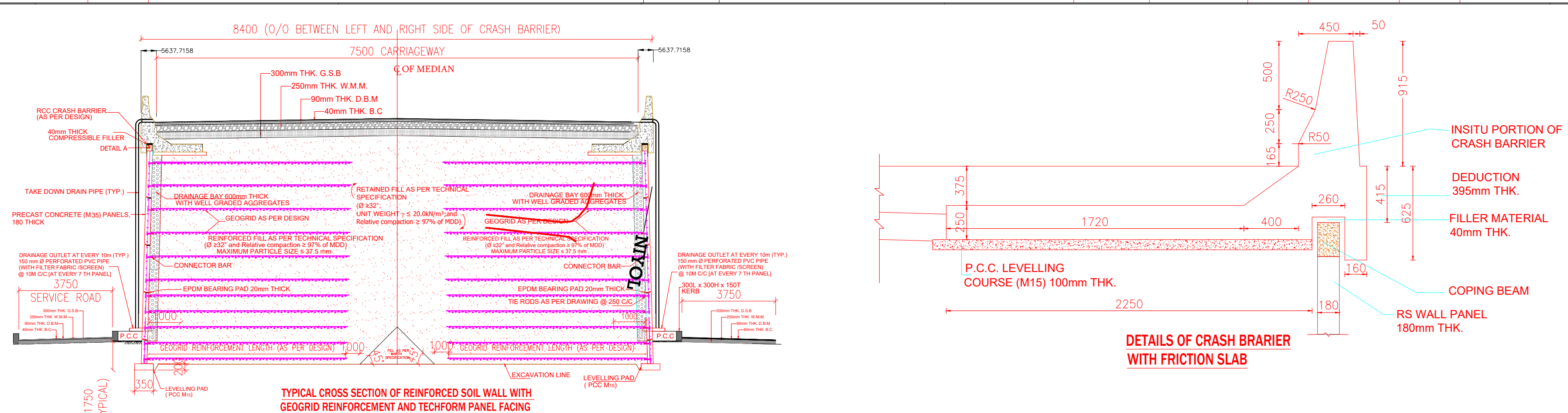
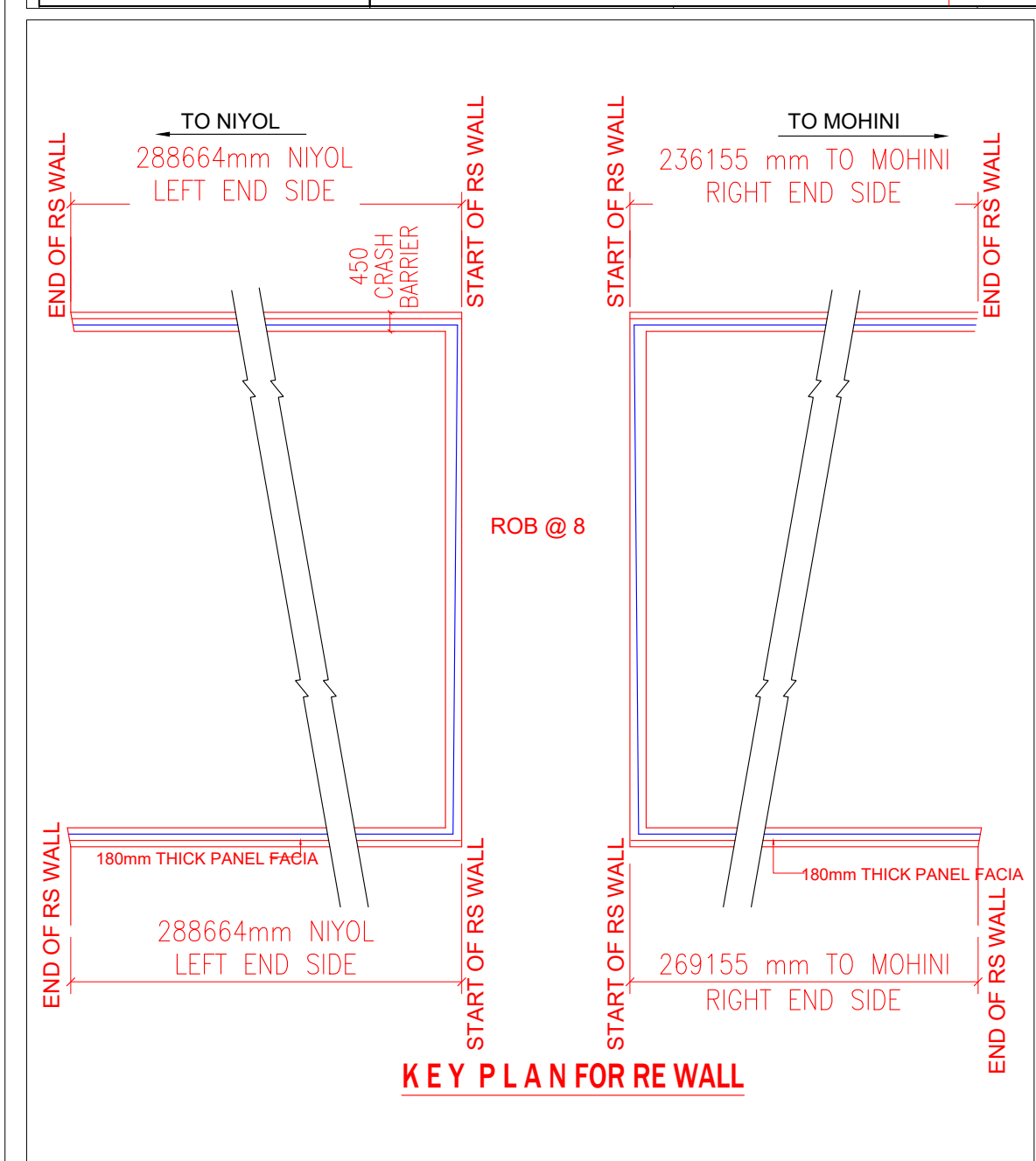
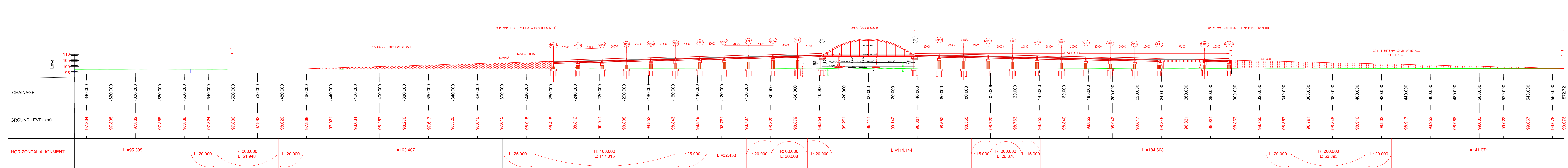




