NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

Ministry of Road Transport & Highways, Government of India

Silchar-Jiribam Section of NH 37 (Package: SJ-P2, From Km 24+560 to Km 37+650)

Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III) (Silchar-Vairengte (49.9 km), Vairengte-Sairang (111 km), Silchar-Jiribam (55 km))

FINAL DETAILED PROJECT REPORT - R2
(Compliance to Observation Raised During PATSC)

VOLUME IX - DRAWINGS

November 2024

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FINAL DETAILED PROJECT REPORT- R2

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Rev.	Date	Description
R0	15-06-2022	DRAFT DETAILED PROJECT REPORT
R0	21-07-2023	FINAL DETAILED PROJECT REPORT
R1	03-06-2024	FINAL DETAILED PROJECT REPORT
R1	20-11-2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

Authority:
National Highways & Infrastructure Development Corporation Ltd.
(Ministry of Road Transport & Highways)

Design Consultants:
Transys Consulting Pvt. Ltd.
001-004, Raheja chambers, No.12, Museum Road, Bengaluru-560001; Tel: 080-41461995; email: transys_blr@transysconsulting.co.in

Project:
Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)
Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

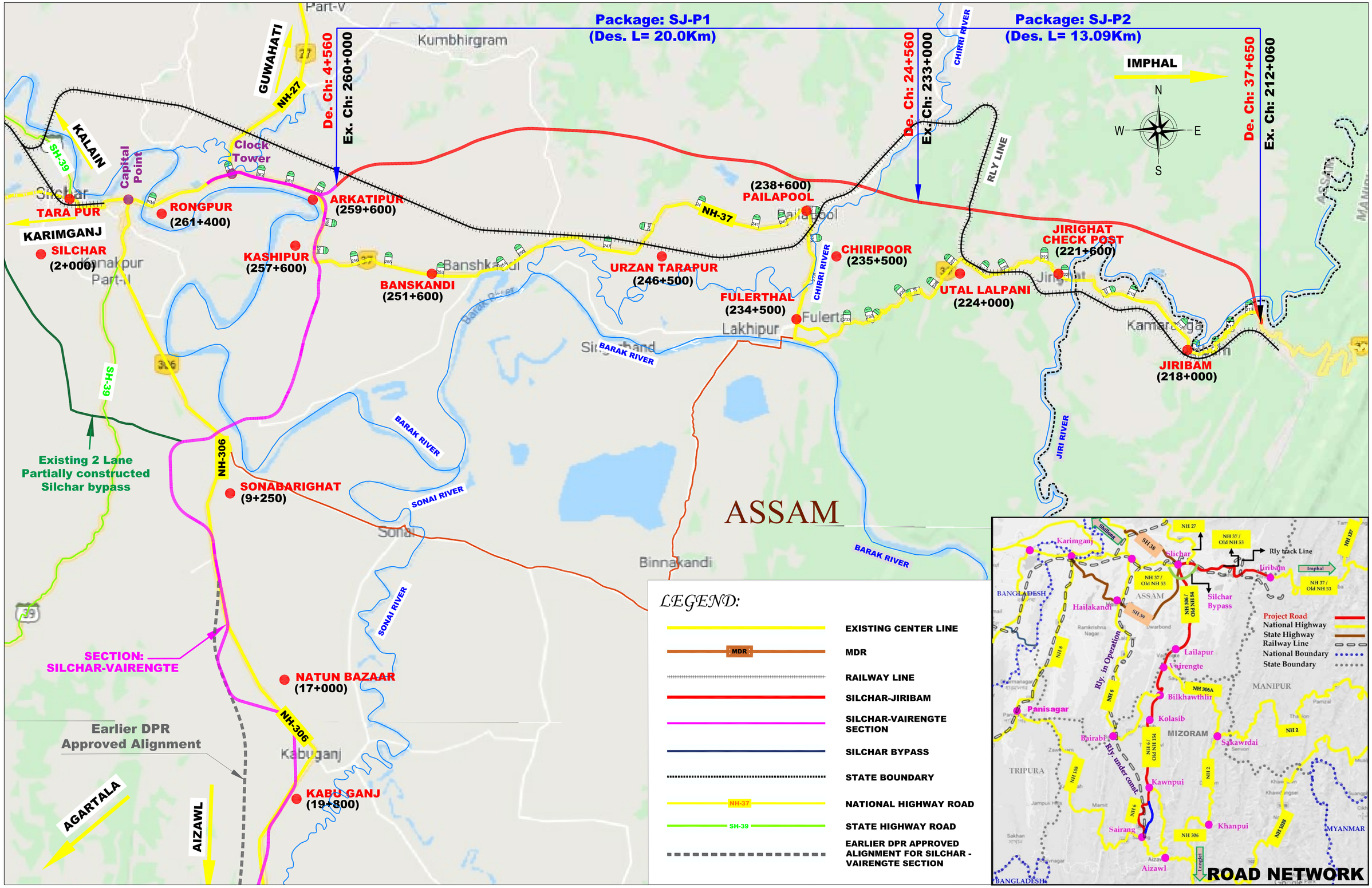
FINAL DETAILED PROJECT REPORT

Title: **List of Drawings**

Size	*Scale*	*Drg. No*	*Rev:*
A2	NTS	**Transys-NH37-GEN-LD-01**	**R2**

KEY PLAN

SILCHAR-JIRIBAM SECTION OF NH-37



LEGEND & ABBREVIATIONS

LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
LEGEND FOR PLAN			
	BUILDING (P, SP, K, UC)		COVERED DRAIN
	CULVERT, BRIDGE	11KV	11KV ELECTRIC LINE
	GATE	33KV	33KV ELECTRIC LINE
TP	TELEPHONE POLE		TOILET
EP	ELECTRIC POLE		EXISTING CARRIAGEWAY
	TEMPORARY BENCH MARK	P	REFFRENCE PILLAR
	SIDE ROAD	GPS	GPS PILLAR
	NALA & RIVER		PIPE CULVERT
	TRANSFORMER		PROPOSED CARRIAGEWAY EDGE
KM	KILOMETER POST		PROPOSED SERVICE ROAD
	TREE		PROPOSED CENTER LINE
SILCHAR	VILLAGE NAME		PROPOSED SHOULDER EDGE
	BOUNDARY WALL	P ROW	PROPOSED RIGHT - OF - WAY
S41	SURVEY STATION	213	CONTOUR LINE
	FENCING		PROPOSED TOE LINE
	AGRICULTRAL FIELD		HOR. TANGENT POINT
LP	LAMP POST		VER. TANGENT POINT
	RETANING WALL		PROP. CULVERT
	GARDEN		FOOTPATH CUM DRAIN
	WALL		
	TEMPLE		

ABBREVIATION

SYMBOL	DESCRIPTION
△	TOTAL DEVIATION ANGLE OF CURVE
R	RADIUS OF CIRCULAR CURVE
Ts	TANGENT LENGTH
Es	APEX DISTANCE
Lc	LENGTH OF CIRCULAR CURVE
e	SUPER ELEVATION
Ls	LENGTH OF TRANSITION CURVE
$\triangle_s$	DEVIATION ANGLE OF TRANSITION CURVE
$\triangle_c$	DEVIATION OR CENTRAL ANGLE OF CIRCULAR CURVE
L	TOTAL LENGTH OF CURVE
S	SHIFT
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
TS	POINT OF CHANGE FROM TANGENT TO SPIRAL
SC	POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE
CS	POINT OF CHANGE FROM CIRCULAR CURVE TO SPIRAL
ST	POINT OF CHANGE FROM SPIRAL TO TANGENT
IL	INVERT LEVEL OF CULVERT
PVI	POINT OF VERTICAL INTERSECTION
Lvs	LENGTH OF VALLEY CURVE
Lsc	LENGTH OF SUMMIT CURVE
HIP	HORIZONTAL INTERSECTION POINT

Rev.	Date	Description
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APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Legend and Abbreviations**

Size	*Scale*	*Drg. No*	*Rev:*
A2	NTS	**Transys-NH37-GEN-LA-04**	**R2**

List of Reference Pillars and Control Points

Sl.No.	Station ID	Existing Chainage (m)	Location of Piller w.r.t Ex. Road	Coordinate		Level
				Easting	Northing	
1	GPS-A3	Bypass	LHS	486797.169	2746959.934	21.442
2	GPS-A4	Bypass	LHS	486926.731	2746904.125	21.246
3	GPS-A5	Bypass	LHS	489854.121	2747622.660	20.851
4	GPS-A6	Bypass	LHS	489997.150	2747741.748	21.984
5	GPS-A7	Bypass	LHS	493677.291	2748635.307	21.992
6	GPS-A8	Bypass	LHS	493694.806	2748531.921	22.064
7	GPS-A9	Bypass	LHS	496814.412	2748307.918	24.919
8	GPS-A10	Bypass	LHS	496827.337	2748380.388	24.907
9	GPS-A11	Bypass	LHS	501220.119	2747346.359	24.411
10	GPS-A12	Bypass	LHS	501252.567	2747439.189	23.812
11	GPS-A13	Bypass	LHS	504201.949	2746804.893	29.165
12	GPS-A14	Bypass	LHS	504161.846	2746744.119	29.153
13	GPS-A15	Bypass	LHS	507411.382	2745471.958	59.513
14	GPS-A16	Bypass	LHS	507359.069	2745489.104	69.459
15	GPS-A17	Bypass	LHS	509836.392	2745624.879	46.541
16	GPS-A18	Bypass	LHS	509853.053	2745556.789	44.365
17	GPS-A19	Bypass	LHS	512999.809	2745164.925	29.443
18	GPS-A20	Bypass	LHS	512985.372	2745244.497	29.443

Sl.No.	Station ID	Station Code	Coordinate		Level
			Easting	Northing	
1	PILLER T1	PILLER	486315.042	2746502.597	19.307
2	PILLER T2	PILLER	486456.957	2746643.310	18.936
3	PILLER T3	PILLER	486618.375	2746760.211	18.736
4	PILLER T4	PILLER	486798.406	2746830.250	20.650
5	PILLER T5	PILLER	487119.751	2747119.125	23.611
6	PILLER T6	PILLER	487354.733	2747181.682	22.081
7	PILLER T7	PILLER	487480.479	2747317.106	22.173
8	PILLER T8	PILLER	487645.858	2747404.608	22.226
9	PILLER T9	PILLER	487846.618	2747390.422	22.411
10	PILLER T10	PILLER	488082.574	2747427.068	21.486
11	PILLER T11	PILLER	488302.644	2747489.582	20.444
12	PILLER T12	PILLER	488448.308	2747472.903	18.809
13	PILLER T13	PILLER	488644.871	2747563.627	19.858
14	PILLER T14	PILLER	488852.101	2747459.196	20.974
15	PILLER T15	PILLER	489084.267	2747455.689	18.766
16	PILLER T16	PILLER	489262.849	2747566.476	19.283
17	PILLER T17	PILLER	489518.740	2747543.190	21.079
18	PILLER T18	PILLER	490165.905	2747852.968	21.858
19	PILLER T19	PILLER	490426.741	2747923.909	20.549
20	PILLER T20	PILLER	490618.003	2747935.740	20.748
21	PILLER T21	PILLER	490776.821	2747988.106	23.122
22	PILLER T22	PILLER	490936.377	2748018.147	18.508
23	PILLER T23	PILLER	491159.432	2748118.703	21.081
24	PILLER T24	PILLER	491330.360	2748233.374	19.181
25	PILLER T25	PILLER	491491.991	2748266.152	20.124
26	PILLER T26	PILLER	491674.114	2748397.348	19.048
27	PILLER T27	PILLER	491883.644	2748477.306	21.100
28	PILLER T28	PILLER	492093.497	2748558.896	21.108
29	PILLER T29	PILLER	492302.888	2748583.986	26.388
30	PILLER T30	PILLER	492498.200	2748524.668	22.254
31	PILLER T31	PILLER	492658.915	2748571.019	43.025
32	PILLER T32	PILLER	492837.293	2748600.187	22.111
33	PILLER T33	PILLER	493089.850	2748602.556	23.704
34	PILLER T34	PILLER	493302.945	2748568.413	21.238
35	PILLER T35	PILLER	493454.484	2748558.991	21.430
36	PILLER T36	PILLER	493852.404	2748623.187	23.732
37	PILLER T37	PILLER	494073.757	2748634.523	45.470
38	PILLER T38	PILLER	494314.109	2748571.226	26.628
39	PILLER T39	PILLER	494476.595	2748628.835	26.893
40	PILLER T40	PILLER	494640.624	2748499.781	38.131
41	PILLER T41	PILLER	494867.408	2748534.380	51.978
42	PILLER T42	PILLER	495056.924	2748543.881	29.494
43	PILLER T43	PILLER	495274.606	2748619.806	36.415
44	PILLER T44	PILLER	495459.862	2748567.351	30.896
45	PILLER T45	PILLER	495651.990	2748625.030	38.973
46	PILLER T46	PILLER	495927.390	2748470.132	43.715
47	PILLER T47	PILLER	496030.484	2748504.336	23.430
48	PILLER T48	PILLER	496299.285	2748481.013	30.152
49	PILLER T49	PILLER	496445.999	2748431.963	32.206
50	PILLER T50	PILLER	496655.893	2748320.945	24.758
51	PILLER T51	PILLER	497019.844	2748351.159	24.308
52	PILLER T52	PILLER	497277.182	2748189.108	24.326

Sl.No.	Station ID	Station Code	Coordinate		Level
			Easting	Northing	
53	PILLER T53	PILLER	497427.300	2748186.057	23.366
54	PILLER T54	PILLER	497618.388	2748031.676	23.253
55	PILLER T55	PILLER	497802.086	2748045.432	35.902
56	PILLER T56	PILLER	498026.745	2748000.132	24.051
57	PILLER T57	PILLER	498161.331	2747912.943	51.535
58	PILLER T58	PILLER	498323.587	2747764.005	54.600
59	PILLER T59	PILLER	498548.769	2747786.855	50.838
60	PILLER T60	PILLER	498758.467	2747739.116	24.072
61	PILLER T61	PILLER	498964.943	2747692.689	22.125
62	PILLER T62	PILLER	499357.708	2747733.685	23.033
63	PILLER T63	PILLER	499563.505	2747707.824	22.677
64	PILLER T64	PILLER	499751.348	2747681.899	23.902
65	PILLER T65	PILLER	500015.065	2747703.711	23.043
66	PILLER T66	PILLER	500201.437	2747658.271	23.172
67	PILLER T67	PILLER	500369.384	2747562.668	23.717
68	PILLER T68	PILLER	500546.769	2747612.083	25.951
69	PILLER T69	PILLER	500707.916	2747537.419	26.888
70	PILLER T70	PILLER	500924.703	2747501.919	27.196
71	PILLER T71	PILLER	501122.304	2747383.037	23.919
72	PILLER T72	PILLER	501361.365	2747368.991	25.512
73	PILLER T73	PILLER	501486.911	2747278.448	41.871
74	PILLER T74	PILLER	501678.046	2747142.999	51.979
75	PILLER T75	PILLER	501850.368	2747126.473	46.981
76	PILLER T76	PILLER	502083.447	2747064.820	37.100
77	PILLER T77	PILLER	502237.994	2747032.571	35.613
78	PILLER T78	PILLER	502442.913	2746945.205	34.652
79	PILLER T79	PILLER	502602.365	2747030.572	27.445
80	PILLER T80	PILLER	502856.878	2747102.272	27.569
81	PILLER T81	PILLER	503063.749	2747002.479	27.063
82	PILLER T82	PILLER	503222.355	2746787.469	28.513
83	PILLER T83	PILLER	503458.339	2746792.473	28.040
84	PILLER T84	PILLER	503614.898	2746781.933	26.663
85	PILLER T85	PILLER	503875.074	2746751.272	26.695
86	PILLER T86	PILLER	504039.124	2746728.481	27.134
87	PILLER T87	PILLER	504259.123	2746760.053	28.137
88	PILLER T88	PILLER	504452.631	2746693.297	26.339
89	PILLER T89	PILLER	504587.629	2746609.567	26.279
90	PILLER T90	PILLER	508285.831	2745886.787	37.150
91	PILLER T91	PILLER	508690.528	2745900.051	33.489
92	PILLER T92	PILLER	508895.689	2745751.297	40.532
93	PILLER T93	PILLER	509248.202	2745882.712	38.416
94	PILLER T94	PILLER	509340.745	2745821.703	34.556
95	PILLER T95	PILLER	509539.327	2745790.271	34.029
96	PILLER T96	PILLER	509716.445	2745697.375	47.849
97	PILLER T97	PILLER	509927.979	2745677.099	52.057
98	PILLER T98	PILLER	510099.622	2745636.368	31.925
99	PILLER T99	PILLER	510670.612	2745711.158	38.923
100	PILLER T100	PILLER	510858.469	2745673.768	43.277
101	PILLER T101	PILLER	511055.059	2745599.459	28.626
102	PILLER T102	PILLER	511280.553	2745517.364	28.827
103	PILLER T103	PILLER	511525.053	2745579.090	27.535
104	PILLER T104	PILLER	511704.279	2745575.133	28.110

Sl.No.	Station ID	Station Code	Coordinate		Level
			Easting	Northing	
105	PILLER T105	PILLER	511942.502	2745588.175	29.237
106	PILLER T106	PILLER	512106.612	2745592.739	27.080
107	PILLER T107	PILLER	512286.056	2745514.386	35.492
108	PILLER T108	PILLER	512509.368	2745491.215	28.815
109	PILLER T109	PILLER	512640.786	2745440.737	29.379
110	PILLER T110	PILLER	512926.120	2745490.648	26.177
111	PILLER T111	PILLER	513073.875	2745355.964	29.014
112	PILLER T112	PILLER	513308.870	2745398.738	28.618
113	PILLER T113	PILLER	513633.875	2745241.249	31.419
114	PILLER T114	PILLER	513814.986	2745145.317	33.003
115	PILLER T115	PILLER	514027.333	2745016.650	28.995
116	PILLER T116	PILLER	514184.904	2744963.416	28.918
117	PILLER T117	PILLER	514385.074	2744864.342	30.066
118	PILLER T118	PILLER	514558.648	2744815.023	29.607
119	PILLER T119	PILLER	514748.789	2744776.342	29.982
120	PILLER T120	PILLER	514937.234	2744698.426	30.818
121	PILLER T121	PILLER	515177.369	2744659.462	31.600
122	PILLER T122	PILLER	515382.252	2744603.385	30.872
123	PILLER T123	PILLER	515585.851	2744497.433	30.629
124	PILLER T124	PILLER	515786.912	2744452.332	30.242
125	PILLER T125	PILLER	515950.696	2744340.212	29.534
126	PILLER T126	PILLER	516099.870	2744223.519	29.463
127	PILLER T127	PILLER	516269.501	2744178.771	29.639
128	PILLER T128	PILLER	516419.333	2744108.667	30.132
129	PILLER T129	PILLER	516608.890	2744004.857	30.933
130	PILLER T130	PILLER	516734.258	2743870.323	31.921
131	PILLER T131	PILLER	516884.168	2743715.917	32.817
132	PILLER T132	PILLER	516981.273	2743591.084	33.379
133	PILLER T133	PILLER	517044.103	2743389.003	34.175
134	PILLER T134	PILLER	517057.046	2743231.150	35.047
135	PILLER T135	PILLER	517171.786	2743030.579	42.049
136	PILLER T136	PILLER	517161.902	2742788.701	36.183
137	PILLER T137	PILLER	517347.564	2742385.649	42.522
138	PILLER T138	PILLER	517420.095	2742269.323	37.715
TBM Points at Tunnel					
139	PILLER T9	PILLER	506369.364	2746153.820	120.131
140	PILLER T8	PILLER	506367.895	2746141.391	121.565
141	PILLER T7	PILLER	506375.082	2746130.215	122.110
142	PILLER T6	PILLER	506750.035	2746142.733	153.752
143	PILLER T5	PILLER	506758.402	2746151.654	148.338
144	PILLER T4	PILLER	506765.366	2746147.788	147.345
145	PILLER T3	PILLER	507131.105	2745920.107	35.232
146	PILLER T2	PILLER	507166.378	2745959.744	37.926
147	PILLER T1	PILLER	507199.490	2746125.379	36.974
148	PILLER T570	PILLER	507694.771	2745963.980	38.539
149	PILLER T569	PILLER	507706.520	2745942.968	39.288
150	PILLER T568	PILLER	507700.489	2745917.947	38.794
151	PILLER T572	PILLER	508278.818	2745866.963	31.626
152	PILLER T573	PILLER	508280.346	2745837.086	31.184
153	PILLER T571	PILLER	508294.756	2745886.197	31.837

Rev.	Date	Description
R0	15-06-2022	DRAFT DETAILED PROJECT REPORT
R0	21-07-2023	FINAL DETAILED PROJECT REPORT
R1	03-06-2024	FINAL DETAILED PROJECT REPORT
R2	20-11-2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

Authority:
National Highways & Infrastructure Development Corporation Ltd.
(Ministry of Road Transport & Highways)

Design Consultants:
Transys Consulting Pvt. Ltd.
001-004, Raheja chambers, No.12, Museum Road, Bengaluru-560001; Tel: 080-41461995; email: transys_blr@transysconsulting.co.in

Project:
Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)
Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

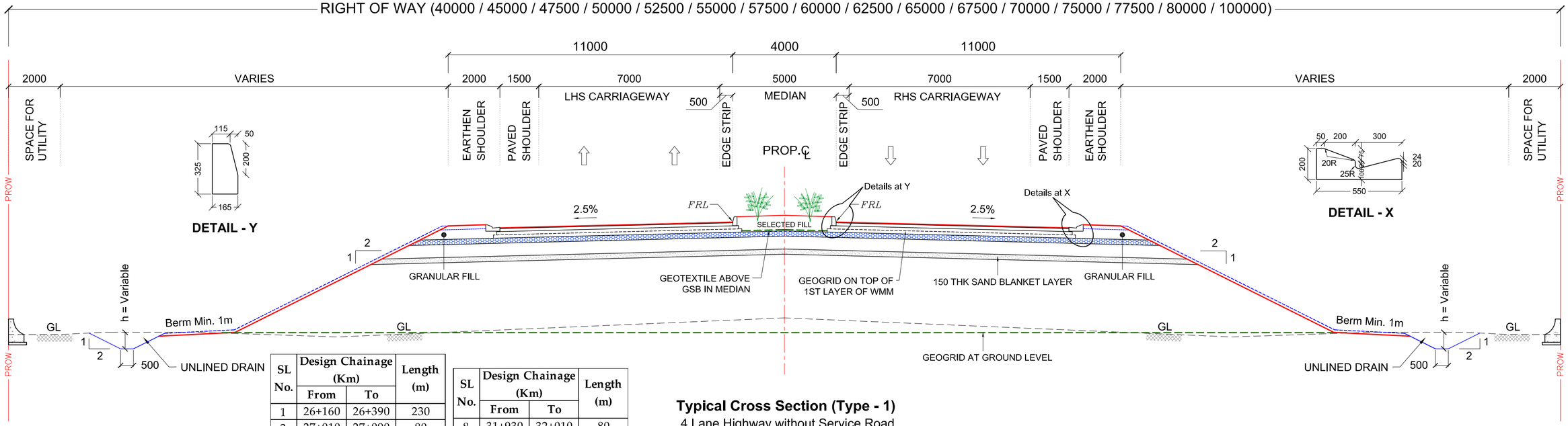
DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **List of Reference PIllars**

Size	Scale	Drg. No	Rev:
A2	NTS	Transys-NH37-Gen-RP-01	R2

TYPICAL CROSS SECTIONS



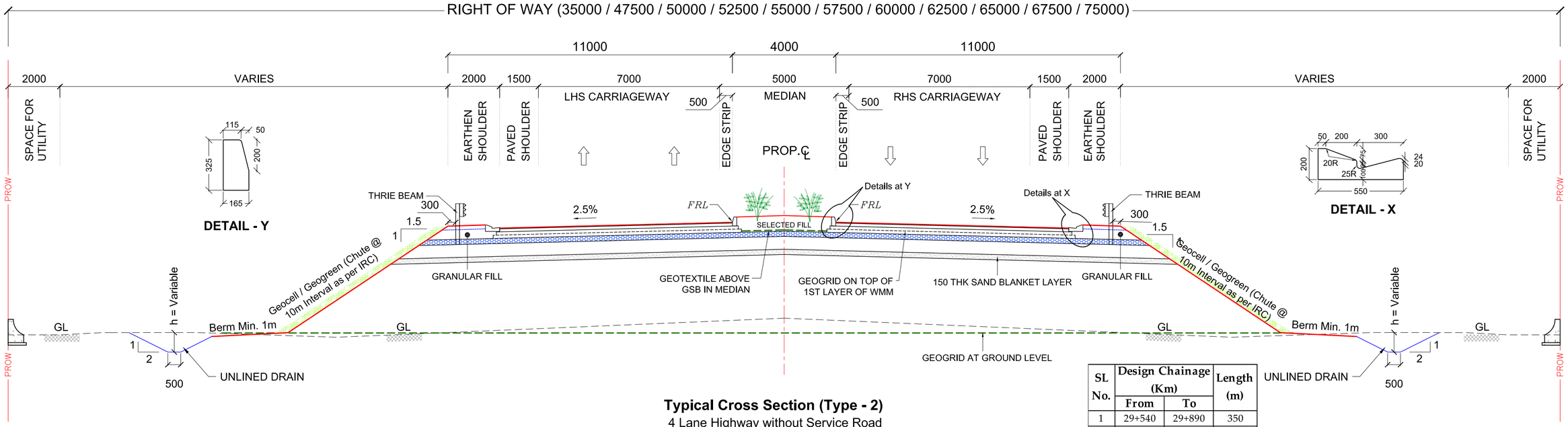
SL No.	Design Chainage (Km) From	To	Length (m)
1	26+160	26+390	230
2	27+010	27+090	80
3	27+180	27+260	80
4	28+170	28+250	80
5	28+640	28+690	50
6	29+250	29+430	180
7	30+940	31+200	260

SL No.	Design Chainage (Km) From	To	Length (m)
8	31+930	32+010	80
9	32+270	32+340	70
10	32+800	33+440	640
11	34+200	34+850	650
12	35+140	36+450	1310
Length =			3710

Typical Cross Section (Type - 1)
4 Lane Highway without Service Road
(Embankment Height ≤ 3m with Turfing treatment)

Note:

* Signboards shall be placed 300mm from outer edge of Earthen shoulder on embankment fill side.



