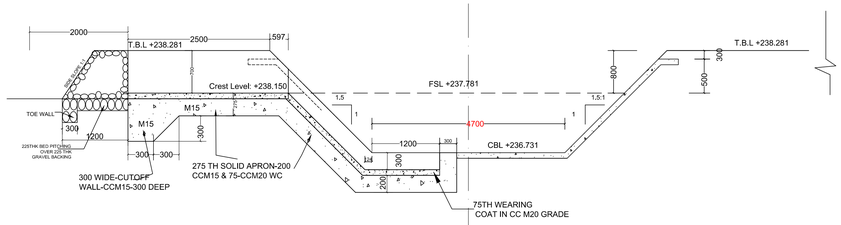
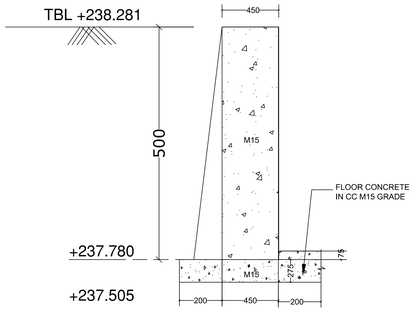
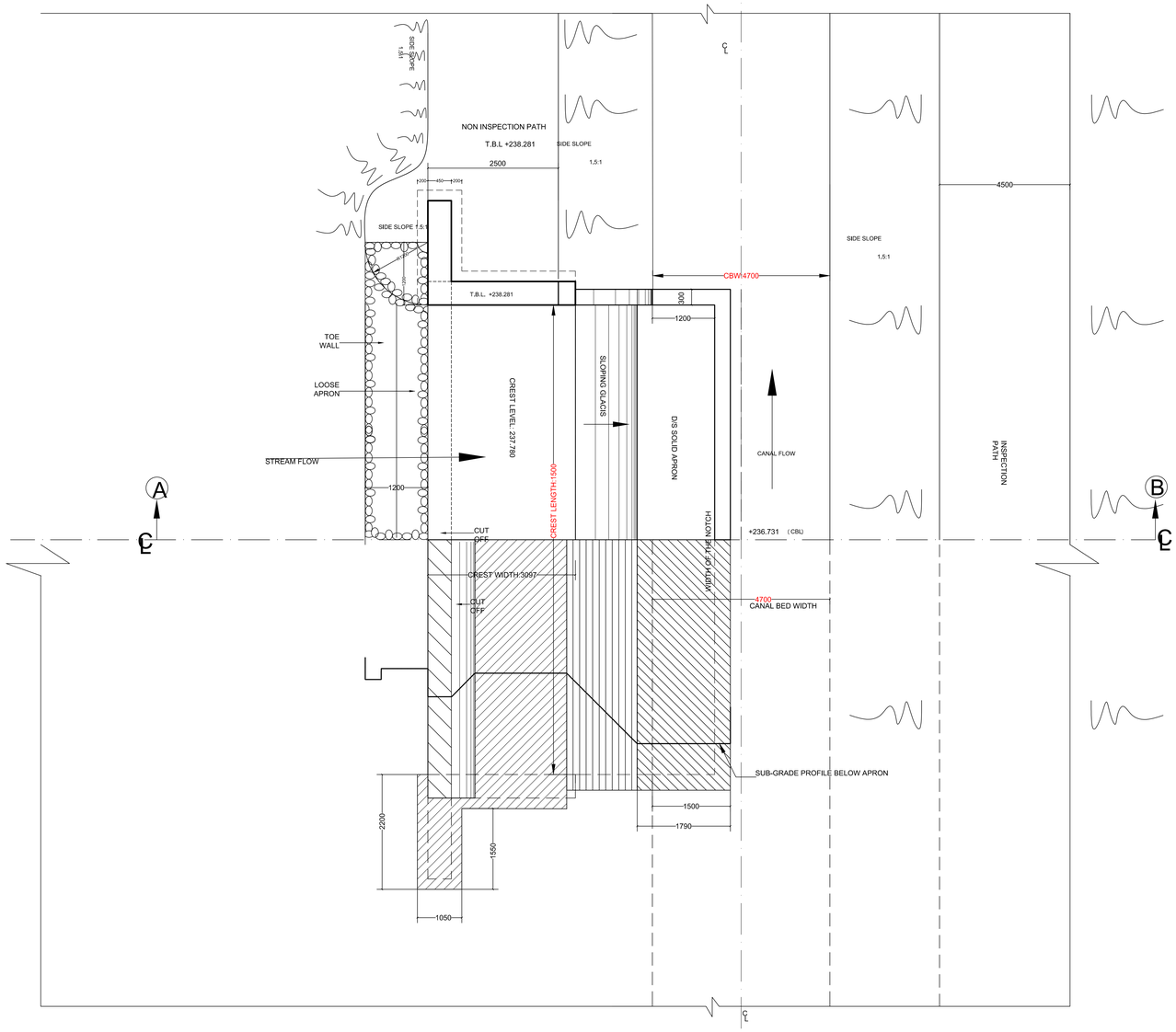


