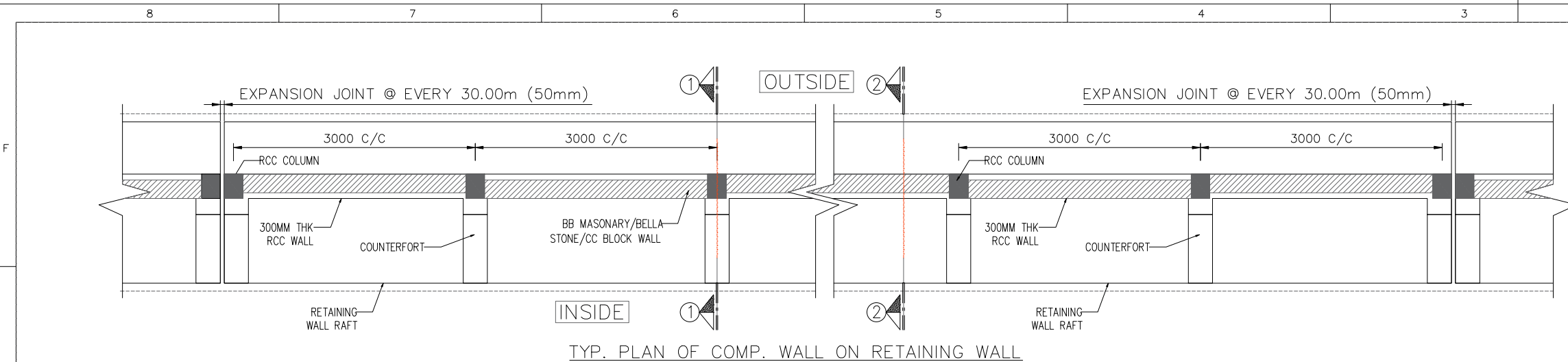
**E SPECIAL NOTE:-**

- FOR CEMENT PLASTER PATTERN & COLOUR PATTERN, PLEASE REFER CIRCULAR NO, GETCO / SE (C) / STREAM LINE / S / S / 590 DTD, 16.08.2005.
- 50MM, GAP FOR CONSTRUCTION JOINT SHALL BE PROVIDED AT EVERY 30 MTR. INTERVALS IN COMPOUND WALL.
- EE (CIVIL) SHALL DECIDE THE LOCATION OF M.S. GRILL TO BE PROVIDED IN COMPOUND WALL AS PER SITE REQUIREMENT.
- FOR RAINWATER DISPOSAL NECESSARY OPENINGS, SPOUTS, GRILLS ETC., SHALL BE PROVIDED OF APPROPRIATE SIZE & AS PER SITE REQUIREMENT.
- THE COMPOUND WALL SHALL BE CONSTRUCTED FOLLOWING THE NATURAL TOPOGRAPHY. ANY DIFFERENCES IN ELEVATION BETWEEN THE EXTERIOR AND INTERIOR GROUND LEVELS SHALL BE ACCOUNT FOR.
- THIS DRAWING IS GIVEN FOR BID PURPOSE ONLY, HOWEVER, BIDDER HAS TO DEVELOP CONSTRUCTION DRAWINGS AND RELEVANT STRUCTURE DRAWINGS ON THE BASIS OF THIS DRAWING, APPROVED LAY OUT OF SUB STATION, TENDER SPECIFICATION, SBC REPORT, SITE CONDITION, CONTOUR MAP AND AS PER CODES & STANDARDS.
- CERTAIN MINIMUM REQUIREMENTS ARE INDICATED IN THIS DRAWING FOR GUIDANCE PURPOSE, HOWEVER BIDDER SHALL QUOTE THE RATES ACCORDING TO SYSTEM REQUIREMENTS.
- DIMENSION SHOWN IN THIS DRAWING IS MINIMUM REQUIRED & BIDDER CAN NOT DECREASE THE SAME. HOWEVER, IT SHALL INCREASED DURING DETAILED ENGINEERING AS PER RELEVANT CODES & STANDARD
- LENGTH OF ALL 'L' SHOULD BE AT LEAST 150MM.

