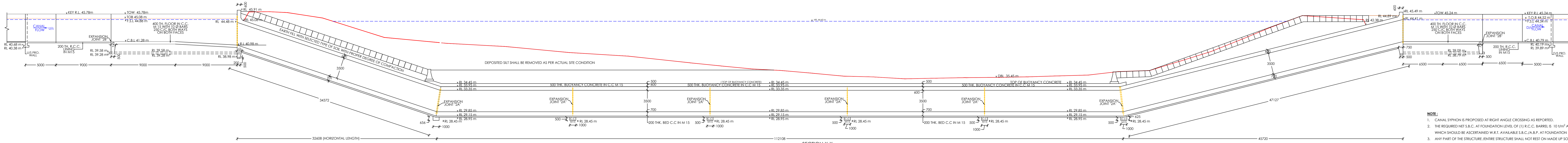
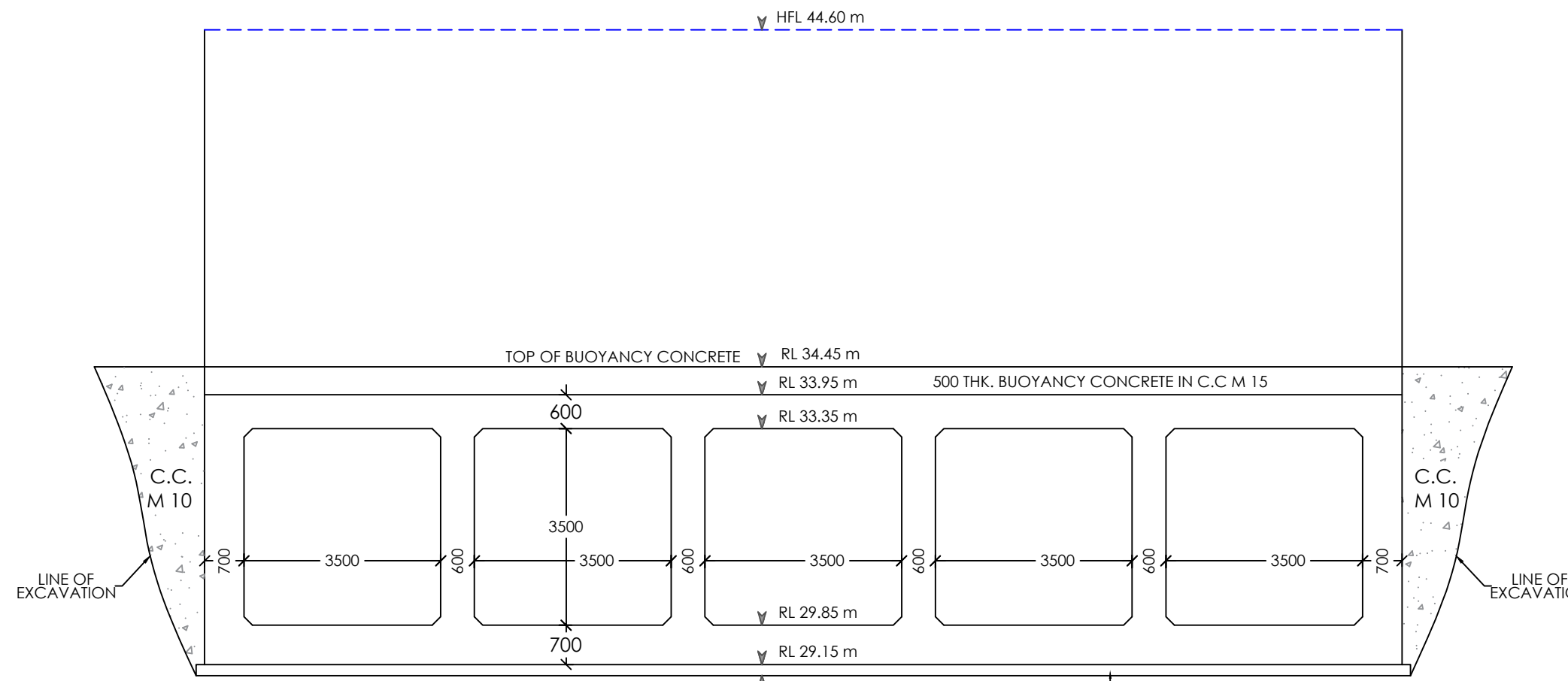


