

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 IRC 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	ABUTMENT,RETURN	CC M15	20 MM
5	ABUTMENT,RETURN FOUNDATION	CC M15	20 MM
6	APPROACH SLAB	RCC M20	20 MM
7	LINING FOR CANAL	CC M15	20 MM

HYDRAULIC PARTICULARS

S.NO	DESCRIPTION OF ITEMS	QUANTITY & UNITS
1	DISCHARGE REQUIRED	1.922 CUMECS
2	DISCHARGE DESIGNED	1.940 CUMECS
3	BED WIDTH	3.00 M
4	FULL SUPPLY DEPTH	0.850 M
5	VELOCITY	0.534 M/SEC
6	BED FALL	1 IN 3500
7	SIDE SLOPES ( HDR/ SOILS )	1.5 : 1
8	COEFFICIENT OF RUGOSITY	0.0225
9	CANAL BED LEVEL	+ 239.795 M
10	FULL SUPPLY LEVEL	+ 240.645 M
11	TOP OF BANK LEVEL	+ 241.245 M
12	EXSISTING ROAD LEVEL	+ 242.183 M
13	PROPOSED ROAD LEVEL	+ 242.183 M
14	SKEW ANGLE	0 °
15	FREE BOARD	0.600M
16	TOP WIDTH OF BANKS	4.500/2.500

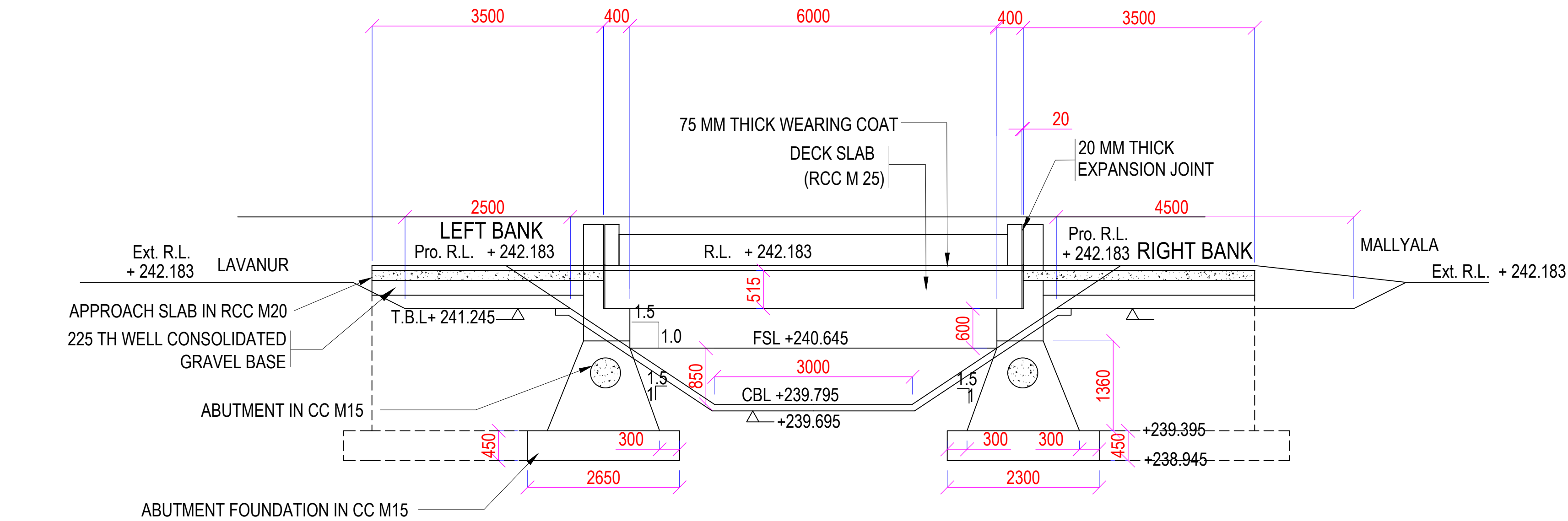
STRESS TABLE

S.NO	DESCRIPTION OF ITEMS	STRESSES IN T / SQ.M			
		IN CONCRETE		ON SOIL	
		MAX.	MIN.	MAX.	MIN.
1	ABUTMENT	24.847	(-) 3.098	19.675	0.901
2	RETURN WALL	19.960	(-) 4.745	14.395	0.714

