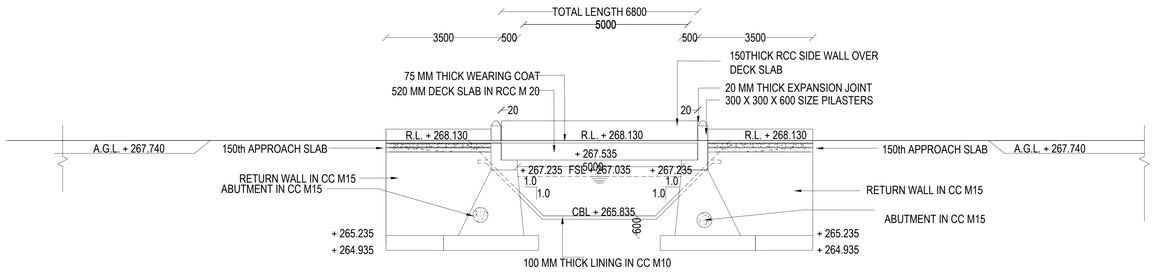
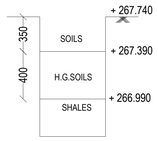
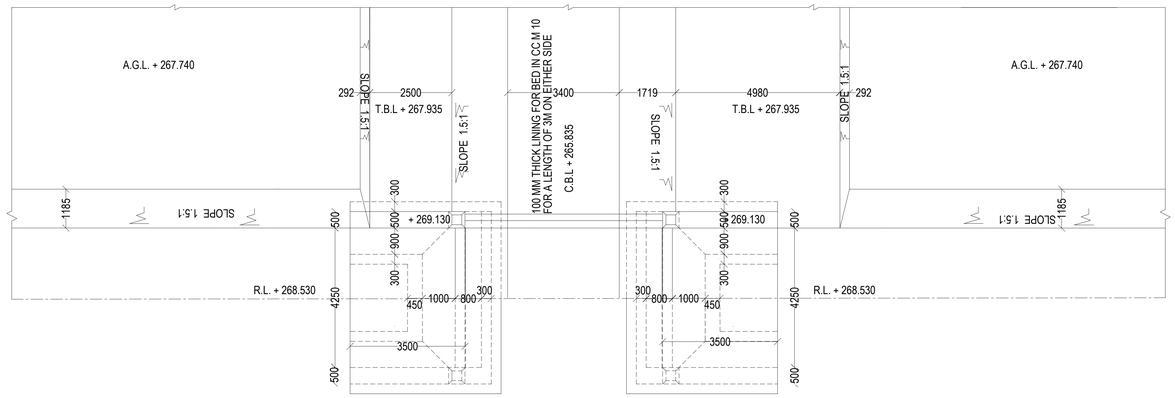


SECTIONAL ELEVATION

SCALE 1 : 100



TRAIL PIT PARTICULARS @ KM 3.680



HALF PLAN AT TOP AND HALF PLAN AT BOTTOM

SCALE 1 : 100

HYDRAULIC PARTICULARS

S.NO	DESCRIPTION OF ITEMS	QUANTITY & UNITS
1	DISCHARGE REQUIRED	3.262 CUMECS
2	DISCHARGE DESIGNED	3.600 CUMECS
3	BED WIDTH	3.40 M
4	FULL SUPPLY DEPTH	1.20 M
5	VELOCITY	0.650 M/SEC
6	BED FALL	1 / 5500
7	SIDE SLOPES (HDR/ SOILS)	1.0 : 1
8	COEFFICIENT OF RUGOSITY	0.018
9	CANAL BED LEVEL	+ 265.835 M
10	FULL SUPPLY LEVEL	+ 267.035 M
11	TOP OF BANK LEVEL	+ 267.935 M
12	EXSISTING ROAD LEVEL	+ 267.740 M
13	PROPOSED ROAD LEVEL	+ 268.530 M
14	SKEW ANGLE	0 °

NOTES AND SPECIFICATIONS

1/2

1. ALL THE DIMENSIONS ARE IN MILLMETRES AND THE LEVELS ARE IN METRES.
2. DO NOT SCALE THE DRAWING. ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
3. THE SINGLE LANE ROAD BRIDGE IS DESIGNED FOR A CARRIAGE WAY WIDTH OF 4.25M AND FOR ONE LANE 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 M25	20 MM
2	DECK SLAB	RCC M20	20 MM
3	BED BLOCK OVER ABUTMENT	RCC M25	20 MM
4	ABUTMENT AND RETURN	CC M15	40 MM
5	ABUTMENT & RETURN FOUNDATION	CC M15	40 MM
6	APPROACH SLAB	CC M25	20 MM
7	LINING FOR CANAL	CC M15	20 MM

NOTES AND SPECIFICATIONS

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

2 DO NOT SCALE THE DRAWINGS. WRITTEN DIMENSIONS ONLY SHALL BE FOLLOWED.

3 THE DESIGN IS ACCORDING TO THE FOLLOWING BRIDGE AND IS CODES:
1) IRC 5 - 1998 2) IRC 6 - 2000 3) IRC 21 - 2000 AND 4) IS 456 - 2000.