PLAN
SCALE: 1 IN 50



SECTION X-X
SCALE: 1 IN 50



SECTION Y-Y
SCALE: 1 IN 100

- NOTE:
- CANAL SYMPHON IS PROPOSED AT RIGHT ANGLE CROSSING AS REPORTED.
 - THE REQUIRED HET S.B.C. AT FOUNDATION LEVEL OF (1) R.C.C. BARREL & 10 M² AND (2) TRANSITION WALLS 6 11.3 M², WHICH SHOULD BE ASCERTAINED W.R.T. AVAILABLE S.B.C. (A.S.P.) AT FOUNDATION LEVEL OF EACH STRUCTURE.
 - ANY PART OF THE STRUCTURE (WHERE STRUCTURE SHALL NOT REST ON MADE UP SOIL) SHALL BE CONSTRUCTED ON OR WELLING TYPE SOIL. IF IT IS SO, THEN NECESSARY TREATMENT SHALL BE CARRIED OUT IN CONSULTATION WITH COMPETENT AUTHORITY IF REQUIRED AT FIELD LEVEL BEFORE EXECUTION.
 - THE GRADE OF CONCRETE SHALL BE AS UNDER:
 - RCC BARREL & WELL M 25
 - PROPER WALLS OF CANAL, 300 THK R.C.C. LINING M 30
 - TRANSITION WALLS M 15
 - C.C. CUT OFF US & DISCANAL & DRAIN M 15
 - 300 THK CC FLOOR M 15
 - RED CONCRETE FOR ALL THE COMPONENTS M 15
 - BREAST WALL M 25
 - TOE WALL M 15
 - THE REINFORCEMENT HYSD BARS CONFORMING TO IS 1786 - 2008 AND ONLY TESTED STEEL SHALL BE USED.
 - LAPS OF REINFORCEMENT IF REQUIRED SHALL BE STAGGERED AND SHALL BE PROVIDED AS PER CL. 24.2.5.1 OF IS 456:2000. AND LAPS SHOULD NOT BE MORE THAN 40% AT ANY POINT.
 - THE EXPANSION JOINTS SHALL BE PROVIDED AS PER IS 8075 PART 2:2008 AS SHOWN IN DRAWING.
 - EXCAVATED TRENCH FILLING & BACK FILL SHALL BE CARRIED OUT WITH SELECTED TYPE OF SOIL WITH PROPER DEGREE OF COMPACTION.
 - ALL DIMENSIONS SHOWN ARE IN MILLIMETER EXCEPT OTHERWISE SPECIFIED.
 - 30mm CLEAR COVER TO REINFORCEMENT SHALL INVARIABLY BE PROVIDED WITH SUITABLE ARRANGEMENT AND THE SAME SHALL BE CONFIRMED BY THE CONCERNED FIELD OFFICER BEFORE LAYING CONCRETE.
 - THE DIMENSIONS ARE TO BE READ AND NOT TO BE NEGATED.
 - THE DRAWING IS BASED ON DATA (DETAILS FURNISHED BY FIELD OFFICE. ANY CHANGE IN DATA / DETAILS DRAWING MAY ALSO REQUIRE CHANGES.
 - DISCREPANCY, IF ANY SHOULD BE CORRECTED BEFORE EXECUTION.
 - EXHIBIT PROFILE SHOWN IN THE DRAWING IS PURELY TENTATIVE. HENCE, WORK SHALL BE CARRIED OUT AS PER ACTUAL SITE CONDITIONS.
 - IF IT IS ASSIGNED THAT THE QUALITY OF CONCRETE, STEEL AND OTHER MATERIAL AND OF THE WORKMANSHIP, AS VERIFIED BY INSPECTION, IS ADEQUATE FOR SAFETY & DURABILITY OF THE STRUCTURE.
 - THE NUMBER OF THE DISTRIBUTION BARS SHOWN IN REINFORCEMENT DETAILS DRAWING ARE PURELY INDICATIVE. IT SHOULD BE PROVIDED AS PER SPACING MENTIONED IN SCHEDULE OF REINFORCEMENT.
 - US & DIS PROPER WALLS OF CANAL SHOULD BE CONSTRUCTED MONOLITHICALLY WITH US & DIS LINING FOR THE STABILITY OF LINING.
 - BACK FILLING BEHIND THE END WALLS OF THE RCC BOX SHOULD BE DONE WITH SELECTED TYPE OF SOIL WITH PROPER DEGREE OF COMPACTION. HOWEVER, IF IT IS NOT FEASIBLE AT THE SITE CONDITION, THEN THE BACK FILLING MAY BE DONE USING C.C. M-10 WITH THE DUE APPROVAL FROM COMPETENT AUTHORITY.
 - THE LAYING OF CONCRETE PPEP SHALL BE CONFORMING TO IS 7843:1985 (REAFFIRMED 2010).
 - SUITABLE DOWNDRAKE ARRANGEMENT FOR THE WELL SHOULD BE PROVIDED AT FIELD LEVEL.