BORE HOLE ALIGNMENT				
NUMBER	LENGTH	RADIUS	Start Station	End Station
L1	95.305	-642.750	-647.445	-647.445
S1	20.000	-647.445	-647.445	-647.445
C1	51.940	-647.445	-647.445	-647.445
L2	20.000	-647.445	-647.445	-647.445
S2	163.407	-645.497	-645.497	-645.497
C2	25.000	-645.497	-645.497	-645.497
S3	117.015	-645.497	-645.497	-645.497
C3	25.000	-645.497	-645.497	-645.497
S4	25.000	-645.497	-645.497	-645.497
S5	25.000	-645.497	-645.497	-645.497
S6	20.000	-645.497	-645.497	-645.497
C5	30.008	-645.497	-645.497	-645.497
S7	20.000	-645.497	-645.497	-645.497
L4	114.144	-645.497	-645.497	-645.497
S7	15.000	-645.497	-645.497	-645.497
C4	25.378	-645.497	-645.497	-645.497
S8	15.000	-645.497	-645.497	-645.497
L5	194.668	-645.497	-645.497	-645.497
S9	20.000	-645.497	-645.497	-645.497
C5	62.895	-645.497	-645.497	-645.497
S10	20.000	-645.497	-645.497	-645.497
L6	141.071	-645.497	-645.497	-645.497

BORE LOG DETAILS											
GROUND W.T. 5.00 M				GROUND W.T. 5.00 M				GROUND W.T. 5.00 M			
CASING		HOLE		CASING		HOLE		CASING		HOLE	
10.00 M		10.00 M		10.00 M		10.00 M		10.00 M		10.00 M	
DEPTH (M)	LOG	SAMPLE	DEPTH (M)	LOG	DEPTH (M)	LOG	DEPTH (M)	LOG	DEPTH (M)	LOG	DEPTH (M)
0	0	0	0	0	0	0	0	0	0	0	0
1.00	0	05 - 1	1.00	10.00	STP - 7	10	20.00		10.00	STP - 13	48
2.00	1		2.00	11.00			21.00		11.00		
3.00	2	100	3.00	12.00	STP - 8	44	22.00		12.00		
4.00	3	2.10	4.00	13.00			23.00		13.00		
5.00	4	3.00	5.00	14.00	STP - 9	50	24.00		14.00		
6.00	5	3.00	6.00	15.00			25.00		15.00		
7.00	6	4.00	7.00	16.00			26.00		16.00		
8.00	7	5.00	8.00	17.00	STP - 10	51	27.00		17.00		
9.00	8	6.00	9.00	18.00			28.00		18.00		
10.00	9	7.00	10.00	19.00			29.00		19.00		
11.00	10	8.00	11.00	20.00			30.00		20.00		
12.00	11	9.00	12.00	21.00			31.00		21.00		
13.00	12	10.00	13.00	22.00			32.00		22.00		
14.00	13	11.00	14.00	23.00			33.00		23.00		
15.00	14	12.00	15.00	24.00			34.00		24.00		
16.00	15	13.00	16.00	25.00			35.00		25.00		
17.00	16	14.00	17.00	26.00			36.00		26.00		
18.00	17	15.00	18.00	27.00			37.00		27.00		
19.00	18	16.00	19.00	28.00			38.00		28.00		
20.00	19	17.00	20.00	29.00			39.00		29.00		
21.00	20	18.00	21.00	30.00			40.00		30.00		
22.00	21	19.00	22.00	31.00			41.00		31.00		
23.00	22	20.00	23.00	32.00			42.00		32.00		
24.00	23	21.00	24.00	33.00			43.00		33.00		
25.00	24	22.00	25.00	34.00			44.00		34.00		
26.00	25	23.00	26.00	35.00			45.00		35.00		
27.00	26	24.00	27.00	36.00			46.00		36.00		
28.00	27	25.00	28.00	37.00			47.00		37.00		
29.00	28	26.00	29.00	38.00			48.00		38.00		
30.00	29	27.00	30.00	39.00			49.00		39.00		
31.00	30	28.00	31.00	40.00			50.00		40.00		
32.00	31	29.00	32.00	41.00			51.00		41.00		
33.00	32	30.00	33.00	42.00			52.00		42.00		
34.00	33	31.00	34.00	43.00			53.00		43.00		
35.00	34	32.00	35.00	44.00			54.00		44.00		
36.00	35	33.00	36.00	45.00			55.00		45.00		
37.00	36	34.00	37.00	46.00			56.00		46.00		
38.00	37	35.00	38.00	47.00			57.00		47.00		
39.00	38	36.00	39.00	48.00			58.00		48.00		
40.00	39	37.00	40.00	49.00			59.00		49.00		
41.00	40	38.00	41.00	50.00			60.00		50.00		
42.00	41	39.00	42.00	51.00			61.00		51.00		
43.00	42	40.00	43.00	52.00			62.00		52.00		
44.00	43	41.00	44.00	53.00			63.00		53.00		
45.00	44	42.00	45.00	54.00			64.00		54.00		
46.00	45	43.00	46.00	55.00			65.00		55.00		
47.00	46	44.00	47.00	56.00			66.00		56.00		
48.00	47	45.00	48.00	57.00			67.00		57.00		
49.00	48	46.00	49.00	58.00			68.00		58.00		
50.00	49	47.00	50.00	59.00			69.00		59.00		
51.00	50	48.00	51.00	60.00			70.00		60.00		
52.00	51	49.00	52.00	61.00			71.00		61.00		
53.00	52	50.00	53.00	62.00			72.00		62.00		
54.00	53	51.00	54.00	63.00			73.00		63.00		
55.00	54	52.00	55.00	64.00			74.00		64.00		
56.00	55	53.00	56.00	65.00			75.00		65.00		
57.00	56	54.00	57.00	66.00			76.00		66.00		
58.00	57	55.00	58.00	67.00			77.00		67.00		
59.00	58	56.00	59.00	68.00			78.00		68.00		
60.00	59	57.00	60.00	69.00			79.00		69.00		
61.00	60	58.00	61.00	70.00			80.00		70.00		
62.00	61	59.00	62.00	71.00			81.00		71.00		
63.00	62	60.00	63.00	72.00			82.00		72.00		
64.00	63	61.00	64.00	73.00			83.00		73.00		
65.00	64	62.00	65.00	74.00			84.00		74.00		
66.00	65	63.00	66.00	75.00			85.00		75.00		
67.00	66	64.00	67.00	76.00			86.00		76.00		
68.00	67	65.00	68.00	77.00			87.00		77.00		
69.00	68	66.00	69.00	78.00			88.00		78.00		
70.00	69	67.00	70.00	79.00			89.00		79.00		
71.00	70	68.00	71.00	80.00			90.00		80.00		
72.00	71	69.00	72.00	81.00			91.00		81.00		
73.00	72	70.00	73.00	82.00			92.00		82.00		
74.00	73	71.00	74.00	83.00			93.00		83.00		
75.00	74	72.00	75.00	84.00			94.00		84.00		
76.00	75	73.00	76.00	85.00			95.00		85.00		
77.00	76	74.00	77.00	86.00			96.00		86.00		
78.00	77	75.00	78.00	87.00			97.00		87.00		
79.00	78	76.00	79.00	88.00			98.00		88.00		
80.00	79	77.00	80.00	89.00			99.00		89.00		
81.00	80	78.00	81.00	90.00			100.00		90.00		
82.00	81	79.00	82.00	91.00							
83.00	82	80.00	83.00	92.00							
84.00	83	81.00	84.00	93.00							
85.00	84	82.00	85.00	94.00							
86.00	85	83.00	86.00	95.00							
87.00	86	84.00	87.00	96.00							
88.00	87	85.00	88.00	97.00							
89.00	88	86.00	89.00	98.00							
90.00	89	87.00	90.00	99.00							
91.00	90	88.00	91.00	100.00							
92.00	91	89.00	92.00								
93.00	92	90.00	93.00								
94.00	93	91.00	94.00								
95.00	94	92.00	95.00								
96.00	95	93.00	96.00								
97.00	96	94.00	97.00								
98.00	97	95.00	98.00								
99.00	98	96.00	99.00								
100.00	99	97.00	100.00								