TENDER PURPOSE					
<b>GUJARAT ENERGY TRANSMISSION CORPN.LTD.</b>					
S.P.VIDYUT BHAVAN, RACE COURSE, VADODARA - 390 007					
<b>TENTATIVE FOUNDATION PLAN &amp; SECTION FOR COMPOUND WALL WITH ECCENTRIC FOOTING AT 66KV GOTHAN-II (GIS) SUB-STATION</b>					
CHECKED:		APPD:			
JE(CIVIL)	DE(CIVIL)	EE(CIVIL)	SE(ENGG.)	IC ACE(ENGG.)	
SCALE:		DATE:		DRG. NO:	
N.T.S.		01.06.26		GETCO / C / 06S-670/CW-20A	
SHEET:		1 OF 1		REV:	
R0		FIRST PREPARATION			
REV:		DESCRIPTION			

1	TENTATIVE LAYOUT PLAN OF 66KV GOTHAN-II S/S, DRG. NO. GETCO/E/6S-670/P-005, REV. R0, DATE.01.06.2026
SR NO.	REFERENCE





**IMPORTANT NOTES**

**A GENERAL**

1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED & LEVELS ARE IN METER.
2. DO NOT SCALE THE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. THE DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWING I.E. ARCHITECTURAL, ELECTRICAL & STRUCTURAL DRAWING, (GA DRAWING OF MANUFACTURER)
4. ALL THE WORK SHALL BE CARRIED OUT AS PER RELEVANT FIELD QUALITY PLAN APPROVED BY GETCO.
5. IN CASE OF ANY DOUBT OR DISCREPANCIES, PLEASE CONTACT ENGG. CELL. NO ASSUMPTIONS SHALL BE MADE.
6. ALL SAFETY PRECAUTIONS AS MENTIONED IN ELECTRICAL LAYOUT, SAFETY MANUAL & RELEVANT STANDARD CODES, SHALL BE SCRUPULOUSLY FOLLOWED WHILE EXECUTION OF WORK.

**B CONCRETE**

7. THE CEMENT SHALL BE ORDINARY PORTLAND CEMENT WITH C3A CONTENT FROM 5 TO 8 % FOR ALL CIVIL WORK.
8. ALL THE RCC WORK SHALL BE CARRIED OUT AS PER IS 456-2000 WITH LATEST REVISION.
9. THE GRADE OF CONCRETE SHALL BE M-20, WITH MINIMUM CEMENT CONTENT OF 400 KG/M<sup>3</sup>. EXCEPT LEAN CONCRETE MIX DESIGN SHALL BE DONE CONSIDERING SEVERE ENVIRONMENT EXPOSURE CONDITIONS.
10. THE GRADE OF LEAN CONCRETE SHALL BE M-15
11. CONCRETING OF ALL CIVIL WORKS UNDER BIDDER SCOPE FOR GRADE OF M30, M25 & M20 SHALL BE DONE WITH THE HELP OF DIGITAL WEIGH BATCHER OR FLORI (MOBILE CONCRETE BATCHING PLANT) ONLY.
12. ALL CONCRETE SHALL BE MACHINE MIXED, VIBRATED & CURED FOR MINIMUM 10 DAYS.
13. USE OF NEEDLE VIBRATOR IS COMPULSORY FOR ALL CONCRETE WORKS.

**C REINFORCEMENT**

14. REINFORCEMENT BARS SHALL BE TMT (THERMO MECHANICALLY TREATED) OF GRADE FE-500/500D/550 BARS CONFIRMING TO IS 1786(LATEST REVISION) COATED WITH FUSION BONDED EPOXY COATING AS PER IS-13620(LATEST REVISION).
15. REINFORCEMENT SHALL BE BENT & FIXED IN ACCORDANCE WITH THE PROCEDURE SPECIFIED IN IS 2502-1963.
16. CLEAR COVER TO THE REINFORCEMENT SHALL BE AS UNDER

	TOP	BOTTOM	SIDES
• FOOTING (RAFT & ISOLATED)	50	75	50
• PILE CAPS	50	100	50
• PILE	75	75	75
• GRADE BEAM	-	40	40
• COLUMNS & PEDESTALS	50	-	50
• BEAMS ABOVE GROUND LEVEL	35	35	35
• GRADE SLAB	25	25	25
• LINTEL BEAMS	25	25	25
• SLABS & STAIRCASE	25	25	25
• CABLE TRENCHES BASE SLAB	20	35	35
• WALL	20	35	35

