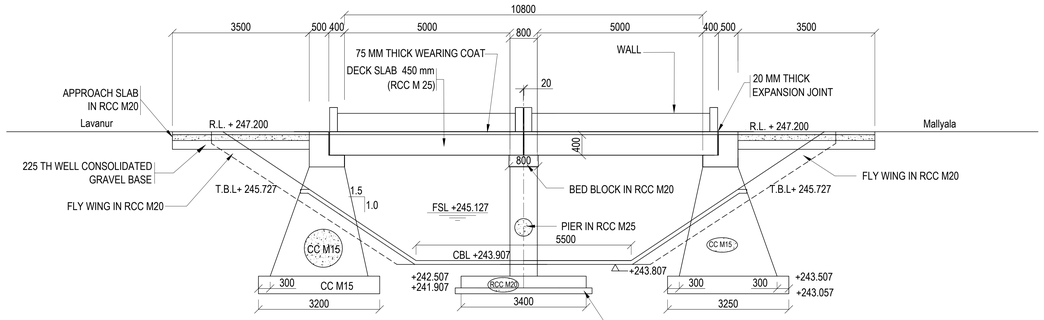
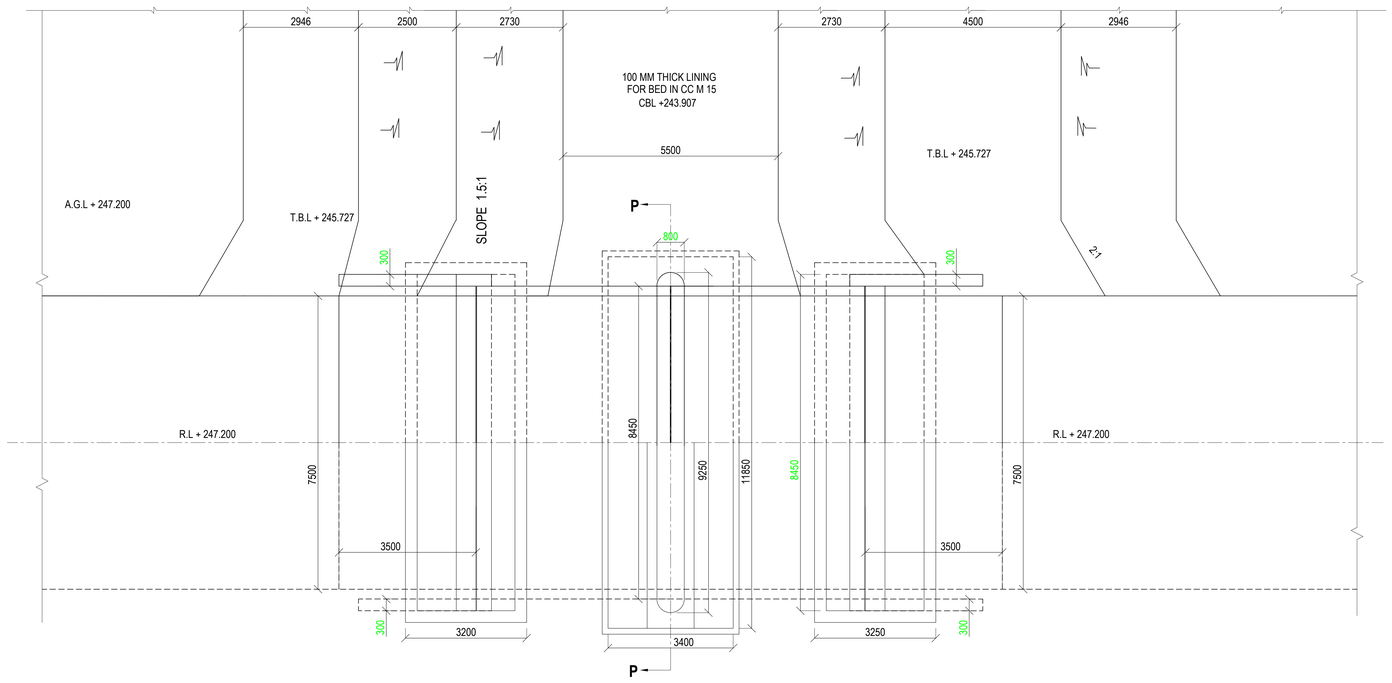