- NOTE: BRIDGE PORTION
- THE DIMENSIONS SECTIONAL DETAILS, CURVE DETAILS ARE TANTATIVE AND MAY BE CHANGED TO SUIT DESIGN REQUIREMENT AND SITE CONDITIONS.
 - DIAMETER DEPTH & NUMBER OF PILES ARE TANTATIVE AND MAY BE CHANGED AS PER DESIGN.
 - TEST PILE SHALL BE LOAD TESTED BEFORE CASTING OF OTHER MAIN PILES.
 - STRIP SEAL TYPE EXPANSION JOINTS MORTH I.R.C & IS SPECIFICATION SHALL BE USED.
 - ALL OTHER SPECIFICATIONS SHALL BE AS PER MORTH & IRC SPECIFICATION FOR ROAD & BRIDGES.
 - SUPER STRUCTURE AND BEARING SHALL BE AS PER MORTH DRAWING.
 - CONCRETE GRADE:
 - PILE, PILE CAP M-35
 - LEVELLING COURSE M-15
 - PIER, PIER CAP M-35
 - PEDESTAL M-40
 - SEISMIC RESTRAINER M-35
 - SUPER STRUCTURE M-35
 - CRASH BARRIER M-40
 - RETAINING WALL M-30
 - REINFORCEMENT - Fe-500(TMT) CONFORMING TO IS 1786-2008
 - CLEAR COVER FOR REINFORCEMENT AS FOLLOWS.
 - CRASH BARRIER SHALL BE AS PER LATEST IRC STANDARD.
 - THE STRUCTURE WILL BE DESIGNED AS PER LATEST IRC / IS SPECIFICATIONS FOR MODERATE CONDITION EXPOSURE.
 - ALL THE SETTING OUT DIMENSIONS AND REDUCED LEVEL ETC. SHALL BE VERIFIED AT SITE BEFORE STARTING THE WORK.
 - DESIGN LOADING - ONE LANE OF 70R OR TWO LANE OF CLASS A LOADING
 - PROPER PROTECTION MEASURES SHALL BE TAKEN WHILE EXECUTING THE WORK NEAR THE RAILWAY TRACK.
 - SAFETY WORK SHOULD BE PROVIDED LIKE PROTECTIVE SCREENS, EARTHING, CAUTION BOARD ETC.
 - IF THERE IS VARIATION OF SOIL STRATA BY MORE THAN 500mm, THE MATTER SHOULD BE BROUGHT TO NOTICE OF DESIGN SECTION.
 - CHECK & VERIFIED THE ALIGNMENT BEFORE STARTING EXECUTION WORK.
 - BED LEVEL, FRL, SHOULD BE VERIFIED BEFORE EXECUTION.
 - THE APPROACHES WORK SHOULD BE DONE WITH MOST SPECIFICATION.
 - SHAPES AND SIZE OF PIER, PIER CAP, BEARING SHOWN IN THIS DRG. TENTATIVE AND ARE SUBJECT TO CHANGE IN FINAL DESIGN & DRAWING
 - EXCAVATION OF ROB WORK SHALL BE DONE ONLY IN PRESENCE OF AUTHORIZED RAILWAY REPRESENTATIVE TO ENSURE THE SAFETY OF RUNNING TRAIN PROPER PRECAUTION SHALL BE TAKEN DURING EXCAVATION OF FOUNDATION NEAR THE TRACK. PROPER SHORING SHALL BE DONE TO PROTECT SLOPE FAILURE OF SOIL.
 - 6mm THK. LINER PROVIDED UP TO 6.0m DEPTH.
 - SHOWN THE LEVELS OF PIER CAP, PILE CAP IS TENTATIVE, MAY BE CHANGE AS PER FINAL DESIGN.
 - ELASTOMERIC BEARING SHALL BE USED IN RCC T-BEAM.
 - EXTRA WIDENING IN CURVATURE PORTION SHALL BE PROVIDED AS PER TABLE 16 OF IRC 73.