17. LAP LENGTH SHOULD BE 50 TIMES OF DIA.
18. LAP AT SUPPORT SECTION, JOINT SECTION & MID SPAN SHALL BE AVOIDED.
19. OVERLAPPING OF REINFORCEMENT SHALL BE STAGGERED.
20. UNLESS OTHERWISE SPECIFIED DISTN., STEEL SHOULD BE 8 MM, TOR @ 200 MM, C/C.
21. IN CASE OF CONTINUOUS SUPPORT, REINFORCEMENTS ARE DEFERENT FOR TWO ADJACENT BEAMS / SLABS, THE HIGHER SUPPORT REINFORCEMENT OF THE TWO SHALL BE PROVIDED AT THE SUPPORT

**D FOUNDATION**

22. IN THE COURSE OF EXCAVATION IF SUB SOIL STRATA DIFFERS IN COMPARE TO SBC REPORT, THE SAME SHALL BE REPORTED TO THE CONCERN FOR NECESSARY STEPS BY THE ENGINEERING CELL.
23. LAY-OUT, LINE-OUT & ORIENTATION SHALL BE CHECKED JOINTLY BY E, E, / D, E, - (CIVIL) & E, E, / D, E, - (CONST), ON THE BASIS OF APPROVED ELECTRICAL LAY-OUT, GA DRAWING & THIS DRAWING, PRIOR TO START THE WORK.

**FOR OPEN FOUNDATION**

24. NO FOUNDATION SHALL BE RESTED ON FILLED-UP SOIL / BLACK COTTON SOIL.
25. IF FILLED UP SOIL ENCOUNTERED, FOUNDATION SHALL BE TAKEN 400 MM BELOW VIRGIN SOIL.
26. IF FOUNDATION FALLS ON EXCAVATED TRENCHES OF ADJOINING FOUNDATION, THAN FOUNDATION SHALL EXTENDED UP TO THE DEPTH OF ADJOINING FOUNDATION.
27. IF BLACK COTTON SOIL ENCOUNTERED, AT FOUNDATION DEPTH, THAN FOUNDATION SHALL REST ON COMPACTED SAND BED OF 300MM THICK.
28. BACK FILLING OF FOUNDATION TRENCHES SHALL BE DONE WITH USE OF NON COHESIVE SOIL ONLY.
29. THE BACK FILLING AROUND THE FOUNDATION SHALL BE ADEQUATE TO ACHIEVE THE PROCTOR DENSITY OF 95%.

**FOR PILE FOUNDATION**

26. THE GRADE OF CONCRETE SHALL BE M-30 FOR PILE CAP, COLUMN, BEAM, RAFT, ETC., EXCEPT LEAN CONCRETE.
27. THE GRADE OF CONCRETE FOR PILE SHALL BE M-30, CONFIRMING TO IS 456 WITH MINIMUM CEMENT CONTENT AS 450 kg / M<sup>3</sup> WITH TREME CONCRETE.
28. CONCRETE SLUMP SHALL BE 120 TO 150MM, (VERY HIGH DEGREE OF WORKABILITY) FOR PILE FOUNDATION WITH TREME CONCRETE.
29. FOR CONSTRUCTION SPECIFICATION OF IS 2911 (PART-III), LATEST REVISION SHALL BE FOLLOWED.
30. THE PILE SHOULD PROJECT 100MM, IN TO THE PILE CAP CONCRETE.
31. INTEGRITY TEST TO BE DONE FOR ALL PILES, PRIOR TO CAST PILE CAP.
32. INITIAL AND ROUTINE PILE LOAD TEST SHALL BE CARRIED OUT FOR EACH CAPACITY OF PILE(I.E. FOR COMPRESSION, PULL OUT & LATERAL LOAD CAPACITY) AS PER PROVISION OF IS 2911-PART-IV-LATEST REVISION, TEST RESULTS SHALL BE COMPARED WITH RECOMMENDED VALUE GIVEN IN APPROVED SOIL INVESTIGATION REPORT PRIOR TO START OF WORKING PILE.
33. PILE CONCRETE SHALL BE DONE WITH MINIMUM LEAD TIME AFTER 'PILE BORE' IS ACCEPTED & CLEARED FOR REINFORCEMENT PLACEMENT AND CONCRETING. IN NO CASE, PILE BORE SHALL REMAIN OPEN FOR MORE THAN FOUR HOURS AFTER ACCEPTANCE