SL No.	Design Chainage (Km) From	To	Length (m)
1	29+540	29+890	350
2	29+950	30+020	70
3	31+200	31+750	550
4	31+750	31+840	90
5	32+550	32+800	250
Total Length =			1310

Typical Cross Section (Type - 2)
4 Lane Highway without Service Road
(Embankment Height > 3m and ≤ 6m with Geo-green on Embankment slope)

Note:

* Signboards shall be placed 300mm from outer edge of Earthen shoulder on embankment fill side.

Rev.	Date	Description
R0	15-06-2022	DRAFT DETAILED PROJECT REPORT
R0	21-07-2023	FINAL DETAILED PROJECT REPORT
R1	03-06-2024	FINAL DETAILED PROJECT REPORT
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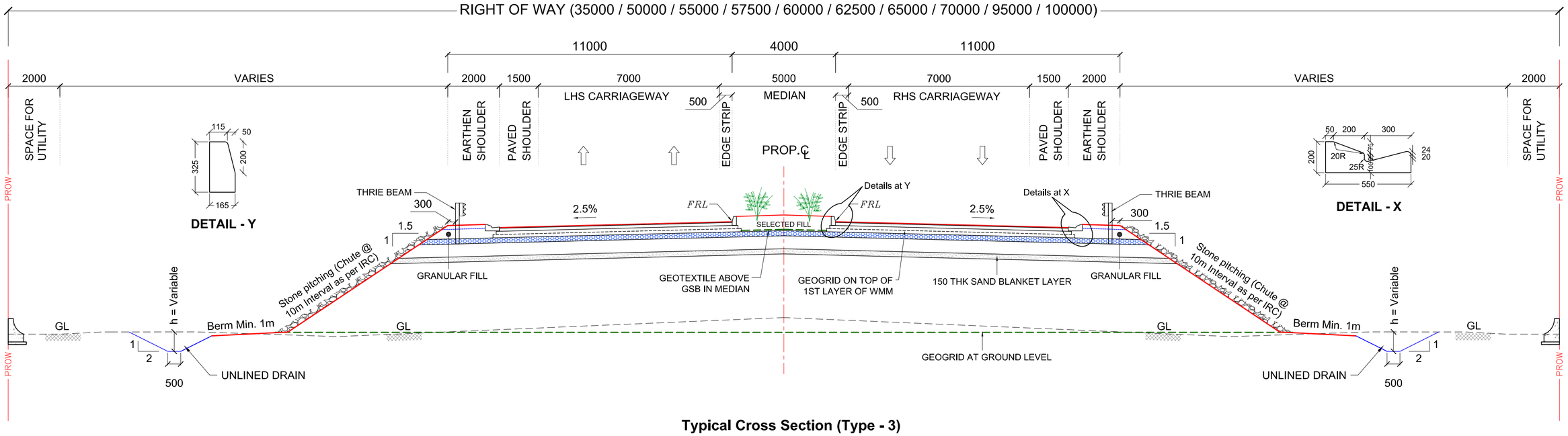
Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)
Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Typical Cross Sections**

Size	Scale	Drg. No	Rev:
A2	NTS	Transys-NH37-TCS-01	R2



Typical Cross Section (Type - 3)

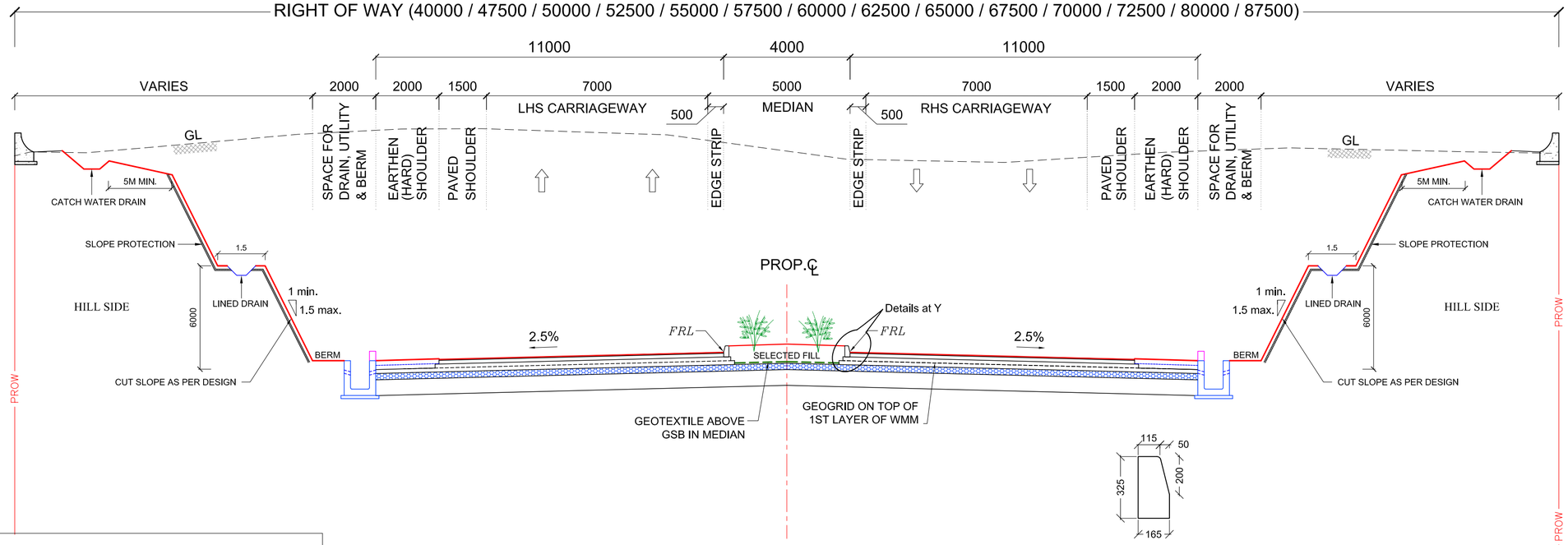
4 Lane Highway without Service Road

(Embankment Height > 6m with Stone pitching on Embankment slope)

Note:

* Signboards shall be placed 300mm from outer edge of Earthen shoulder on embankment fill side.

SL No.	Design Chainage (Km)		Length (m)
	From	To	
1	36+710	37+120	410
Total Length =			410



Typical Cross Section (Type - 4)

4 Lane Highway without Service Road in Cutting on both sides

Note:

* Signboards shall be placed at the berm on outerside of PCC drain.

SL No.	Design Chainage (Km)		Length (m)
	From	To	
1	24+560	24+600	40
2	26+000	26+160	160
3	26+390	26+450	60
4	26+860	27+010	150
5	27+090	27+140	50
6	27+770	28+010	240
7	28+360	28+410	50
8	28+510	28+580	70
9	28+690	28+820	130
10	28+910	29+110	200
11	29+430	29+540	110
12	32+010	32+210	200
13	32+380	32+490	110
14	34+940	35+090	150
15	37+600	37+650	50
Total Length =			1770

Rev.	Date	Description
R0	15-06-2022	DRAFT DETAILED PROJECT REPORT
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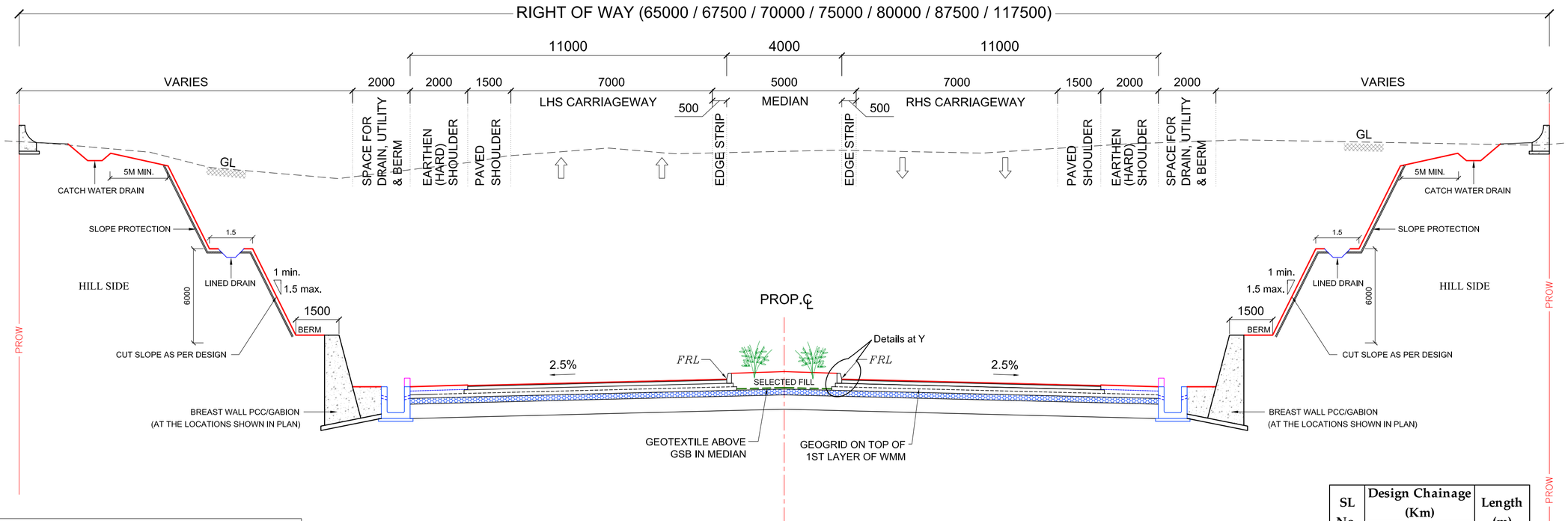
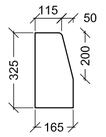
DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Typical Cross Sections**

Size	*Scale*	*Drg. No*	*Rev:*
A2	NTS	**Transys-NH37-TCS-02**	**R2**





DETAIL - Y

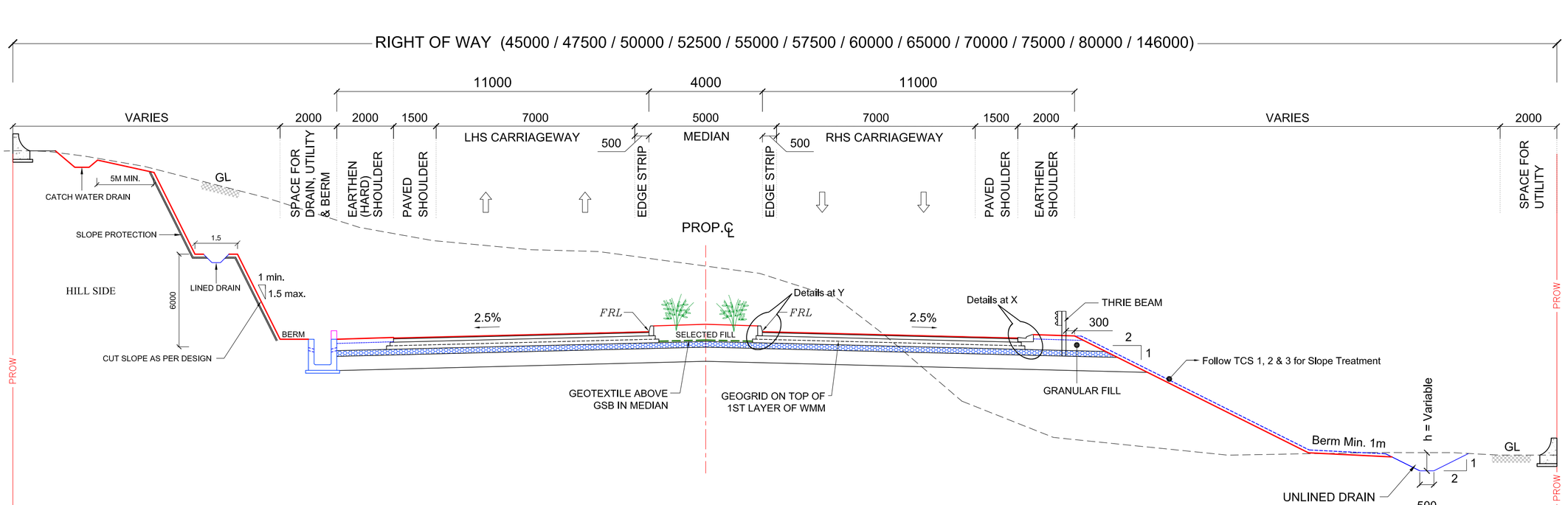
Typical Cross Section (Type - 5)

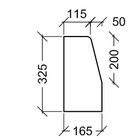
4 Lane Highway without Service Road in Cutting with both side Breast Wall

SL No.	Design Chainage (Km)		Length (m)
	From	To	
1	26+450	26+860	410
Total Length =			410

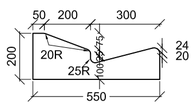
Note:

* Signboards shall be placed at the berm on outerside of PCC drain.





DETAIL - Y



DETAIL - X

Typical Cross Section (Type - 6)

4 Lane Highway without Service Road with normal Cut and Fill

SL No.	Design Chainage (Km)		Length (m)
	From	To	
1	27+140	27+180	40
2	27+260	27+300	40
3	28+010	28+170	160
4	28+250	28+360	110
5	28+410	28+510	100
6	28+580	28+640	60
7	28+820	28+910	90
8	29+110	29+250	140
9	29+890	29+950	60
10	30+020	30+090	70
11	31+840	31+930	90
12	32+210	32+270	60
13	32+340	32+380	40
14	32+490	32+550	60
15	35+090	35+140	50
16	36+450	36+710	260
17	37+470	37+600	130
Total Length =			1560

Note:

* Signboards shall be placed 300mm from outer edge of Earthen shoulder on embankment fill side.

* Signboards shall be placed at the berm on outerside of PCC drain.

Rev.	Date	Description
R0	15-06-2022	DRAFT DETAILED PROJECT REPORT
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R2	20-11-2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

Authority:

National Highways & Infrastructure Development Corporation Ltd.
(Ministry of Road Transport & Highways)

Design Consultants:

Transys Consulting Pvt. Ltd.
001-004, Raheja chambers, No.12, Museum Road, Bengaluru-560001; Tel: 080-41461995; email: transys_blr@transysconsulting.co.in

Project:

Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)

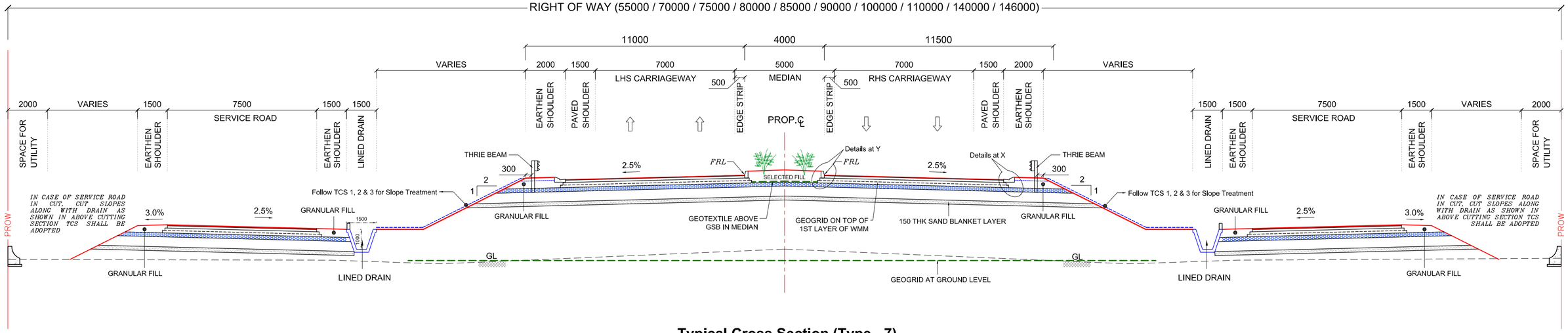
Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

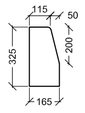
Title: **Typical Cross Sections**

Size	Scale	Drg. No	Rev:
A2	NTS	Transys-NH37-TCS-03	R2

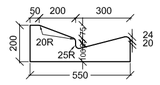


Typical Cross Section (Type - 7)

4 Lane Highway with Slip Road on both sides (at underpass approaches)

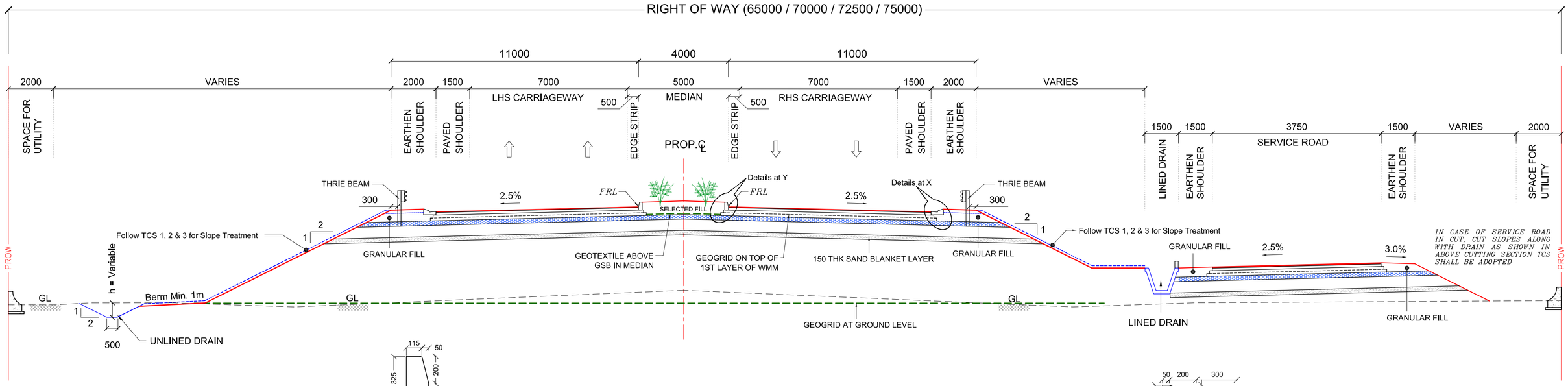


DETAIL - Y



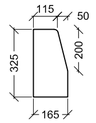
DETAIL - X

SL No.	Design Chainage (Km)		Length (m)
	From	To	
1	30+090	30+940	850
2	33+440	34+200	760
3	37+120	37+470	350
Total Length =			1960

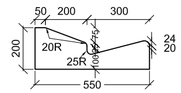


Typical Cross Section (Type - 8)

4 Lane Highway with Slip Road on one side



DETAIL - Y



DETAIL - X

SL No.	Design Chainage (Km)		Length (m)
	From	To	
1	34+850	34+940	90
Total Length =			90

Note:

* Signboards shall be placed 300mm from outer edge of Earthen shoulder on embankment fill side.

Rev.	Date	Description
R0	15-06-2022	DRAFT DETAILED PROJECT REPORT
R0	21-07-2023	FINAL DETAILED PROJECT REPORT
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R2	20-11-2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

Authority:

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(Ministry of Road Transport & Highways)

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Project:

Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)

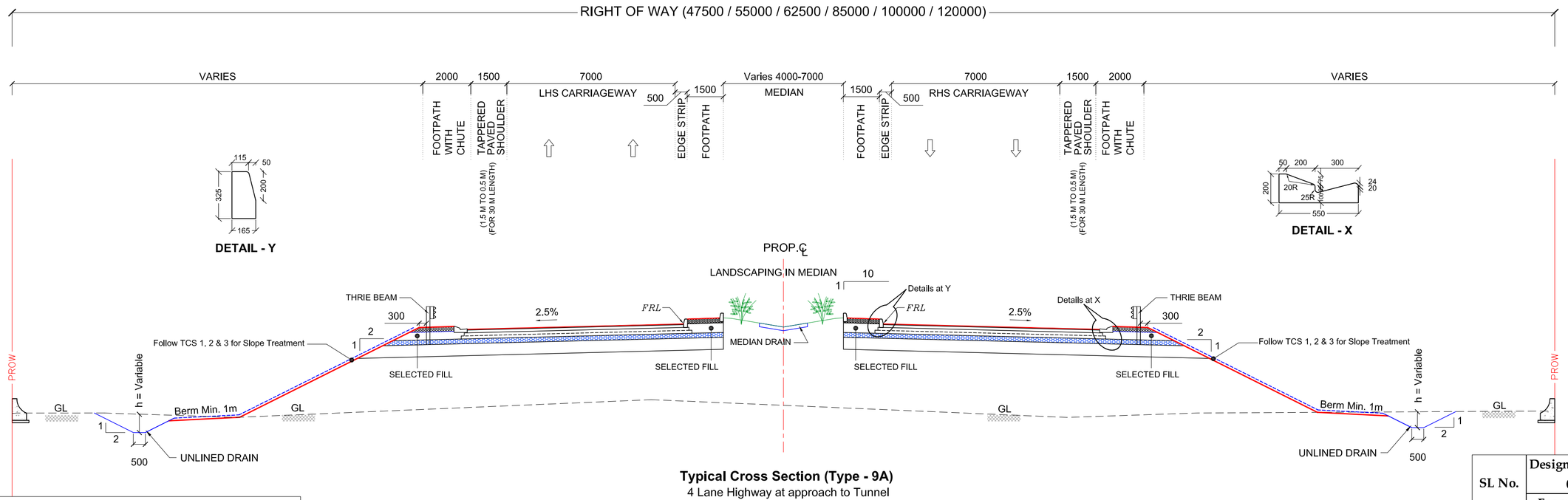
Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Typical Cross Sections**

Size	Scale	Drg. No	Rev:
A2	NTS	Transys-NH37-TCS-04	R2

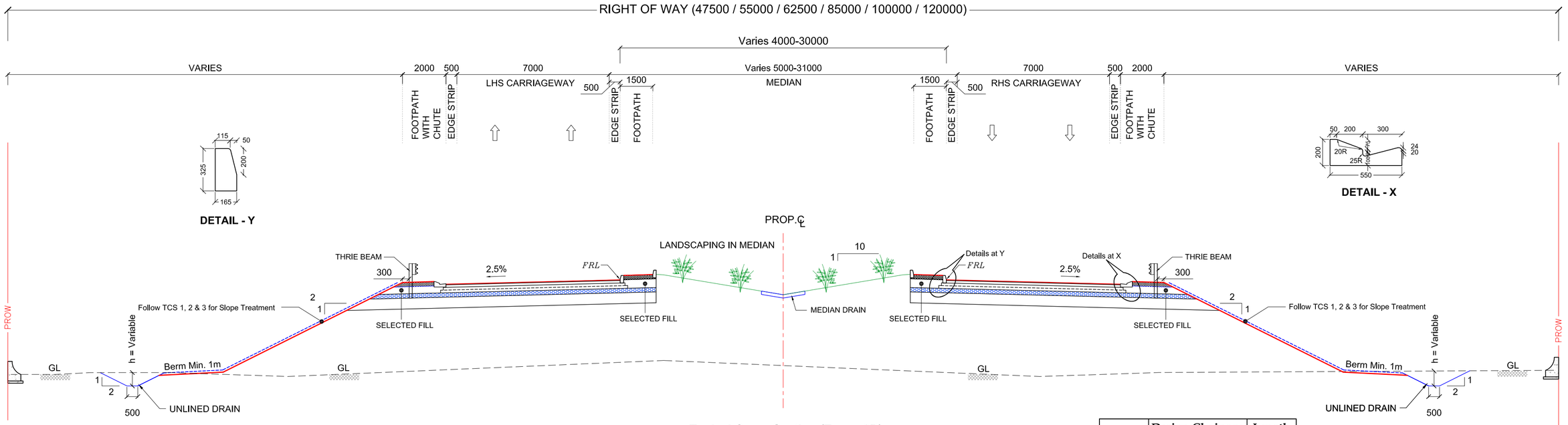


Typical Cross Section (Type - 9A)
4 Lane Highway at approach to Tunnel

SL No.	Design Chainage (Km)		Length (m)
	From	To	
1	24+600	24+630	30
2	25+970	26+000	30
Total Length =			60

Note:

* Signboards shall be placed 300mm from outer edge of Earthen shoulder on embankment fill side.