SECTIONAL ELEVATION

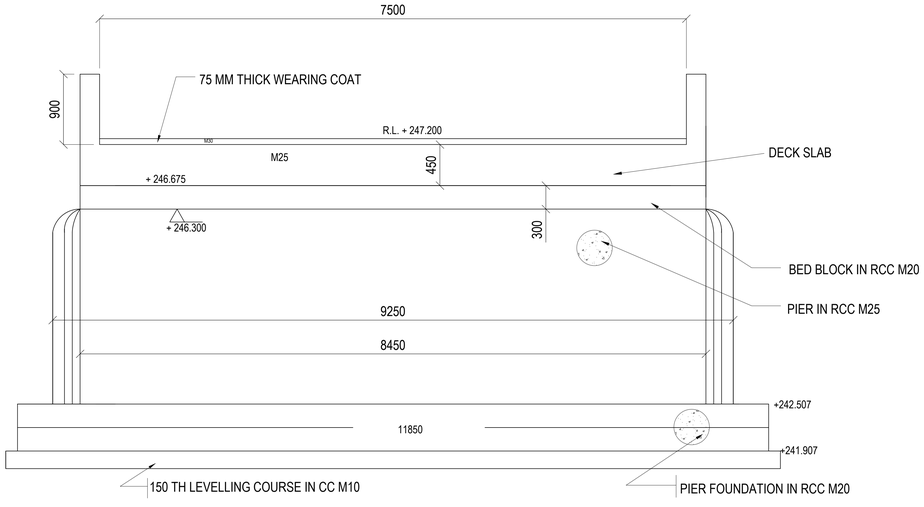
(ALONG THE ℄ OF ROAD WAY)

SCALE 1 : 100



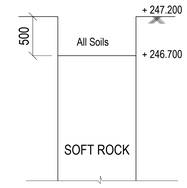
HALF PLAN AT TOP AND HALF PLAN AT BOTTOM

SCALE 1 : 100

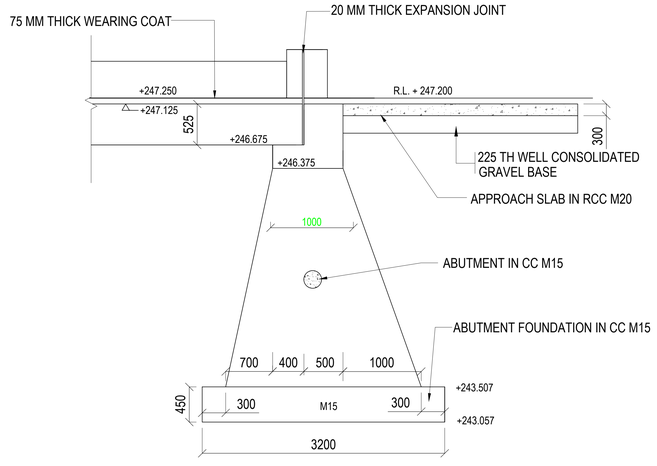


SECTIONAL ELEVATION AT ' PP '

SCALE 1 :50



TRAIL PIT PARTICULARS @ KM 3.965



SECTION OF ABUTMENT

SCALE 1 : 50

NOTES AND SPECIFICATIONS

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. DO NOT SCALE THE DRAWING. ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
3. THE DOUBLE LANE ROAD BRIDGE IS DESIGNED FOR A CARRIAGE WAY WIDTH OF 7.5M. AND FOR ONE LANE OF IRC CLASS 'AA' LOADING or TWO LANES OF CLASS'A'LOADING.
4. THE BRIDGE IS DESIGNED ADOPTING THE FOLLOWING IRC AND IS CODES.
   i. IRC - 5 - 1998
   ii. IRC - 6 - 2000
   iii. IRC - 21- 2000
   iv. IRC - 78- 2000
   v. IRC - 83- 2000
   vi. IS 456 - 2000
   vii. IS 383
5. THE SPECIFICATIONS PROPOSED FOR THE VARIOUS COMPONENTS OF THE STRUCTURE ARE AS FOLLOWS.