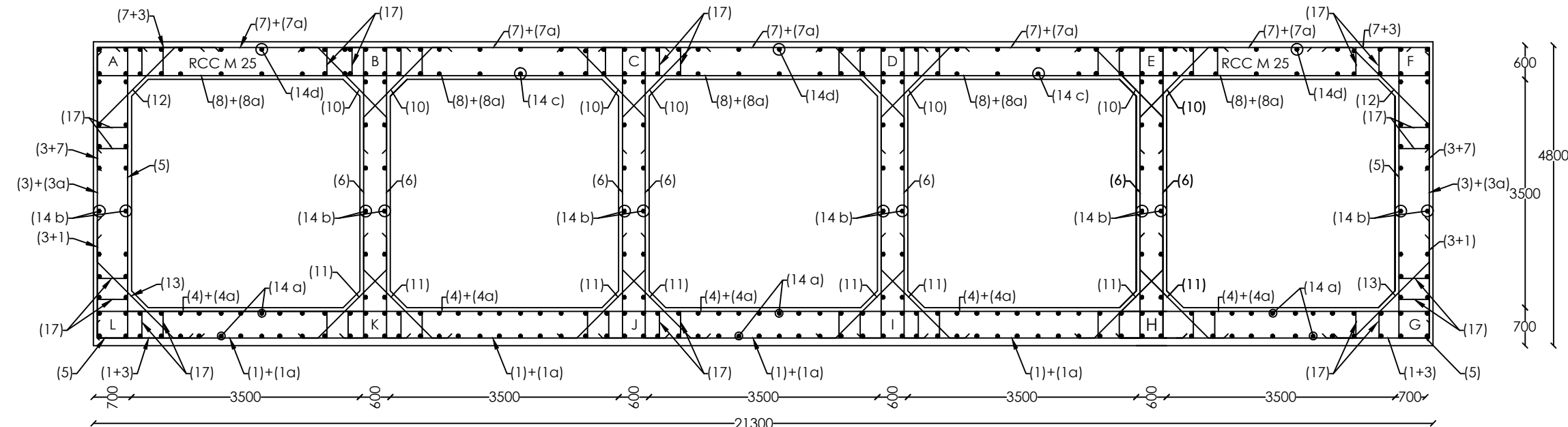
CANAL DATA			
Sl. Nos.	PARENT CANAL DATA	DATA VALUE	UNIT
1	GROUND LEVEL LEFT / RIGHT	-	m
2	FULL SUPPLY DISCHARGE US & DS	118.93	CLUMEC
3	CANAL BED WIDTH (US & DS)	27.44 / 22.56	m
4	FULL SUPPLY DEPTH (US & DS)	3.6 / 3.55	m
5	CANAL BED LEVEL	41.280	m (US)
6	RED GRADE (US)	40.790	m (DS)
7	FULL SUPPLY LEVEL	44.880	m (US)
8	VELOCITY	44.340	m (DS)
9	TOP OF BANK LEVEL	45.080	m (US)
10	CROSS SECTION OF CANAL (US & DS)	27.44 X 3.60 + 0.90	m
11	WIDTH OF SERVICE ROAD (RFT)	5.00	m
12	WIDTH OF AUTOCORRECTION FAIR (RIGHT) (US / DS)	3.00	m
13	SIDE SLOPE (RFT)	1.5 : 1	
14	ALLOWABLE HEAD LOSS	0.54	m
15	WHETHER LINED OR UNLINED	UNLINED	
16	FREE BOARD (L + 0.30m + E + 0.30)	0.90	m
17	SOIL BEARING CAPACITY	N/A.	100T



