

ABUTMENT-A1

DEPTH	TYPE	SPTN	SBC(T/M)
0.00	ML		
1.00		15	8.60
1.50		-	-
2.50		26	15.77
3.00		-	-
4.00		20	12.80
4.50		-	-
5.00		29	19.53
6.00		-	-
7.00		31	21.91
7.50		-	-
8.50		33	24.43
9.00		-	-
10.00		39	30.17
11.50		-	-
12.00		48	38.74
13.00		-	-
13.50		R	-
14.50		-	-
15.00		R	-
16.50		48	43.55
17.50		-	-
18.00		R	-
19.50		R	-

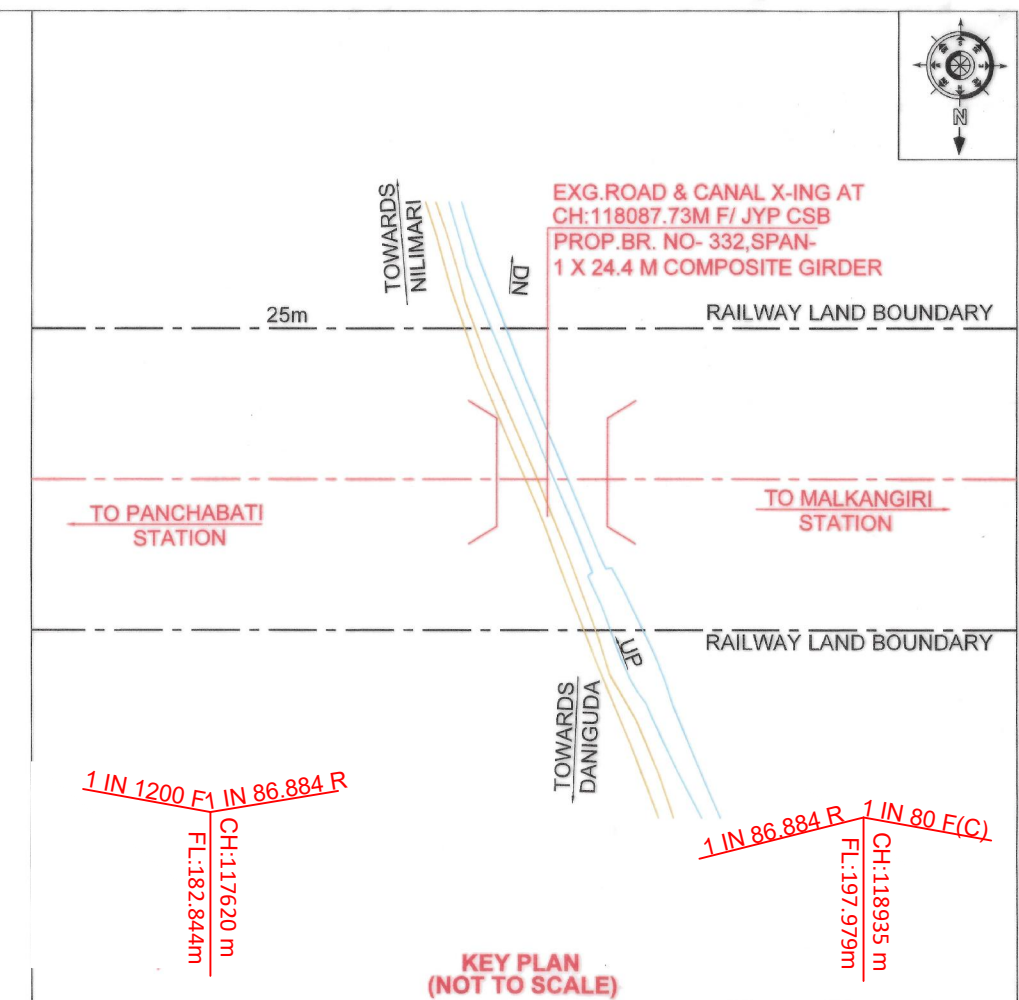
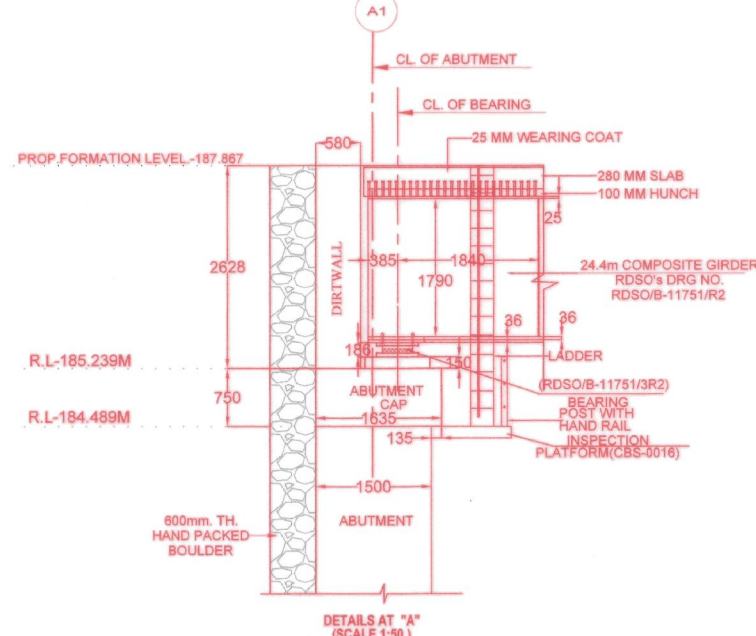
ML- INORGANIC AND SILTY CLAY OF MEDIUM PLASTICITY
SM- POORLY GRADED MEDIUM SILTY SAND
CALCULATED SBC VALUE OF SOIL AS PER REPORT IS 18.20 T/m²

