

## NOTES AND SPECIFICATIONS

- ALL THE DIMENSIONS ARE IN MILLIMETRES AND THE LEVELS ARE IN METRES.
- DO NOT SCALE THE DRAWING. ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
- THE SINGLE LANE ROAD BRIDGE IS DESIGNED FOR A CARRIAGE WAY WIDTH OF 4.25M AND FOR ONE LANE OF IRC CLASS 'A' LOADING.
- THE BRIDGE IS DESIGNED ADOPTING THE FOLLOWING IRC AND IS CODES.
  - IRC - 5 - 1998
  - IRC - 6 - 2000
  - IRC - 21 - 2000
  - IRC - 78 - 2000
  - IRC - 83 - 2000
  - IS 456 - 2000
  - IS 383
- 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 M20	20 MM
3	BED BLOCK OVER ABUTMENT	RCC M25	20 MM
4	BEDBLOCK OVER PIER	RCC M25	20 MM
5	PIER	RCC M25	20 MM
6	ABUTMENT AND RETURN	CC M15	40 MM
7	PIER FOUNDATION	RCC M20	20 MM
8	ABUTMENT FOUNDATION	CC M15	40 MM
9	APPROACH SLAB	CC M20	20 MM
10	LEVELLING COURSE FOR PIER	CC M10	40 MM
11	LINING FOR CANAL	CC M10	20 MM

## HYDRAULIC PARTICULARS

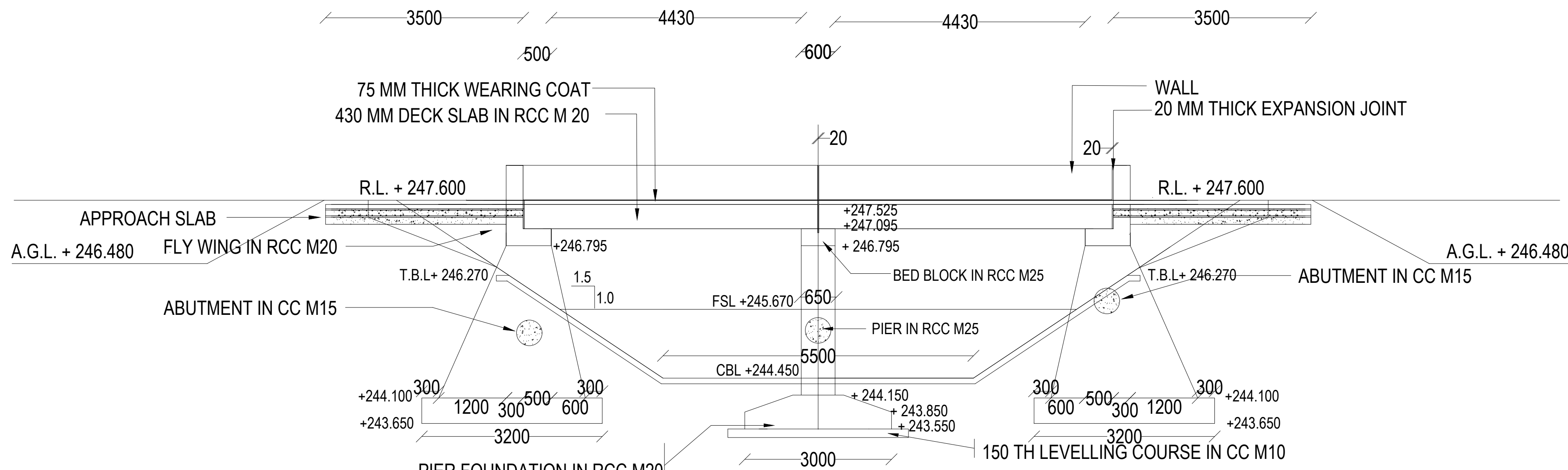
S.NO	DESCRIPTION OF ITEMS	QUANTITY & UNITS
1	DISCHARGE REQUIRED	5.820 CUMECs
2	DISCHARGE DESIGNED	5.870 CUMECs
3	BED WIDTH	5.50 M
4	FULL SUPPLY DEPTH	1.22 M
5	VELOCITY	0.66 M/SEC
6	BED FALL	1 / 4000
7	SIDE SLOPES ( HDR/ SOILS )	1.5 : 1
8	COEFFICIENT OF RUGOSITY	0.0225
9	CANAL BED LEVEL	+ 244.450 M
10	FULL SUPPLY LEVEL	+ 245.670 M
11	TOP OF BANK LEVEL	+ 246.270 M
12	EXSISTING ROAD LEVEL	+ 246.480M
13	PROPOSED ROAD LEVEL	+ 247.600M
14	SKEW ANGLE	0 °

## STRESS TABLE

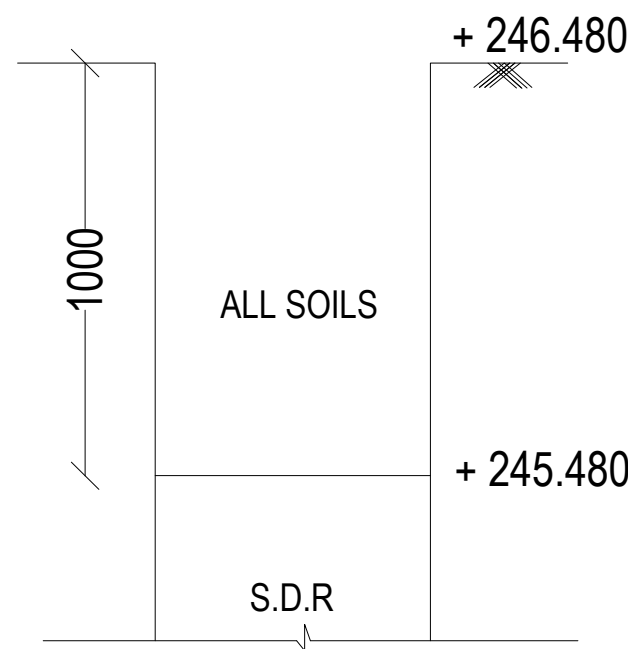
S.NO	DESCRIPTION OF ITEMS	STRESSES IN T / SQ.M			
		IN CONCRETE		ON SOIL	
		MAX.	MIN.	MAX.	MIN.
1	PIER	107.65	(-) 59.32	10.06	0.56
2	ABUTMENT	27.13	(-) 5.16	21.33	0.43

## REFERENCE DRAWINGS

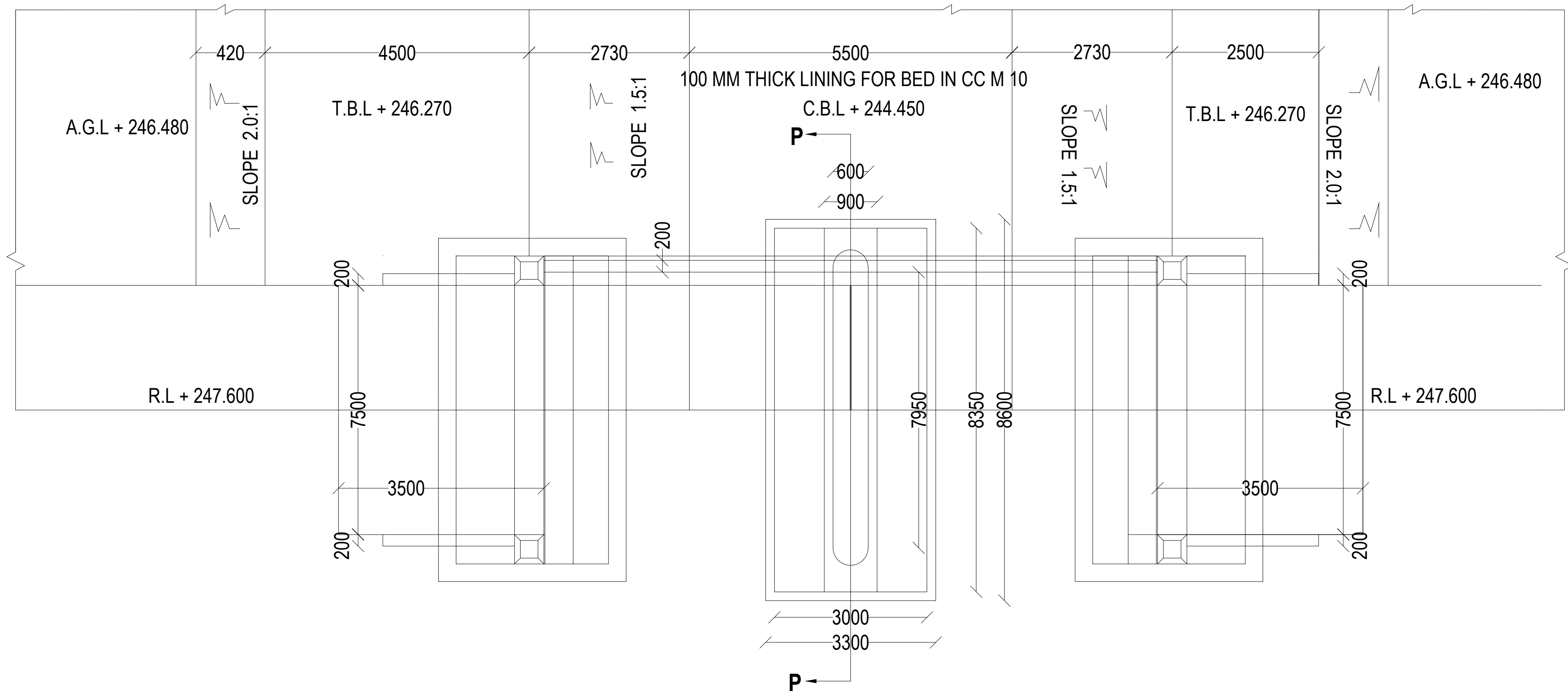
- DRAWING NO. SKD/SLRB/002/2008 - RCC DETAILS OF PIER, PIER FOOTING AND ABUTMENT



SECTIONAL ELEVATION 'A-A'

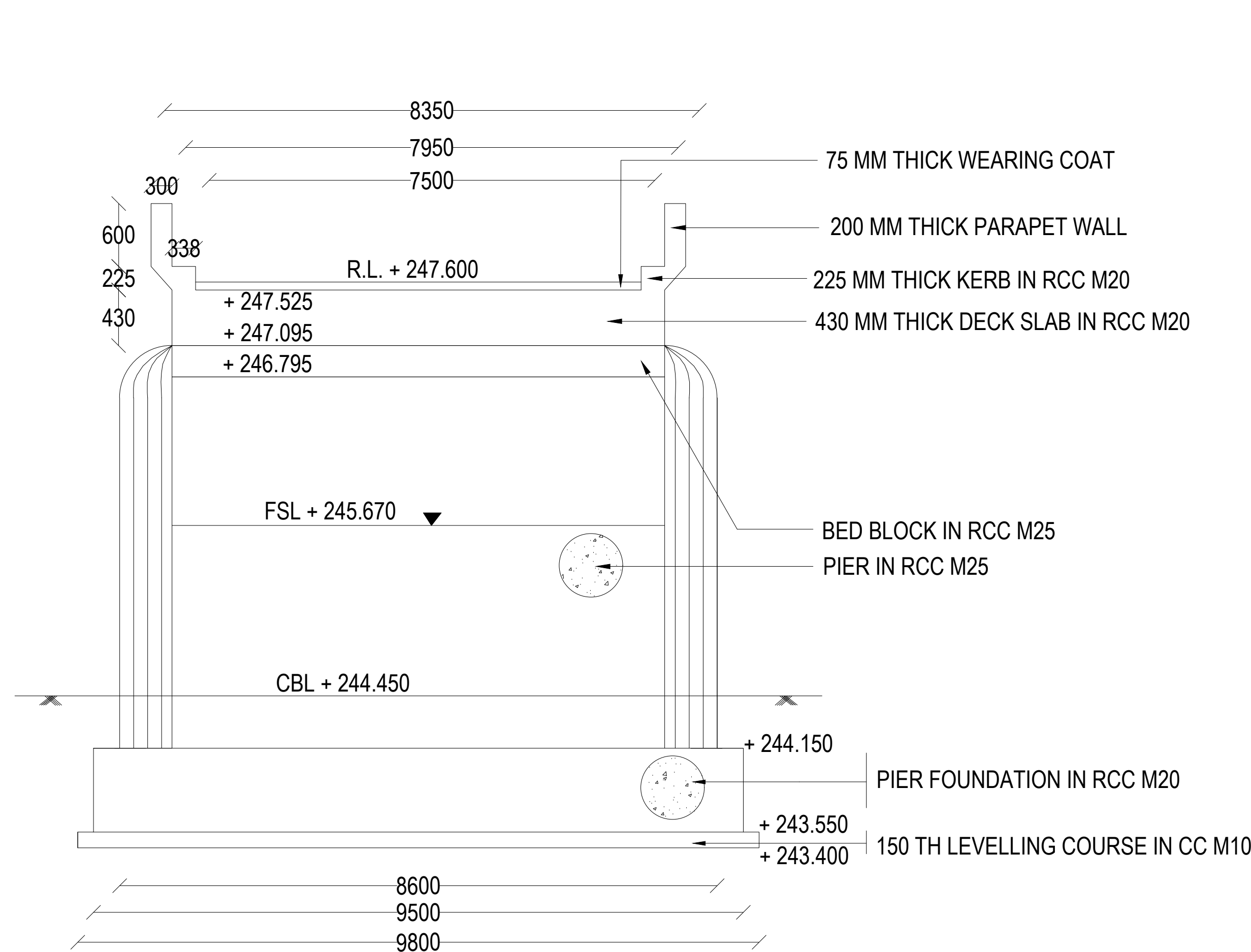


TRAIL PIT PARTICULARS @ KM 2.025



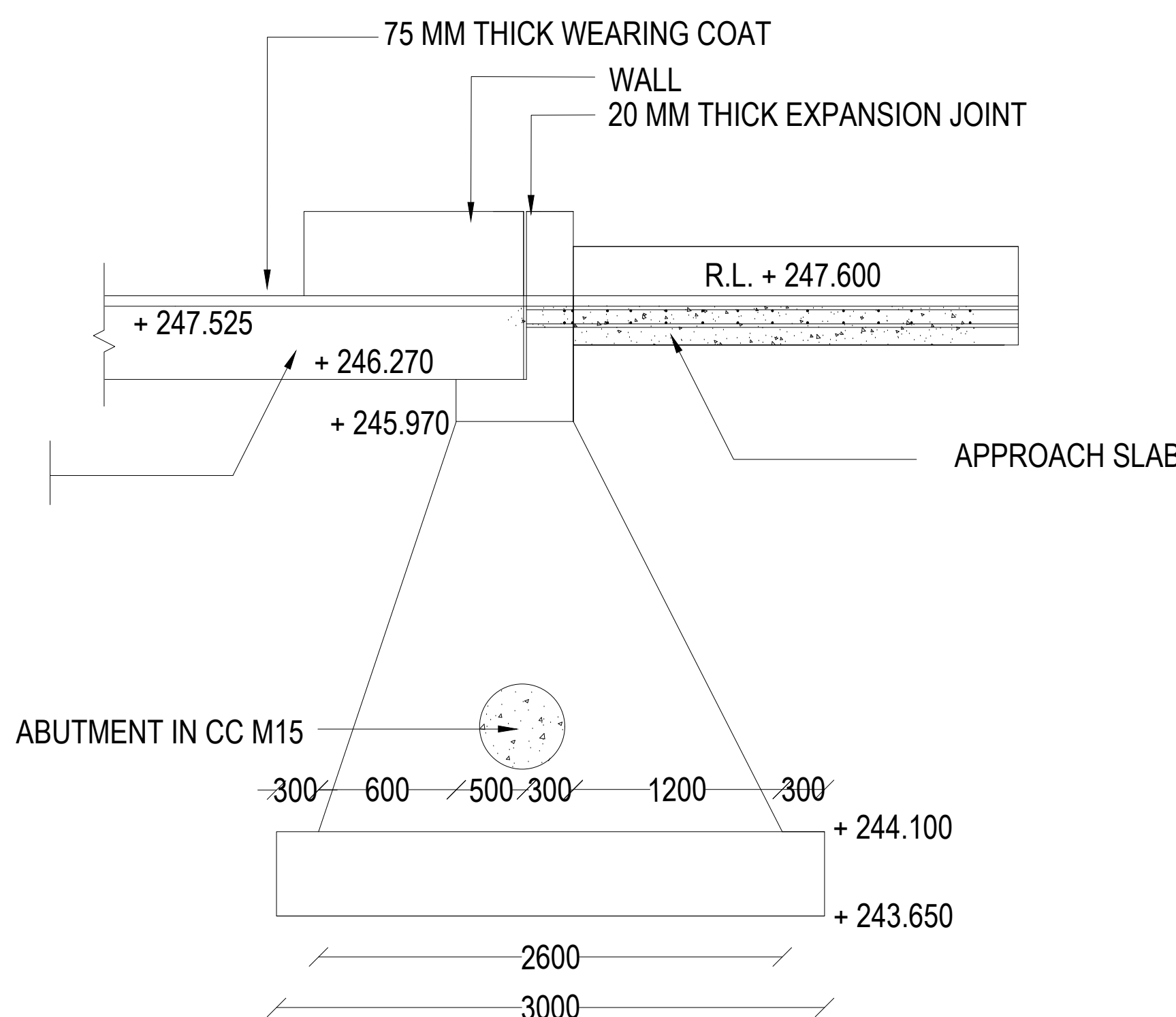
HALF PLAN AT TOP AND HALF PLAN AT BOTTOM

SCALE 1 : 100



SECTIONAL ELEVATION AT ' PP '

SCALE 1 : 50



SECTION OF ABUTMENT

SCALE 1 : 50

Sd/- 15-8-08  
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. 2.025 GENERAL PLAN AND SECTIONS			
CONTRACTORS	M/S KBL - MCCL (JV) PUNE			
CONSULTANTS				
DRAWING NO:	SCALE		DATE	
SKD/SLRB/001/2008	AS INDICATED			