**FOR HARD ROCK**

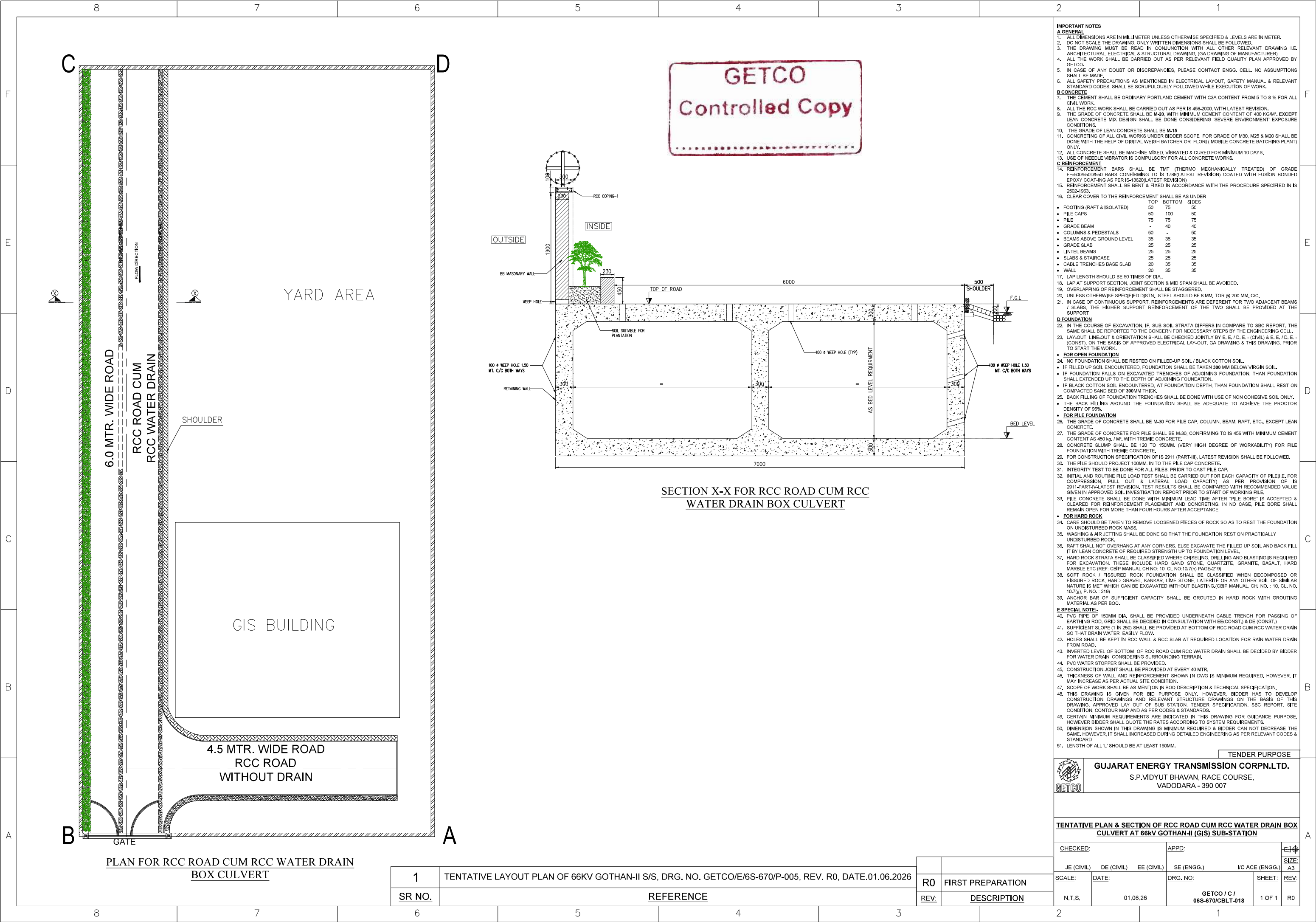
34. CARE SHOULD BE TAKEN TO REMOVE LOOSENED PIECES OF ROCK SO AS TO REST THE FOUNDATION ON UNDISTURBED ROCK MASS.
35. WASHING & AIR JETTING SHALL BE DONE SO THAT THE FOUNDATION REST ON PRACTICALLY UNDISTURBED ROCK.
36. RAFT SHALL NOT OVERHANG AT ANY CORNERS, ELSE EXCAVATE THE FILLED UP SOIL AND BACK FILL IT BY LEAN CONCRETE OF REQUIRED STRENGTH UP TO FOUNDATION LEVEL.
37. HARD ROCK STRATA SHALL BE CLASSIFIED WHERE CHISELING, DRILLING AND BLASTING IS REQUIRED FOR EXCAVATION, THESE INCLUDE HARD SAND STONE, QUARTZITE, GRANITE, BASALT, HARD MARBLE ETC (REF: CBIP MANUAL CH NO. 10, CL NO.10.7(h) PAGE-219)
38. SOFT ROCK / FISSURED ROCK FOUNDATION SHALL BE CLASSIFIED WHEN DECOMPOSED OR FISSURED ROCK, HARD GRAVEL, KANKAR, LIME STONE, LATERITE OR ANY OTHER SOIL OF SIMILAR NATURE IS MET WHICH CAN BE EXCAVATED WITHOUT BLASTING.(CBIP MANUAL, CH. NO. : 10, CL. NO. 10.7(g), P. NO. : 219)
39. ANCHOR BAR OF SUFFICIENT CAPACITY SHALL BE GROUTED IN HARD ROCK WITH GROUTING MATERIAL AS PER BOQ.

