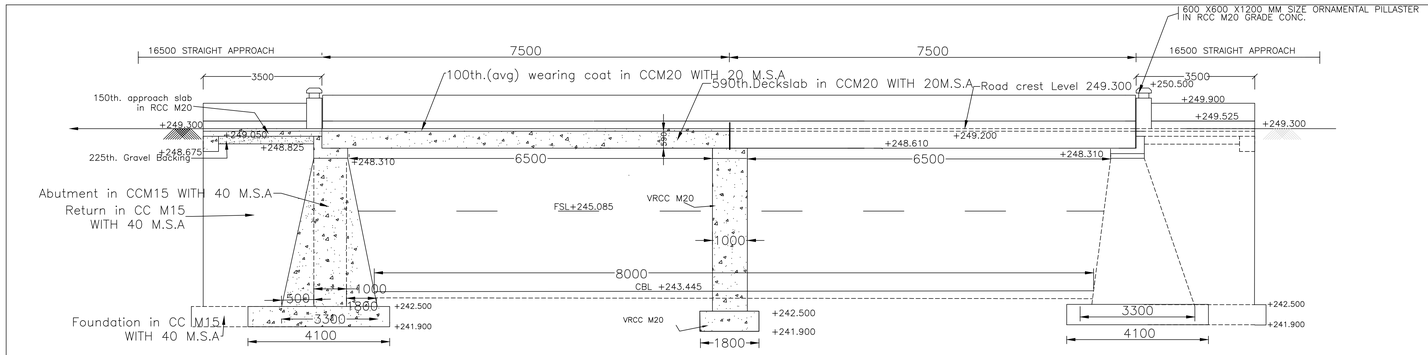
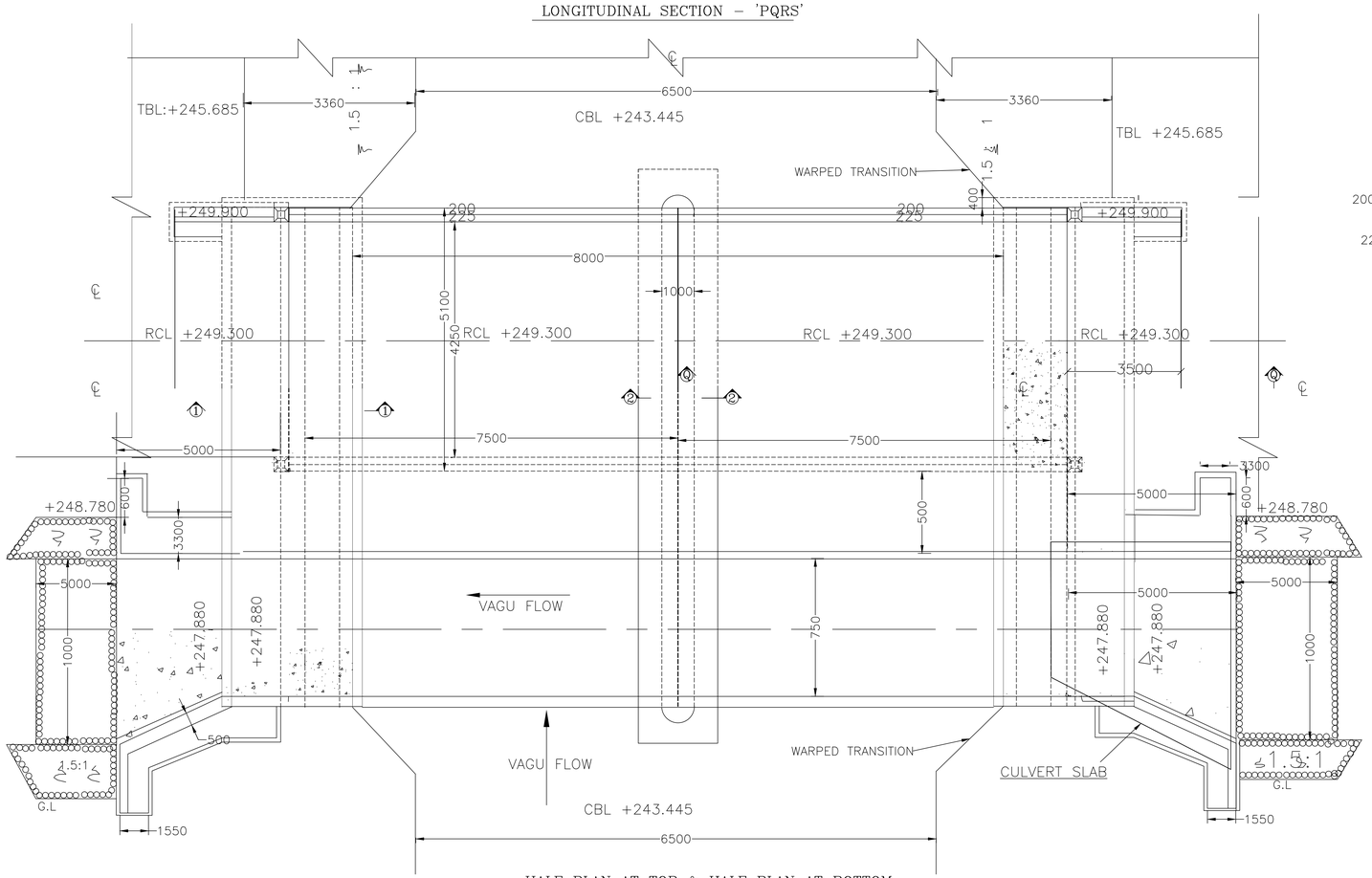
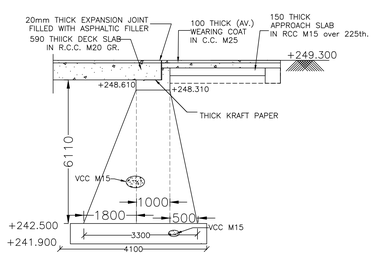