ABUTMENT-A2

DEPTH	TYPE	SPTN	SBC(T/M)
0.00	ML		
1.00		16	9.17
1.50		-	-
2.50		19	11.53
3.00		-	-
4.00		26	16.64
4.50		-	-
5.50		28	18.86
6.00		-	-
7.00		32	22.62
7.50		-	-
8.50		39	28.87
9.00		-	-
10.00		45	34.81
10.50		-	-
11.50		50	40.35
12.00		-	-
13.00		R	-
13.50		-	-
14.50		R	-
15.00		-	-
16.00		R	-
16.50		-	-
17.50		R	-
18.00		-	-
19.00		R	-
19.50		-	-

ML- INORGANIC AND SILTY CLAY OF MEDIUM PLASTICITY
SM- POORLY GRADED MEDIUM SILTY SAND
CALCULATED SBC VALUE OF SOIL AS PER REPORT IS 19.00 T/m²

DETAILS OF	PROPOSED BRIDGE
1. LOADING STANDARD	25T AXLE LOADING
2. ALIGNMENT	STRAIGHT
3. GRADE	1 IN 85 R
4. SIZE OF BRIDGE	1 X 24.40 m C.G
5. DESIGN DISCHARGE	175.33 Cumecs
6. VERTICAL CLEARANCE	0.929 m
7. FREE BOARD	3.216 m
8. FOUNDATION	PILE