**E SPECIAL NOTE:-**


40. FOR CEMENT PLASTER PATTERN & COLOUR PATTERN, PLEASE REFER CIRCULAR NO. GETCO / SE (C) / STREAM LINE / S / S / 590 DTD. 16.08.2005.
41. 50MM GAP FOR CONSTRUCTION JOINT SHALL BE PROVIDED AT EVERY 30 MTR. INTERVALS IN COMPOUND WALL.
42. EE (CIVIL) SHALL DECIDE THE LOCATION OF M.S. GRILL TO BE PROVIDED IN COMPOUND WALL AS PER SITE REQUIREMENT.
43. WEEP HOLES SHALL BE PROVIDED IN VARIABLY AS MENTIONED IN DRAWING
44. FOR RAINWATER DISPOSAL NECESSARY OPENINGS, SPOUTS, GRILLS ETC., SHALL BE PROVIDED OF APPROPRIATE SIZE & AS PER SITE REQUIREMENT.
45. THE COMPOUND WALL SHALL BE CONSTRUCTED FOLLOWING THE NATURAL TOPOGRAPHY, ANY DIFFERENCES IN ELEVATION BETWEEN THE EXTERIOR AND INTERIOR GROUND LEVELS SHALL BE ACCOUNT FOR.
46. THIS DRAWING IS GIVEN FOR BID PURPOSE ONLY. HOWEVER, BIDDER HAS TO DEVELOP CONSTRUCTION DRAWINGS AND RELEVANT STRUCTURE DRAWINGS ON THE BASIS OF THIS DRAWING, APPROVED LAY OUT OF SUB STATION, TENDER SPECIFICATION, SBC REPORT, SITE CONDITION, CONTOUR MAP AND AS PER CODES & STANDARDS.
47. CERTAIN MINIMUM REQUIREMENTS ARE INDICATED IN THIS DRAWING FOR GUIDANCE PURPOSE, HOWEVER BIDDER SHALL QUOTE THE RATES ACCORDING TO SYSTEM REQUIREMENTS.
48. DIMENSION SHOWN IN THIS DRAWING IS MINIMUM REQUIRED & BIDDER CAN NOT DECREASE THE SAME, HOWEVER, IT SHALL INCREASED DURING DETAILED ENGINEERING AS PER RELEVANT CODES & STANDARD
49. LENGTH OF ALL 'L' SHOULD BE AT LEAST 150MM.

1		TENTATIVE LAYOUT PLAN OF 66KV GOTHAN-II S/S, DRG. NO. GETCO/E/6S-670/P-005, REV. R0, DATE.01.06.2026		R0		FIRST PREPARATION	
SR NO.		REFERENCE		REV		DESCRIPTION	

EXECUTION PURPOSE			
GUJARAT ENERGY TRANSMISSION CORPN.LTD.			
S.P.VIDYUT BHAVAN, RACE COURSE, VADODARA - 390 007			
TENTATIVE PLAN & SECTIONS FOR COMPOUND WALL ABOVE RETAINING WALL AT 66kv GOTHAN-II (GIS) SUB-STATION			
CHECKED:	APPD:	SIZE:	
DE (CIVIL)	EE (CIVIL)	SE (ENGG.)	ACE (ENGG.)
SCALE:	DATE:	DRG. NO:	SHEET: REV:
N.T.S	01.06.26	GETCO / C / 06S-670/R-CW-20A	1 OF 1 R0