- NOTE: RE WALL PORTION
- THE MINIMUM GRADE OF CONCRETE SHALL BE RE WALL.
 - M-35 FOR T-PANEL
 - M-25 FOR COPING BEAMS
 - M-15 FOR LEVELLING PADS
 - THE REQUIRED SAFE BEARING CAPACITIES FOR VARIOUS LOCATIONS ARE SHOWN IN CORRESPONDING L-SECTIONS.
 - ANY UNSUITABLE FOUNDATION SOILS / FILLED-UP SOIL SHALL BE REMOVED & REPLACED WITH COMPACTED FILL OF APPROVED QUALITY.
 - IN THE REINFORCED & RETAINED ZONE SELECT GRANULAR FILL AS PER SPECIFICATIONS SHALL BE USED. STRICT SUPERVISION DURING PLACING, SPREADING, GRADING & COMPACTION SHALL BE PROVIDED TO ENSURE THIS.
 - CONSTRUCTION JOINT SHALL BE PROVIDED AT THE JUNCTION OF CROSS DRAINAGE STRUCTURE AND RS WALL.
 - CUTTING WIDTH OF TECHGRID (TGL) IS 250 mm WITH 8 RIBS.
 - SERVICE ROAD MUST BE CONSTRUCT SIMULTANEOUSLY WITH THE CONSTRUCTION OF RE WALL TO ENSURE MINIMUM REQUIRED EMBEDMENT.

NOTE:- 1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.

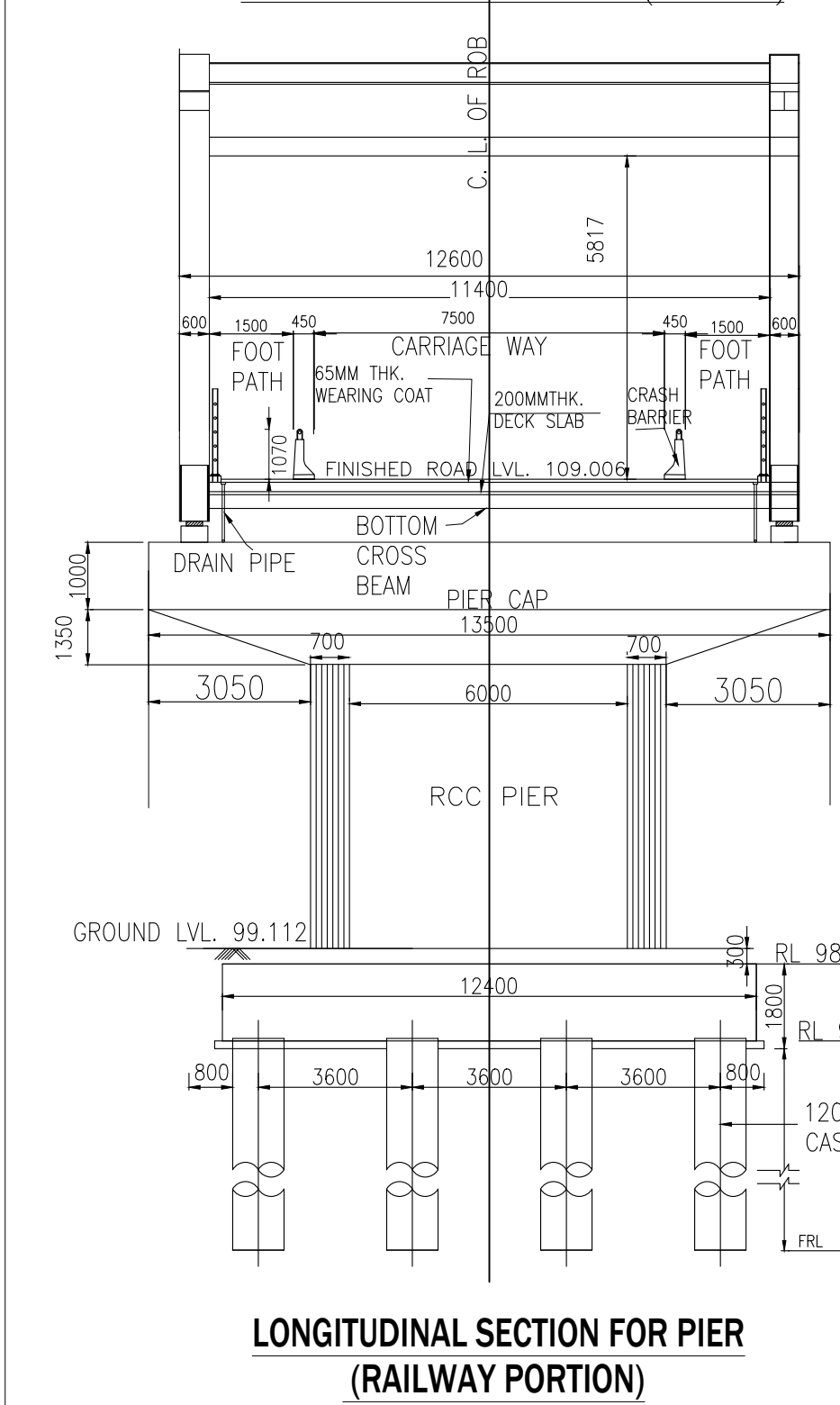
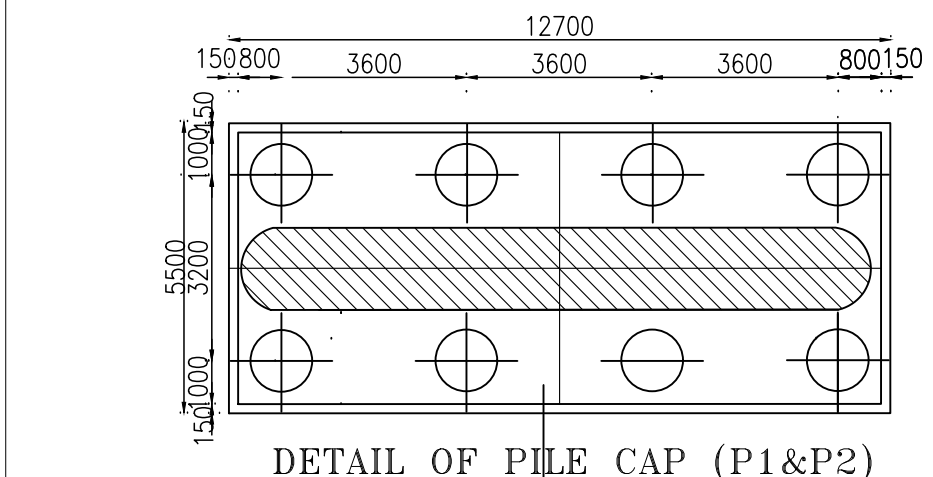
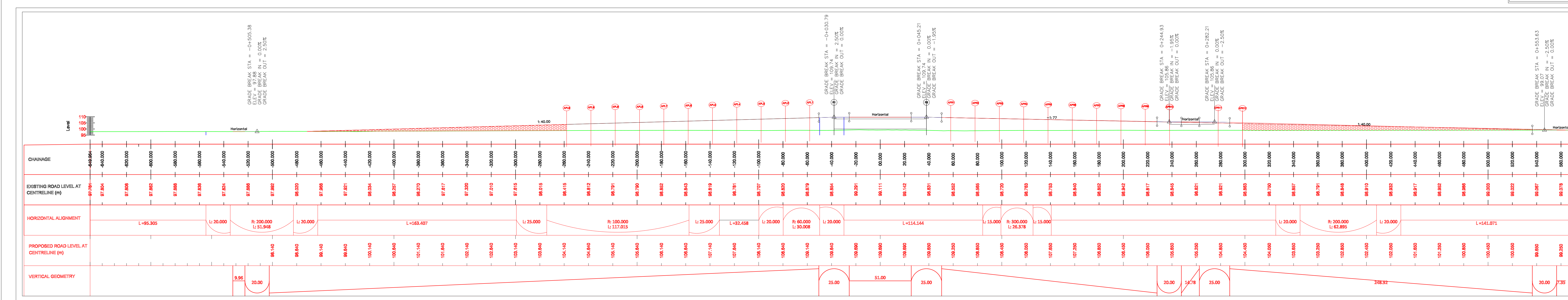
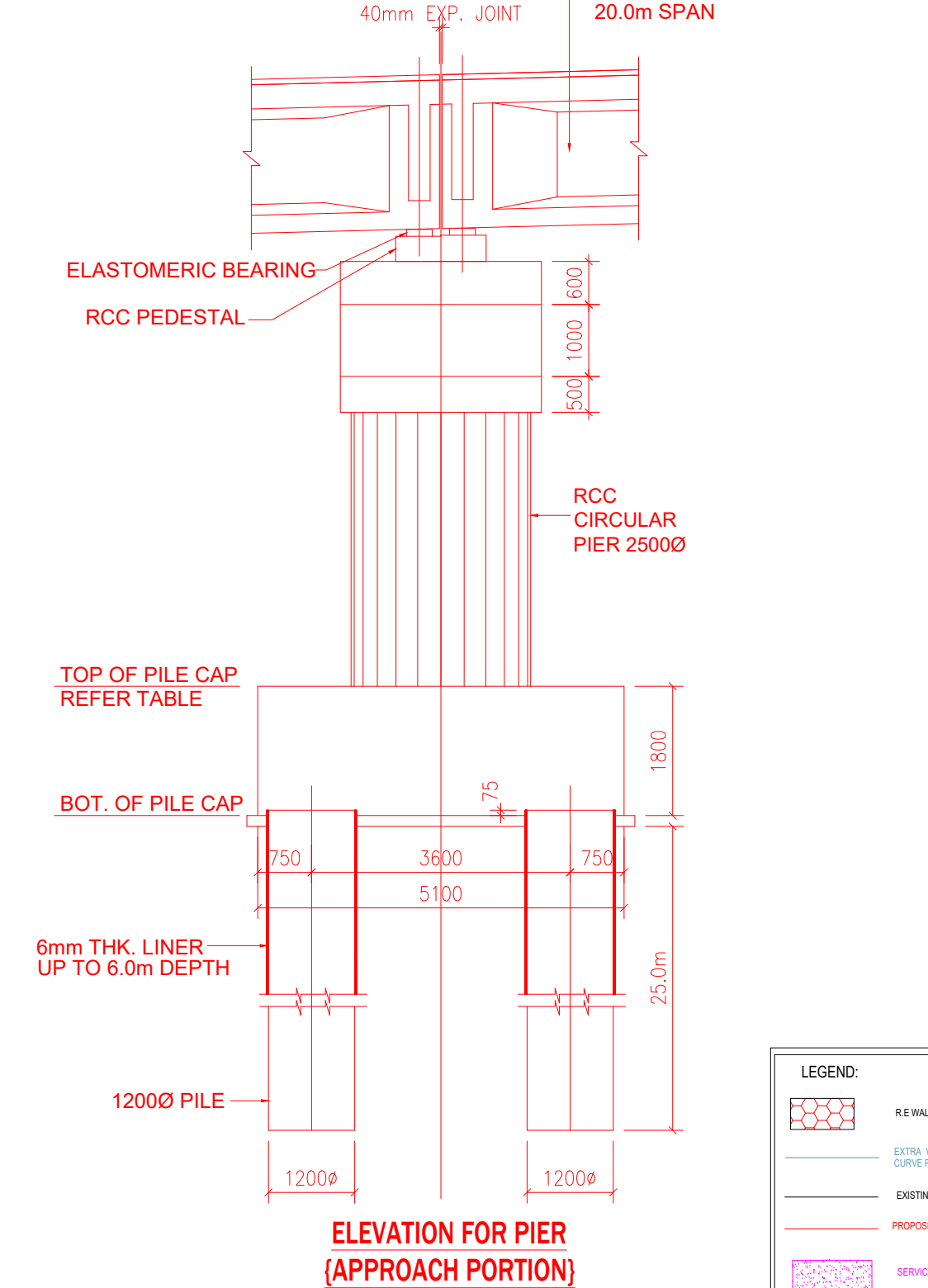
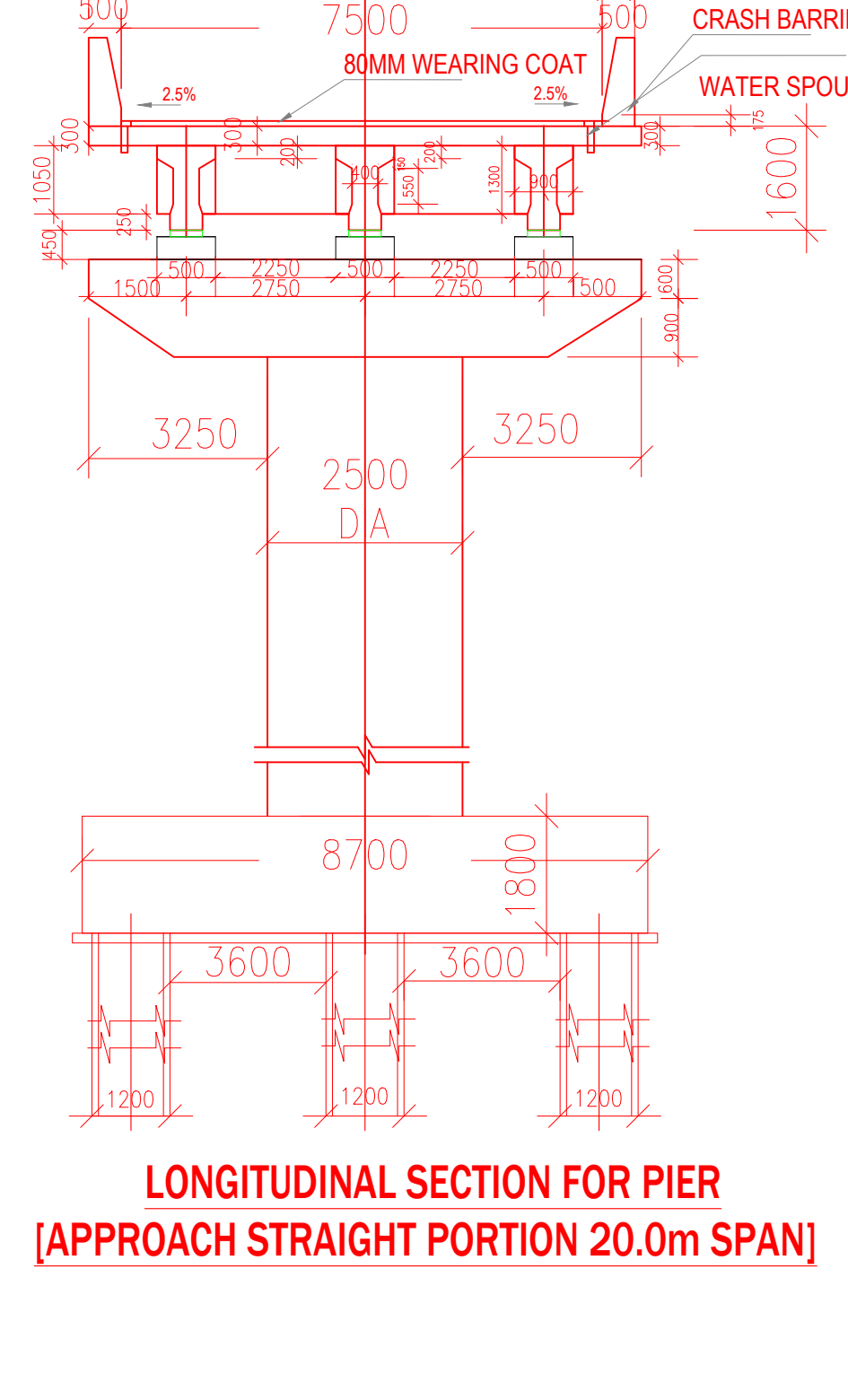
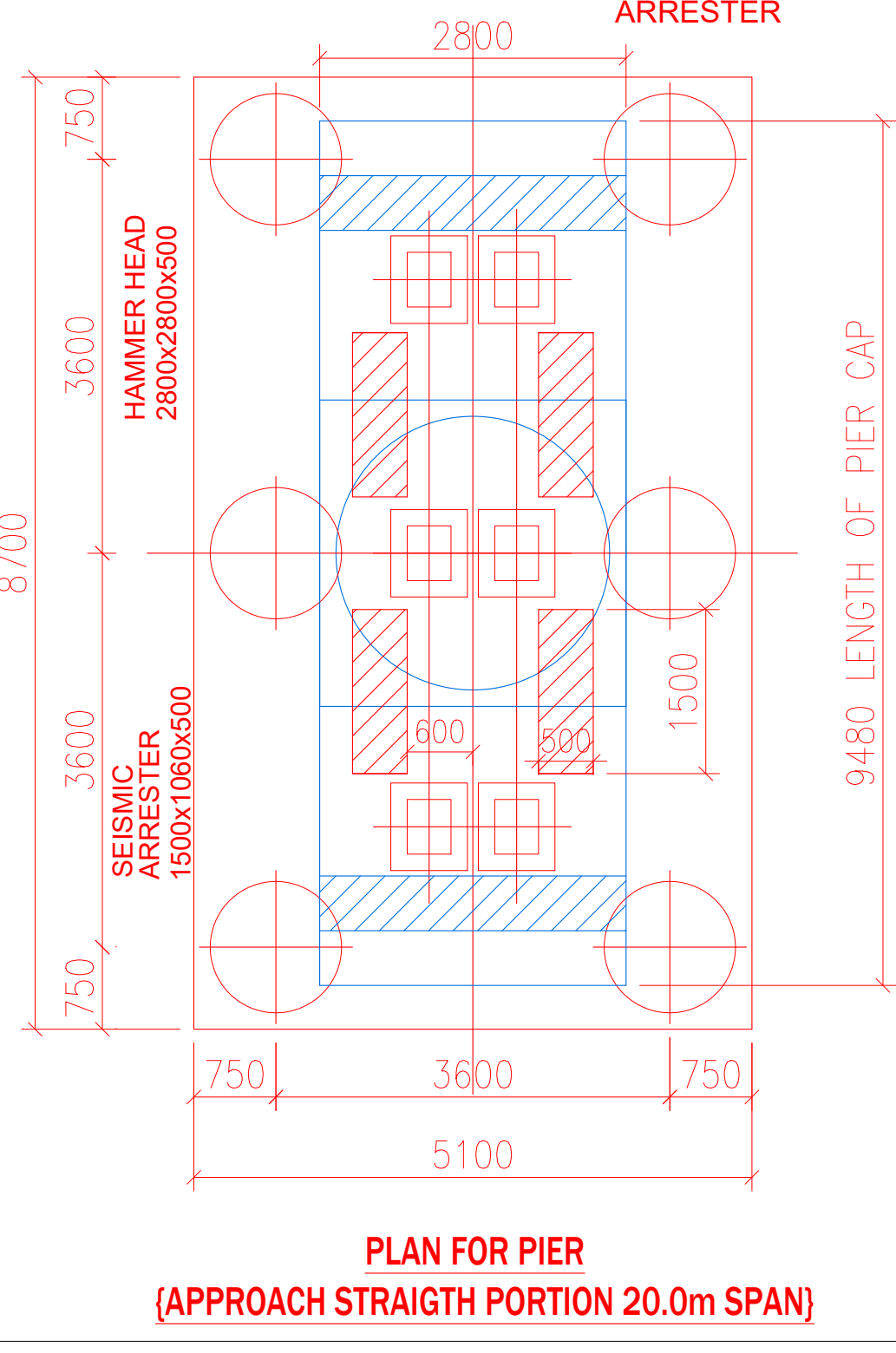
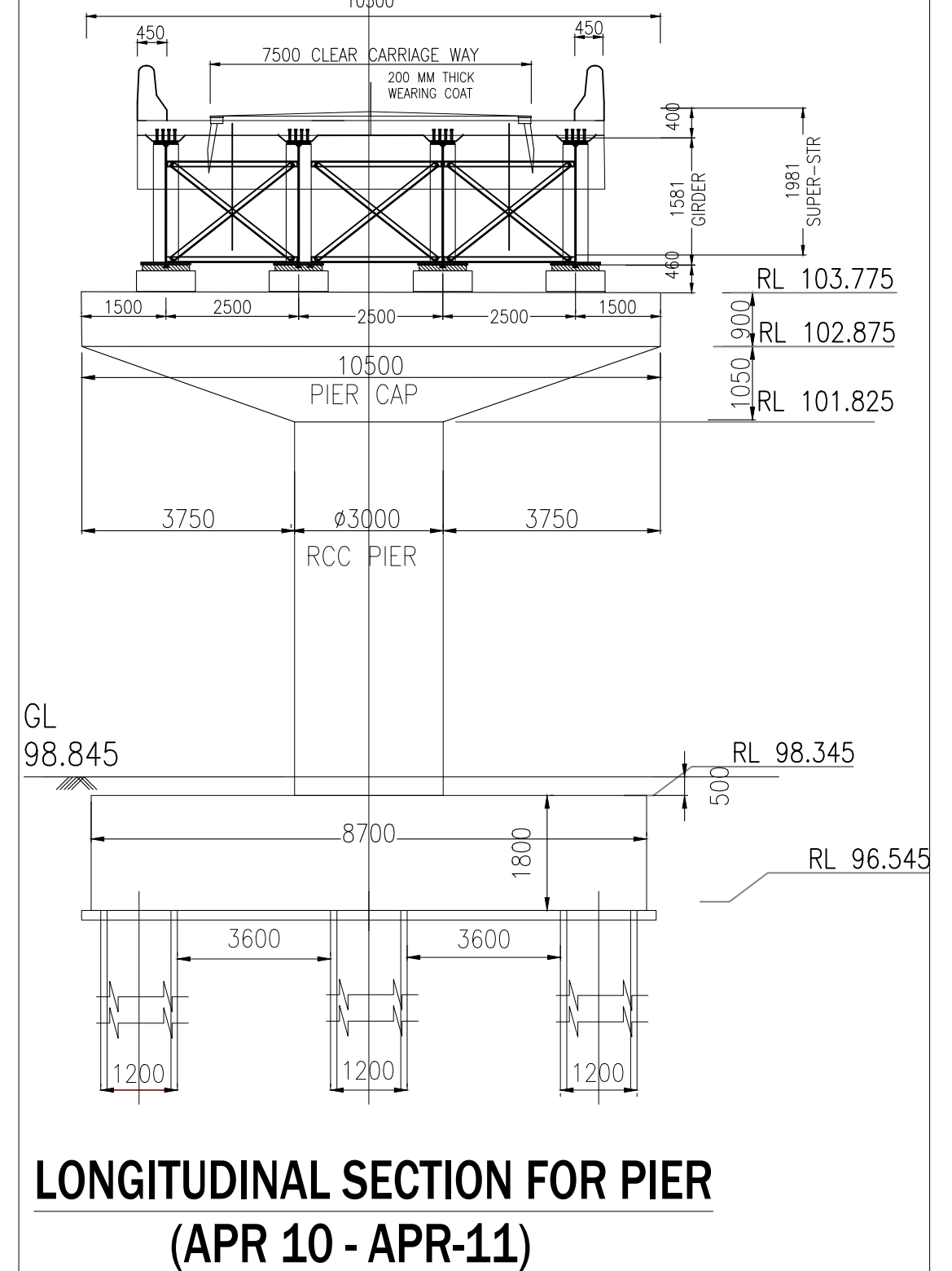
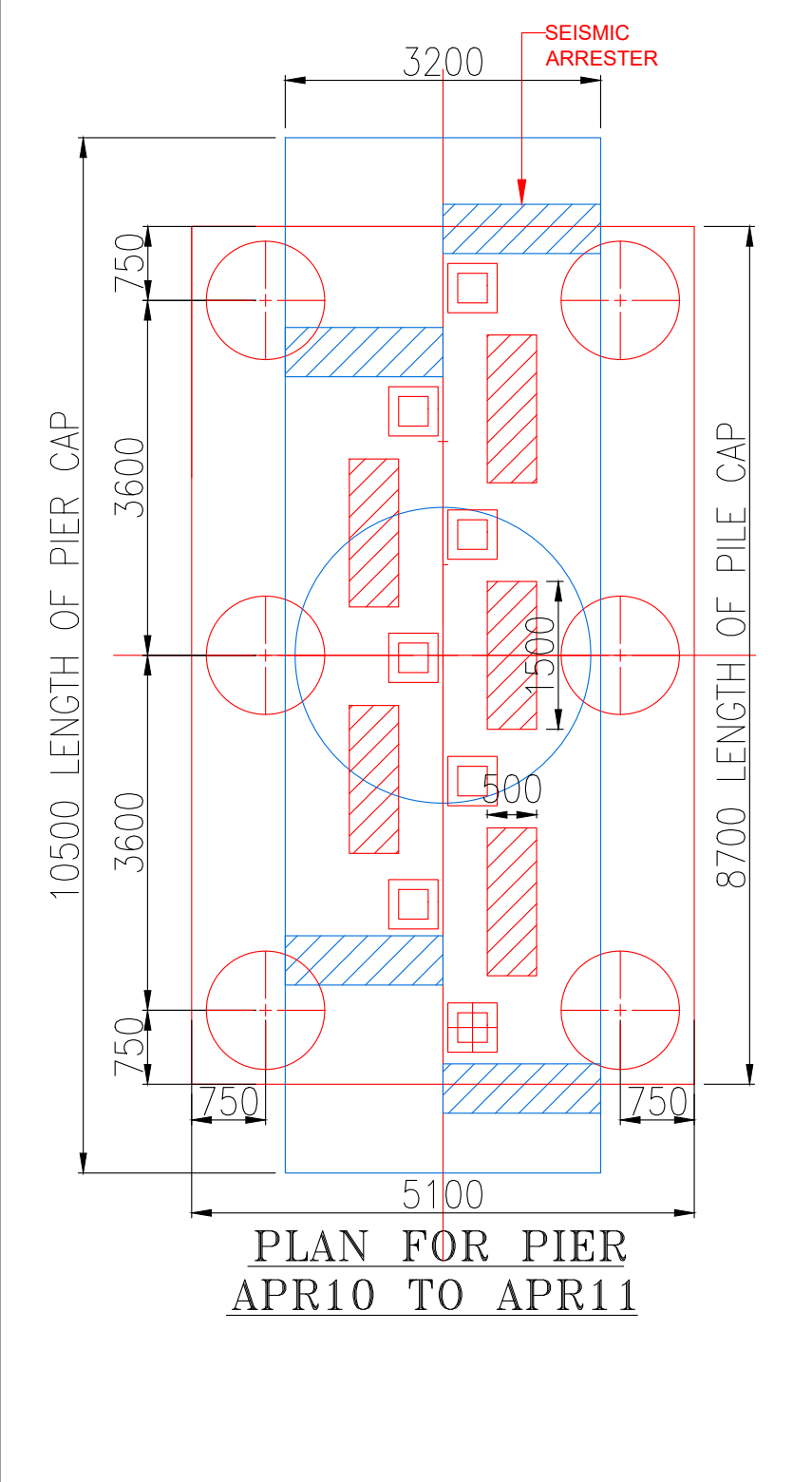