4 MINIMUM COVER TO ALL REINFORCEMENT INCLUDING STIRRUPS SHALL BE 40MM UNLESS OTHER WISE SPECIFIED TO ENSURE PROPER CONCRETE COVER TO REINFORCEMENT.

5 ALL REINFORCEMENT STEEL SHALL BE OF HIGH YIELD STRENGTH DEFORMED BARS (Fe 415) CONFORMING TO IS 1786 - 1985.

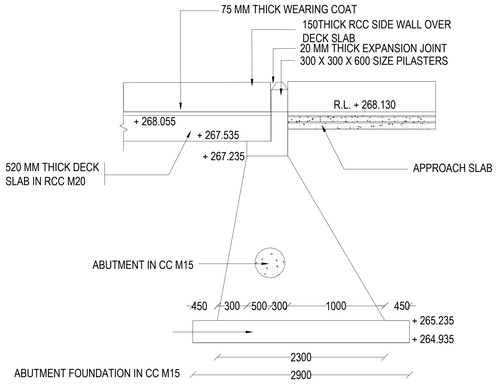
6 JOINTS OR LAPPING OF BARS IN MAIN REINFORCEMENT SHALL BE AVOIDED AS FAR AS POSSIBLE. HOWEVER IF LAPS ARE INEVITABLE THE PROVISION IN CLAUSE 304.6.6 OF IRC 21 - 2000 SHALL BE STRICTLY FOLLOWED.

7 BENDING OF REINFORCEMENT BARS SHALL BE AS PER IS -2502. SUPPORTING CHAIRS OF 12Ø SHALL BE STRICTLY FOLLOWED.

8 CONCRETE SHALL BE PREPARED IN THE MECHANICAL MIXERS OF CAPACITY NOT LESS THAN 200 LITRES. PROPER COMPACTION OF CONCRETE SHALL BE ENSURED BY USE OF FORM AND NEEDLE VIBRATORS.

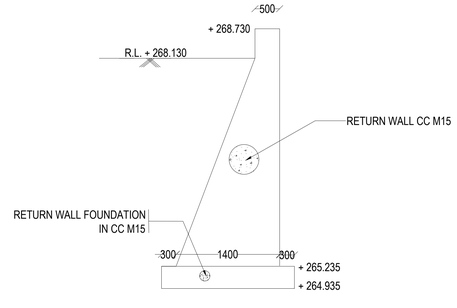
9 BACK FILLING SHALL BE DONE SIMULTANEOUSLY WITH THE RAISING OF THE STRUCTURE WITH Ø VALUE OF SOIL NOT LESS THAN 28° OR 'K' VALUE NOT MORE THAN 3 M/YEAR.

10 IF THE STRATA MET WITH AT FOUNDATION LEVEL DURING EXECUTION IS DIFFERENT FROM WHAT IS CONSIDERED IN THE DESIGN (SHOWN IN STRESS TABLE), THE SECTION NEEDS TO BE RE DESIGNED. THE RETIRNS CAN FOUNDED AT HEIGHR LEVEL IF HARD STRATA IS MET WITH. SECTION SHALL BE ADOPTED ACCORDINGLY FOR RETURNS.



SECTION OF ABUTMENT

SCALE 1 : 50

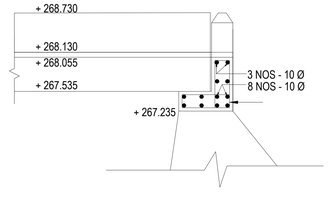


SECTION OF RETURN

SCALE 1 : 50

STRESS TABLE

S.NO	DESCRIPTION OF ITEMS	STRESSES IN T / SQ.M			
		IN CONCRETE		ON SOIL	
		MAX.	MIN.	MAX.	MIN.
1	ABUTMENT	26.01	(-) 5.91	18.50	0.31
2	RETURN	25.51	-6.48	15.62	1.05



RCC DETAILS OF BED BLOCK & DIRT WALL

SCALE 1 : 50

REFERENCE DRAWINGS

1. DRAWING NO. MSC/SLRB-3.68/002/2008 - RCC DETAILS OF DECK SLAB, KERB AND ABUTMENT BED BLOCK

REVISION NO:	DRAWN	CHECKED	APPROVED	DATE

CLIENT	GOVERNMENT OF ANDHRA PRADESH IRRIGATION & CAD DEPARTMENT
PROJECT	GANDIKOTA LIFT IRRIGATION PROJECT MALYALA SUPPLY CANAL
TITLE	SINGLE LANE ROAD BRIDGE AT KM. 3.680 GENERAL PLAN AND SECTIONS
CONTRACTORS	M/S KBL - MCCL (JV) PUNE
CONSULTANTS	

DRAWING NO:	SCALE	DATE
GKLIS/MSC/SLRB-3.68/001/2008	AS INDICATED	