- IMPORTANT NOTES**
- A GENERAL**
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  3. THE DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWING I.E. ARCHITECTURAL, ELECTRICAL & STRUCTURAL DRAWING, (GA DRAWING OF MANUFACTURER)
  4. ALL THE WORK SHALL BE CARRIED OUT AS PER RELEVANT FIELD QUALITY PLAN APPROVED BY GETCO.
  5. IN CASE OF ANY DOUBT OR DISCREPANCIES, PLEASE CONTACT ENGG. CELL, NO ASSUMPTIONS SHALL BE MADE.
  6. ALL SAFETY PRECAUTIONS AS MENTIONED IN ELECTRICAL LAYOUT, SAFETY MANUAL & RELEVANT STANDARD CODES, SHALL BE SCRUPULOUSLY FOLLOWED WHILE EXECUTION OF WORK.
- B CONCRETE**
7. THE CEMENT SHALL BE ORDINARY PORTLAND CEMENT WITH C3A CONTENT FROM 5 TO 8 % FOR ALL CIVIL WORK.
  8. ALL THE RCC WORK SHALL BE CARRIED OUT AS PER IS 456-2000, WITH LATEST REVISION.
  9. THE GRADE OF CONCRETE SHALL BE M30, WITH MINIMUM CEMENT CONTENT OF 400 KG/M<sup>3</sup>, EXCEPT LEAN CONCRETE MIX DESIGN SHALL BE DONE CONSIDERING 'SEVERE ENVIRONMENT' EXPOSURE CONDITIONS.
  10. THE GRADE OF LEAN CONCRETE SHALL BE M15.
  11. CONCRETING OF ALL CIVIL WORKS UNDER BIDDER SCOPE FOR GRADE OF M30, M25 & M20 SHALL BE DONE WITH THE HELP OF DIGITAL WEIGH BATCHER OR FLORI (MOBILE CONCRETE BATCHING PLANT) ONLY.
  12. ALL CONCRETE SHALL BE MACHINE MIXED, VIBRATED & CURED FOR MINIMUM 10 DAYS.
  13. USE OF NEEDLE VIBRATOR IS COMPULSORY FOR ALL CONCRETE WORKS.
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  15. REINFORCEMENT SHALL BE BENT & FIXED IN ACCORDANCE WITH THE PROCEDURE SPECIFIED IN IS 2502-1983.
  16. CLEAR COVER TO THE REINFORCEMENT SHALL BE AS UNDER
- |                             | TOP | BOTTOM | SIDES |
|-----------------------------|-----|--------|-------|
| • FOOTING (RAFT & ISOLATED) | 50  | 75     | 50    |
| • PILE CAPS                 | 50  | 100    | 50    |
| • PILE                      | 75  | 75     | 75    |
| • GRADE BEAM                | -   | 40     | 40    |
| • COLUMNS & PEDESTALS       | 50  | -      | 50    |
| • BEAMS ABOVE GROUND LEVEL  | 35  | 35     | 35    |
| • GRADE SLAB                | 25  | 25     | 25    |
| • LINTEL BEAMS              | 25  | 25     | 25    |
| • SLABS & STAIRCASE         | 25  | 25     | 25    |
| • CABLE TRENCHES BASE SLAB  | 20  | 35     | 35    |
| • WALL                      | 20  | 35     | 35    |
17. LAP LENGTH SHOULD BE 50 TIMES OF DIA.
  18. LAP AT SUPPORT SECTION, JOINT SECTION & MID SPAN SHALL BE AVOIDED.
  19. OVERLAPPING OF REINFORCEMENT SHALL BE STAGGERED.
  20. UNLESS OTHERWISE SPECIFIED, STEEL SHOULD BE 8 MM. TOR @ 200 MM, C/C.
  21. IN CASE OF CONTINUOUS SUPPORT, REINFORCEMENTS ARE DIFFERENT FOR TWO ADJACENT BEAMS / SLABS, THE HIGHER SUPPORT REINFORCEMENT OF THE TWO SHALL BE PROVIDED AT THE SUPPORT
- D FOUNDATION**