Typical Cross Section (Type - 9B)
4 Lane Highway at approach to Tunnel

SL No.	Design Chainage		Length
	From	To	(m)
1	24+630	24+820	190
2	25+710	25+970	260
Total Length =			450

Note:

* Signboards shall be placed 300mm from outer edge of Earthen shoulder on embankment fill side.

Rev.	Date	Description
R0	15-06-2022	DRAFT DETAILED PROJECT REPORT
R0	21-07-2023	FINAL DETAILED PROJECT REPORT
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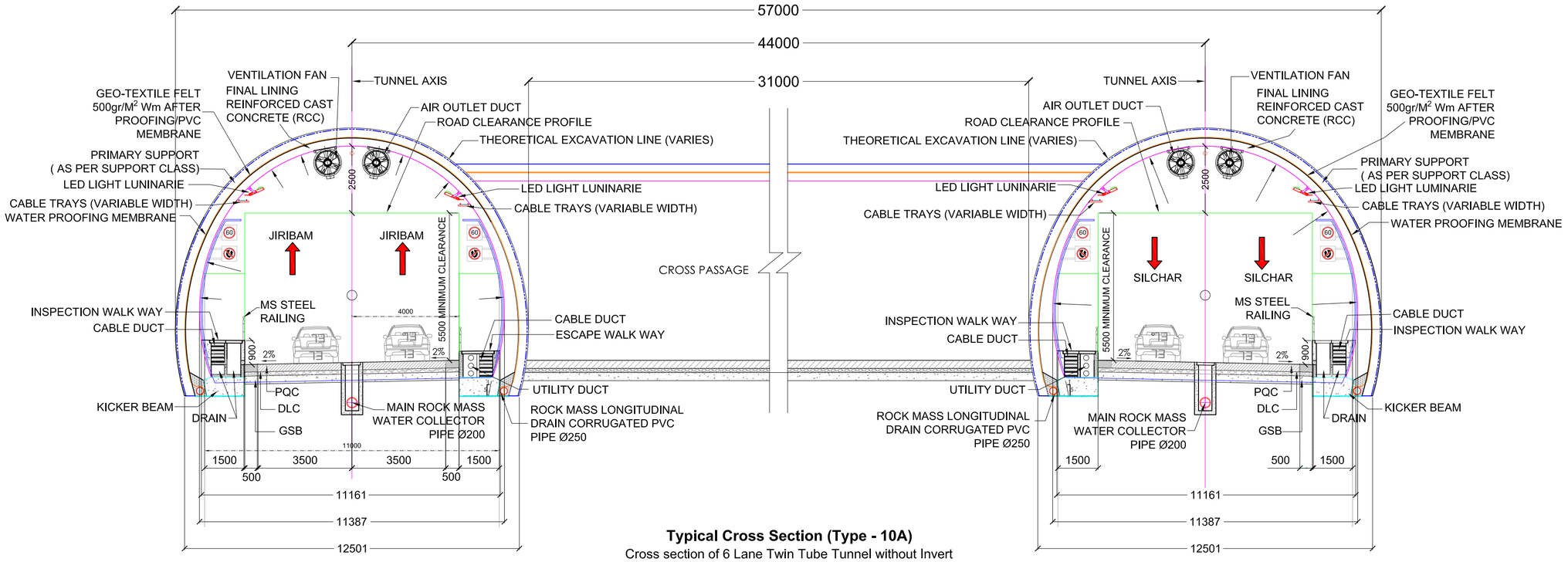
DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

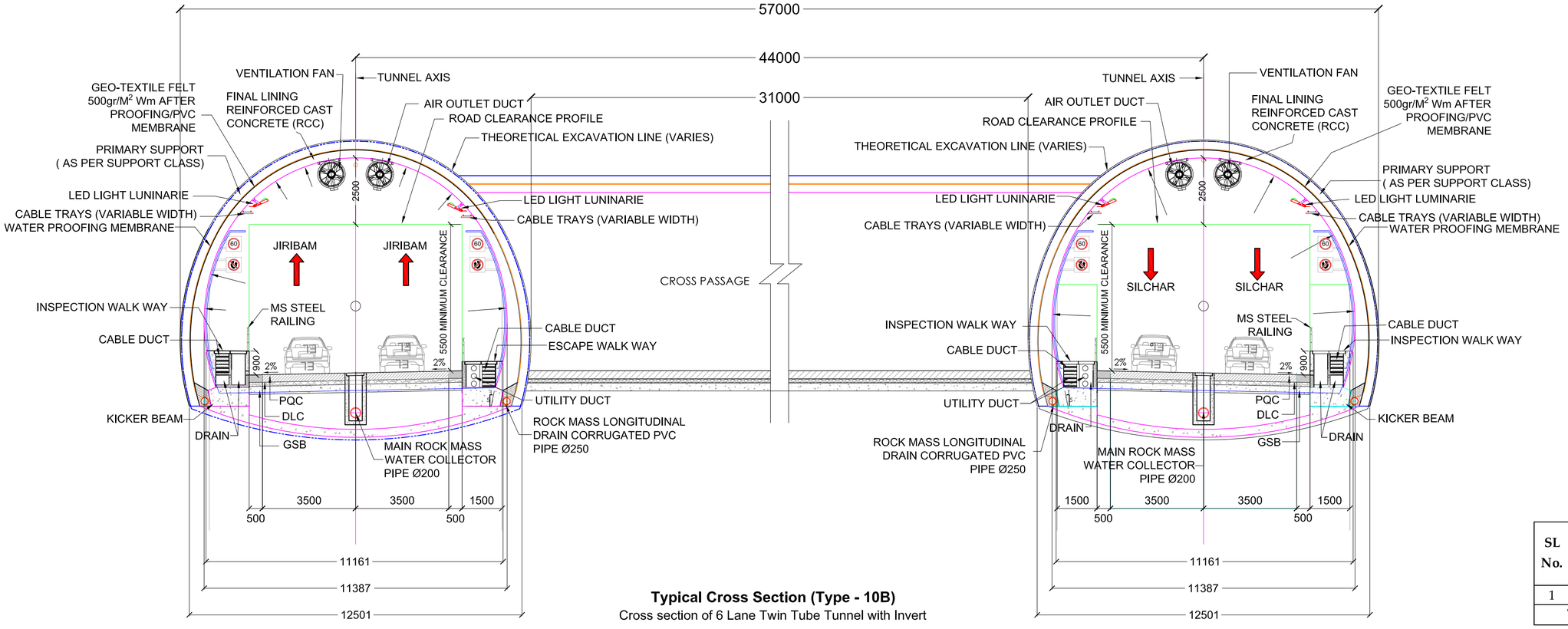
Title: **Typical Cross Sections**

Size	*Scale*	*Drg. No*	*Rev:*
A2	NTS	Transys-NH37-TCS-05	R2



Typical Cross Section (Type - 10A)

Cross section of 6 Lane Twin Tube Tunnel without Invert



Typical Cross Section (Type - 10B)

Cross section of 6 Lane Twin Tube Tunnel with Invert

SL No.	Design Chainage (Km)		Length (m)
	From	To	
1	24+820	25+710	890
Total Length =			890

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R0	15-06-2022	DRAFT DETAILED PROJECT REPORT
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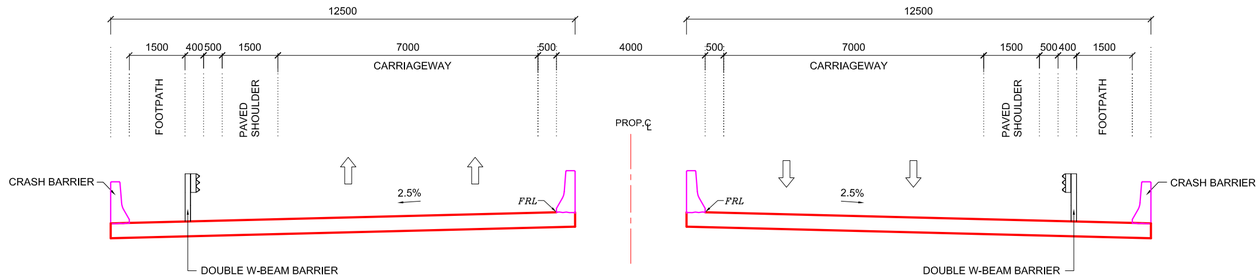
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

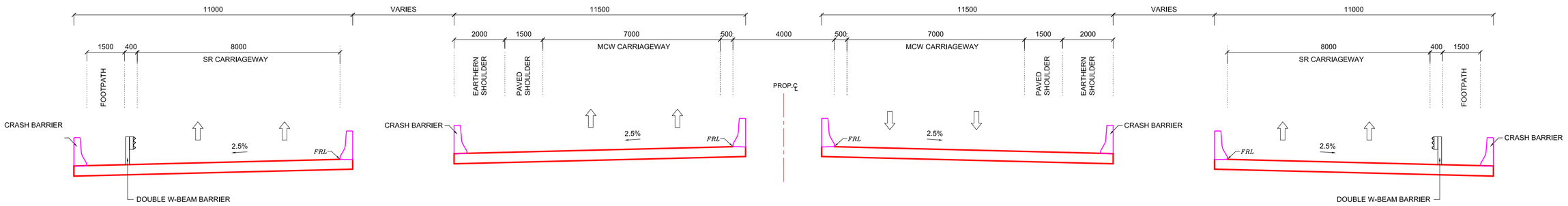
Title: **Typical Cross Sections**

Size	Scale	Drg. No	Rev:
A2	NTS	Transys-NH37-TCS-06	R2



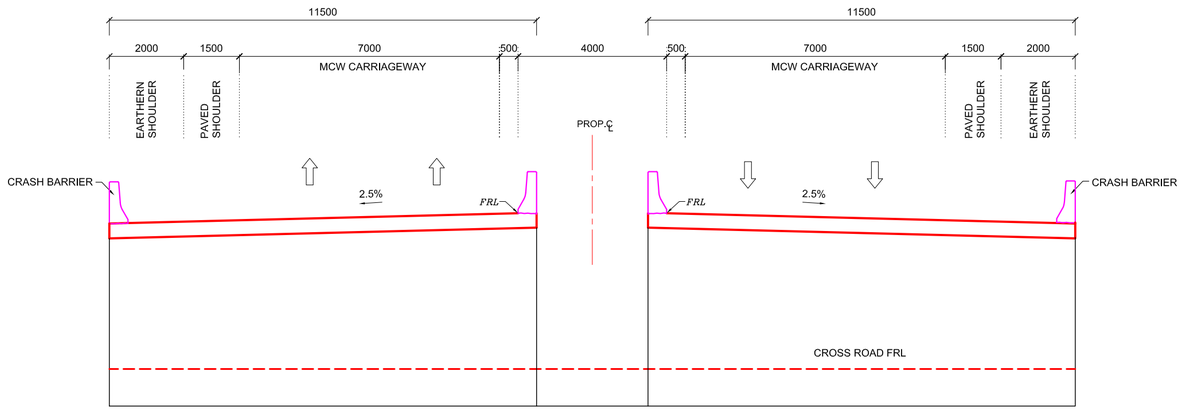
Typical Cross Section (TCS - 11)

4 Lane of Bridge without Service Road at deck with Footpath



Typical Cross Section (TCS - 12)

4 Lane of Bridge with Slip Road at deck with Footpath



Typical Cross Section (TCS - 13)

4 Lane of SVUP/LVUP/VUP at deck

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. EDGE TREATMENT OF GSB SHLL BE AS PER FIG.5.5 OF IRC:SP:42–2014.
3. FOR THE SECTIONS IN EMBANKMENT THE BOTTOM OF SUBGRADE SHALL BE MINIMUM 1.0M ABOVE HFL/NGL/POND LEVEL.
4. FOR EMBANKMENT & CUT SLOPES SUITABLE PROTECTION MEASURES SHALL BE PROVIDED. BREAST WALLS SHALL BE PROVIDED AT THE LOCATIONS SHOWN IN PLAN.
5. CHUTE DRAIN SHALL BE PROVIDED WITH ENERGY DISSIPATION BASIN AT TOE OF EMBANKMENT, CONNECTED WITH STORM WATER DRAIN IN ENTIRE LENGTH.
6. FOR FILL SECTIONS GEO GRID LAYER SHALL BE PROVIDED IN ENTIRE FORMATION WIDTH OF MAIN CARRIAGEWAY AT THE BOTTOM OF EMBANKMENT.
7. 150MM THK SAND BALNKET LAYER SHALL BE PROVIDED ATLEAST 1.5M BELOW FRL AT ALL FILL SECTIONS FOR BOTH MAIN CARRIAGWAY AND SERVICE ROAD
8. GSB LAYER SHALL BE EXTENDED IN ENTIRE FORMATION WIDTH. GEO–TEXTIE SHALL BE PROVIDED IN THE MEDIAN AS PER RELEVANT IRC CODES TO ARREST THE INGRESS OF FINES INTO GSB LAYER.
9. STORM WATER DRAIINS SHALL BE PROVIDED AT THE TOE OF EMBANKMENT ON BOTH SIDES IN ENTIRE LENGTH. TYPE AND SIZE OF DRAIN SHALL BE AS PER RELEVANT IRC CODES.
10. THRIE BEAM METAL CRASH BARRIER SHALL BE PROVIDED IN ENTIRE LENGTH AT SHOULDER EDGE
11. ALL THE CROSS–SECTIONAL ELEMENTS INCLUDING TOE DRAIN AND UTILITY CORRIDOR SHALL BE ACCOMODATED WITHIN THE ROW, NECESSARY PROTECTION WORKS LIKE TOE WALLS/RETAINING WALLS SHALL BE PROVIDED ACCORDINGLY WHERE REQUIRED.

Rev.	Date	Description
R0	15-06-2022	DRAFT DETAILED PROJECT REPORT
R0	21-07-2023	FINAL DETAILED PROJECT REPORT
R1	03-06-2024	FINAL DETAILED PROJECT REPORT
R2	20-11-2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

Authority:

National Highways & Infrastructure Development Corporation Ltd.
(Ministry of Road Transport & Highways)

Design Consultants:

Transys Consulting Pvt. Ltd.
001-004, Raheja chambers, No.12, Museum Road, Bengaluru-560001; Tel: 080-41461995; email: transys_blr@transysconsulting.co.in

Project:

Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)

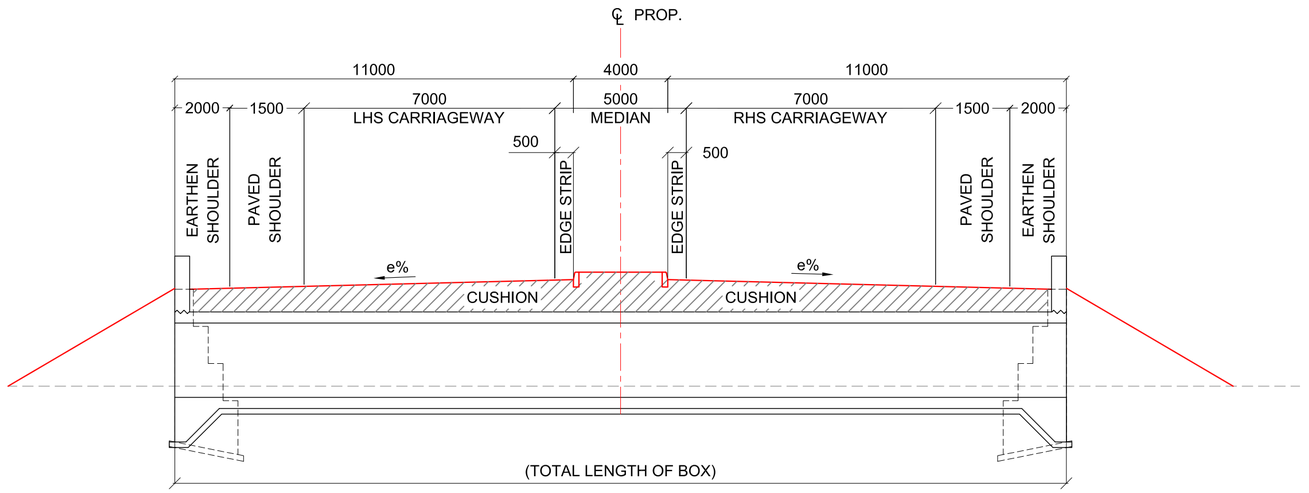
Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

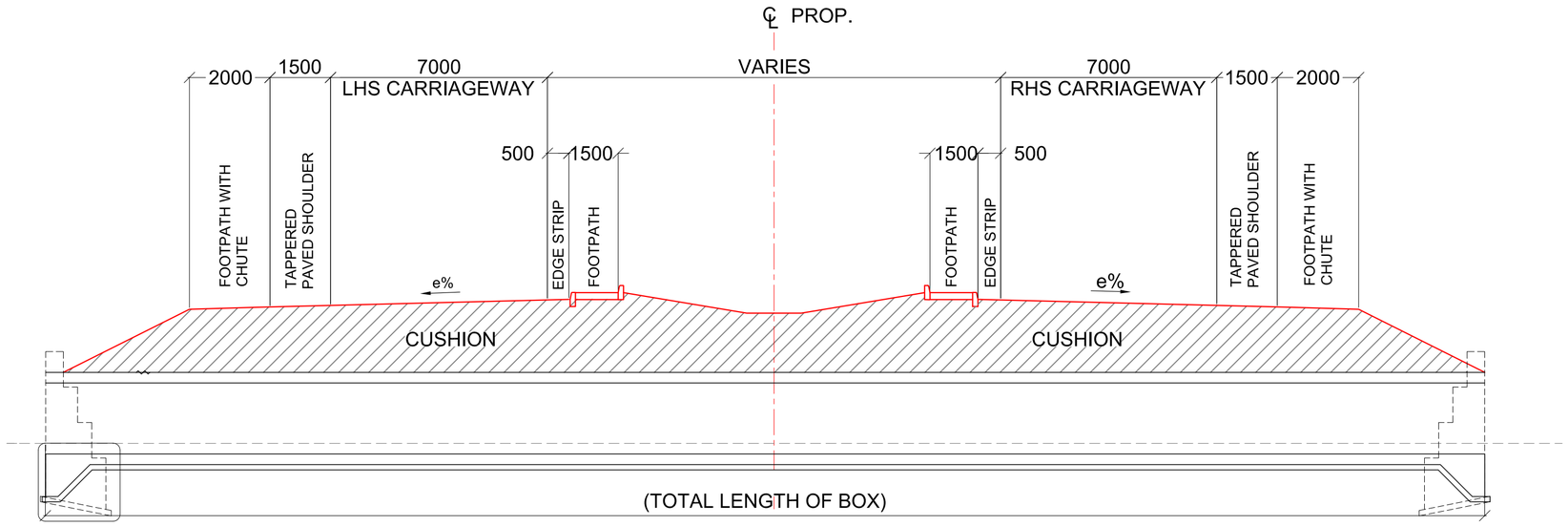
FINAL DETAILED PROJECT REPORT

Title: **Typical Cross Sections**

Size	*Scale*	*Drg. No*	*Rev:*
A2	NTS	**Transys-NH37-TCS-07**	**R2**



Typical Cross Section (TCS - 14)
Box Culvert



Typical Cross Section (TCS - 15)
Box Culvert at depressed Median

Rev.	Date	Description
R0	15-06-2022	DRAFT DETAILED PROJECT REPORT
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DESIGNED BY	ROJALEEN
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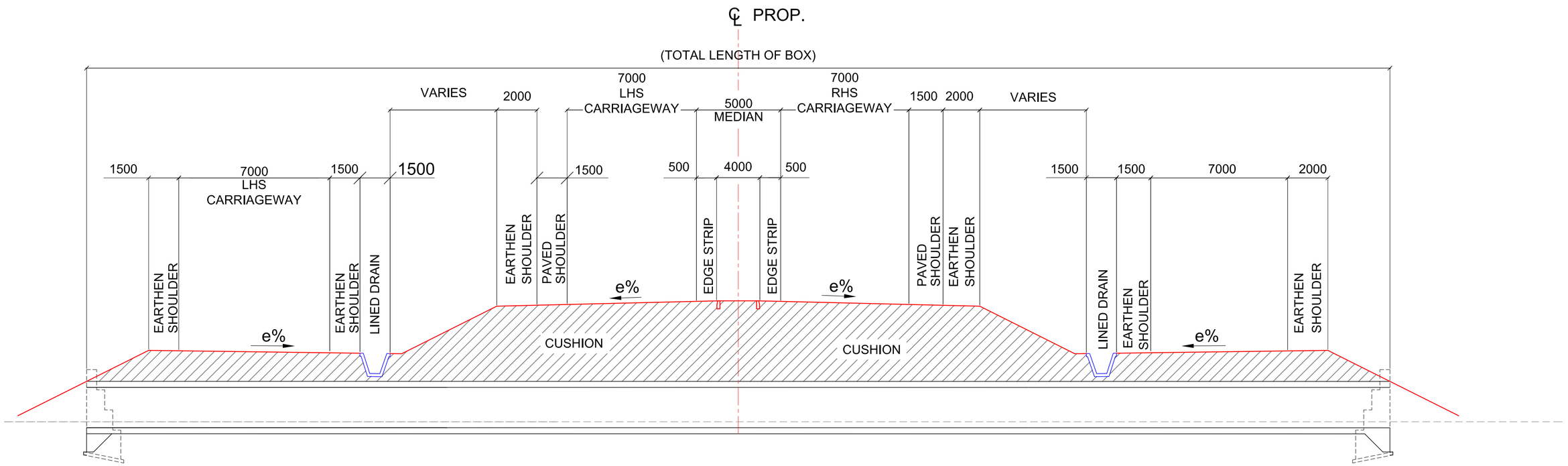
APPROVED BY	SANJEEV

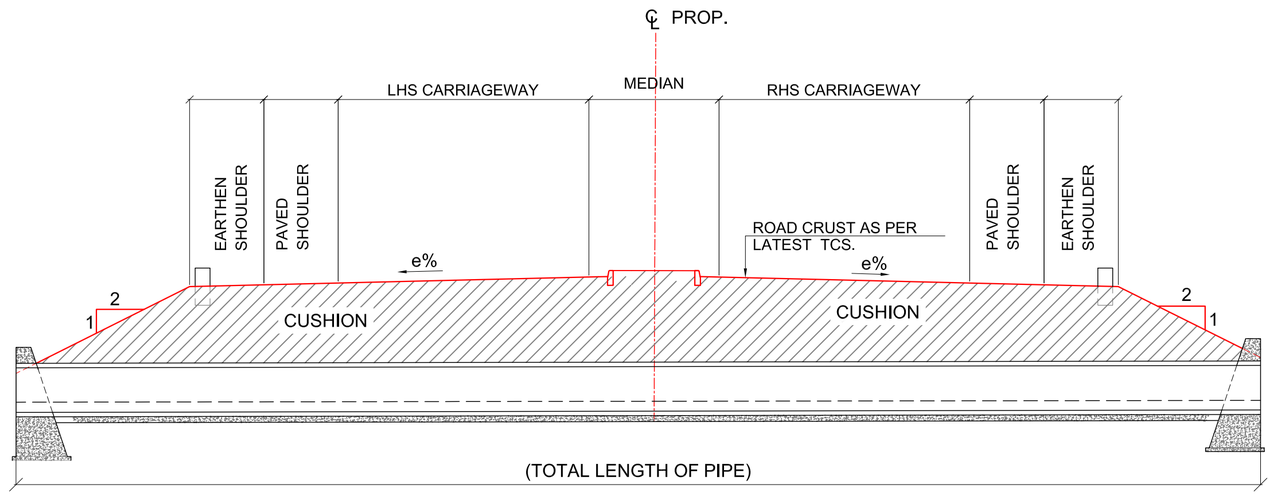
FINAL DETAILED PROJECT REPORT

Title: **Typical Cross Sections**

Size	*Scale*	*Drg. No*	*Rev:*
A2	NTS	**Transys-NH37-TCS-08**	**R2**



Typical Cross Section (TCS - 16)
Box Culvert with Service Road



Typical Cross Section (TCS - 17)
Pipe Culvert

Rev.	Date	Description
R0	15-06-2022	DRAFT DETAILED PROJECT REPORT
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Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