REFERENCE DRAWINGS

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

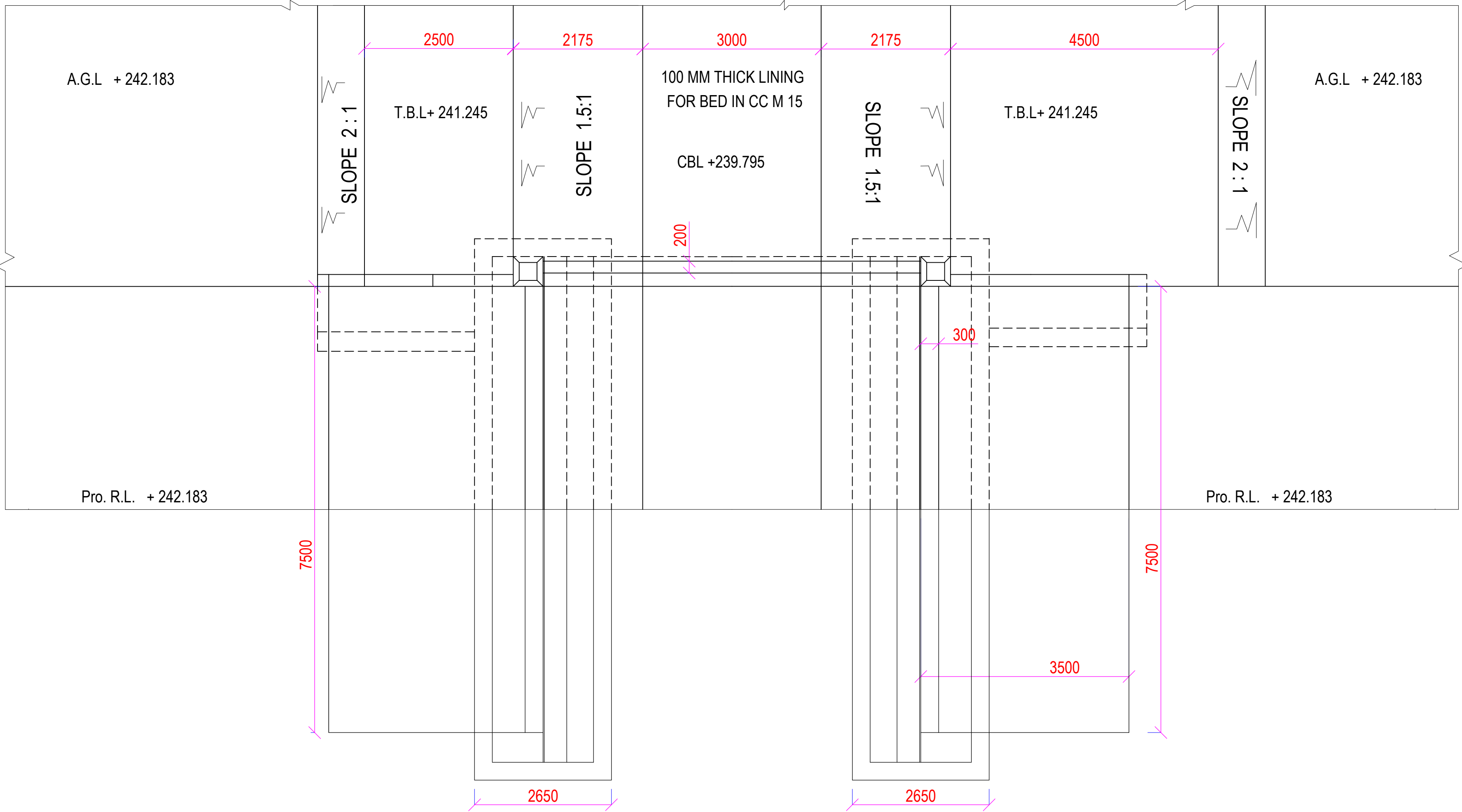
REVISION NO:	DRAWN	CHECKED	APPROVED	DATE
CLIENT	GOVERNMENT OF ANDHRA PRADESH IRRIGATION & CAD DEPARTMENT			
PROJECT	GANDIKOTA LIFT IRRIGATION SCHEME SANTHAKOVUR DISTRIBUTORY			
TITLE	DOUBLE LANE ROAD BRIDGE AT KM. 14.710 GENERAL PLAN AND SECTIONS			
CONTRACTORS	M/S KBL - MCCL (JV) PUNE			
CONSULTANTS	PADMA ENGINEERING TEAM 3A, JAIN AASHRITA, 274, 3RT, S.R.NAGAR, HYDERABAD - 38			
DRAWING NO:	SHEET No	SCALE	DATE	
PET/DLB/001/2009	1 OF 2	AS INDICATED	09/08/2009	