- NOTE :-
- ALL DIMENSIONS ARE IN MILLIMETER AND ALL LEVELS IN METRE UNLESS OTHERWISE SPECIFIED.
 - ALL REINFORCEMENT SHALL BE TMT/HYSD BARS Fe-500/ Fe-500-D CONFORMING TO IS-1786-2008.
 - DESIGN N C RITERI A IS BASE D ON FOLLOWING IRS CODES:-
(i) IRS BRIDGE RULE 2014 INCORPORATING LATEST CORRECTION SLIPS.
(ii) IRS CONCRETE BRIDGE CODE INCORPORATING LATEST CORRECTION SLIPS.
(iii) IRS BRIDGE SUBSTRUCTURE & FOUNDATION CODE INCORPORATING LATEST CORRECTION SLIPS.
 - STANDARD OF LOADING - 25T LOADING - 2008
 - ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED BEFORE EXECUTION.
 - DEPTH AND SIZE OF FOUNDATION, LENGTH OF RETURN WALL AND LEVELS OF U/S & D/S SHALL BE DECIDED BASED ON SITE CONDITION (TYPE OF STRATA & GROUND LEVEL).
 - BACKFILL MATERIAL SHOULD BE AS PER CLAUSE 7.5 A & C SLIP 3 OF IRS BRIDGE SUB - STRUCTURE CODE.
 - EXPOSURE CONDITION: SEVERE DUE TO ALTERNATE WET AND DRY CONDITIONS.
 - FOR DETAIL OF COMPOSITE GIRDER, REFER RD50 DRAWING NO.RD50/B-11751/1R2, 11751/2R2, 11751/4R3, 11751/5R2, 11751/8 & 11760/R1.
 - CONCRETE GRADE- I) RCC WORKS - M35 (DESIGN MIX), II) MCC WORKS - M20 (DESIGN MIX).
 - 600MM THICK WELL HAND PACKED BOULDER FILLING SHOULD BE PROVIDED BEHIND ABUTMENT & RETURN WALL RESPECTIVELY.
 - DIMENSION TOLERANCE SHALL BE AS PER IRS CONCRETE BRIDGE CODE.
 - 100mm DIA AC/PVC PIPES AS WEEP HOLES SHALL BE PROVIDED IN ABUTMENT , RETURN / WING WALLS @ 1000MM C/C HORIZONTALLY AND VERTICALLY (WITH 1 IN 30 SLOPE) STAGGERED ABOVE LWL.
 - TOP SURFACE OF RCC DECK SLAB SHALL BE GIVEN A FEW COATS OF HOT BITUMEN OR ANY OTHER SUITABLE WATER PROOFING TREATMENT BEFORE THE TRACK IS LAID ON IT.
 - ANGLE OF REPOSE OF BACK FILL SHALL NOT BE LESS THAN 35°.
 - PROP. FORMATION LEVEL SHOULD BE VERIFIED WITH THE L-SECTION. ANY VARIATION SHOULD BE INTIMATED TO THE SITE INCHARGE FOR APPROPRIATE DECISION.
 - ALL RCC SURFACE COMING IN CONTACT WITH SOIL SHOULD BE PAINTED WITH BITUMEN OR COALTAR OF APPROVED QUALITY @ 1.464Kg/ Sqm.
 - DRAWING SHALL NOT BE SCALED, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 - REFER SEPARATE DRAWING FOR FLOOR PROTECTION & PITCHING WORK.
 - NOT TEST VIZ. REBOUND HAMMER TEST AND ULTRASONIC PULSE VELOCITY TEST AS PER CL: 18.3 (APPENDIX 'F') OF CONCRETE BRIDGE CODE ARE TO BE CONDUCTED.
 - DIMENSIONS SHOWN FOR FOUNDATION & SUBSTRUCTURE WHICH MAY CHANGED AFTER FINAL DESIGN.
 - PILES ARE BORED CAST IN SITU & THEIR CONSTRUCTION SHALL CONFORM TO RELEVANT CLAUSES OF IS:2911 (PART-1/SEC-2) AND IRC:78-2000.
 - FINISHED PILE HEAD AFTER CUT-OFF SHALL BE 50mm MINIMUM INTO PILE CAP FOR ANCHORAGE.
 - BOTH VERTICAL AND HORIZONTAL LOAD TEST SHALL BE CARRIED OUT IN PILE AS PER IS:2911 (PART-IV) FOR CONFORMING DESIGN LOAD CARRYING CAPACITY OF PILE=250 TON AND 40 TON RESPECTIVELY.
 - PATHWAY SHOULD BE PROVIDED AS PER RD50 DRG. NO.-CB5-0046.
 - INSPECTION PLATFORM/GALLERY TO BE PROVIDED AS PER RD50 NO.-CB5-0016.
 - PAINTING OF RCC STRUCTURES SHOULD BE DONE AS PER PARA 5.4.7 OF CBC.
 - THE TRANSITION SYSTEM ON BRIDGE APPROACH ARE PROVIDED
 - AS PER DRG. No.GE/SK/19/2A/Rw-0/2024
 - THIS DRAWING IS BASED ON APPROVED DETAILED PLAN AND SECTION-CE / CON / 1 / VSKP / JEYPORE-MALKANGIRI / 18 OF 18.

DRG.NO. CE/CON/VSKP/JEYPORE-MALKANGIRI/NWBG/332/2024	
STANDARD OF LOADING - RAILWAY LOADING (25T-2008)	
EAST COAST RAILWAY (CONSTRUCTION)	
DIVISION: WALTAIR	
BR.NO-332	PROP.BRIDGE LOCATION: 1x24.40m COMPOSITE GIRDER CH:118087.730M
PROPOSED BRIDGE NO-332(CH:118087.730M) BETWEEN PANCHABATI-MALKANGIRI IN WALTAIR DIVISION OF EAST COAST RAILWAY	
CONSULTANTS: M/s SATRA SERVICES AND SOLUTIONS PVT. LTD. Corporate Office : 401, Capital Park, Image Garden Lane, Hi-Tech City, Madhapur, Hyderabad, Telangana - 500 081, India.	
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SHEET NO :	SHEET SIZE : 800 X 600
SCALE : AS SHOWN	REVISION : R 0
<input type="checkbox"/> TENDER <input type="checkbox"/> PRELIMINARY <input type="checkbox"/> INFORMATION <input checked="" type="checkbox"/> APPROVAL <input type="checkbox"/> CONSTRUCTION	
 (A.GOURI SANKAR RAO) CE / CH / VSKP E.Co.Railway	 (B.B. MOHARANA) DY.GE/CON/IKRPV E.Co.Railway
 (SANYASI NAIDU) SSE/ORG/CON/VSKP E.Co.Railway	 JEEVAN NANDA CHECKED BY
 SAIRANJAN PANDA PROJECT INCHARGE	 RACHITA MOHANTY DRAWN BY