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DESIGNED BY	ROJALEEN
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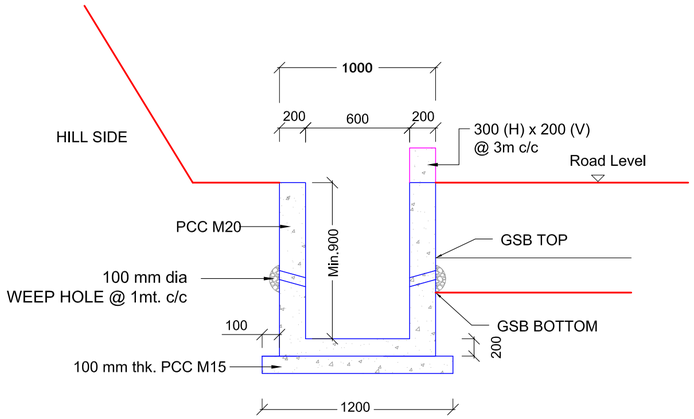
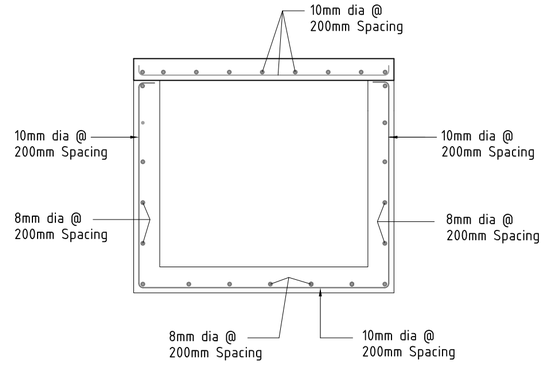
FINAL DETAILED PROJECT REPORT

Title: **Typlcal Cross Sectlons**

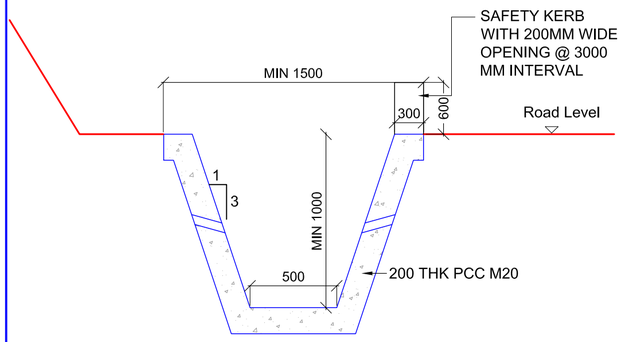
Size	*Scale*	*Drg. No*	*Rev:*
A2	NTS	**Transys-NH37-TCS-09**	**R2**



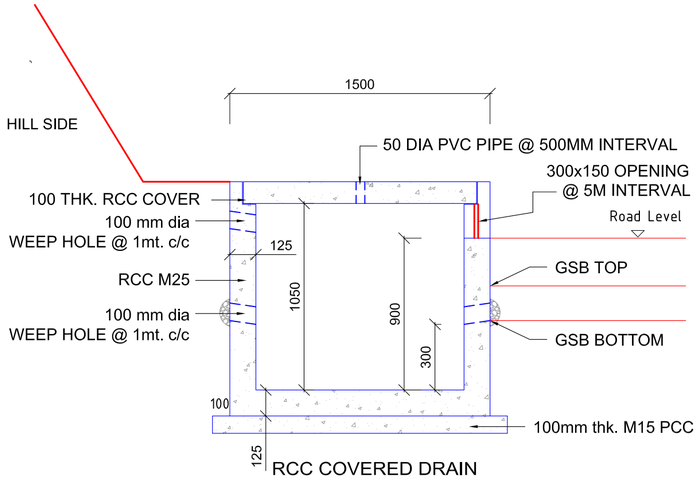
RCC OPEN DRAIN
(On Hill side)



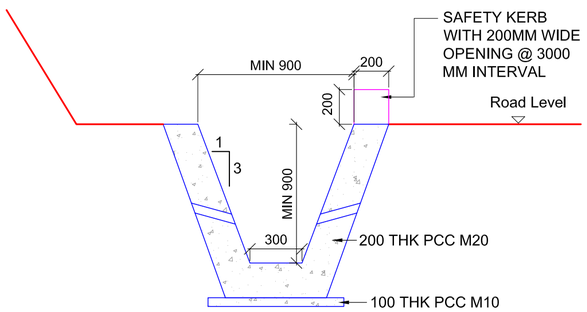
REINFORCEMENT DETAIL



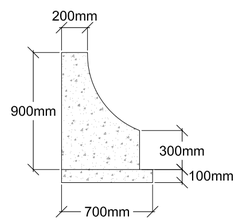
PCC LINED DRAIN TYPE I
(at Grade Separater)



RCC COVERED DRAIN



PCC LINED DRAIN TYPE II



ROAD BOUNDARY WALLS

Typical Cross Section Schedule

SL No.	Design Chainage (Km)		Length (m)	TCS Type	Remarks
	From	To			
1	24+560	24+600	40	TCS 4	Greenfield Alignment
2	24+600	24+630	30	TCS 9A	Greenfield Alignment
3	24+630	24+830	200	TCS 9B	Greenfield Alignment
4	24+830	25+710	880	TCS 10A TCS 10B	Greenfield Alignment
5	25+710	25+970	260	TCS 9B	Greenfield Alignment
6	25+970	26+000	30	TCS 9A	Greenfield Alignment
7	26+000	26+160	160	TCS 4	Greenfield Alignment
8	26+160	26+390	230	TCS 1	Greenfield Alignment
9	26+390	26+450	60	TCS 4	Greenfield Alignment
10	26+450	26+860	410	TCS 5	Greenfield Alignment
11	26+860	27+010	150	TCS 4	Greenfield Alignment
12	27+010	27+090	80	TCS 1	Greenfield Alignment
13	27+090	27+140	50	TCS 4	Greenfield Alignment
14	27+140	27+180	40	TCS 6	Greenfield Alignment
15	27+180	27+260	80	TCS 1	Greenfield Alignment
16	27+260	27+300	40	TCS 6	Greenfield Alignment
17	27+300	27+770	470	TP	Greenfield Alignment
18	27+770	28+010	240	TCS 4	Greenfield Alignment
19	28+010	28+170	160	TCS 6	Greenfield Alignment
20	28+170	28+250	80	TCS 1	Greenfield Alignment
21	28+250	28+360	110	TCS 6	Greenfield Alignment
22	28+360	28+410	50	TCS 4	Greenfield Alignment
23	28+410	28+510	100	TCS 6	Greenfield Alignment
24	28+510	28+580	70	TCS 4	Greenfield Alignment
25	28+580	28+640	60	TCS 6	Greenfield Alignment
26	28+640	28+690	50	TCS 1	Greenfield Alignment
27	28+690	28+820	130	TCS 4	Greenfield Alignment
28	28+820	28+910	90	TCS 6	Greenfield Alignment
29	28+910	29+110	200	TCS 4	Greenfield Alignment
30	29+110	29+250	140	TCS 6	Greenfield Alignment
31	29+250	29+430	180	TCS 1	Greenfield Alignment
32	29+430	29+540	110	TCS 4	Greenfield Alignment
33	29+540	29+890	350	TCS 2	Greenfield Alignment
34	29+890	29+950	60	TCS 6	Greenfield Alignment
35	29+950	30+020	70	TCS 2	Greenfield Alignment
36	30+020	30+090	70	TCS 6	Greenfield Alignment
37	30+090	30+940	850	TCS 7	Greenfield Alignment
38	30+940	31+200	260	TCS 1	Greenfield Alignment
39	31+200	31+750	550	TCS 2	Greenfield Alignment
40	31+750	31+840	90	TCS 2	Greenfield Alignment
41	31+840	31+930	90	TCS 6	Greenfield Alignment
42	31+930	32+010	80	TCS 1	Greenfield Alignment
43	32+010	32+210	200	TCS 4	Greenfield Alignment
44	32+210	32+270	60	TCS 6	Greenfield Alignment
45	32+270	32+340	70	TCS 1	Greenfield Alignment
46	32+340	32+380	40	TCS 6	Greenfield Alignment
47	32+380	32+490	110	TCS 4	Greenfield Alignment
48	32+490	32+550	60	TCS 6	Greenfield Alignment
49	32+550	32+800	250	TCS 2	Greenfield Alignment
50	32+800	33+440	640	TCS 1	Greenfield Alignment
51	33+440	34+200	760	TCS 7	Greenfield Alignment
52	34+200	34+850	650	TCS 1	Greenfield Alignment
53	34+850	34+940	90	TCS 8	Greenfield Alignment
54	34+940	35+090	150	TCS 4	Greenfield Alignment
55	35+090	35+140	50	TCS 6	Greenfield Alignment
56	35+140	36+450	1310	TCS 1	Greenfield Alignment
57	36+450	36+710	260	TCS 6	Greenfield Alignment
58	36+710	37+120	410	TCS 3	Greenfield Alignment
59	37+120	37+470	350	TCS 7	Greenfield Alignment
60	37+470	37+600	130	TCS 6	Greenfield Alignment
61	37+600	37+650	50	TCS 4	Greenfield Alignment
Total Length =			**13090**		

Typical Cross Section Schedule

Sl. no.	Cross Section Type		Length (m)
1	TCS 1	4 Lane Divided Highway without Service Road (Embankment Height ≤ 3m with Turfing reatment	3710
2	TCS 2	4 Lane Divided Highway without Service Road (Embankment Height > 3m and ≤ 6m with Geo-green on Embankment slope)	1310
3	TCS 3	4 Lane Divided Highway without Service Road (Embankment Height > 6m with Stone pitching on Embankment slope)	410
5	TCS 4	4 Lane Divided Highway without Service Road in Cutting on both sides	1770
7	TCS 5	4 Lane Divided Highway without Service Road in Cutting with both side Breast Wall	410
8	TCS 6	4 Lane Divided Highway without Service Road with normal Cut and Fill	1560
10	TCS 7	4 Lane Divided Highway with Service Road on both sides	1960
11	TCS 8	4 Lane Divided Highway with Service Road on one side	90
12	TCS 9A	4/6 Lane Divided Highway at the approaches of Tunnel	60
	TCS 9B	4/6 Lane Divided Highway at the approaches of Tunnel	400
13	TCS 10A	Cross section of 6 Lane Twin Tube Tunnel without Invert	940
	TCS 10B	Cross section of 6 Lane Twin Tube Tunnel with Invert	
14	TCS 11	Cross Section of Bridge without Service Road at deck Level - 4-lane Divided Highway with Footpath	
15	TCS 12	Cross Section of Bridge with Service Road at deck Level - with Footpath 4-lane Divided Highway	
16	TCS 13	Cross Section of SVUP/LVUP/VUP at deck Level - 4-lane Divided Highway	
17	TCS 14	Box Culvert	
18	TCS 15	Box Culvert at Depressed Median	
19	TCS 16	Box Culvert with Service Road	
20	TCS 17	Pipe Culvert	
21	TP	Toll Plaza Approaches	470
Total Length =			**13090**

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DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Typlcal Cross Sections**

Size	*Scale*	*Drg. No*	*Rev:*
A2	NTS	**Transys-NH37-TCS-10**	**R2**

ALIGNMENT REPORT

Horizontal Alignment Report

Curve No.	HIP			Deflection Angle			Speed (Kmph)	Radius (m)	Transition Length (m)	Length of Curve (m)	Tangent Length	Direction of Curve	Superelevation	Start of Transition (Ch)	Start of Curve (Ch)	End of Curve (Ch)	End of Transition (Ch)
	Chainage	Easting	Northing	Deg	Min	Sec											
Start	4560.000	471435.036	2697625.124														4560.000
1	5590.528	471230.643	2697066.581	342	17	13.6	100	2000	0.000	1425.456	52346.148	Right	2.500%	4877.800	4877.800	6303.256	6303.256
2	7581.016	471218.130	2696766.363	20	29	49.7	100	-2000	0.000	679.744	53849.243	Left	2.500%	7241.144	7241.144	7920.888	7920.888
3	8929.102	471073.546	2696423.815	299	38	29.2	100	-5000	0.000	485.948	55069.078	Left	2.500%	8686.128	8686.128	9172.076	9172.076
4	9527.257	471364.726	2696043.995	69	56	12.1	100	3000	0.000	523.835	55727.754	Right	2.500%	9265.339	9265.339	9789.174	9789.174
5	11051.341	471140.920	2695692.175	329	30	10.6	100	3000	0.000	1002.184	56953.643	Right	2.500%	10550.249	10550.249	11552.433	11552.433
6	13760.253	471125.429	2695240.643	35	38	53.1	100	6000	0.000	666.130	58514.739	Right	2.500%	13427.188	13427.188	14093.318	14093.318
7	15220.016	470918.647	2694972.257	345	57	17.1	100	5000	0.000	853.210	59249.295	Right	2.500%	14793.411	14793.411	15646.621	15646.621
8	16907.870	470764.585	2694619.081	274	11	38.6	100	-5000	0.000	1168.207	59899.282	Left	2.500%	16323.766	16323.766	17491.973	17491.973
9	19241.749	471159.649	2694411.124	80	53	41.8	100	2500	0.000	898.292	60703.429	Right	2.500%	18792.603	18792.603	19690.895	19690.895
10	20543.300	471058.879	2694112.670	352	17	7.7	100	-1500	45.000	616.079	61248.796	Left	2.963%	20190.260	20235.260	20851.339	20896.339
11	22037.111	471026.043	2693942.829	9	20	41.2	100	4000	0.000	1127.478	61900.315	Right	2.500%	21473.372	21473.372	22600.850	22600.850
12	24197.953	470950.514	2693738.505	339	14	12.1	100	-6000	0.000	945.542	62840.958	Left	2.500%	23725.182	23725.182	24670.724	24670.724
13	28464.769	470952.451	2693505.509	10	25	6.6	100	-5000	0.000	520.392	64971.046	Left	2.500%	28204.573	28204.573	28724.965	28724.965
14	29311.350	470824.381	2692774.878	9	29	59.7	100	4000	0.000	413.363	66120.603	Right	2.500%	29104.668	29104.668	29518.031	29518.031
15	30011.135	470742.929	2692544.124	329	7	20.5	100	-3000	0.000	459.932	66700.041	Left	2.500%	29781.169	29781.169	30241.101	30241.101
16	31364.038	470804.992	2692237.308	36	26	50.3	100	3000	0.000	1132.454	67506.033	Right	2.500%	30797.811	30797.811	31930.265	31930.265
17	35775.242	470668.151	2691944.009	340	13	29.7	100	1000	70.000	933.474	69425.280	Right	4.444%	35238.505	35308.505	36241.979	36311.979
18	37105.453	470626.702	2691491.771	19	2	19.7	100	-1200	60.000	288.676	69295.663	Left	3.704%	36901.115	36961.115	37249.791	37309.791
19	37438.436	470465.238	2691133.760	11	58	54.9	100	300	75.000	92.093	69476.728	Right	5.000%	37317.389	37392.389	37484.482	37559.482
END	37650.000	468563.374	2666009.340											37650.000			

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DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Horizontal Alignment Report**

Size	*Scale*	*Drg. No*	*Rev:*
A2	NTS	Transys-NH37-AR-HOR-01	R2

Vertical Alignment Report

S.No.	Vertical Intersection Points			Element	Vertical Tangent Points				Grade (%)	K Value	Length of Element
	Chainage	Level	%Grade Diff.		Start Chainage	Level	End Chainage	Level			
1				Grade	4560.000	25.126	4742.744	29.695	2.500		182.744
2	5082.744	38.195	-5.00	Hog Curve	4742.744	29.695	5422.744	29.695		136.001	680
3				Grade	5422.744	29.695	5476.000	28.363	-2.500		53.256
4	5576.000	25.863	3.00	Sag Curve	5476.000	28.363	5676.000	26.364		66.667	200
5				Grade	5676.000	26.364	5769.000	26.829	0.500		93
6	5869.000	27.329	-1.70	Hog Curve	5769.000	26.829	5969.000	26.129		117.647	200
7				Grade	5969.000	26.129	6095.000	24.616	-1.200		126
8	6170.000	23.716	0.90	Sag Curve	6095.000	24.616	6245.000	23.491		166.667	150
9				Grade	6245.000	23.491	6375.000	23.101	-0.300		130
10	6450.000	22.876	1.30	Sag Curve	6375.000	23.101	6525.000	23.626		115.384	150
11				Grade	6525.000	23.626	6685.000	25.226	1.000		160
12	6820.000	26.576	-2.00	Hog Curve	6685.000	25.226	6955.000	25.227		135.000	270
13				Grade	6955.000	25.227	7164.000	23.137	-1.000		209
14	7239.000	22.386	0.70	Sag Curve	7164.000	23.137	7314.000	22.161		214.284	150
15				Grade	7314.000	22.161	7666.056	21.105	-0.300		352.056
16	7741.056	20.880	1.80	Sag Curve	7666.056	21.105	7816.056	22.005		83.333	150
17				Grade	7816.056	22.005	8000.000	24.764	1.500		183.944
18	8110.000	26.414	-1.90	Hog Curve	8000.000	24.764	8220.000	25.974		115.789	220
19				Grade	8220.000	25.974	8925.000	23.155	-0.400		705
20	9000.000	22.855	0.70	Sag Curve	8925.000	23.155	9075.000	23.080		214.284	150
21				Grade	9075.000	23.080	9267.500	23.657	0.300		192.5
22	9342.500	23.882	0.70	Sag Curve	9267.500	23.657	9417.500	24.632		214.284	150
23				Grade	9417.500	24.632	9475.000	25.207	1.000		57.5
24	9575.000	26.207	-1.50	Hog Curve	9475.000	25.207	9675.000	25.707		133.333	200
25				Grade	9675.000	25.707	9885.000	24.657	-0.500		210
26	9960.000	24.282	0.80	Sag Curve	9885.000	24.657	10035.000	24.507		187.501	150
27				Grade	10035.000	24.507	13455.000	34.767	0.300		3420
28	13605.000	35.217	-1.30	Hog Curve	13455.000	34.767	13755.000	33.717		230.771	300
29				Grade	13755.000	33.717	14265.000	28.617	-1.000		510
30	14365.000	27.617	1.38	Sag Curve	14265.000	28.617	14465.000	27.997		144.93	200
31				Grade	14465.000	27.997	15000.000	30.030	0.380		535
32	15075.000	30.315	-1.08	Hog Curve	15000.000	30.030	15150.000	29.790		138.889	150
33				Grade	15150.000	29.790	15515.000	27.235	-0.700		365
34	15590.000	26.710	1.00	Sag Curve	15515.000	27.235	15665.000	26.935		149.999	150
35				Grade	15665.000	26.935	15992.778	27.918	0.300		327.778
36	16067.778	28.143	0.90	Sag Curve	15992.778	27.918	16142.778	29.043		166.667	150
37				Grade	16142.778	29.043	16611.000	34.662	1.200		468.222
38	16796.000	36.882	-2.70	Hog Curve	16611.000	34.662	16981.000	34.107		137.04	370
39				Grade	16981.000	34.107	17432.118	27.340	-1.500		451.118
40	17532.118	25.840	1.70	Sag Curve	17432.118	27.340	17632.118	26.040		117.65	200
41				Grade	17632.118	26.040	19980.657	30.737	0.200		2348.54
42	20055.657	30.887	1.80	Sag Curve	19980.657	30.737	20130.657	32.387		83.333	150
43				Grade	20130.657	32.387	20533.000	40.434	2.000		402.343
44	20803.000	45.834	-4.00	Hog Curve	20533.000	40.434	21073.000	40.434		135.000	540
45				Grade	21073.000	40.434	21380.000	34.294	-2.000		307
46	21455.000	32.794	2.30	Sag Curve	21380.000	34.294	21530.000	33.019		65.218	150
47				Grade	21530.000	33.019	21990.000	34.399	0.300		460
48	22065.000	34.624	1.70	Sag Curve	21990.000	34.399	22140.000	36.124		88.236	150
49				Grade	22140.000	36.124	22182.182	36.968	2.000		42.182
50	22452.182	42.368	-4.00	Hog Curve	22182.182	36.968	22722.182	36.968		135.000	540
51				Grade	22722.182	36.968	22846.094	34.490	-2.000		123.912
52	22996.094	31.490	4.50	Sag Curve	22846.094	34.490	23146.094	35.240		66.667	300
53				Grade	23146.094	35.240	24494.756	68.956	2.500		1348.66
54	24819.756	77.081	-4.50	Hog Curve	24494.756	68.956	25144.756	70.581		144.444	650
55				Grade	25144.756	70.581	26090.000	51.676	-2.000		945.244
56	26150.000	50.476	1.50	Sag Curve	26090.000	51.676	26210.000	50.176		80.000	120
57				Grade	26210.000	50.176	26798.750	47.233	-0.500		588.75
58	26948.750	46.483	-2.00	Hog Curve	26798.750	47.233	27098.750	42.733		149.999	300
59				Grade	27098.750	42.733	27235.000	39.326	-2.500		136.25
60	27310.000	37.451	2.20	Sag Curve	27235.000	39.326	27385.000	37.226		68.182	150
61				Grade	27385.000	37.226	27730.000	36.191	-0.300		345
62	27805.000	35.966	0.60	Sag Curve	27730.000	36.191	27880.000	36.191		250.000	150
63				Grade	27880.000	36.191	28252.608	37.309	0.300		372.608
64	28352.608	37.609	-0.60	Hog Curve	28252.608	37.309	28452.608	37.309		333.333	200
65				Grade	28452.608	37.309	30028.248	32.582	-0.300		1575.64
66	30103.248	32.357	2.20	Sag Curve	30028.248	32.582	30178.248	33.782		68.182	150
67				Grade	30178.248	33.782	30249.000	35.126	1.900		70.752
68	30509.000	40.066	-3.80	Hog Curve	30249.000	35.126	30769.000	35.126		136.842	520
69				Grade	30769.000	35.126	30822.911	34.102	-1.900		53.911
70	30882.911	32.962	1.40	Sag Curve	30822.911	34.102	30942.911	32.662		85.714	120
71				Grade	30942.911	32.662	31000.013	32.377	-0.500		57.102
72	31060.012	32.077	2.00	Sag Curve	31000.013	32.377	31120.013	32.977		60.000	120
73				Grade	31120.013	32.977	31219.000	34.461	1.500		98.987
74	31409.000	37.311	-2.75	Hog Curve	31219.000	34.461	31599.000	34.936		138.183	380
75				Grade	31599.000	34.936	31705.000	33.611	-1.250		106
76	31780.000	32.674	1.55	Sag Curve	31705.000	33.611	31855.000	32.899		96.775	150
77				Grade	31855.000	32.899	32571.000	35.047	0.300		716
78	32671.000	35.347	-1.50	Hog Curve	32571.000	35.047	32771.000	34.147		133.333	200
79				Grade	32771.000	34.147	32945.000	32.059	-1.200		174
80	32995.000	31.459	1.50	Sag Curve	32945.000	32.059	33045.000	31.609		66.667	100
81				Grade	33045.000	31.609	33440.000	32.794	0.300		395
82	33490.000	32.944	1.20	Sag Curve	33440.000	32.794	33540.000	33.694		83.333	100
83				Grade	33540.000	33.694	33659.000	35.479	1.500		119
84	33844.000	38.254	-2.70	Hog Curve	33659.000	35.479	34029.000	36.034		137.037	370
85				Grade	34029.000	36.034	34100.000	35.182	-1.200		71
86	34150.000	34.582	0.80	Sag Curve	34100.000	35.182	34200.000	34.382		125.000	100
87				Grade	34200.000	34.382	34475.000	33.282	-0.400		275
88	34550.000	32.982	1.15	Sag Curve	34475.000	33.282	34625.000	33.544		130.434	150
89				Grade	34625.000	33.544	34775.000	34.669	0.750		150
90	34850.000	35.232	-1.50	Hog Curve	34775.000	34.669	34925.000	34.670		100.023	150
91				Grade	34925.000	34.670	35100.000	33.358	-0.750		175
92	35150.000	32.983	1.12	Sag Curve	35100.000	33.358	35200.000	33.168		89.314	100
93				Grade	35200.000	33.168	36592.282	38.319	0.370		1392.28
94	36642.282	38.504	1.03	Sag Curve	36592.282	38.319	36692.282	39.204		97.087	100
95				Grade	36692.282	39.204	37025.000	43.862	1.400		332.718
96	37125.000	45.262	-2.65	Hog Curve	37025.000	43.862	37225.000	44.013		75.472	200
97				Grade	37225.000	44.013	37310.000	42.950	-1.250		85
98	37360.000	42.325	-2.25	Hog Curve	37310.000	42.950	37410.000	40.575		44.444	100
99				Grade	37410.000	40.575	37460.000	38.825	-3.500		50
100	37535.000	36.200	3.00	Sag Curve	37460.000	38.825	37610.000	35.825		50.000	150
101				Grade	37610.000	35.825	37650.000	35.625	-0.500		40