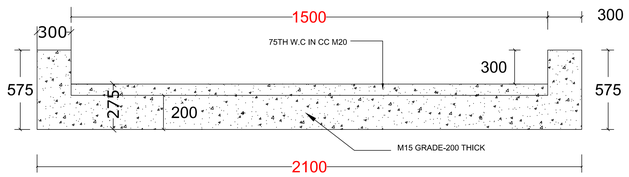
SECTION - AB



WING AND RETURN WALL
ON SOLID APRON



HALF PLAN AT TOP AND HALF AT BOTTOM



LONGITUDINAL SECTION IN CANAL BED

NOTES:

1. ALL THE DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES.

2. FIGURED DIMENSIONS SHALL BE CONSIDERED .

3. ALL THE AGGREGATES SHALL CONFORM TO IS.383.

4. BACK FILLING OF THE WINGS AND RETURNS SHALL BE WITH SELECTED SOILS WHOSE ANGLE OF REPOSE IS NOT LESS THAN 28°. THE FILL BEHIND ABUTMENTS, WING AND RETURN WALLS SHALL CONFORM TO THE SPECIFICATIONS GIVEN IN APPENDIX 6 OF IRC: 78-2000 REAR FACES TO BE BUILT IN STEPS.

5. IF STRATA MET WITH AT FOUNDATION LEVEL DURING EXECUTION IS DIFFERENT FROM WHAT IS CONSIDERED IN THE DESIGN AND IS NOT CAPABLE OF TAKING THE DESIGNED STRESSES (SHOWN IN THE STRESS TABLE), THE FIELD OFFICERS INCHARGE OF EXECUTION SHALL REPORT THE ACTUAL STRATA FOR REVIEW AND REDESIGN IF NECESSARY.

6.THE DRAIN SHALL BE REGRADED TO CREST LEVEL BY CUTTING/FILLING AS THE CASE MAY BE AND JOINED TO NATURAL BED U/S OF REVETMENT.

7.THE BASE APRON OF 200MM THICK M15 CC & WEAQRING COAT OF 75MM THICK-M20 SHALL BE CAST MONOLITHICALLY TO AVOID DISCONTINUITY AT INERFACE.

8.THE SUB-GRADE BELOW THE APRON SHALL BE CAREFULLY PREPARED. IN CASE OF EXPANSIVE SUB-GRADE SAME SHALL BE REPALECD WITH CNS SOILS OF 600MM THICK.

9. THE REVETMENT SHALL BE DONE WITH 225 THICK STONE WITH 300 X 300MM END TOE. THE REVETMENT SHALL BE PROVIDED WITH 200MM THICK COMPACT GRAVEL IF TEH SUB-GRADE IS FILL/LOOSE.

10. THE DESIGN IS CHECKED BASED ON SITE SURVEY & L.S FURNISHED BY THE EE.

11. THE S.B.C OF SOIL IS VERIFIED BEFORE EXCUTION.

12. ON D/S OF WATER PROFILE & U/S NOMINAL REINFORCEMENT AT 10 Ø @ 300 C/C BOTH WAYS IS PROVIDED TO AVOID PITTING.

13. 75 th C.C LINING IN M15 IS PROVIDED ON EITHER SIDES OF STRUCTURE FOR A LENGTH OF 5M OR AS PER AGT.

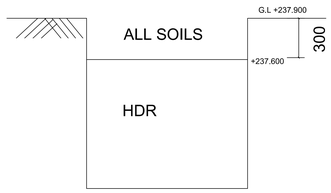
14. THE APPROACH CHANNEL IS PROPOSED WITH 2.2 M WITH 1.5:1 SLOPESWITH GUIDE BUNDS.

Description	Units	Particulars
Discharge (Required)	m^3/sec	3.380
Discharge (Design)	m^3/sec	3.608
Bed Width (B)	m	4.700
Full Supply Depth	m	1.050
Velocity (V)	m/sec	0.55
Bed fal 1 in	-	4700
Side Slope	-	1: 1.5
Free Board	m	0.5
Canal Bed Level	m	+ 236.731
Full Supply Level	m	+ 237.781
Top Bank Level	m	+ 238.281
Rugosity Coefficient (n)	-	0.0225
HYDRAULIC PARTICULARS OF STREAM:		
Catchment Area	=	0.0020 Sq.Km
Stream bed level at crossing	= +	237.900 m

Stress Table

Wings & return

	Max	Min
On Concrete	1.630 t/m^2	0.868 t/m2
On soil	1.831 t/m^2	1.374 t/m^2



TRIAL PIT PARTICULARS

GOVERNMENT OF ANDHRA PRADESH
I &C.A.D. DEPT.,

GANDIKOTA LIFT IRRIGATION SCHEME
INLET AT KM 19.850 OF SANTHAKOVURU CANAL
GENERAL PLAN, ELEVATION ,SECTION & NOTES

DRAWN BY:	RECOMMENDED BY:
CHECKED BY:	APPROVED BY:
SUBMITTED BY:	
SCALE AS INDICATED / FILE NO:	DRG.NO: