



**LEGEND & ABBREVIATIONS**

- CI - SILTS AND CLAYS WITH MIXTURE OF MEDIUM PLASTICITY
- CL - MEDIUM DENSE BROWNISH SAND SILTY CLAY OF LOW PLASTICITY
- MI-CL - MEDIUM DENSE BROWNISH SILTY CLAY OF SLIGHTLY PLASTICITY
- SM-SI - MEDIUM DENSE BLACKISH SAND SILTY CLAY MIXTURE OF NON-PLASTICITY
- SM - MEDIUM DENSE BLACKISH SAND SILTY CLAY MIXTURE OF NON-PLASTICITY

**NOTES:**

- ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER UNLESS OTHERWISE MENTIONED.
- DIMENSIONS SHALL NOT BE SCALED OFF FROM THE DRAWING.

LEVELS						
GRD NO.	CHANGAGE (M)	GROUND LEVEL (M)	SPAN IN (M)	GRADIENT 1:1	FINISHED ROAD LEVEL (M)	
END	-329.200	9.887	30	9.887		
AS	-104.200	9.416	20.840	30	17.381	
PS4	-83.360	9.495	20.840	30	18.075	
PS3	-62.520	9.552	20.840	30	18.770	
PS2	-41.680	9.618	20.840	30	19.465	
PS1	-20.840	9.684	20.840	30	20.158	
A1	0.000	9.750	0.000	0.000	20.854	
P1	19.260	10.244	0.000	0.000	20.854	
P2	38.520	10.400	0.000	0.000	20.854	
P3	57.780	10.419	0.000	0.000	20.854	
A2	107.040	10.431	0.000	0.000	20.854	
PN1	127.880	10.331	20.840	40	20.333	
PN2	148.720	10.274	20.840	40	19.812	
PN3	169.560	10.175	20.840	40	19.291	
PN4	190.400	10.001	20.840	40	18.770	
PN5	211.240	9.779	20.840	40	18.249	
PN6	232.080	9.620	20.840	40	17.728	
PN7	252.920	9.452	20.840	40	17.207	
AN	273.760	9.255	20.840	40	16.686	
END	263.760	9.461	40	9.4610		

**NOTES:**

- THIS CAD IS BASED ON THE APPROVED RAILWAY CAD FOR THIS LC NO.130-C W/C/CPM/S/CLC-NO.130 CONSIDERING THE GEOTECHNICAL REPORT SUPPLIED BY THE DEPARTMENT.
- THE CONTRACTOR BEFORE STARTING THE WORK SHALL CARRY OUT THE COMPLETE SURVEY TO CORROBORATE THE DATA CONSIDERED INCLUDING RAIL TRACK LEVELS. IF ANY CHANGE IS OBSERVED SAME SHALL BE REFERRED TO DESIGN CONSULTANT FOR NECESSARY ACTION.
- THE SUB-SOIL DATA AND REPORTS AS SUPPLIED BY DEPARTMENT ARE AVAILABLE FOR THIS CAD. HOWEVER THE CONTRACTOR SHALL TAKE THE RESPONSIBILITY AT EACH PIER & ABUTMENT LOCATION & CONFIRM THE ADEQUACY OF FOUNDATION DESIGN WITH IT. IF ANY VARIATION IS OBSERVED SAME SHALL BE REPORTED TO DESIGN CONSULTANT FOR NECESSARY CHANGES.
- THE LINGS ARE PROPOSED FOR 8m INITIAL LENGTH OF PILE TO SUPPORT THE SOIL FOR THE REST OF THE PILE LENGTH SOIL STABILITY SHALL BE ACHIEVED BY BENTONITE CIRCULATION.
- TENSIMATIC PILE LENGTH ASSIGNED 25m ON THE BASIS OF GEOTECHNICAL INVESTIGATION REPORT RECEIVED BY DEPARTMENT AND VERTICAL LOAD CAPACITY OF 1000mm DIA PILES AS 218T. IT SHOULD BE ENSURED DURING EXECUTION.
- THE CONCRETE GRADE TAKEN ARE AS UNDER:
  - RCC BELOW FOUNDATION : M15
  - FOUNDATION & SUB-STRUCTURE : M35
  - PILE & PILE CAP, PIER CAP, ABUTMENT CAP : M35
  - RCC 1-BEAM GRCER, DECK SLAB, APPROACH SLAB : M35
  - PEDESTAL, PEDESTAL WALL : M35
  - CRASH BARRIERS/TRICTION SLAB : M40

**NOTES:**

- ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER UNLESS OTHERWISE MENTIONED.
- DIMENSIONS SHALL NOT BE SCALED OFF FROM THE DRAWING.
- FOUNDATION - PILE FOUNDATION & OPEN FOUNDATION.
- DIMENSION & LEVELS OF SUB STRUCTURE & FOUNDATION MAY BE DIFFER AFTER ACTUAL DESIGN.

Deputy Executive Engineer  
Navsari (R&B) Sub-Division,  
Navsari.

Executive Engineer  
Navsari (R&B) Division  
Navsari.

FOR APPROVAL

REFERENCE DRAWING	REVISIONS	APPROVAL	NAME	DATE	CLIENT
DRAWING No.	REV DATE	APPROVED	NAME	DATE	ROAD & BUILDING DIVISION, NAVSARI
DRAWING TITLE		DESCRIPTION		PROJECT: CONSTRUCTION OF ROB AT L.C.No.130-C (RLY Km. 241/20-22) ON SAGRA-NAVSARI ROAD	
DRAWING FILENAME : 9130-BR4-GAD-101-RA 2016-08-10 GENERAL ARRANGEMENT OF BRIDGE		DRN CHK		TITLE: GENERAL ARRANGEMENT OF BRIDGE APPROACH PORTION ONLY	

APPROVAL NAME DATE APPROVAL NAME DATE CLIENT: ROAD & BUILDING DIVISION, NAVSARI

DESIGNER IN 01/07/16 CHECKED ARS 01/07/16 PROJECT LEADER ARS 01/07/16 PROJECT: CONSTRUCTION OF ROB AT L.C.No.130-C (RLY Km. 241/20-22) ON SAGRA-NAVSARI ROAD

DRAWN SPP 01/07/16 DEGREE ONE 01/07/16 TITLE: GENERAL ARRANGEMENT OF BRIDGE APPROACH PORTION ONLY SHEET 1 OF 2

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SCALE: AS SHOWN DEL DWG No. 9130-BR4-GAD-101 SIZE A1