Rev.	Date	Description
R0	15–06–2022	DRAFT DETAILED PROJECT REPORT
R0	21–07–2023	FINAL DETAILED PROJECT REPORT
R1	03–06–2024	FINAL DETAILED PROJECT REPORT
R2	20–11–2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

Authority:

National Highways & Infrastructure Development Corporation Ltd.
(Ministry of Road Transport & Highways)

Design Consultants:

Transys Consulting Pvt. Ltd.
001-004, Raheja chambers, No.12, Museum Road, Bengaluru-560001; Tel: 080-41461995; email: transys_blr@transysconsulting.co.in

Project:

Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)

Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Vertical Alignment Report**

Size	*Scale*	*Drg. No*	*Rev:*
A2	NTS	Transys-NH37-AR-VER-01	**R2**

DETAILS OF CULVERTS

Sl. No.	Existing Details (Km)				Design Chainage (Km)			Proposal	Remarks
	Existing Design Chainage (Km)	Type	Size	Deck Width (m)	Chainage (Km)	Type	Size		
1	-	-	-	-	24+720	Box	1 x 3 x 3	New Construction	Green Field
2	-	-	-	-	25+780	Box	1 x 3 x 3	New Construction	
3	-	-	-	-	26+875	Box	1 x 2 x 2	New Construction	
4	-	-	-	-	27+250	Box	1 x 3 x 3	New Construction	
5	-	-	-	-	27+470	Box	1 x 3 x 3	New Construction	
6	-	-	-	-	27+740	Box	1 x 3 x 3	New Construction	
7	-	-	-	-	28+095	Box	1 x 3 x 3	New Construction	
8	-	-	-	-	28+240	Box	1 x 4 x 4	New Construction	
9	-	-	-	-	28+670	Box	1 x 3 x 3	New Construction	
10	-	-	-	-	29+270	Box	1 x 3 x 3	New Construction	
11	-	-	-	-	29+360	Box	1 x 2 x 2	New Construction	
12	-	-	-	-	29+737	Box	1 x 4 x 4	New Construction	
13	-	-	-	-	29+850	Box	1 x 3 x 3	New Construction	
14	-	-	-	-	30+010	Box	1 x 3 x 3	New Construction	
15	-	-	-	-	31+040	Box	1 x 5 x 3	New Construction	
16	-	-	-	-	31+735	Box	1 x 3 x 3	New Construction	
17	-	-	-	-	31+960	Box	1 x 3 x 3	New Construction	
18	-	-	-	-	32+310	Box	1 x 2 x 2	New Construction	
19	-	-	-	-	32+710	Box	1 x 3 x 3	New Construction	
20	-	-	-	-	33+280	Box	1 x 3 x 3	New Construction	
21	-	-	-	-	33+690	Box	1 x 2 x 2	New Construction	
22	-	-	-	-	34+660	Box	1 x 5 x 3	New Construction	
23	-	-	-	-	35+220	Box	1 x 5 x 3	New Construction	
24	-	-	-	-	35+540	Box	1 x 3 x 3	New Construction	
25	-	-	-	-	35+830	Box	1 x 5 x 3	New Construction	
26	-	-	-	-	36+370	Box	1 x 2 x 2	New Construction	
27	-	-	-	-	36+920	Box	1 x 3 x 4	New Construction	
28	-	-	-	-	37+590	Box	1 x 2 x 2	New Construction	

DETAILS OF ROB

Sl. No.	Design Chainage (Km)	Existing Chainage (km)	Leading to	Name of Railway Line	Type of track	Span arrangement (m)	Total Width of Structure (m)
1	26+279	-	LHS - Kamranga Rly. Stn. RHS - Jirighat Rly. Stn.	Silchar-Jiribam BG Railway Line	Single Track BG	4x36+1x20	2x12.5

DETAILS OF GRADE SEPARATION STRUCTURES

Sl. No.	Type / Location of Structure	Design Chainage (Km)	Concept	Leading to	Category of Road	Span arrangement and Vertical clearance	Total Width of Structure (m)
1	SVUP	27+210	1- Lane ER	LHS - Makhan Nagar RHS - Uttar Lalpani Pt V	Village Road	Span = 1 x 7m Vertical Clearance = 4.0 m	2x11.5
2	SVUP	29+700	1- Lane ER	LHS - Makhan Nagar RHS - Lakhichera Road	Village Road	Span = 1 x 7m Vertical Clearance = 4.0 m	2x11.5
3	VUP	30+510	1- Lane ER	LHS - Kharjan Punji RHS - Digligaon	Village Road	Span = 1 x 24m Vertical Clearance = 5.5 m	2x11.5
4	LVUP	31+409	1-Lane BT	LHS - Santipur RHS - Digligaon	Village Road	Span = 1 x 12m Vertical Clearance = 4.0 m	2x11.5
5	SVUP	31+607	1- Lane ER	LHS - Banadurpur RHS - Lakhichera Road	Village Road	Span = 1 x 7m Vertical Clearance = 4.0 m	2x11.5
6	SVUP	32+671	1- Lane ER	LHS - Banadurpur Cha Bagicha RHS - Lakhichera Road	Village Road	Span = 1 x 7m Vertical Clearance = 4.0 m	2x11.5
7	LVUP	33+844	1-Lane BT	LHS - Santipur RHS - Lakhinagar Ext. FV	Village Road	Span = 1 x 12m Vertical Clearance = 4.0 m	2x11.5
8	SVUP	34+850	1- Lane ER	LHS - Lakhichera FV Pt I RHS - Alubaja	Village Road	Span = 1 x 7m Vertical Clearance = 4.0 m	2x11.5
9	SVUP	36+940	1- Lane ER	LHS - Narandhor Basa RHS - Narandhor Basa	Village Road	Span = 1 x 7m Vertical Clearance = 4.0 m	2x11.5
10	VUP	37+125	2-Lane BT	RHS - Silchar	NH-37 (Existing)	Span = 1 x 24m Vertical Clearance = 5.5 m	2x11.5

DETAILS OF MAJOR BRIDGE

Sl. No.	Ex. Des Ch. (Km)	Des.Ch (Km)	Span Arrangement Proposed		Type of Structure	Proposed Deck Width (m)	Remarks
			No. of Span	Span Length (m)			
1	-	31+511	2	30	Girder	2x12.5	Nallah (MCW)
2	-	36+770	3	36	Girder	2x12.5	Jiri River (MCW)

Rev.	Date	Description
R0	15-06-2022	DRAFT DETAILED PROJECT REPORT
R0	21-07-2023	FINAL DETAILED PROJECT REPORT
R1	03-06-2024	FINAL DETAILED PROJECT REPORT
R2	20-11-2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

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001-004, Raheja chambers, No.12, Museum Road, Bengaluru-560001; Tel: 080-41461995; email: transys_blr@transysconsulting.co.in

Project:
Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)
Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Details of Culverts, Grade Separation Structures, MJB & ROB**

Size	Scale	Drg. No	Rev:
A2	NTS	Transys-NH37-Gen-Rep-01	R2

DETAILS OF MINOR BRIDGE

Sl. No.	Ex. Des Ch. (Km)	Des.Ch. (Km)	Span Arrangement Proposed		Type of Structure Proposed	Total Deck Width (m)	Remarks
			No. of Span	Span Length (m)			
1	-	30+280	1	40	PSC "I" Girder	2x11.5 + 2x11.0	MCW + SR
2	-	30+710	1	12	Box	2x11.5 + 2x11.0	MCW + SR
3	-	33+947	1	40	PSC "I" Girder	2x11.5 + 2x11.0	MCW + SR
4	-	34+305	1	10	Box	2x17.0	MCW

BUS BAYS

Sl. No.	Design Chainage (Km)	Side	Name of Village	Remarks
1	30+410	LHS	Kharjan Punji	On Service Road
2	30+420	RHS	Kharjan Punji	On Service Road

SERVICE / SLIP ROADS

LHS					RHS			
Sl No	Des. Chainage (Km)		Length (m)	Width (m)	Des. Chainage (Km)		Length (m)	Width (m)
	From	To			From	To		
1	30+090	30+940	850	7.5	30+090	30+940	850	7.5
2	33+440	34+200	760	7.5	33+440	34+200	760	7.5
3	37+125	37+470	345	7.5	34+850	34+940	90	3.75
4					37+125	37+470	345	7.5
Total Length=			1955				2045	

NALA TO DIVERTED

LHS				RHS		
Sl No	Design Chainage (Km)		Length (m)	Design Chainage (Km)		Length (m)
	From	To		From	To	
1				33+947		60
2				34+305		60
3				34+660	34+790	130
Total Length=			0	Total Length=		250

DETAILS OF DRAIN

PCC Drain at Hill Side						
Sl No	LHS			RHS		
	Design Chainage (Km)		Length (m)	Design Chainage (Km)		Length (m)
	From	To		From	To	
1	24+860	24+910	50	24+780	24+910	130
2	25+680	25+715	35	25+820	26+180	360
3	25+835	26+145	310	26+390	27+020	630
4	26+390	27+020	630	27+080	27+140	60
5	27+105	27+175	70	27+260	27+340	80
6	27+750	27+795	45	27+765	28+010	245
7	27+860	27+935	75	28+245	28+650	405
8	27+965	27+995	30	28+700	28+860	160
9	28+015	28+080	65	28+905	29+115	210
10	28+110	28+175	65	29+435	29+540	105
11	28+360	28+405	45	30+030	30+160	130
12	28+510	28+580	70	31+840	31+935	95
13	28+685	28+825	140	32+015	32+200	185
14	28+855	29+110	255	32+380	32+490	110
15	29+150	29+250	100	34+930	35+090	160
16	29+430	29+535	105	37+140	37+650	510
17	30+330	30+515	185			
18	32+010	32+190	180			
19	32+205	32+270	65			
20	32+335	32+475	140			
21	32+505	32+550	45			
22	34+885	35+140	255			
23	36+460	36+710	250			
24	37+120	37+500	380			
25	37+600	37+650	50			
Total Length=			3640			3575

RCC Cover Drain at Tunnel						
Sl No	LHS			RHS		
	Design Chainage (Km)		Length (m)	Design Chainage (Km)		Length (m)
	From	To		From	To	
1	24+910	25+680	770	24+910	25+680	770
Total Length=			770			770

PCC Drain at Grade Separator						
Sl No	LHS			RHS		
	Design Chainage (Km)		Length (m)	Design Chainage (Km)		Length (m)
	From	To		From	To	
1	30+140	30+890	750	30+140	30+890	750
2	33+490	34+150	660	33+490	34+150	660
3	37+140	37+430	290	37+140	37+430	290
Total Length (m)			1700			1700

PCC Drain at Other Locations						
Sl No	LHS			RHS		
	Design Chainage (Km)		Length (m)	Design Chainage (Km)		Length (m)
	From	To		From	To	
1	27+090	27+105	15	27+020	27+080	60
2	27+330	27+480	150	27+340	27+430	90
3	27+795	27+850	55	27+570	27+765	195
4	27+935	27+965	30	28+860	28+905	45
5	27+995	28+015	20	29+420	29+435	15
6	29+110	29+150	40	32+200	32+230	30
7	32+190	32+205	15	37+140	37+430	290
8	32+475	32+505	30			
9	36+400	36+460	60			
10	37+130	37+430	300			
Total Length (m)			715			725

TRUCK LAY BYE

Sl. No.	Design Chainage (Km)	Side	Name of Village
1	36+100	LHS	Alubaja

TOLL PLAZA

Sl.No	Design Chainage (Km)	No of Lanes	Remarks
1	27+550	2 x 4	Uttar Lalpani PT V

TWIN TUBE TUNNEL

Sl. No.	Type	Chainage of West Portal	Chainage of East Portal	Length (m)	Location	Total Width of Structure (m)	
1	Twin Tube Tunnel	24+770	25+710	940	Kalam Naga Punji	2x11.38	Tunnel Finish width
						2x13.00	Tunnel Outer edge to Outer edge

Rev.	Date	Description
R0	15-06-2022	DRAFT DETAILED PROJECT REPORT
R0	21-07-2023	FINAL DETAILED PROJECT REPORT
R1	03-06-2024	FINAL DETAILED PROJECT REPORT
R2	20-11-2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

Authority:
National Highways & Infrastructure Development Corporation Ltd.
(Ministry of Road Transport & Highways)

Design Consultants:
Transys Consulting Pvt. Ltd.
001-004, Raheja chambers, No.12, Museum Road, Bengaluru-560001; Tel: 080-41461995; email: transys_blr@transysconsulting.co.in

Project:
Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)
Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: Details of MNB, Drain, Bus Bay, Service Road, Tunnel Truck Lay Bye, Toll Plaza & Nala to diverted

Size	Scale	Drg. No	Rev:
A2	NTS	Transys-NH37-Gen-Rep-02	R2

MINOR ROAD JUNCTION

Sl. No.	Design Chainage (Km)	Existing Chainage (Km)	Type of Junctions (T, Y, +)	Leading To	Type of Road (SH/ MDR/ ODR/ VR)	Type of Road (BT, CC, Gr.)	Remarks
1	27+210	-	+	LHS - Makhan Nagar RHS - Uttar Lalpani Pt V	Village Road	1- Lane ER	(Under SVUP)
2	29+700	-	+	LHS - Makhan Nagar RHS - Lakhichera Road	Village Road	1- Lane ER	(Under SVUP)
3	30+300	-	T	LHS-Kharjan Punji	Village Road	1 Lane ER	With Service Road LHS
4	30+570	-	Y	LHS-Kharjan Punji	Village Road	1 Lane ER	With Service Road LHS
5	31+409	-	+	LHS - Santipur RHS - Digligaon	Village Road	1-Lane BT	(Under LVUP)
6	31+607	-	+	LHS - Banadurpur RHS - Lakhichera Road	Village Road	1- Lane ER	(Under SVUP)
7	32+671	-	+	LHS - Banadurpur Cha Bagicha RHS - Lakhichera Road	Village Road	1- Lane ER	(Under SVUP)
8	34+140	-	Y	LHS- Lakhichera RHS- Lakhinagar	Village Road	1 Lane ER	With Service Road BHS
9	34+850	-	+	LHS - Lakhichera FV Pt I RHS - Alubaja	Village Road	1- Lane ER	(Under SVUP)
10	36+945	-	+	LHS - Narandhor Basa RHS - Narandhor Basa	Village Road	1- Lane ER	(Under SVUP)
11	37+260	-	T	LHS- Narandhor Basa	Village Road	1 Lane ER	With Service Road LHS

MAJOR ROAD JUNCTION

Sl. No.	Location		Type of Junction	Leading To	Type of Road (SH/ MDR/ ODR/ VR)	Types of C/W	Remarks
	Design Chainage (Km)	Ex. Chainage (Km)	(T, Y, +)				
1	27+868	-	+	LHS - Makhan Nagar RHS - Umed Nagar	Village Road	1-Lane BT	
2	30+510	-	T	LHS - Kharjan Punji RHS - Digligaon	Village Road	1-Lane BT	(Under VUP)
3	33+844	-	+	LHS - Santipur RHS - Lakhinagar Ext. FV	Village Road	1-Lane BT	(Under LVUP)
4	37+125	-	T	RHS - Silchar	NH-37 (Existing)	2-Lane BT	(Under VUP)
5	37+430	-	Entry/Exit Arrangement	LHS - Jiribam RHS - Silchar	NH-37 (Existing)	2-Lane BT	

BREAST WALL

LHS						RHS				
Sl No	Des. Chainage (Km)		Length (m)	Height (m)	Type	Des. Chainage (Km)		Length (m)	Height (m)	Type
	From	To				From	To			
1	26+450	26+860	410	6	Gabion	26+450	26+860	410	6	Gabion
Total Length=			410					410		

THRIE BEAM CRASH BARRIER

Sl No	LHS			RHS		
	Des. Chainage (Km)		Length (m)	Des. Chainage (Km)		Length (m)
	From	To		From	To	
1	24+600	24+860	260	25+680	25+810	130
2	25+720	25+830	110	26+190	26+400	210
3	26+160	26+400	240	27+140	27+260	120
4	27+030	27+100	70	29+530	30+040	510
5	27+170	27+330	160	30+160	30+860	700
6	28+180	28+360	180	30+970	31+850	880
7	28+410	28+510	100	31+930	32+010	80
8	28+580	28+690	110	32+290	32+380	90
9	29+530	29+890	360	32+480	33+000	520
10	29+940	31+850	1910	33+620	34+320	700
11	32+550	33+090	540	34+410	34+930	520
12	34+030	34+330	300	35+120	36+640	1520
13	34+540	34+890	350	36+690	37+470	780
14	35+140	36+400	1260			
15	36+710	37+300	590			
16	37+510	37+600	90			
Total Length=			6630			6760

Rev.	Date	Description
R0	15-06-2022	DRAFT DETAILED PROJECT REPORT
R0	21-07-2023	FINAL DETAILED PROJECT REPORT
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R2	20-11-2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

Authority:
National Highways & Infrastructure Development Corporation Ltd.
(Ministry of Road Transport & Highways)

Design Consultants:
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001-004, Raheja chambers, No.12, Museum Road, Bengaluru-560001; Tel: 080-41461995; email: transys_blr@transysconsulting.co.in

Project:
Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)
Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Details of Major & Minor Junction Breast Wall & Thrie Beam Crash Barrier**

Size	Scale	Drg. No	Rev:
A2	NTS	Transys-NH37-Gen-Rep-03	R2

PLAN AND PROFILE

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.

SP-C : SEMI PUCCA COMM.

P-R : PUCCA RESIDENTIAL

P-C : PUCCA COMMERCIAL

K-R : KUCCA RESIDENTIAL

HUT : HUT

: PEDDY FIELD

: BOUNDARY WALL

: FENCING

ROW — Right of Way

PROPOSED

TOE LINE

SH EDGE

C/W EDGE

MEDIAN

C/W EDGE

SH EDGE

TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

PROFILE :

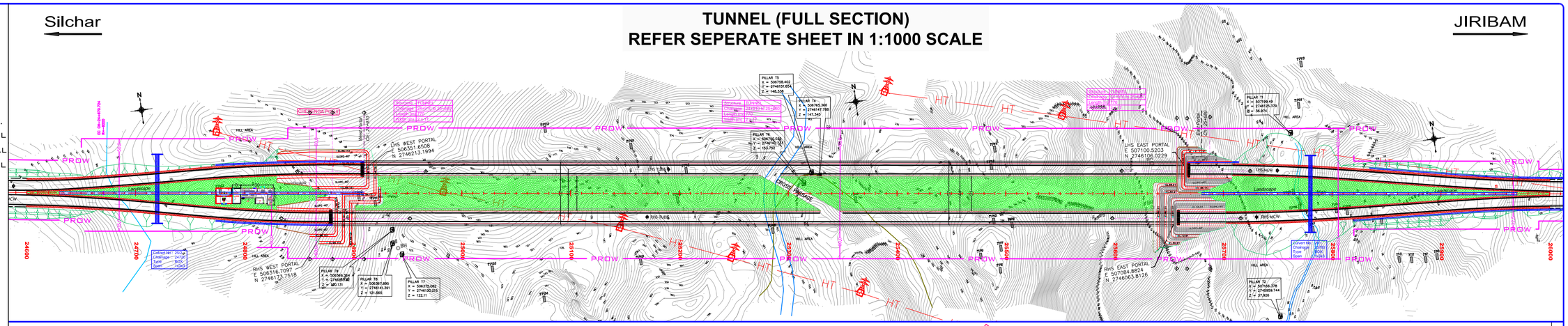
Ver. Tangent Point

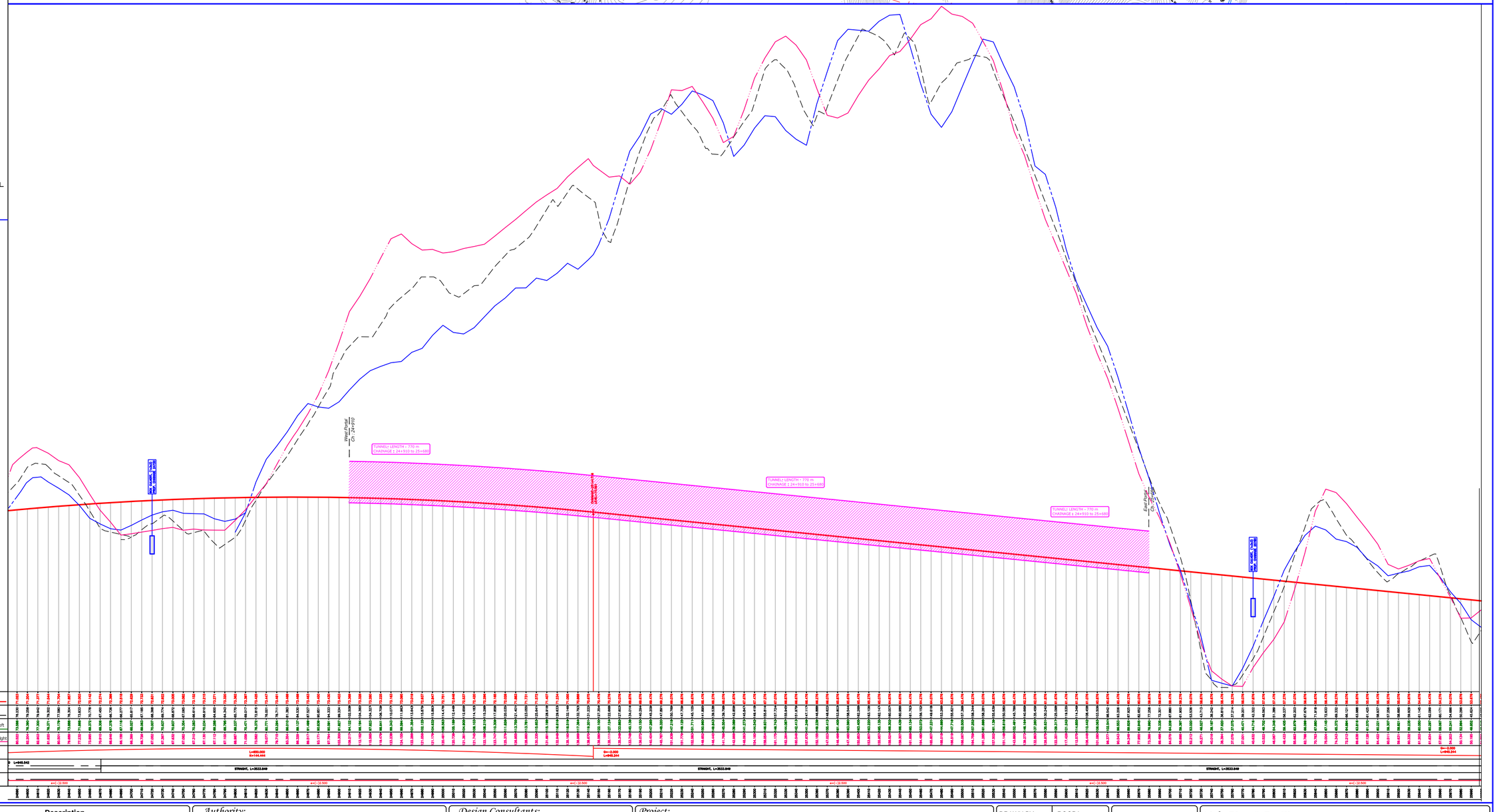
FRL of Service Road

Silchar

JIRIBAM

TUNNEL (FULL SECTION)
REFER SEPERATE SHEET IN 1:1000 SCALE





Rev.	Date	Description
R0	15-06-2022	DRAFT DETAILED PROJECT REPORT
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Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)

Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Plan & Profile**

Size	*Scale*	*Drg. No*	*Rev:*
A2	1:1000	**Transys-NH37-P&P- 01**	**R2**

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.
SP-C : SEMI PUCCA COMM.
P-R : PUCCA RESIDENTIAL
P-C : PUCCA COMMERCIAL
K-R : KUCCA RESIDENTIAL
HUT : HUT

: PEDDY FIELD
: BOUNDARY WALL
: FENCING

ROW — RIGHT OF WAY

PROPOSED

TOE LINE
SH EDGE
C/W EDGE
MEDIAN
C/W EDGE
SH EDGE
TOE LINE

HOR. TANGENT POINT

CULVERT

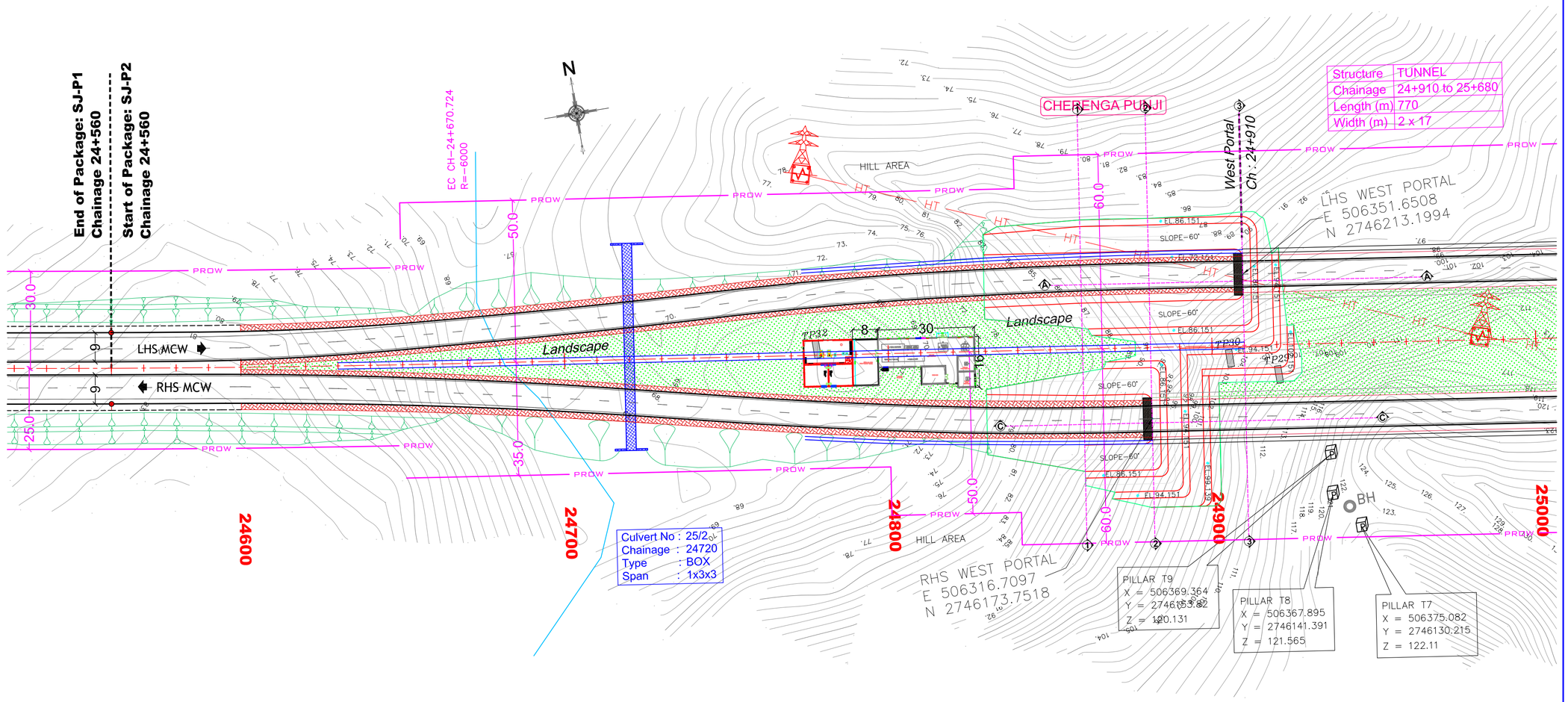
PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

Silchar

JIRIBAM



Rev.	Date	Description
R0	15-06-2022	DRAFT DETAILED PROJECT REPORT
R0	21-07-2023	FINAL DETAILED PROJECT REPORT
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Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

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DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Plan & Profile** *(From Ch. 24+500 to Ch. 24+560)*

Size	*Scale*	*Drg. No*	*Rev:*
A2	HOR-1:1000 VER-1:200	**Transys-NH37-P&P-01**	**R2**

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.

SP-C : SEMI PUCCA COMM.

P-R : PUCCA RESIDENTIAL

P-C : PUCCA COMMERCIAL

K-R : KUCCA RESIDENTIAL

HUT : HUT

: PEDDY FIELD

: BOUNDARY WALL

: FENCING

ROW — RIGHT OF WAY

PROPOSED

TOE LINE

SH EDGE

C/W EDGE

MEDIAN

C/W EDGE

SH EDGE

TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

PROFILE :

Ver. Tangent Point

FRL of Service Road

Datum : 60.000

Silchar

JIRIBAM

BOX CULVERT, (1x3x3) PROP. CHAINAGE 24720

West Portal Ch : 24+910

TUNNEL; LENGTH - 770 m
CHAINAGE : 24+910 to 25+680

Prop. Level at Median Edge		70.624 70.440 70.641 70.836 71.023 71.204 71.377 71.544 71.704 71.857 72.003 72.142 72.274 72.399 72.518 72.629 72.733 72.831 72.922 73.005 73.082 73.152 73.215 73.271 73.320 73.362 73.397 73.425 73.447 73.461 73.469 73.469 73.463 73.450 73.430 73.403 73.369 73.328 73.280 73.225 73.163 73.095 73.019 72.937 72.847 72.751
Ground Level at Prop. C/L		69.060 70.627 73.958 76.230 79.258 79.942 79.302 77.580 75.179 73.888 71.868 69.372 68.306 67.378 67.116 66.277 65.817 67.185 66.614 66.910 64.600 64.343 65.770 69.017 72.815 76.001 78.711 81.383 84.530 87.527 90.851 94.333 99.334 102.508 104.360 106.709 110.077 115.879 115.893 113.643 114.476
Ground Level at 20m from Prop. C/L	Left	67.525 68.818 70.864 73.586 76.390 77.300 76.371 75.179 73.888 71.868 69.372 68.306 67.378 67.116 66.277 65.817 68.027 69.063 69.774 70.637 70.937 70.354 70.283 70.234 69.288 68.795 69.237 70.471 72.372 76.077 80.771 83.294 86.010 89.137 91.499 90.839 90.591 91.827 94.122 96.194 97.823 98.641 99.343 99.594 102.125 104.632 101.354 102.056
	Right	69.902 71.625 76.593 80.522 82.204 82.903 81.920 80.501 79.689 77.232 73.995 70.910 68.646 66.158 66.399 66.726 67.052 67.397 67.632 67.082 67.310 67.130 67.112 67.100 68.987 71.059 73.582 76.077 79.715 83.354 86.329 89.517 93.171 97.794 103.300 109.217 112.162 115.565 119.479 123.238 124.155 122.286 121.179 120.491
Vertical Schematic		L=650.000 K=144.444
Horizontal Schematic		CURVE, R=-6000.0 L=945.542 ; STRAIGHT, L=3533.849
Superelevation Schematic		e=(-)2.500 ; e=(-)2.500
Chainage (m)		24550 24560 24570 24580 24590 24600 24610 24620 24630 24640 24650 24660 24670 24680 24690 24700 24710 24720 24730 24740 24750 24760 24770 24780 24790 24800 24810 24820 24830 24840 24850 24860 24870 24880 24890 24900 24910 24920 24930 24940 24950 24960 24970 24980 24990 25000

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Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)

Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Plan & Profile** *(From Ch. 24+500 to Ch. 25+000)*

Size	*Scale*	*Drg. No*	*Rev:*
A2	HOR-1:1000 VER-1:200	**Transys-NH37-P&P- 01a**	**R2**

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.

SP-C : SEMI PUCCA COMM.

P-R : PUCCA RESIDENTIAL

P-C : PUCCA COMMERCIAL

K-R : KUCCA RESIDENTIAL

HUT : HUT

: PEDDY FIELD

: BOUNDARY WALL

: FENCING

ROW — Right of Way

PROPOSED

TOE LINE
SH EDGE
C/W EDGE

MEDIAN

C/W EDGE
SH EDGE
TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

Silchar

JIRIBAM

Structure	TUNNEL
Chainage	24+910 to 25+680
Length (m)	770
Width (m)	2 x 17

PILLAR T5
X = 506758.402
Y = 2746151.654
Z = 148.338

PILLAR T4
X = 506765.366
Y = 2746147.788
Z = 147.345

PILLAR T6
X = 506750.035
Y = 2746142.733
Z = 153.752

N

HT

PROW

TP22 TP21 TP15 TP20 TP18 TP17 TP11 TP12 TP10 TP7 TP9 TP6 TP25 TP24 TP19 TP23

LHS TUBE

RHS TUBE

CROSS PASSAGE

HILL AREA

HILL AREA

60.0

57 44 31

25000 25100 25200 25300 25400 25500

Rev.	Date	Description
R0	15–06–2022	DRAFT DETAILED PROJECT REPORT
R0	21–07–2023	FINAL DETAILED PROJECT REPORT
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DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Plan & Profile** *(From Ch. 25+000 to Ch. 25+500)*

Size	*Scale*	*Drg. No*	*Rev:*
A2	HOR–1:1000 VER–1:200	**Transys-NH37-P&P-02**	**R2**

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.
SP-C : SEMI PUCCA COMM.
P-R : PUCCA RESIDENTIAL
P-C : PUCCA COMMERCIAL
K-R : KUCCA RESIDENTIAL
HUT : HUT
: PEDDY FIELD
: BOUNDARY WALL
: FENCING
ROW — RIGHT OF WAY

PROPOSED

TOE LINE
SH EDGE
C/W EDGE
MEDIAN
C/W EDGE
SH EDGE
TOE LINE
HOR. TANGENT POINT
CULVERT
PROP. DRAIN
FOOTPATH
R/WALL RETAINING WALL

PROFILE :

Ver. Tangent Point
FRL of Service Road

Silchar

JIRIBAM

TUNNEL; LENGTH - 770 m
CHAINAGE : 24+910 to 25+680

CHAINAGE=25144.776
LEVEL=70.581

Datum : 58.000

		25000	25010	25020	25030	25040	25050	25060	25070	25080	25090	25100	25110	25120	25130	25140	25150	25160	25170	25180	25190	25200	25210	25220	25230	25240	25250	25260	25270	25280	25290	25300	25310	25320	25330	25340	25350	25360	25370	25380	25390	25400	25410	25420	25430	25440	25450	25460	25470	25480	25490	25500
Prop. Level at Median Edge		72.751	72.648	72.537	72.420	72.296	72.165	72.028	71.883	71.731	71.572	71.407	71.234	71.055	70.869	70.675	70.476	70.276	70.076	69.876	69.676	69.476	69.276	69.076	68.876	68.676	68.476	68.276	68.076	67.876	67.676	67.476	67.276	67.076	66.876	66.676	66.476	66.276	66.076	65.876	65.676	65.476	65.276	65.076	64.876	64.676	64.476	64.276	64.076	63.876	63.676	63.476
Ground Level at Prop. C/L		114.476	112.448	112.656	114.183	115.298	117.858	120.035	121.401	123.055	125.641	128.916	129.633	132.146	132.793	131.222	127.354	122.668	127.603	134.014	140.294	145.209	147.891	150.769	147.709	145.105	141.895	139.538	139.798	142.858	145.847	149.418	155.814	157.724	155.945	151.979	147.117	146.888	148.622	153.803	158.544	162.268	163.106	163.220	162.147	160.007	160.986	161.763	156.152	149.618	153.266	157.398
Ground Level at 20m from Prop. C/L	Left	106.563	105.189	104.905	106.103	108.215	110.309	111.826	113.755	113.781	115.653	115.198	116.616	118.519	117.364	119.201	122.100	127.124	133.882	140.136	143.150	147.265	148.320	147.218	149.125	151.711	150.960	149.843	145.554	139.089	141.273	144.542	146.931	149.724	151.412	151.249	149.239	148.622	155.412	161.405	163.590	163.405	162.268	163.220	162.135	160.302	160.439	161.134	161.763	164.480	153.072	147.231	144.695	147.716	155.621	163.076	165.607	168.018	166.519	166.067
	Right	120.491	120.738	121.361	121.745	122.186	123.747	125.379	126.955	128.660	130.335	131.691	132.948	135.160	136.969	138.670	136.580	135.111	135.348	133.748	136.072	140.404	145.787	151.938	151.779	152.583	149.652	146.440	141.766	142.966	148.093	154.160	158.054	161.175	162.264	160.546	157.670	152.155	147.023	146.496	147.460	150.853	153.807	155.957	158.524	159.307	161.666	161.666	164.480	165.607	168.018	166.519	166.067	163.807	161.666	159.307	156.152	152.505	149.618	147.398
Vertical Schematic																	G=−2.000 L=945.244																																												
Horizontal Schematic																		

Silchar

JIRIBAM

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.

SP-C : SEMI PUCCA COMM.

P-R : PUCCA RESIDENTIAL

P-C : PUCCA COMMERCIAL

K-R : KUCCA RESIDENTIAL

HUT : HUT

: PEDDY FIELD

: BOUNDARY WALL

: FENCING

ROW — RIGHT OF WAY

PROPOSED

TOE LINE

SH EDGE

C/W EDGE

MEDIAN

C/W EDGE

SH EDGE

TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

Structure	TUNNEL
Chainage	24+910 to 25+680
Length (m)	770
Width (m)	2 x 17

East Portal
Ch 25+680

LHS EAST PORTAL
E 507100.5203
N 2746106.0229

RHS EAST PORTAL
E 507084.8824
N 2746063.8126

PILLAR T1
X = 507199.49
Y = 2746125.379
Z = 36.974

PILLAR T2
X = 507166.378
Y = 2745959.744
Z = 37.926

LHS MCW

RHS MCW

Landscape

HILL AREA

Culvert No : 26/1
Chainage : 25780
Type : BOX
Span : 1x3x3

PROW

HT

60.0

30.0

32.5

25500 25600 25700 25800 25900 26000

N

Rev.	Date	Description
R0	15–06–2022	DRAFT DETAILED PROJECT REPORT
R0	21–07–2023	FINAL DETAILED PROJECT REPORT
R1	03–06–2024	FINAL DETAILED PROJECT REPORT
R2	20–11–2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

Authority:

National Highways & Infrastructure Development Corporation Ltd.
(Ministry of Road Transport & Highways)

Design Consultants:

Transys Consulting Pvt. Ltd.
001-004, Raheja chambers, No.12, Museum Road, Bengaluru-560001; Tel: 080-41461995; email: transys_blr@transysconsulting.co.in

Project:

Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)

Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Plan & Profile** *(From Ch. 25+500 to Ch. 26+000)*

Size	*Scale*	*Drg. No*	*Rev:*
A2	HOR–1:1000 VER–1:200	**Transys-NH37-P&P-03**	**R2**

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.
SP-C : SEMI PUCCA COMM.
P-R : PUCCA RESIDENTIAL
P-C : PUCCA COMMERCIAL
K-R : KUCCA RESIDENTIAL
HUT : HUT

: PEDDY FIELD
: BOUNDARY WALL
: FENCING

ROW — Right of Way

PROPOSED

TOE LINE
SH EDGE
C/W EDGE
MEDIAN
C/W EDGE
SH EDGE
TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

PROFILE :

Ver. Tangent Point

FRL of Service Road

Silchar

JIRIBAM

TUNNEL; LENGTH - 770 m
CHAINAGE : 24+910 to 25+680

East Portal
Ch. 25+680

BOX CULVERT (1x3x3)
PROP. CHAINAGE 25780

Datum : 48.000

| | | |

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.

SP-C : SEMI PUCCA COMM.

P-R : PUCCA RESIDENTIAL

P-C : PUCCA COMMERCIAL

K-R : KUCCA RESIDENTIAL

HUT : HUT

: PEDDY FIELD

: BOUNDARY WALL

: FENCING

ROW — Right of Way

PROPOSED

TOE LINE
SH EDGE
C/W EDGE

MEDIAN

C/W EDGE
SH EDGE
TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

Silchar

JIRIBAM

N

Structure	ROB
Chainage	26+279.47
Span (m)	4x36 + 1x20
Width (m)	2 x 2.5

PILLAR TBM570
X = 507694.771
Y = 2745963.980
Z = 38.539

PILLAR TBM569
X = 507706.520
Y = 2745942.968
Z = 39.288

PILLAR TBM568
X = 507700.489
Y = 2745917.947
Z = 38.794

GPS = A16
X = 507359.069
Y = 2745489.104
Z = 69.459

GPS = A15
X = 507411.382
Y = 2745471.958
Z = 59.513

Rev.	Date	Description
R0	15–06–2022	DRAFT DETAILED PROJECT REPORT
R0	21–07–2023	FINAL DETAILED PROJECT REPORT
R1	03–06–2024	FINAL DETAILED PROJECT REPORT
R2	20–11–2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

Authority:

National Highways & Infrastructure Development Corporation Ltd.
(Ministry of Road Transport & Highways)

Design Consultants:

Transys Consulting Pvt. Ltd.
001-004, Raheja chambers, No.12, Museum Road, Bengaluru-560001; Tel: 080-41461995; email: transys_blr@transysconsulting.co.in

Project:

Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)

Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Plan & Profile** *(From Ch. 26+000 to Ch. 26+500)*

Size	*Scale*	*Drg. No*	*Rev:*
A2	HOR–1:1000 VER–1:200	**Transys-NH37-P&P-04**	**R2**

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.
SP-C : SEMI PUCCA COMM.
P-R : PUCCA RESIDENTIAL
P-C : PUCCA COMMERCIAL
K-R : KUCCA RESIDENTIAL
HUT : HUT
: PEDDY FIELD
: BOUNDARY WALL
: FENCING
ROW — RIGHT OF WAY

PROPOSED

TOE LINE
SH EDGE
C/W EDGE
MEDIAN
C/W EDGE
SH EDGE
TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

PROFILE :

Ver. Tangent Point

FRL of Service Road

Silchar

JIRIBAM

CHAINAGE=26090
LEVEL=51.676

CHAINAGE=26210
LEVEL=50.176

ROB, SPAN (M) : 4x36+1x20
CHAINAGE : 26+279.474

RAIL TOP
LEVEL-38.900

Datum : 30.000

| | | |

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.

SP-C : SEMI PUCCA COMM.

P-R : PUCCA RESIDENTIAL

P-C : PUCCA COMMERCIAL

K-R : KUCCA RESIDENTIAL

HUT : HUT

: PEDDY FIELD

: BOUNDARY WALL

: FENCING

ROW — Right of Way

PROPOSED

TOE LINE
SH EDGE
C/W EDGE

MEDIAN

C/W EDGE
SH EDGE
TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

Silchar

JIRIBAM

N

PROW

HILL AREA

B / WALL

LHS MCW

RHS MCW

60.0

57.5

27.5

Culvert No : 27/1
Chainage : 26875
Type : BOX
Span : 1x2x2

DRAIN

PILLAR = 190
X = 508283.831
Y = 2745885.787
Z = 37.150

PILLAR TBM571
X = 508294.756
Y = 2745886.197
Z = 31.837

PILLAR TBM572
X = 508278.818
Y = 2745866.963
Z = 31.626

PILLAR TBM573
X = 508280.346
Y = 2745837.086
Z = 31.184

26500 26600 26700 26800 26900 27000

Rev.	Date	Description
R0	15–06–2022	DRAFT DETAILED PROJECT REPORT
R0	21–07–2023	FINAL DETAILED PROJECT REPORT
R1	03–06–2024	FINAL DETAILED PROJECT REPORT
R2	20–11–2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

Authority:

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(Ministry of Road Transport & Highways)

Design Consultants:

Transys Consulting Pvt. Ltd.
001-004, Raheja chambers, No.12, Museum Road, Bengaluru-560001; Tel: 080-41461995; email: transys_blr@transysconsulting.co.in

Project:

Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)

Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Plan & Profile** *(From Ch. 26+500 to Ch. 27+000)*

Size	*Scale*	*Drg. No*	*Rev:*
A2	HOR–1:1000 VER–1:200	**Transys-NH37-P&P- 05**	**R2**

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.

SP-C : SEMI PUCCA COMM.

P-R : PUCCA RESIDENTIAL

P-C : PUCCA COMMERCIAL

K-R : KUCCA RESIDENTIAL

HUT : HUT

: PEDDY FIELD

: BOUNDARY WALL

: FENCING

ROW — Right of Way

PROPOSED

TOE LINE
SH EDGE

C/W EDGE

MEDIAN

C/W EDGE

SH EDGE
TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

PROFILE :

Ver. Tangent Point

FRL of Service Road

Silchar

JIRIBAM

CHAINAGE=26798.75
LEVEL=47.233

BOX CULVERT, (1x2x2)
PROP. CHAINAGE 26875

Datum : 44.000

| | | |

TOLL PLAZA (FULL SECTION)
REFER SEPERATE SHEET IN 1:1000 SCALE

Silchar → JIRIBAM

N

TOLL PLAZA
CH 27+550

Culvert No : 28/2
Chainage : 27470
Type : BOX
Span : 1x3x3

Culvert No : 28/3
Chainage : 27740
Type : BOX
Span : 1x3x3

PILLAR = T91
X = 508690.528
Y = 2745900.051
Z = 33.489

PILLAR = T92
X = 508895.689
Y = 2745751.297
Z = 40.532

MAKHAN NAGAR

HILL AREA

PROW

ADMIN BUILDING

PARKING

FOB

TOLL BUILDING

Weighbridge
1.5mx1.5m Office Room

Unloading platform

Taper 1:10

REMOVABLE BARRIER

HUT

2.0% SLOPE

LONGIDUTINAL DRAIN

WIM PLATFORM

2-WHEELER LANE
4.5M EXTRA WIDE LANE
3.2M ETC LANE
LANE-1 (REVERSIBLE)
LANE-2
LANE-3
LANE-4

27300 | 27400 | 27500 | 27600 | 27700

LEGEND :

PLAN :

EXISTING
EXIST. ROAD
SP-R : SEMI PUCCA RESI.
SP-C : SEMI PUCCA COMM.
P-R : PUCCA RESIDENTIAL
P-C : PUCCA COMMERCIAL
K-R : KUCCA RESIDENTIAL
HUT : HUT
: PEDDY FIELD
: BOUNDARY WALL
: FENCING
ROW — Right of Way

PROPOSED
TOE LINE
SH EDGE
C/W EDGE
MEDIAN
C/W EDGE
SH EDGE
TOE LINE
HOR. TANGENT POINT
CULVERT
PROP. DRAIN
FOOTPATH
R/WALL RETAINING WALL

PROFILE :

Ver. Tangent Point
FRL of Service Road

CHAINAGE=27385
LEVEL=37.226

BOX CULVERT, (1x3x3)
PROP. CHAINAGE 27470

CHAINAGE=27730
LEVEL=36.191

BOX CULVERT, (1x3x3)
PROP. CHAINAGE 27740

Datum :

		27280	27290	27300	27310	27320	27330	27340	27350	27360	27370	27380	27390	27400	27410	27420	27430	27440	27450	27460	27470	27480	27490	27500	27510	27520	27530	27540	27550	27560	27570	27580	27590	27600	27610	27620	27630	27640	27650	27660	27670	27680	27690	27700	27710	27720	27730	27740	27750	27760	27770	27780
Prop. Level at Median Edge		38.350	38.173	38.011	37.864	37.731	37.613	37.510	37.421	37.347	37.288	37.243	37.211	37.181	37.151	37.121	37.091	37.061	37.031	37.001	36.971	36.941	36.911	36.881	36.851	36.821	36.791	36.761	36.731	36.701	36.671	36.641	36.611	36.581	36.551	36.521	36.491	36.461	36.431	36.401	36.371	36.341	36.311	36.281	36.251	36.221	36.191	36.163	36.139	36.119	36.103	36.091
Ground Level at Prop. C/L		37.296	41.841	43.084	38.893	34.142	35.033	33.222	32.811	32.900	35.301	39.979	42.347	42.324	39.066	35.972	36.004	37.206	37.574	34.658	31.824	31.731	33.808	34.074	35.312	35.465	35.970	36.154	36.587	38.035	41.779	45.564	46.545	41.143	35.973	31.720	31.583	31.514	31.826	33.131	33.251	31.436	31.276	31.532	32.039	31.689	31.507	31.380	31.269	31.706	32.056	31.724
Ground Level at 20m from Prop. C/L	Left	32.356	32.589	34.005	34.125	33.110	35.417	42.372	43.343	41.167	43.357	44.720	44.939	41.554	36.966	39.299	41.121	38.595	34.593	32.719	32.095	31.551	31.746	33.439	32.952	42.363	44.586	45.009	44.666	44.401	42.457	38.557	33.749	32.149	32.500	31.783	31.613	31.648	32.946	31.355	31.249	32.882	34.522	36.707	34.266	31.183	31.350	31.721	39.054	45.827	44.241	40.154
	Right	42.893	44.684	45.894	47.205	46.203	43.523	40.719	38.619	36.671	35.773	37.392	40.835	38.136	32.071	31.828	31.726	32.513	31.584	31.444	31.540	31.615	31.789	31.936	32.567	33.475	33.825	33.244	32.468	31.705	37.647	44.382	44.696	39.669	34.530	32.372	31.814	31.834	37.029	41.513	43.841	38.720	33.615	34.016	38.593	40.774	37.843	32.142	31.486	31.359	31.447	38.571
Vertical Schematic																																																					
Horizontal Schematic																																																					
Superelevation Schematic																																																				

Vertical Schematic: L=150.000, K=68.182 | G=−0.300, L=345.000 | G=−0.300, L=345.000

Horizontal Schematic: STRAIGHT, L=3533.849 | STRAIGHT, L=3533.849

Superelevation Schematic: e=(−)2.500 | e=(−)2.500

Rev.	Date	Description
R0	15−06−2022	DRAFT DETAILED PROJECT REPORT
R0	21−07−2023	FINAL DETAILED PROJECT REPORT
R1	03−06−2024	FINAL DETAILED PROJECT REPORT
R2	20−11−2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

Authority:
National Highways & Infrastructure Development Corporation Ltd.
(Ministry of Road Transport & Highways)

Design Consultants:
Transys Consulting Pvt. Ltd.
001-004, Raheja chambers, No.12, Museum Road, Bengaluru-560001; Tel: 080-41461995; email: transys_blr@transysconsulting.co.in

Project:
Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)
Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Plan & Profile** *(Toll Plaza Ch. 27+550)*

Size	Scale	Drg. No	Rev:
A2	HOR−1:1000 VER−1:200	Transys-NH37-P&P- 06	R2

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.