SECTIONAL ELEVATION

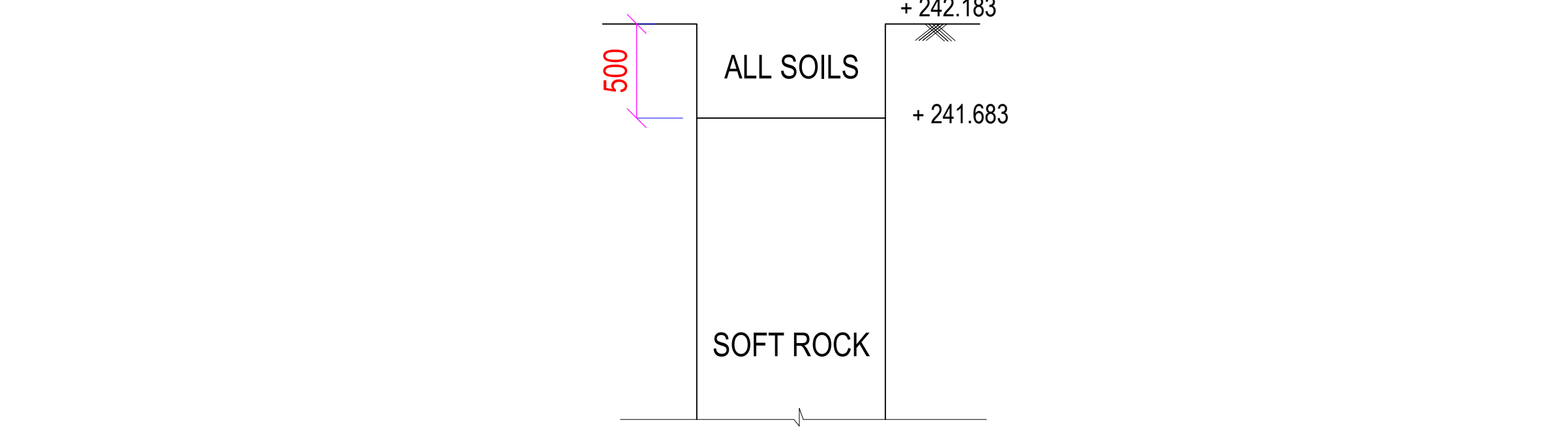
(ALONG THE C/L OF ROAD WAY)