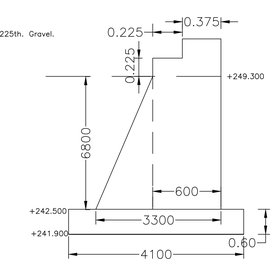
LONGITUDINAL SECTION – 'PQRS'



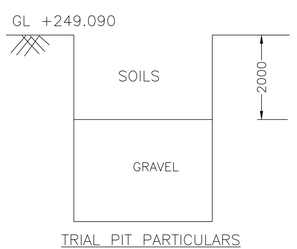
HALF PLAN AT TOP & HALF PLAN AT BOTTOM



SECTION OF ABUTMENT
SECTION A–A

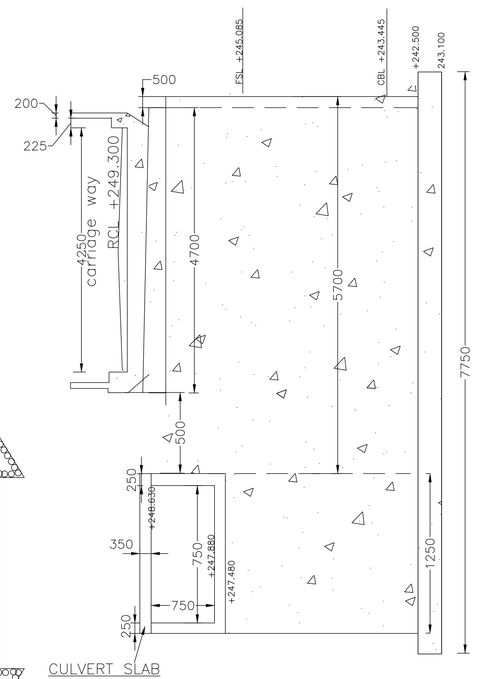


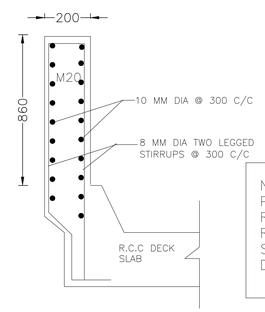
CROSS SECTION OF RETURN WALL
SECTION 3–3



TRIAL PIT PARTICULARS

STRESS TABLE					
Sl.No	DESCRIPTION	STRESS IN CONCRETE		STRESS ON SOIL	
		MAX. (t/Sqm)	MIN. (t/Sqm)	MAX. (t/Sqm)	MIX. (t/Sqm)
1.	BRIDGE PIER	98.387	−39.553	27.368	0.332
2.	ABUTMENTS	34.110	−4.074	27.586	2.601
3	RETURN	37.987	−4.273	27.937	5.601
4	MINOR WINGS & RETURNS	9.410	2.374	6.665	5.332