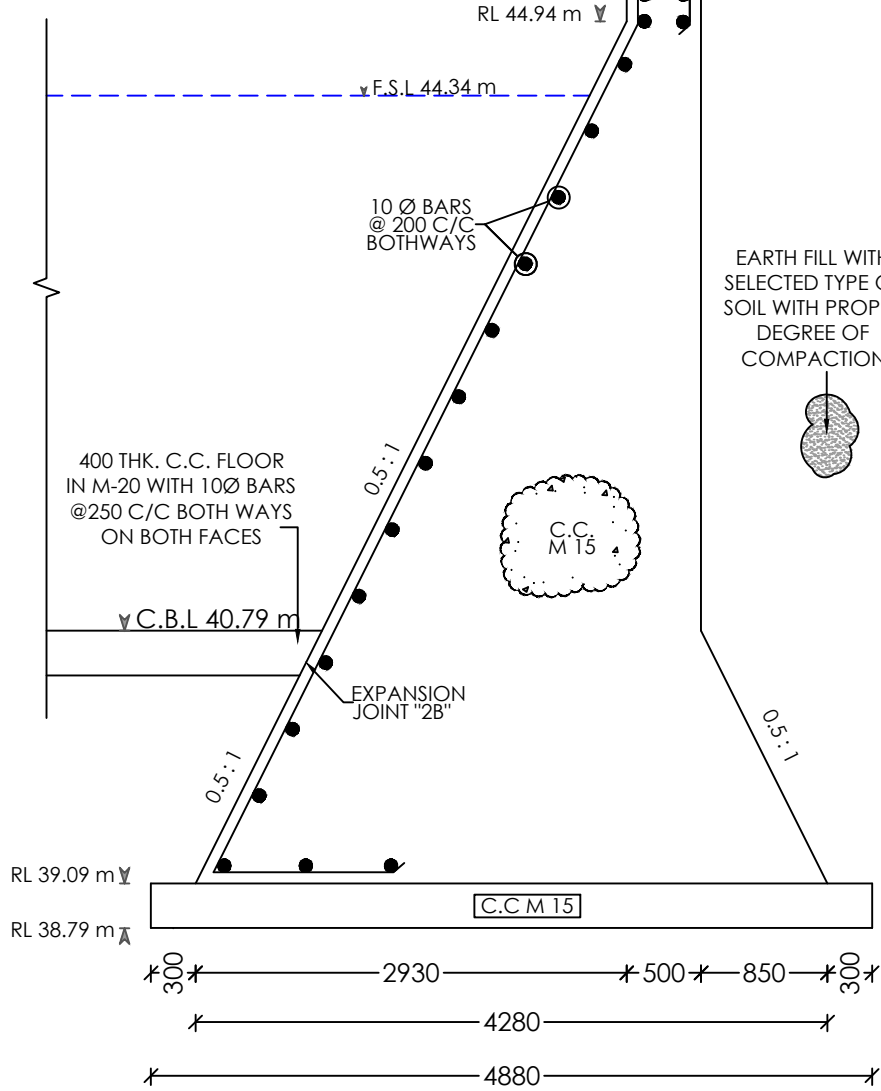
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RECONSTRUCTING A CANAL SYMPHON @ CH. 14350 M (53.654 RD) OF KAKRAPAR RIGHT BANK
MAIN CANAL AT THE CROSSING OF VARE KHADI