SCALE 1 : 100

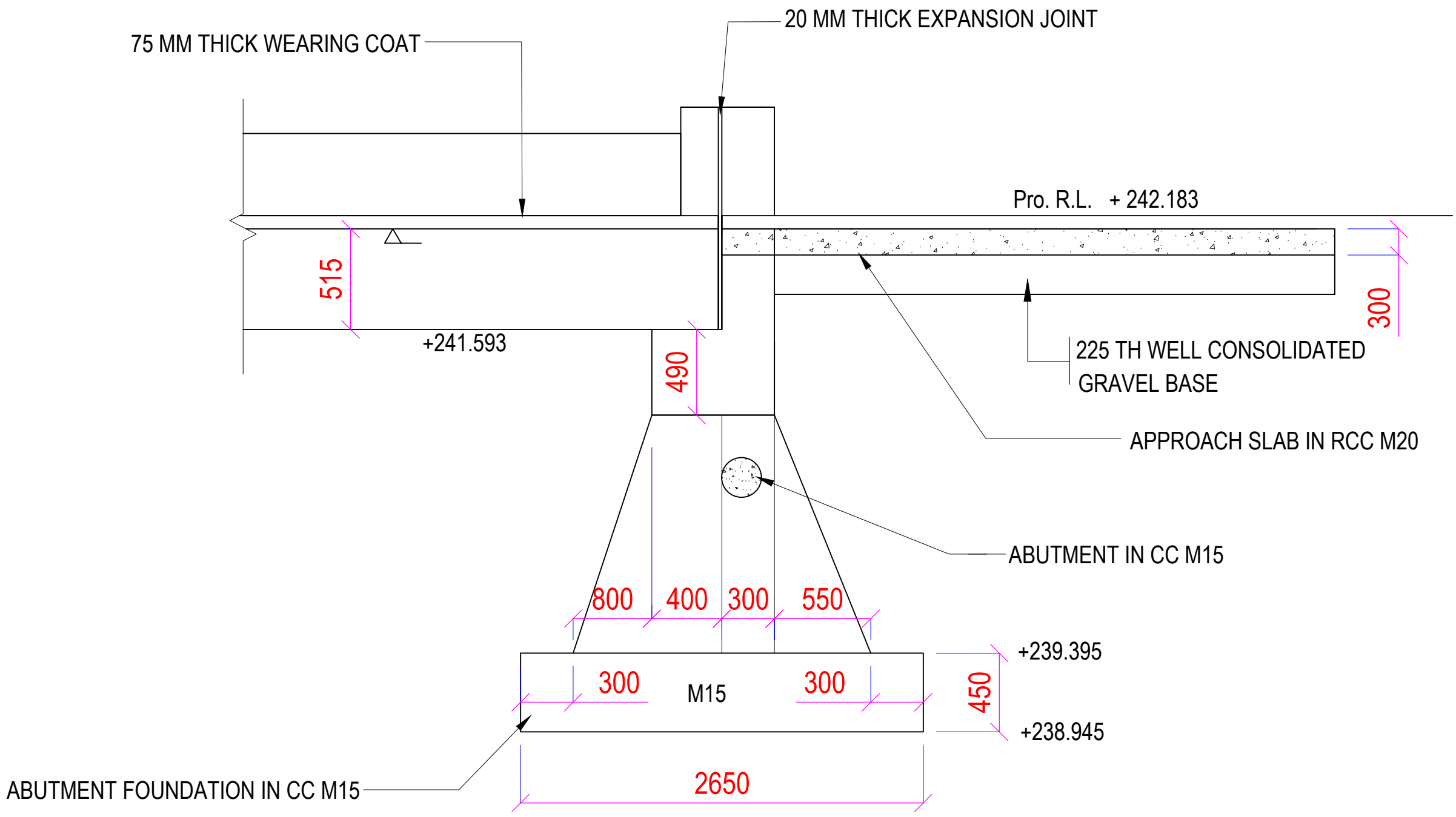


HALF PLAN AT TOP AND HALF PLAN AT BOTTOM

SCALE 1 : 100



TRAIL PIT PARTICULARS @ KM 14.710



SECTION OF ABUTMENT

SCALE 1 : 50

ASST.EXECUTIVE ENGINEER  
GNSS CIRCLE,KADAPA

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