SP-C : SEMI PUCCA COMM.

P-R : PUCCA RESIDENTIAL

P-C : PUCCA COMMERCIAL

K-R : KUCCA RESIDENTIAL

HUT : HUT

: PEDDY FIELD

: BOUNDARY WALL

: FENCING

ROW — Right of Way

PROPOSED

TOE LINE
SH EDGE
C/W EDGE
MEDIAN
C/W EDGE
SH EDGE
TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

Silchar

JIRIBAM

N

Structure	SVUP
Chainage	27+210
Span (m)	1x7x4
Width (m)	2 x 11.5

PILLAR = T91
X = 508690.528
Y = 2745900.051
Z = 33.489

Culvert No : 28/2
Chainage : 27470
Type : BOX
Span : 1x3x3

Culvert No : 28/1
Chainage : 27250
Type : BOX
Span : 1x3x3

PILLAR = T92
X = 508895.689
Y = 2745751.297
Z = 40.532

MAKHAN NAGAR

Village

Umed Nagar

HILL AREA

PROW

LHS MCW

RHS MCW

REMOVABLE BARRIER

Taper 1:10

Unloading platform

1.5mx1.5m Office Room
Weighbridge

27000 27100 27200 27300 27400 27500

Rev.	Date	Description
R0	15–06–2022	DRAFT DETAILED PROJECT REPORT
R0	21–07–2023	FINAL DETAILED PROJECT REPORT
R1	03–06–2024	FINAL DETAILED PROJECT REPORT
R2	20–11–2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

Authority:

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Design Consultants:

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Project:

Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)

Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Plan & Profile** *(From Ch. 27+000 to Ch. 27+500)*

Size	*Scale*	*Drg. No*	*Rev:*
A2	HOR–1:1000 VER–1:200	**Transys-NH37-P&P-06**	**R2**

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.
SP-C : SEMI PUCCA COMM.
P-R : PUCCA RESIDENTIAL
P-C : PUCCA COMMERCIAL
K-R : KUCCA RESIDENTIAL
HUT : HUT

: PEDDY FIELD
: BOUNDARY WALL
: FENCING

ROW — Right of Way

PROPOSED

TOE LINE
SH EDGE
C/W EDGE
MEDIAN
C/W EDGE
SH EDGE
TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

PROFILE :

Ver. Tangent Point

FRL of Service Road

Silchar

JIRIBAM

CHAINAGE=27088.75
LEVEL=42.733

SVUP, (1x7x4m)
CHAINAGE : 27210

CHAINAGE=27235
LEVEL=39.326

BOX CULVERT, (1x3x3)
PROP. CHAINAGE 27250

CHAINAGE=27385
LEVEL=37.226

BOX CULVERT, (1x3x3)
PROP. CHAINAGE 27470

Datum : 26.000

| | | |

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.

SP-C : SEMI PUCCA COMM.

P-R : PUCCA RESIDENTIAL

P-C : PUCCA COMMERCIAL

K-R : KUCCA RESIDENTIAL

HUT : HUT

: PEDDY FIELD

: BOUNDARY WALL

: FENCING

ROW — Right of Way

PROPOSED

TOE LINE

SH EDGE

C/W EDGE

MEDIAN

C/W EDGE

SH EDGE

TOE LINE

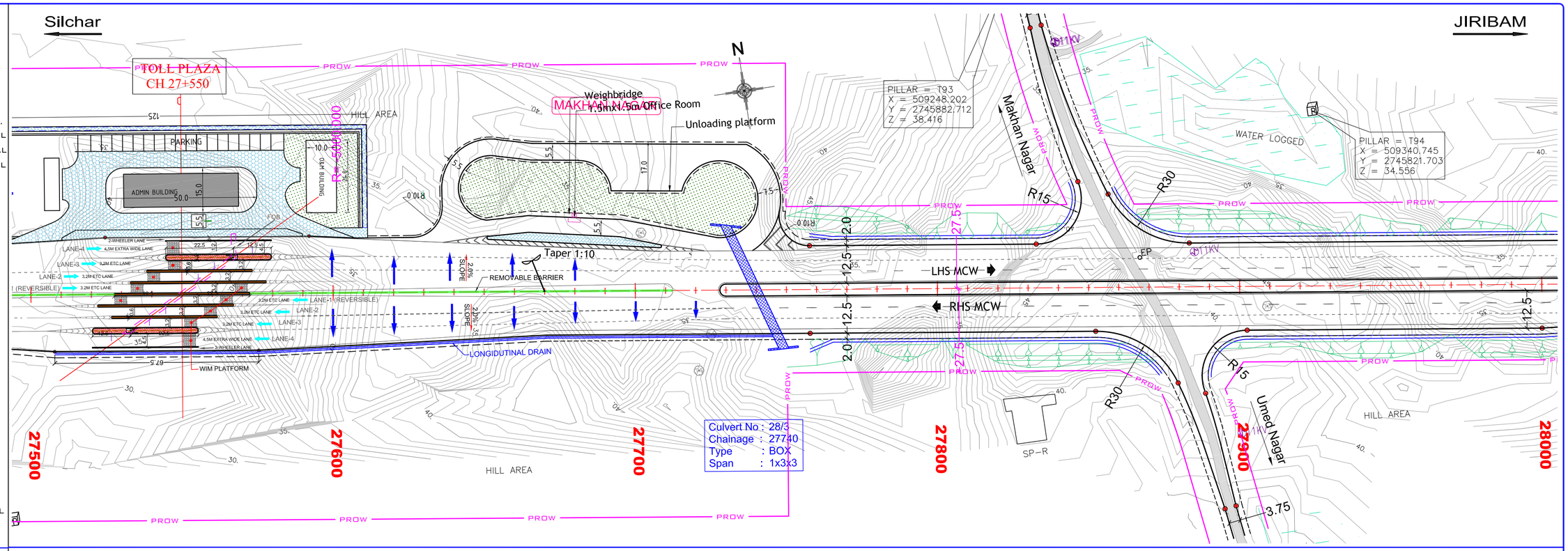
HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

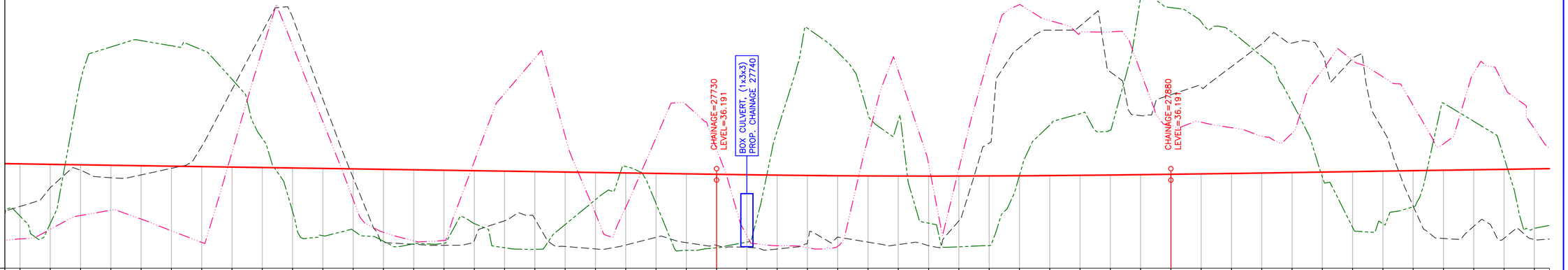
R/WALL RETAINING WALL



PROFILE :

Ver. Tangent Point

FRL of Service Road



Datum : 30.000

Chainage (m)	27500	27510	27520	27530	27540	27550	27560	27570	27580	27590	27600	27610	27620	27630	27640	27650	27660	27670	27680	27690	27700	27710	27720	27730	27740	27750	27760	27770	27780	27790	27800	27810	27820	27830	27840	27850	27860	27870	27880	27890	27900	27910	27920	27930	27940	27950	27960	27970	27980	27990	28000
Prop. Level at Median Edge	36.881	36.851	36.821	36.791	36.761	36.731	36.701	36.671	36.641	36.611	36.581	36.551	36.521	36.491	36.461	36.431	36.401	36.371	36.341	36.311	36.281	36.251	36.221	36.191	36.163	36.139	36.119	36.103	36.091	36.083	36.079	36.079	36.083	36.091	36.103	36.119	36.139	36.163	36.191	36.221	36.251	36.281	36.311	36.341	36.371	36.401	36.431	36.461	36.491	36.521	36.551
Ground Level at Prop. C/L	34.074	35.312	36.465	35.970	36.154	36.587	38.035	41.779	45.564	46.545	41.143	35.973	31.720	31.583	31.514	31.826	33.131	33.251	31.436	31.276	31.532	32.039	31.689	31.507	31.380	31.269	31.706	32.056	31.724	31.562	31.488	33.120	38.250	44.539	45.693	45.966	42.944	40.061	41.439	41.940	43.290	44.780	43.977	44.849	44.097	43.834	32.694	32.935	39.128	31.974	31.896
Ground Level at 20m from Prop. C/L — Left	33.439	32.952	42.363	44.586	45.009	44.666	44.401	42.457	38.557	33.749	32.149	32.500	31.783	31.613	31.648	32.946	31.355	31.249	32.882	34.522	36.707	34.266	31.183	31.350	31.721	39.054	45.827	44.241	40.154	39.746	32.975	31.413	31.497	36.117	39.429	40.184	39.093	47.753	47.182	46.238	45.588	43.977	40.926	36.019	32.694	42.617	39.685	42.872	42.052	40.884	39.206
Ground Level at 20m from Prop. C/L — Right	31.936	32.567	33.475	33.825	33.244	32.468	31.705	37.647	44.382	44.696	39.669	34.530	32.372	31.814	31.834	37.029	41.513	43.841	38.720	33.615	34.016	38.593	40.774	37.843	32.142	31.486	31.359	31.447	38.571	43.014	36.866	36.552	44.027	47.377	46.328	45.531	45.579	42.948	39.407	39.624	39.266	38.710	38.900	43.058	43.713	42.617	42.872	42.052	38.196	42.872	39.206
Vertical Schematic																								G=−0.300 L=345.000																	G=0.300 L=372.608															
Horizontal Schematic	STRAIGHT, L=3533.849																																																			
Superelevation Schematic	e=(−)2.500																																								e=(−)2.500														

Rev.	Date	Description
R0	15−06−2022	DRAFT DETAILED PROJECT REPORT
R0	21−07−2023	FINAL DETAILED PROJECT REPORT
R1	03−06−2024	FINAL DETAILED PROJECT REPORT
R2	20−11−2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

Authority:

National Highways & Infrastructure Development Corporation Ltd.
(Ministry of Road Transport & Highways)

Design Consultants:

Transys Consulting Pvt. Ltd.
001-004, Raheja chambers, No.12, Museum Road, Bengaluru-560001; Tel: 080-41461995; email: transys_blr@transysconsulting.co.in

Project:

Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)

Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Plan & Profile** *(From Ch. 27+500 to Ch. 28+000)*

Size	*Scale*	*Drg. No*	*Rev:*
A2	HOR−1:1000 VER−1:200	Transys-NH37-P&P-07	R2

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.

SP-C : SEMI PUCCA COMM.

P-R : PUCCA RESIDENTIAL

P-C : PUCCA COMMERCIAL

K-R : KUCCA RESIDENTIAL

HUT : HUT

: PEDDY FIELD

: BOUNDARY WALL

: FENCING

ROW — Right of Way

PROPOSED

TOE LINE
SH EDGE
C/W EDGE

MEDIAN

C/W EDGE
SH EDGE
TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

Silchar

JIRIBAM

N

HORIZONTAL CURVE DETAILS	
HIP CHAINAGE	28+465.004
CURVE NUMBER	13
RADIUS (m)	5000.000
CURVE LENGTH (m)	520.392
TRANSITION LEN (m)	0.000
TANGENT LENGTH(m)	260.4
DEFLECTION ANGLE	5° 57' 47.7"
DES SPEED (KM/H)	100.0
SUPERELEVATION(%)	NORMAL

PILLAR = T95
X = 509539.327
Y = 2745790.271
Z = 34.029

BC CH=28+204.573
R=5000

MAKHAN NAGAR

Makhan Nagar

Pond

LHS MCW

RHS MCW

Culvert No : 29/1
Chainage : 28095
Type : BOX
Span : 1x3x3

Culvert No : 29/2
Chainage : 28240
Type : BOX
Span : 1x4x4

PILLAR = T96
X = 509716.445
Y = 2745697.375
Z = 47.849

GPS = A17
X = 509836.392
Y = 2745628.879
Z = 46.541

GPS = A18
X = 509853.053
Y = 2745556.789
Z = 44.365

Umed Nagar

28000 28100 28200 28300 28400 28500

Rev.	Date	Description
R0	15–06–2022	DRAFT DETAILED PROJECT REPORT
R0	21–07–2023	FINAL DETAILED PROJECT REPORT
R1	03–06–2024	FINAL DETAILED PROJECT REPORT
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001-004, Raheja chambers, No.12, Museum Road, Bengaluru-560001; Tel: 080-41461995; email: transys_blr@transysconsulting.co.in

Project:

Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)

Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Plan & Profile** *(From Ch. 28+000 to Ch. 28+500)*

Size	*Scale*	*Drg. No*	*Rev:*
A2	HOR–1:1000 VER–1:200	**Transys-NH37-P&P-08**	**R2**

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.
SP-C : SEMI PUCCA COMM.
P-R : PUCCA RESIDENTIAL
P-C : PUCCA COMMERCIAL
K-R : KUCCA RESIDENTIAL
HUT : HUT
: PEDDY FIELD
: BOUNDARY WALL
: FENCING
ROW — Right of Way

PROPOSED

TOE LINE
SH EDGE
C/W EDGE
MEDIAN
C/W EDGE
SH EDGE
TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

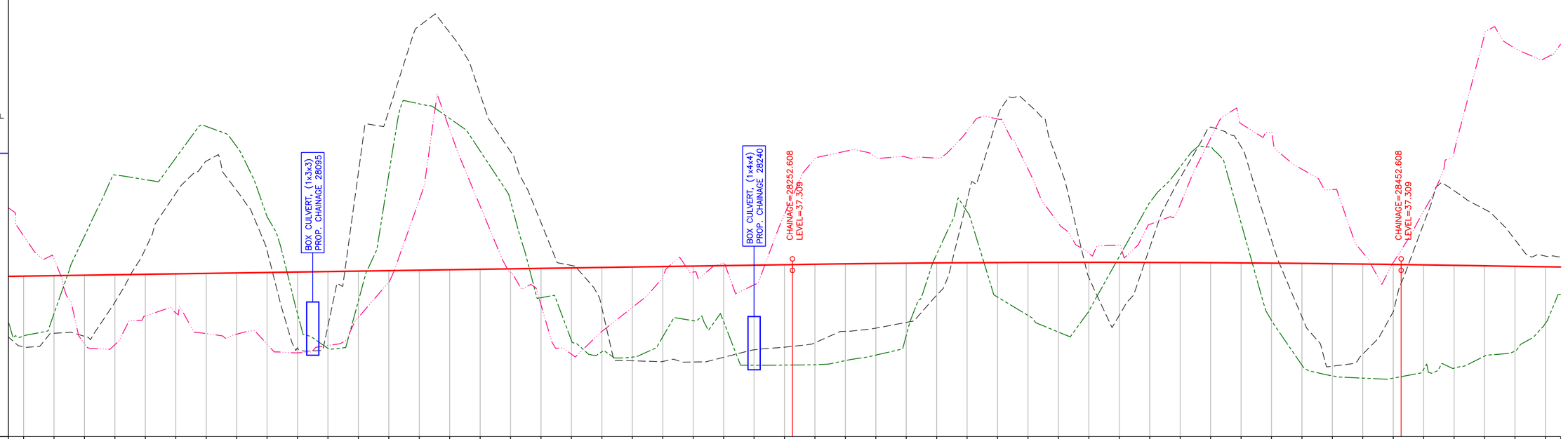
PROFILE :

Ver. Tangent Point

FRL of Service Road

Silchar

JIRIBAM



Datum : 26.000

| | | |

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.

SP-C : SEMI PUCCA COMM.

P-R : PUCCA RESIDENTIAL

P-C : PUCCA COMMERCIAL

K-R : KUCCA RESIDENTIAL

HUT : HUT

: PEDDY FIELD

: BOUNDARY WALL

: FENCING

ROW — Right of Way

PROPOSED

TOE LINE

SH EDGE

C/W EDGE

MEDIAN

C/W EDGE

SH EDGE

TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

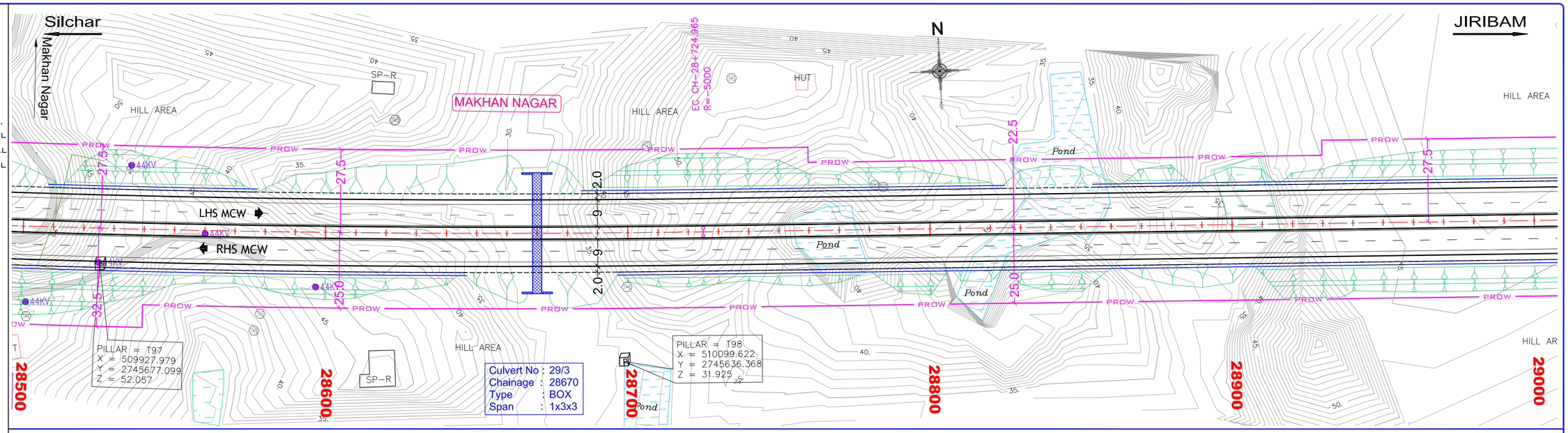
FOOTPATH

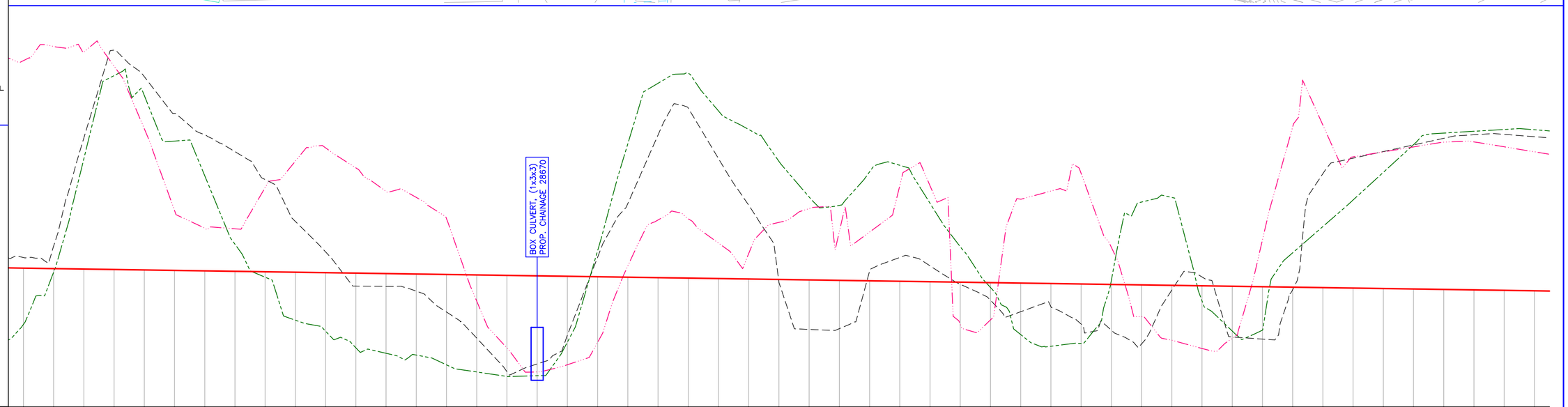
R/WALL RETAINING WALL

PROFILE :

Ver. Tangent Point

FRL of Service Road





Datum : 28.000

| | | |

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.

SP-C : SEMI PUCCA COMM.