TABLE (NIYOL)			
Pier no	Bed Level	Top of Pile Cap	Top of Pier cap
APL-1	98.879	98.379	106.121
APL-2	98.820	98.320	105.621
APL-3	98.707	98.207	105.121
APL-4	98.781	98.281	104.621
APL-5	98.819	98.319	104.121
APL-6	98.843	98.343	103.621
APL-7	98.852	98.352	103.121
APL-8	98.808	98.308	102.621
APL-9	99.011	98.511	102.121
APL-10	98.812	98.312	101.621
APL-11	98.415	97.915	101.121

TABLE (MOHINI)			
Pier no	Bed Level	Top of Pile Cap	Top of Pier cap
APR-1	98.552	98.052	106.362
APR-2	98.565	98.065	106.103
APR-3	98.720	98.220	105.844
APR-4	98.763	98.263	105.585
APR-5	98.753	98.253	105.326
APR-6	98.840	98.340	105.067
APR-7	98.852	98.352	104.808
APR-8	98.942	98.442	104.549
APR-9	98.817	98.317	104.290
APR-10	98.845	98.345	104.031/103.775
APR-11	98.921	98.236	103.292/103.548
APR-12	98.863	98.298	103.289



STATE GOVERNMENT

NHRCL AUTHORITIES

CPM-SURAT (AMYANSHU DAS)

(GHANSHYAMDAS BHAGWANI)
CHIEF GENERAL MANAGER
DFCCIL, VADODARA

(RAJESH V. MISHRA)
PM/ENGG
DFCCIL, VADODARA

IRC : 6-2017

WESTERN RAILWAY

PROJECT:
PROPOSED ROAD OVER BRIDGE IN LIEU OF LC 8
AT RLY KM TV - 7 / 1 - 2, BETWEEN TV LINE
NIYOL- CHALTHAN STATION AT UD-NJL LINE OF
BRC DIVISION.

GENERAL ARRANGEMENT DRAWING
(APPROACH PORTION)

CUSTOMER'S NAME & ADDRESS :-
THE CHIEF PROJECT MANAGER
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.
(A GOVERNMENT OF INDIA UNDERTAKING)
4TH FLOOR, BLOCK "A", NARMADA NAHER BHAWAN, (SSNRL OFFICE),
CHHANI JAKATNAKA, VADODARA-390024 GUJARAT

CONSULTANT'S NAME & ADDRESS :-
PROF. D.D.DESAI'S ASSOCIATED ENGINEERING CONSULTANTS
& ANALYSTS PVT. LTD.
18, G.D. PATIL BLDG, 4TH FLOOR, 19B DAWOOD BAUG LANE, ANDHERI (W), MUMBAI - 58.

23.08.2019
PPS
JND
DIRECTOR

SCALE : 1 : 100
UNLESS SPECIFIED OTHERWISE

DRG.NO.AECA/2018/07/08/01B
DRG.NO.WDFC/CGM/BRC/LC_NO_08/APPROACH PORTION (R1)