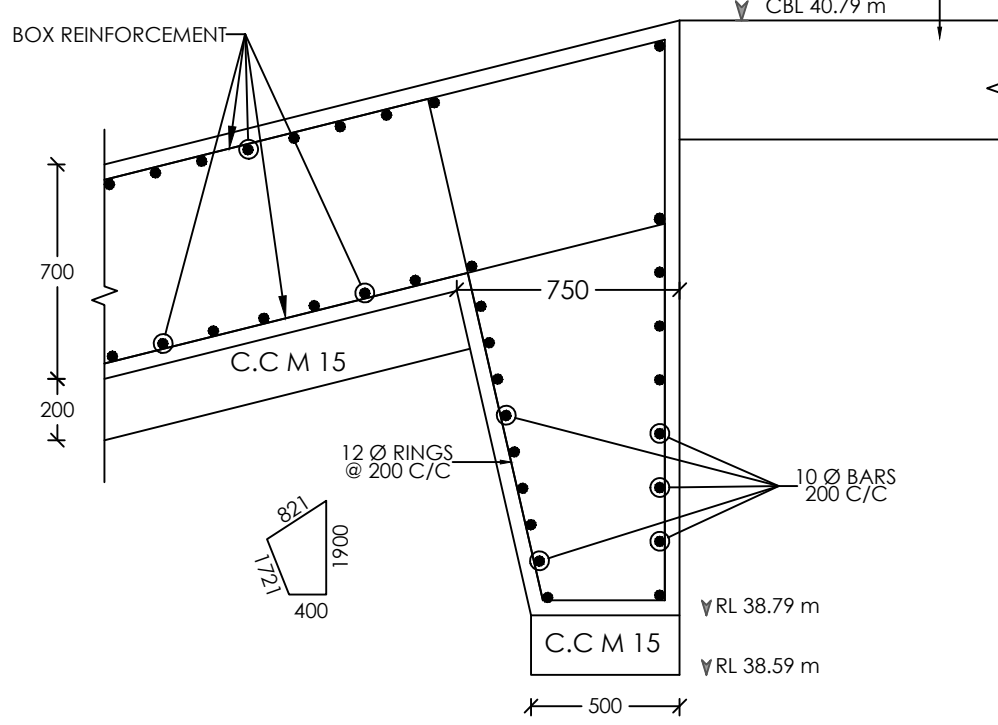
SECTION OFFICER SECTION BODHAR, BOCHAN.	DY. EX. ENGINEER REVENUE DIVISION, TAKESHWAR.	EXECUTIVE ENGINEER K.A.B.A.C. DIVISION, SURAT.	SUPERINTENDING ENGINEER
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DETAILS OF D/s C.C.
CUT-OFF: "Dc-Dc"

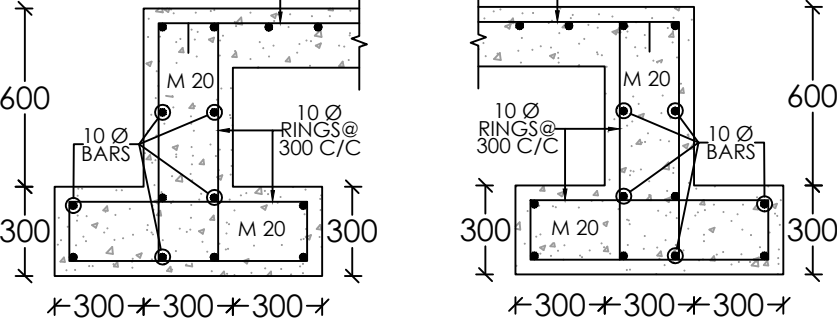


SECTION OF U/S & D/S
TRANSITION WALL 5'-5'

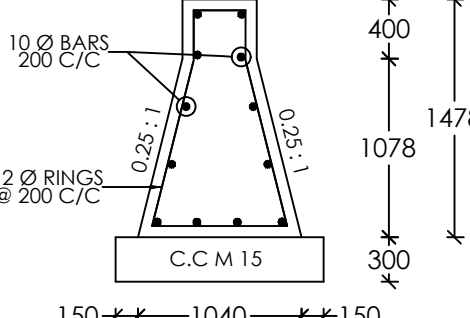


DETAILS OF D/
BREAST WALL

DETAILS OF BOX
CUT-OFF D/S



SECTION OF PROFILE
WALL: 'Pd-Pd'