22. IN THE COURSE OF EXCAVATION, IF SUB SOIL STRATA DIFFERS IN COMPARE TO SBC REPORT, THE SAME SHALL BE REPORTED TO THE CONCERN FOR NECESSARY STEPS BY THE ENGINEERING CELL.
  23. LAY-OUT, LINE-OUT & ORIENTATION SHALL BE CHECKED JOINTLY BY E, E / D, E - (CIVIL) & E, E / D, E - (CONST), ON THE BASIS OF APPROVED ELECTRICAL LAY-OUT, GA DRAWING & THIS DRAWING, PRIOR TO START THE WORK.
- **FOR OPEN FOUNDATION**
  - 24. NO FOUNDATION SHALL BE RESTED ON FILLED-UP SOIL / BLACK COTTON SOIL.
  - IF FILLED UP SOIL ENCOUNTERED, FOUNDATION SHALL BE TAKEN 300 MM BELOW VIRGIN SOIL.
  - IF FOUNDATION FALLS ON EXCAVATED TRENCHES OF ADJOINING FOUNDATION, THAN FOUNDATION SHALL EXTENDED UP TO THE DEPTH OF ADJOINING FOUNDATION.
  - IF BLACK COTTON SOIL ENCOUNTERED, AT FOUNDATION DEPTH, THAN FOUNDATION SHALL REST ON COMPACTED SAND BED OF 300MM THICK.
  - 25. BACK FILLING OF FOUNDATION TRENCHES SHALL BE DONE WITH USE OF NON COHESIVE SOIL ONLY.
  - THE BACK FILLING AROUND THE FOUNDATION SHALL BE ADEQUATE TO ACHIEVE THE PROCTOR DENSITY OF 95%.
  - **FOR PILE FOUNDATION**
  - 26. THE GRADE OF CONCRETE SHALL BE M30 FOR PILE CAP, COLUMN, BEAM, RAFT, ETC., EXCEPT LEAN CONCRETE.
  - 27. THE GRADE OF CONCRETE FOR PILE SHALL BE M30, CONFORMING TO IS 456 WITH MINIMUM CEMENT CONTENT AS 450 kg / M<sup>3</sup>, WITH TREMIE CONCRETE.
  - 28. CONCRETE SLUMP SHALL BE 120 TO 150MM, (VERY HIGH DEGREE OF WORKABILITY) FOR PILE FOUNDATION WITH TREMIE CONCRETE.
  - 29. FOR CONSTRUCTION SPECIFICATION OF IS 2911 (PART-III), LATEST REVISION SHALL BE FOLLOWED.
  - 30. THE PILE SHOULD PROJECT 100MM. IN TO THE PILE CAP CONCRETE.
  - 31. INTEGRITY TEST TO BE DONE FOR ALL PILES, PRIOR TO CAST PILE CAP.
  - 32. INITIAL AND ROUTINE PILE LOAD TEST SHALL BE CARRIED OUT FOR EACH CAPACITY OF PILE (I.E. FOR COMPRESSION, PULL OUT & LATERAL LOAD CAPACITY) AS PER PROVISION OF IS 2911-PART-IV-LATEST REVISION, TEST RESULTS SHALL BE COMPARED WITH RECOMMENDED VALUE GIVEN IN APPROVED SOIL INVESTIGATION REPORT PRIOR TO START OF WORKING PILE.
  - 33. PILE CONCRETE SHALL BE DONE WITH MINIMUM LEAD TIME AFTER 'PILE BORE' IS ACCEPTED & CLEARED FOR REINFORCEMENT PLACEMENT AND CONCRETING. IN NO CASE, PILE BORE SHALL REMAIN OPEN FOR MORE THAN FOUR HOURS AFTER ACCEPTANCE.
  - **FOR HARD ROCK**
  - 34. CARE SHOULD BE TAKEN TO REMOVE LOOSENED PIECES OF ROCK SO AS TO REST THE FOUNDATION ON UNDISTURBED ROCK MASS.
  - 35. WASHING & AIR JETTING SHALL BE DONE SO THAT THE FOUNDATION REST ON PRACTICALLY UNDISTURBED ROCK.
  - 36. RAFT SHALL NOT OVERHANG AT ANY CORNERS, ELSE EXCAVATE THE FILLED UP SOIL AND BACK FILL IT BY LEAN CONCRETE OF REQUIRED STRENGTH UP TO FOUNDATION LEVEL.