SECTION OF SIDE WALL OVER THE KERB

NOTE 1. THIS SIDE WALL IS PROPOSED IN PLACE OF HAND RAILING. REINFORCEMENT OF RAILING POST SHOULD BE SUITABLY ANCHORED INTO THE DECK SLAB.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. DO NOT SCALE THE DRAWING, WRITTEN DIMENSIONS SHALL ONLY BE CONSIDERED.
3. THE DRAWING IS APPLICABLE FOR SQUARE CROSSING ONLY.
4. THE CART TRACK CROSSING IS 4250 MM WIDE IN BETWEEN THE KERBS AND IS DESIGNED FOR ONE LANE OF IRC: CLASS-A LOADING.
5. THE ABUTMENTS ARE DESIGNED FOR EARTH PRESSURE BASED ON TVA PROCEDURE WITH BACKFILL SOILS OF NON COHESSIVE NATURE AND AN ANGLE OF INTERNAL FRICTION OF ø = 32° DEGREES AND WITH UNIT WEIGHT OF SATURATED EARTH AS 2.10 T/CUM.
6. a.) ABUTMENTS SHALL BE CONSTRUCTED IN V.C.C. M15 USING 40mm MSA WITH SKIN REINFORCEMENT .
   b)ROAD PIER SHALL BE CONSTRUCTED IN VRCC M20 GRADE USING 20mm MSA.
   c.) TROUGH PIER SHALL BE PROVIDED WITH SKIN REINFORCEMENT OF 8mm ø 60 C/C BOTHWAYS(5Kg/sqm OF EXPOSED AREA)
7. 600mm THICK FOUNDATION IN C.C. M15 GRADE IS TO BE PROVIDED UNDER ABUTMENTS AND PIERS. 600 mm THICK IS TO BE PROVIDED UNDER RETURNS
8. WEARING COAT OVER DECK SLAB AND APPROACH SLAB SHALL BE 100 mm THICK (AVE.) IN C.C. M20 GRADE WITH MESH REINFORCEMENT OF 6mm ø AT 200mm C/C BOTH WAYS.
9. APPROACH SLAB SHALL BE 150mm THICK IN M15 GRADE WITH 12mm ø BARS AT 200 C/C BOTH WAYS AT TOP AND BOTTOM LAID OVER 225mm THICK MOURAM+METAL COMPACTED TO MDD @ OMC.
10. BED BLOCKS ON ABUTMENTS AND PIER SHALL BE IN CC M20 GRADE WITH NOMINAL REINFORCEMNT.
11. 20mm THICK EXPANSION JOINTS ARE TO BE PROVIDED AT THE FACE ENDS OF DECK SLAB OVER ABUTMENT & PIER AND FILLED WITH ASPHALTIC FILLER.
12. WEEP HOLES OF SIZE 100mmø WITH REVERSE FILTER ARE TO BE PROVIDED AT 1.50M C/C STAGGERED IN ABUTMENTS ABOVE F.S.L.
13. DECK SHALL BE IN M20 GRADE CONCRETE USING 20mm MSA.
14. 100mm THICK LININGS SHALL BE PROVIDED IN VCC M15 GR. WITH MAX. OF 40 MM SIZE GRADED COARSE METAL 10 MTS ON EITHER SIDE OF THE STRUCTURE or AS PER THE AGREEMENT WHICH EVER IS LENTHIER. RAMP MAY BE PROVIDED ON EITHER SIDE OF BRIDGE.
15. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH AGREEMENT CONDITIONS.
16. WARPED/SMOOTH TRANSITIONS MAY BE PROVIDED FROM CANAL SECTION TO THE ABUTMENTSTIONS.

HYDRAULIC PARTICULARS @ Km. 15.375

Sl. No.	DESCRIPTION	UNITS	PARTICULARS
1.	DISCHARGE (REQUIRED)	Cumecs	9.068
2.	DISCHARGE (DESIGNED)	Cumecs	9.135
3.	BED WIDTH	m	6.50
4.	F.S.D.	m	1.640
5.	SIDE SLOPES (INNER / OUTER)	---	1.5 : 1
6.	BED FALL	---	1 in 10000
7.	VALUE OF 'n'	---	0.018
8.	VELOCITY	m/sec	0.621
9.	FREE BOARD	m	0.600
10.	TOP WIDTH OF BANKS (L/R)	m	2.50m./5.05m
11.	C.B.L.	m	+243.445
12.	F.S.L.	m	+245.085
13.	T.B.L.	m	+245.685
14.	G.L./R.L	m	+249.096

NOT TO BE SCALED

GOVERNMENT OF ANDHRA PRADESH			
CLIENT :	IRRIGATION & C.A.D DEPARTMENT		
CONTRACTOR :	KBL_MCCL(JV)		
PROJECT :	GANDIKOTA LIFT IRRIGATION SCHEME		
TITLE:	Superpassage Cum Single Lane Road Bridge at km: 15.375 of feeder channel from Paidipalem to Himakunta Sump GENERAL PLAN, ELEVATION, SECTION & NOTES		
Drg.No: 1/3	Scale:	Drawn by:	
Prepared by: Contractor, KBL_MCCL(JV)	Submitted by: Executive Engineer G.K.L.I DIVISION, PULIVENDULA	Approved by: Superintending Engineer, G.N.S.S Circle,KADAPA	

Assistant Executive Engineer
G.K.L.I subdivision no 4,
KONDAPURAM

Deputy Executive Engineer
G.K.L.I subdivision no 4,
KONDAPURAM

Prepared by

For KBL- MCCL(J.V)
Authorised Signatory
Contractor,
KBL_MCCL(JV)