DETAILS OF TOUR

NOTE

1. CANAL SYPHON IS PROPOSED AT RIGHT ANGLE CROSSING AS REPORTED.
2. THE REQUIRED NET S.B.C. AT FOUNDATION LEVEL OF (1) R.C.C. BARREL IS 10 t/m² AND (2) TRANSITION WALLS IS 11.5 t/m², WHICH SHOULD BE ASCERTAINED AS W.R.T. AVAILABLE S.B.C./A.B.P. AT FOUNDATION LEVEL OF EACH STRUCTURE.
3. ANY PART OF THE STRUCTURE /ENTIRE STRUCTURE SHALL NOT REST ON MADE UP SOIL / BLACK COTTON SOIL OR SWELLING TYPE SOIL. IF IT IS SO, THEN NECESSARY TREATMENT SHALL BE CARRIED OUT IN CONSULTATION WITH COMPETENT AUTHORITY IF REQUIRED AT FIELD LEVEL BEFORE EXECUTION.
4. THE GRADE OF CONCRETE SHALL BE AS UNDER.
 - RCC BARREL M 25
 - PROFILE WALLS OF CANAL, 200 THK.R.C.C. LINING M 20
 - TRANSITION WALLS M 15
 - C.C. CUT-OFF U/S & D/S(CANAL & DRAIN)..... M 15
 - 300 THK. CC FLOOR M 15
 - BED CONCRETE FOR ALL THE COMPONENTS M 15
 - BREAST WALL M25
 - TOE WALL M15
5. THE REINFORCEMENT (HYSD BARS) CONFORMING TO IS : 1786 - 2008 AND ONLY TESTED STEEL SHALL BE USED.
6. LAPS OF REINFORCEMENT IF REQUIRED SHALL BE STAGGERED AND SHALL BE PROVIDED AS PER CL. 26.2.5.1 OF IS: 456-2000. AND IN LAPS SHOULD NOT BE MORE THAN 40 % AT ANY POINT.
7. THE EXPANSION JOINTS SHALL BE PROVIDED AS PER IS-3370 [PART-I]-2009, AS SHOWN IN DRAWING.
8. EXCAVATED TRENCH FILLING & BACK FILL SHALL BE CARRIED OUT WITH SELECTED TYPE OF SOIL WITH PROPER DEGREE OF COMPACTION.
9. ALL DIMENSIONS SHOWN ARE IN MILLIMETER EXCEPT OTHERWISE SPECIFIED.
10. 50 mm CLEAR COVER TO REINFORCEMENT SHALL INVARIABLY BE PROVIDED WITH SUITABLE ARRANGEMENT AND THE SAME SHALL BE CONFIRMED BY THE CONCERNED FIELD OFFICER BEFORE LAYING CONCRETE.
11. THE DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED.
12. THE DRAWING IS BASED ON DATA / DETAILS FURNISHED BY FIELD OFFICE. ANY CHANGE IN DATA / DETAILS, DRAWING MAY ALSO REQUIRE CHANGES.
13. DISCREPANCY IF ANY SHOULD BE GOT RECTIFIED BEFORE EXECUTION.
14. EARTH PROFILE SHOWN IN THE DRAWING IS PURELY TENTATIVE. HENCE, WORK SHALL BE CARRIED OUT AS PER ACTUAL SITE CONDITIONS.
15. IT IS ASSUMED THAT THE QUALITY OF CONCRETE, STEEL AND OTHER MATERIAL AND OF THE WORKMANSHIP, AS VERIFIED BY INSPECTIONS, IS ADEQUATE FOR SAFETY & DURABILITY OF THE STRUCTURE.
16. THE NUMBER OF THE DISTRIBUTION BARS SHOWN IN REINFORCEMENT DETAILS DRAWING ARE PURELY INDICATIVE. IT SHOULD BE PROVIDED AS PER SPACING MENTIONED IN SCHEDULE OF REINFORCEMENT.
17. U/S & D/S PROFILE WALLS OF CANAL SHOULD BE CONSTRUCTED MONOLITHICALLY WITH U/S & D/S LINING FOR THE STABILITY OF LINING.
18. BACKFILLING BEHIND THE END WALLS OF THE RCC BOX SHOULD BE DONE WITH SELECTED TYPE OF SOIL WITH PROPER DEGREE OF COMPACTION. HOWEVER, IF IT IS NOT FEASIBLE AS PER SITE CONDITION, THEN THE BACKFILLING MAY BE DONE USING C.C. M-10/ WITH THE DUE APPROVAL FROM COMPETENT AUTHORITY.
19. THE LAYING OF CONCRETE PIPES SHALL BE CONFORMING TO IS-783-1985 (REAFFIRMED 2010).
20. SUITABLE DOWNSTAIRS ARRANGEMENT FOR THE WELL SHOULD BE PROVIDED AT FIELD LEVEL.

RECONSTRUCTING A CANAL SYPHONE @ CH. 16350 M (53.654 RD) OF KAKRAPAR RIGHT BANK
MAIN CANAL AT YHE CROSSING OF VARE KHADI

SECTION OFFICER	DY. EX. ENGINEER	EXECUTIVE ENGINEER
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