  - 37. HARD ROCK STRATA SHALL BE CLASSIFIED WHERE CHISELING, DRILLING AND BLASTING IS REQUIRED FOR EXCAVATION, THESE INCLUDE: HARD SAND STONE, QUARTZITE, GRANITE, BASALT, HARD MARBLE ETC (REF: CBIP MANUAL, CH NO: 10, CL NO: 10.7(i) PAGE-219).
  - 38. SOFT ROCK / FISSURED ROCK FOUNDATION SHALL BE CLASSIFIED WHEN DECOMPOSED OR FISSURED ROCK, HARD GRAVEL, KANKAR, LIME STONE, LATERITE OR ANY OTHER SOIL OF SIMILAR NATURE IS MET WHICH CAN BE EXCAVATED WITHOUT BLASTING, (CBIP MANUAL, CH. NO. : 10, CL. NO. 10.7(ii) P. NO., 219)
  - 39. ANCHOR BAR OF SUFFICIENT CAPACITY SHALL BE GROUTED IN HARD ROCK WITH GROUTING MATERIAL AS PER BOQ.
- E SPECIAL NOTE:-**
40. PVC PIPE OF 150MM DIA. SHALL BE PROVIDED UNDERNEATH CABLE TRENCH FOR PASSING OF EARTHING ROD, GRID SHALL BE DECIDED IN CONSULTATION WITH EE(CONST.) & DE (CONST.)
  41. SUFFICIENT SLOPE (1 IN 250) SHALL BE PROVIDED AT BOTTOM OF RCC ROAD CUM RCC WATER DRAIN SO THAT DRAIN WATER EASILY FLOW.
  42. HOLES SHALL BE KEPT IN RCC WALL & RCC SLAB AT REQUIRED LOCATION FOR RAIN WATER DRAIN FROM ROAD.
  43. INVERTED LEVEL OF BOTTOM OF RCC ROAD CUM RCC WATER DRAIN SHALL BE DECIDED BY BIDDER FOR WATER DRAIN CONSIDERING SURROUNDING TERRAIN.
  44. PVC WATER STOPPER SHALL BE PROVIDED.
  45. CONSTRUCTION JOINT SHALL BE PROVIDED AT EVERY 40 MTR.
  46. THICKNESS OF WALL AND REINFORCEMENT SHOWN IN DWG IS MINIMUM REQUIRED, HOWEVER, IT MAY INCREASE AS PER ACTUAL SITE CONDITION.
  47. SCOPE OF WORK SHALL BE AS MENTION IN BOQ DESCRIPTION & TECHNICAL SPECIFICATION.
  48. THIS DRAWING IS GIVEN FOR BID PURPOSE ONLY. HOWEVER, BIDDER HAS TO DEVELOP CONSTRUCTION DRAWINGS AND RELEVANT STRUCTURE DRAWINGS ON THE BASIS OF THIS DRAWING, APPROVED LAY OUT OF SUB STATION, TENDER SPECIFICATION, SBC REPORT, SITE CONDITION, CONTOUR MAP AND AS PER CODES & STANDARDS.
  49. CERTAIN MINIMUM REQUIREMENTS ARE INDICATED IN THIS DRAWING FOR GUIDANCE PURPOSE, HOWEVER BIDDER SHALL QUOTE THE RATES ACCORDING TO SYSTEM REQUIREMENTS.
  50. DIMENSION SHOWN IN THIS DRAWING IS MINIMUM REQUIRED & BIDDER CAN NOT DECREASE THE SAME, HOWEVER, IT SHALL INCREASE DURING DETAILED ENGINEERING AS PER RELEVANT CODES & STANDARD
  51. LENGTH OF ALL 'L' SHOULD BE AT LEAST 150MM.




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TENDER PURPOSE

GUJARAT ENERGY TRANSMISSION CORPN.LTD.

S.P.VIDYUT BHAVAN, RACE COURSE,  
VADODARA - 390 007

TENTATIVE PLAN & SECTION OF RCC ROAD CUM RCC WATER DRAIN BOX  
CULVERT AT 66KV GOTHAN-II (GIS) SUB-STATION

CHECKED:			APPD:		
JE (CIVIL)	DE (CIVIL)	EE (CIVIL)	SE (ENGG.)	I/C ACE (ENGG.)	SIZE: A3
SCALE:		DATE:		DRG. NO:	SHEET:
N.T.S.		01.06.26		GETCO / C / 06S-670/CBLT-018	1 OF 1
					R0

1	TENTATIVE LAYOUT PLAN OF 66KV GOTHAN-II S/S, DRG. NO. GETCO/E/6S-670/P-005, REV. R0, DATE.01.06.2026
SR NO.	REFERENCE

R0	FIRST PREPARATION
REV:	DESCRIPTION