Sl.No	DETAILS OF COMPONENTS	GRADE OF CONCRETE AS PER IRC: 6–2000	MAX. SIZE OF C.A AS PER IS:383
1	WEARING COAT OF SLAB	CC M30	20 MM
2	DECK SLAB	RCC M25	20 MM
3	BED BLOCK OVER ABUTMENT	RCC M20	20 MM
4	BEDBLOCK OVER PIER	RCC M20	20 MM
5	PIER	RCC M25	20 MM
6	ABUTMENT,RETURN	CC M15	20 MM
7	PIER FOUNDATION	RCC M20	20 MM
8	ABUTMENT,RETURN FOUNDATION	CC M15	20 MM
9	APPROACH SLAB	RCC M20	20 MM
10	LEVELLING COURSE FOR PIER	CC M15	20 MM
11	LINING FOR CANAL	CC M15	20 MM

HYDRAULIC PARTICULARS

S.NO	DESCRIPTION OF ITEMS	QUANTITY & UNITS
1	DISCHARGE REQUIRED	5.822 CUMECS
2	DISCHARGE DESIGNED	5.873 CUMECS
3	BED WIDTH	5.50 M
4	FULL SUPPLY DEPTH	1.220 M
5	VELOCITY	0.657 M/SEC
6	BED FALL	1 in 4000
7	SIDE SLOPES (HDR/ SOILS)	1.5 : 1
8	COEFFICIENT OF RUGOSITY	0.0225
9	CANAL BED LEVEL	+ 243.907 M
10	FULL SUPPLY LEVEL	+ 245.127 M
11	TOP OF BANK LEVEL	+ 245.727 M
12	EXSISTING ROAD LEVEL	+ 247.200 M
13	PROPOSED ROAD LEVEL	+ 247.200M
14	SKEW ANGLE	0 °
15	Free Board	0.600 m
16	Top Width of Banks	4.5/2.5

STRESS TABLE

S.NO	DESCRIPTION OF ITEMS	STRESSES IN T / SQ.M			
		IN CONCRETE		ON SOIL	
		MAX.	MIN.	MAX.	MIN.
1	ABUTMENT	27.078	-4.055	21.856	0.727
2	Return	24.193	-4.839	18.559	0.662
3	PIER				
	Case-i	82.799	-40.159	9.380	0.106
	Case-ii	76.652	-33.206	9.233	0.399

REFERENCE DRAWINGS

1. DRAWING NO. PET/DLB/002/2009 - RCC DETAILS OF PIER, PIER FOOTING AND ABUTMENT

ASST.EXECUTIVE ENGINEER
GNSS CIRCLE,KADAPA

SD/- DATED:17.11.2009
SUPERINTENDING ENGINEER
GNSS CIRCLE,KADAPA

REVISION NO:	DRAWN	CHECKED	APPROVED	DATE
CLIENT	GOVERNMENT OF ANDHRA PRADESH IRRIGATION & CAD DEPARTMENT			
PROJECT	GANDIKOTA LIFT IRRIGATION SCHEME SANTHAKOVUR DISTRIBUTORY			
TITLE	DOUBLE LANE ROAD BRIDGE AT KM. 3.965 PLAN, SECTION, PEIR & ABUTMENT DETAILS			
CONTRACTORS	M/S KBL - MCCL (JV) PUNE			
CONSULTANTS	PADMA ENGINEERING TEAM (INDIA) Pvt. Ltd. 7-1-621/259, 4th FLOOR, SAHITHI ARCADE, S.R.NAGAR, HYDERABAD - 38			
DRAWING NO:	SHEET No	SCALE	DATE	
PET/DLB/001/2009	1 OF 2	AS INDICATED	09/08/2009	