P-R : PUCCA RESIDENTIAL

P-C : PUCCA COMMERCIAL

K-R : KUCCA RESIDENTIAL

HUT : HUT

: PEDDY FIELD

: BOUNDARY WALL

: FENCING

ROW — Right of Way

PROPOSED

TOE LINE

SH EDGE

C/W EDGE

MEDIAN

C/W EDGE

SH EDGE

TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

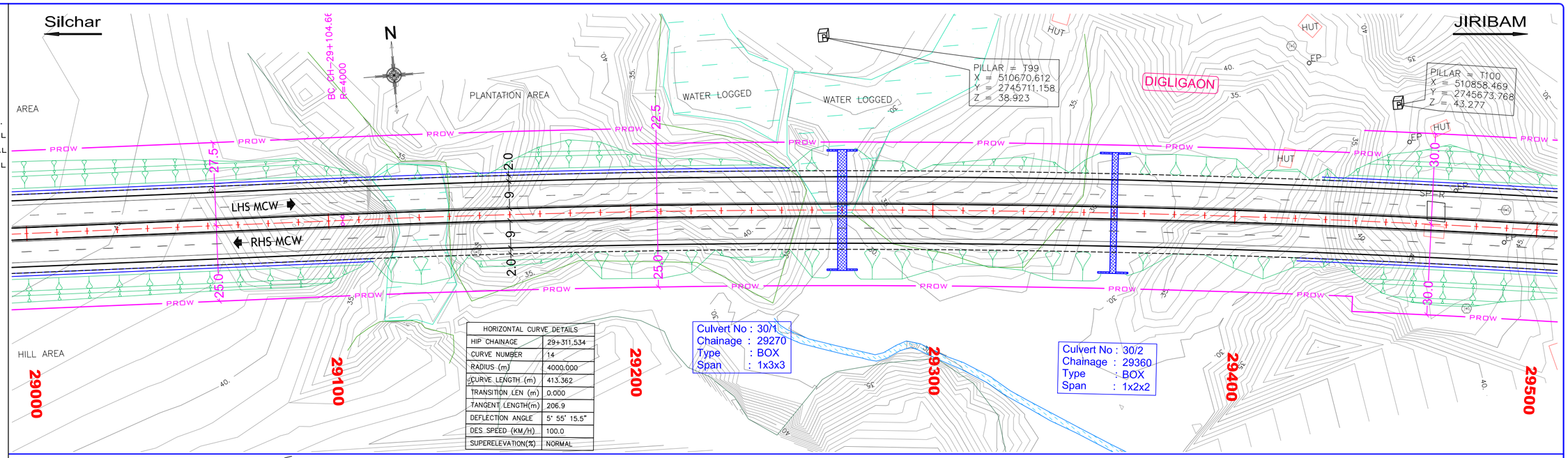
FOOTPATH

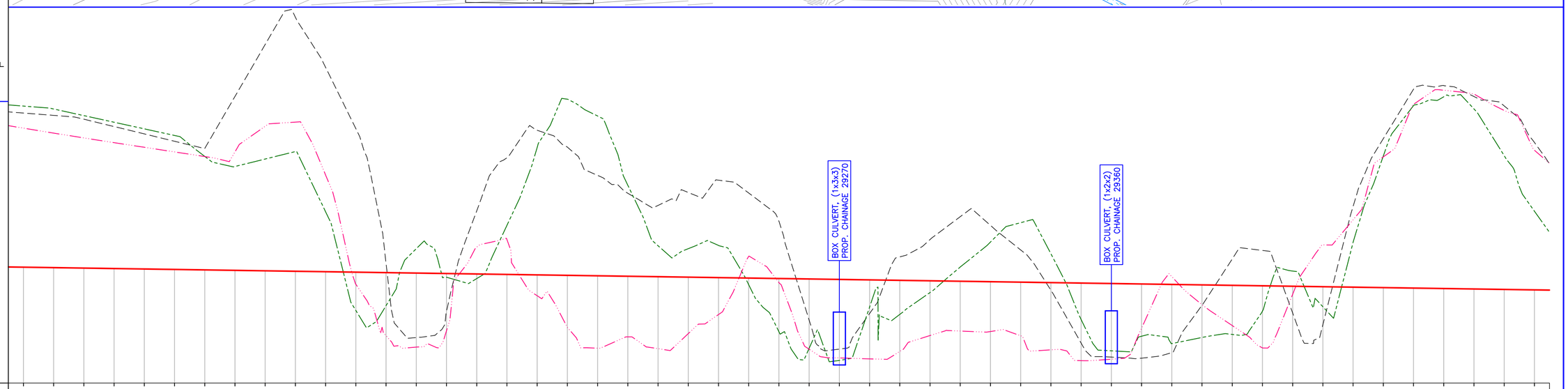
R/WALL RETAINING WALL

PROFILE :

Ver. Tangent Point

FRL of Service Road





Datum : 28.000

| | | |

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.

SP-C : SEMI PUCCA COMM.

P-R : PUCCA RESIDENTIAL

P-C : PUCCA COMMERCIAL

K-R : KUCCA RESIDENTIAL

HUT : HUT

: PEDDY FIELD

: BOUNDARY WALL

: FENCING

ROW — Right of Way

PROPOSED

TOE LINE

SH EDGE

C/W EDGE

MEDIAN

C/W EDGE

SH EDGE

TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

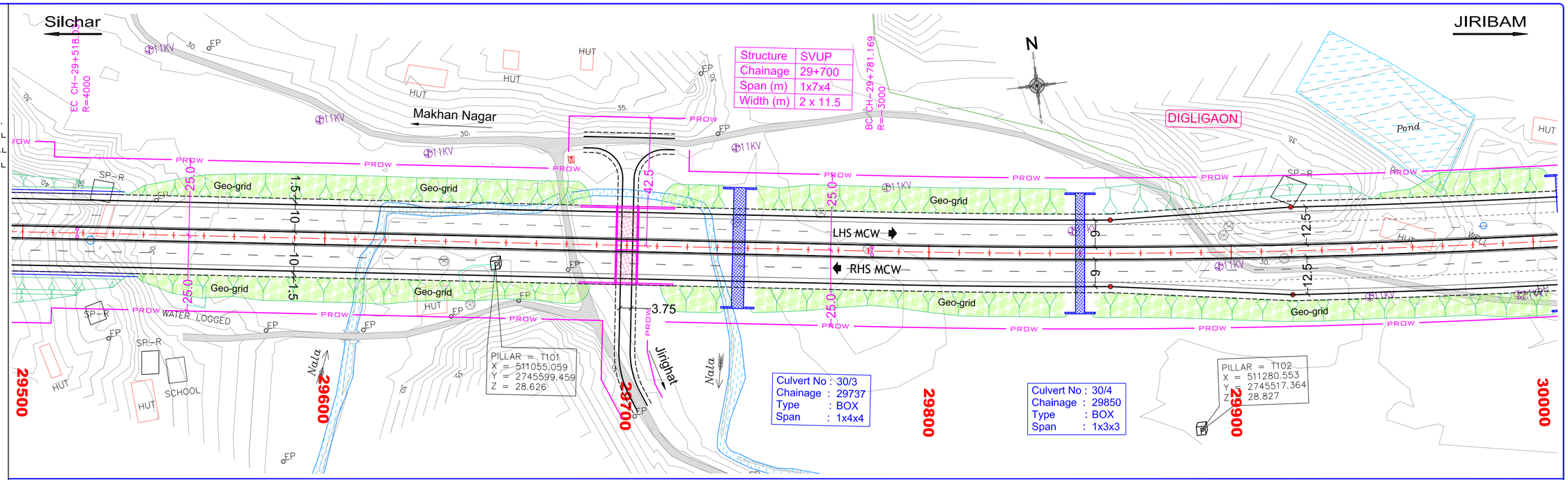
FOOTPATH

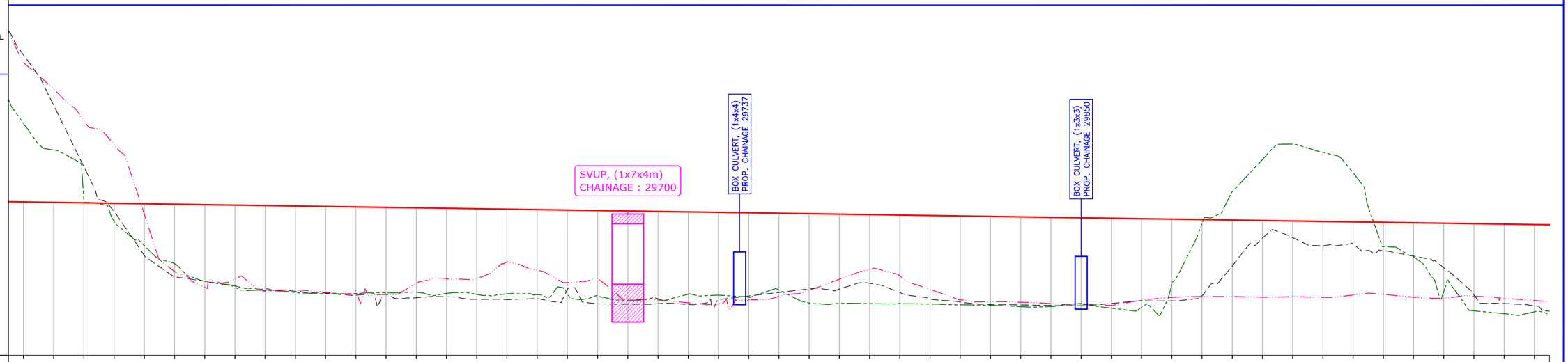
R/WALL RETAINING WALL

PROFILE :

Ver. Tangent Point

FRL of Service Road





Datum : 24.000

		29500	29510	29520	29530	29540	29550	29560	29570	29580	29590	29600	29610	29620	29630	29640	29650	29660	29670	29680	29690	29700	29710	29720	29730	29740	29750	29760	29770	29780	29790	29800	29810	29820	29830	29840	29850	29860	29870	29880	29890	29900	29910	29920	29930	29940	29950	29960	29970	29980	29990	30000
Prop. Level at Median Edge		34.167	34.137	34.107	34.077	34.047	34.017	33.987	33.957	33.927	33.897	33.867	33.837	33.807	33.777	33.747	33.717	33.687	33.657	33.627	33.597	33.567	33.537	33.507	33.477	33.447	33.417	33.387	33.357	33.327	33.297	33.267	33.237	33.207	33.177	33.147	33.117	33.087	33.057	33.027	32.997	32.967	32.937	32.907	32.877	32.847	32.817	32.787	32.757	32.727	32.697	32.667
Ground Level at Prop. C/L		43.919	40.572	36.495	33.518	30.617	29.216	28.915	28.601	28.405	28.243	28.128	27.988	28.048	27.822	27.883	27.718	27.696	27.768	28.350	27.414	27.392	27.424	27.369	27.699	27.936	28.172	28.406	28.398	28.780	28.166	27.754	27.541	27.372	27.344	27.308	27.285	27.443	27.631	27.614	27.942	29.921	31.775	31.803	31.263	31.379	30.944	30.580	29.805	28.018	27.434	27.291
Ground Level at 20m from Prop. C/L	Left	39.371	37.604	34.267	32.886	31.274	30.076	28.918	28.512	28.302	28.170	28.084	28.096	28.156	28.187	28.106	28.045	28.073	28.028	28.100	27.950	27.651	27.751	28.059	27.993	27.861	28.335	27.474	27.439	27.429	27.443	27.402	27.353	27.313	27.229	27.233	27.431	27.131	27.182	28.672	32.730	34.836	36.970	37.992	37.452	36.104	31.210	30.512	29.236	26.953	26.765	27.804
	Right	43.401	41.646	39.556	37.961	33.366	29.570	28.513	29.067	28.253	28.339	28.182	28.302	28.028	28.769	29.080	29.090	30.199	29.640	28.825	29.094	27.731	27.672	27.485	27.409	27.695	27.905	28.304	29.045	29.684	29.264	28.374	27.685	27.556	27.522	27.427	27.363	27.306	27.658	27.845	27.895	27.898	27.856	27.890	27.846	28.004	28.042	27.848	27.804	27.932	27.770	27.637
Vertical Schematic		G=−0.300 L=1575.640																																																				
Horizontal Schematic		STRAIGHT, L=263.138																																																			
		CURVE, R=−3000.0 L=459.932																																																			
Superelevation Schematic		e=(−)2.500																																																			
Chainage (m)		29500	29510	29520	29530	29540	29550	29560	29570	29580	29590	29600	29610	29620	29630	29640	29650	29660	29670	29680	29690	29700	29710	29720	29730	29740	29750	29760	29770	29780	29790	29800	29810	29820	29830	29840	29850	29860	29870	29880	29890	29900	29910	29920	29930	29940	29950	29960	29970	29980	29990	30000

Rev.	Date	Description
R0	15−06−2022	DRAFT DETAILED PROJECT REPORT
R0	21−07−2023	FINAL DETAILED PROJECT REPORT
R1	03−06−2024	FINAL DETAILED PROJECT REPORT
R2	20−11−2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

Authority:
National Highways & Infrastructure Development Corporation Ltd.
(Ministry of Road Transport & Highways)

Design Consultants:
Transys Consulting Pvt. Ltd.
001-004, Raheja chambers, No.12, Museum Road, Bengaluru-560001; Tel: 080-41461995; email: transys_blr@transysconsulting.co.in

Project:
Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)
Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Plan & Profile** *(From Ch. 29+500 to Ch. 30+000)*

Size	Scale	Drg. No	Rev:
A2	HOR−1:1000 VER−1:200	Transys-NH37-P&P-11	R2

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.

SP-C : SEMI PUCCA COMM.

P-R : PUCCA RESIDENTIAL

P-C : PUCCA COMMERCIAL

K-R : KUCCA RESIDENTIAL

HUT : HUT

: PEDDY FIELD

: BOUNDARY WALL

: FENCING

ROW — Right of Way

PROPOSED

TOE LINE

SH EDGE

C/W EDGE

MEDIAN

C/W EDGE

SH EDGE

TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

Silchar

JIRIBAM

HORIZONTAL CURVE DETAILS	
HIP CHAINAGE	30+011.586
CURVE NUMBER	15
RADIUS (m)	-3000.000
CURVE LENGTH (m)	459.932
TRANSITION LEN (m)	0.000
TANGENT LENGTH(m)	230.4
DEFLECTION ANGLE	8° 47' 2.6"
DES. SPEED (KM/H)	100.0
SUPERELEVATION(%)	NORMAL

Culvert No : 31/1
Chainage : 30010
Type : BOX
Span : 1x3x3

PILLAR = T103
X = 511525.053
Y = 2745579.090
Z = 27.535

PILLAR = T104
X = 511704.279
Y = 2745575.133
Z = 28.110

EC CH:30+241.101
R=-3000

Structure	Minor Bridge
Chainage	30+280
Span (m)	1 x 40
Width (m)	2x11.5 + 2x11.0

Khajan Punji

Nala

Pond

DIGLIGAON

TEMPLE

BUS BAY

PLANTATION AREA

LHS SR

LHS MCW

RHS MCW

RHS SR

PROW

HUT

SP-R

EP

11KV

HT

R15

R12

30000

30100

30200

30300

30400

30500

Rev.	Date	Description
R0	15-06-2022	DRAFT DETAILED PROJECT REPORT
R0	21-07-2023	FINAL DETAILED PROJECT REPORT
R1	03-06-2024	FINAL DETAILED PROJECT REPORT
R2	20-11-2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

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Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)
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DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Plan & Profile** *(From Ch. 30+000 to Ch. 30+500)*

Size	*Scale*	*Drg. No*	*Rev:*
A2	HOR-1:1000 VER-1:200	**Transys-NH37-P&P-12**	**R2**

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.
SP-C : SEMI PUCCA COMM.
P-R : PUCCA RESIDENTIAL
P-C : PUCCA COMMERCIAL
K-R : KUCCA RESIDENTIAL
HUT : HUT

: PEDDY FIELD
: BOUNDARY WALL
: FENCING

ROW — Right of Way

PROPOSED

TOE LINE
SH EDGE
C/W EDGE
MEDIAN
C/W EDGE
SH EDGE
TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

PROFILE :

Ver. Tangent Point

FRL of Service Road

Silchar

JIRIBAM

BOX CULVERT, (1x3x3)
PROP. CHAINAGE 30010

CHAINAGE=30028.248
LEVEL=32.582

CHAINAGE=30178.248
LEVEL=33.782

CHAINAGE=30249
LEVEL=35.126

MINOR BRIDGE
SPAN - 1 x 40 m
CHAINAGE : 30+280

Datum : 20.000

| | | |

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.

SP-C : SEMI PUCCA COMM.

P-R : PUCCA RESIDENTIAL

P-C : PUCCA COMMERCIAL

K-R : KUCCA RESIDENTIAL

HUT : HUT

: PEDDY FIELD

: BOUNDARY WALL

: FENCING

ROW — Right of Way

PROPOSED

TOE LINE

SH EDGE

C/W EDGE

MEDIAN

C/W EDGE

SH EDGE

TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

Silchar

JIRIBAM

N

PILLAR = T105
X = 511942.502
Y = 2745588.175
Z = 29.237

PILLAR = T106
X = 512106.612
Y = 2745592.739
Z = 27.080

PILLAR = T107
X = 512286.056
Y = 2745514.386
Z = 35.492

Khanjan Punji

TEMPLE

DIGLIGAON

BC CH=30+797.811
R=3000

Nala

Pond

HILL AREA

WELL

SAMAL

11KV

LHS SR

LHS MCW

RHS MCW

RHS SR

PROW

WATER

HT

HUT

Digligaon

Structure	VUP
Chainage	30+510
Span (m)	1x24x5.5
Width (m)	2 x 11.5

Structure	Minor Bridge
Chainage	30+710
Span (m)	1 x 12
Width (m)	2x11.5 + 2x11.0

30500 30600 30700 30800 30900 31000

Rev.	Date	Description
R0	15–06–2022	DRAFT DETAILED PROJECT REPORT
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DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Plan & Profile** *(From Ch. 30+500 to Ch. 31+000)*

Size	*Scale*	*Drg. No*	*Rev:*
A2	HOR–1:1000 VER–1:200	**Transys-NH37-P&P-13**	**R2**

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.
SP-C : SEMI PUCCA COMM.
P-R : PUCCA RESIDENTIAL
P-C : PUCCA COMMERCIAL
K-R : KUCCA RESIDENTIAL
HUT : HUT
: PEDDY FIELD
: BOUNDARY WALL
: FENCING
ROW — Right of Way

PROPOSED

TOE LINE
SH EDGE
C/W EDGE
MEDIAN
C/W EDGE
SH EDGE
TOE LINE

HOR. TANGENT POINT
CULVERT
PROP. DRAIN
FOOTPATH
R/WALL RETAINING WALL

PROFILE :

Ver. Tangent Point
FRL of Service Road

Silchar ← → JIRIBAM

VUP, (1x24x5.5m)
CHAINAGE : 30510

MINOR BRIDGE
SPAN - 1 x 12 m
CHAINAGE : 30+710

CHAINAGE=30769
LEVEL=35.126

CHAINAGE=30822.911
LEVEL=34.102

CHAINAGE=30942.911
LEVEL=32.662

CHAINAGE=31000.013
LEVEL=32.377

Datum : 20.000

| | | |

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.

SP-C : SEMI PUCCA COMM.

P-R : PUCCA RESIDENTIAL

P-C : PUCCA COMMERCIAL

K-R : KUCCA RESIDENTIAL

HUT : HUT

: PEDDY FIELD

: BOUNDARY WALL

: FENCING

ROW — Right of Way

PROPOSED

TOE LINE

SH EDGE

C/W EDGE

MEDIAN

C/W EDGE

SH EDGE

TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

PROFILE :

Ver. Tangent Point

FRL of Service Road

Silchar

JIRIBAM

N

DIGLIGAON

BUS BAY

TEMPLE

HILL AREA

PLANTATION AREA

Pond

Nala

Khatijan Punji

Digligaon

PROW

HT

LHS SR

LHS MCW

RHS MCW

RHS SR

HORIZONTAL CURVE DETAILS	
IMP. CHAINAGE	30+011.586
CURVE NUMBER	15
RADIUS (m)	~3000.000
CURVE LENGTH (m)	459.932
TRANSITION LEN (m)	0.000
TANGENT LENGTH(m)	230.4
DEFLECTION ANGLE	8° 47' 24"
DES. SPEED (KM/H)	100.2
SUPERELEVATION(%)	NORMAL

Culvert No : 31/1
Chainage : 30010
Type : BOX
Span : 1x3x3

PILLAR = T103
X = 511525.053
Y = 2745579.090
Z = 27.535

PILLAR = T104
X = 511704.279
Y = 2745575.133
Z = 28.110

PILLAR = T105
X = 511942.502
Y = 2745588.175
Z = 29.237

PILLAR = T106
X = 512106.612
Y = 2745592.739
Z = 27.080

PILLAR = T107
X = 512286.056
Y = 2745514.386
Z = 35.492

Structure	Minor Bridge
Chainage	30+280
Span (m)	1 x 40
Width (m)	2x11.5 + 2x11.0

Structure	VUP
Chainage	30+510
Span (m)	1x24x5.5
Width (m)	2 x 11.5

Structure	Minor Bridge
Chainage	30+710
Span (m)	1 x 12
Width (m)	2x11.5 + 2x11.0

CHAINAGE=29828.248
LEVEL=32.360

CHAINAGE=30278.248
LEVEL=33.178

CHAINAGE=30249
LEVEL=35.145

MINOR BRIDGE
SPAN - 1 x 40 m
CHAINAGE : 30+280

VUP, (1x24x5.5m)
CHAINAGE : 30510

MINOR BRIDGE
SPAN - 1 x 12 m
CHAINAGE : 30+710

CHAINAGE=30789
LEVEL=35.126

CHAINAGE=30822.911
LEVEL=34.157

CHAINAGE=30962.911
LEVEL=32.662

RAV. CULVERT, 3 (3x3)
RAV. CHAINAGE 30030

Datum : 6.000

Prop. Level at Median Edge		
Ground Level at Prop. C/L		
Ground Level at 20m from Prop. C/L	Left	
	Right	
Vertical Schematic		0=−0.300 L=1575.640 ; L=150.000 K=68.182 ; 0=1.900 ; L=70.752 ; L=520.000 K=136.842 ; L=520.000 K=136.842 ; 0=−1.900 ; L=53.911 ; L=120.000 K=85.714 ; 0=−0.500 ; L=57.102
Horizontal Schematic		CURVE, R=−3000.0 L=459.932 ; STRAIGHT, L=556.710 ; STRAIGHT, L=556.710 ; CURVE, R=3000.0 L=1132.454
Superelevation Schematic		e=(−)2.500 ; e=(−)2.500 ; e=(−)2.500 ; e=(−)2.500
Chainage (m)		29980 ; 29990 ; 30000 ; 30010 ; 30020 ; 30030 ; 30040 ; 30050 ; 30060 ; 30070 ; 30080 ; 30090 ; 30100 ; 30110 ; 30120 ; 30130 ; 30140 ; 30150 ; 30160 ; 30170 ; 30180 ; 30190 ; 30200 ; 30210 ; 30220 ; 30230 ; 30240 ; 30250 ; 30260 ; 30270 ; 30280 ; 30290 ; 30300 ; 30310 ; 30320 ; 30330 ; 30340 ; 30350 ; 30360 ; 30370 ; 30380 ; 30390 ; 30400 ; 30410 ; 30420 ; 30430 ; 30440 ; 30450 ; 30460 ; 30470 ; 30480 ; 30490 ; 30500 ; 30510 ; 30520 ; 30530 ; 30540 ; 30550 ; 30560 ; 30570 ; 30580 ; 30590 ; 30600 ; 30610 ; 30620 ; 30630 ; 30640 ; 30650 ; 30660 ; 30670 ; 30680 ; 30690 ; 30700 ; 30710 ; 30720 ; 30730 ; 30740 ; 30750 ; 30760 ; 30770 ; 30780 ; 30790 ; 30800 ; 30810 ; 30820 ; 30830 ; 30840 ; 30850 ; 30860 ; 30870 ; 30880 ; 30890 ; 30900 ; 30910 ; 30920 ; 30930 ; 30940 ; 30950 ; 30960 ; 30970 ; 30980 ; 30990 ; 31000

Rev.	Date	Description
R0	15–06–2022	DRAFT DETAILED PROJECT REPORT
R0	21–07–2023	FINAL DETAILED PROJECT REPORT
R1	03–06–2024	FINAL DETAILED PROJECT REPORT
R2	03–06–2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

Authority:

National Highways & Infrastructure Development Corporation Ltd.
(Ministry of Road Transport & Highways)

Design Consultants:

Transys Consulting Pvt. Ltd.
001-004, Raheja chambers, No.12, Museum Road, Bengaluru-560001; Tel: 080-41461995; email: transys_blr@transysconsulting.co.in

Project:

Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)

Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Plan & Profile** *(From Ch. 30+500 to Ch. 31+000)*

Size	*Scale*	*Drg. No*	*Rev:*
A2	NTS	**Transys-NH37-P&P- 13b**	**R2**

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.

SP-C : SEMI PUCCA COMM.

P-R : PUCCA RESIDENTIAL

P-C : PUCCA COMMERCIAL

K-R : KUCCA RESIDENTIAL

HUT : HUT

: PEDDY FIELD

: BOUNDARY WALL

: FENCING

ROW — Right of Way

PROPOSED

TOE LINE

SH EDGE

C/W EDGE

MEDIAN

C/W EDGE

SH EDGE

TOE LINE

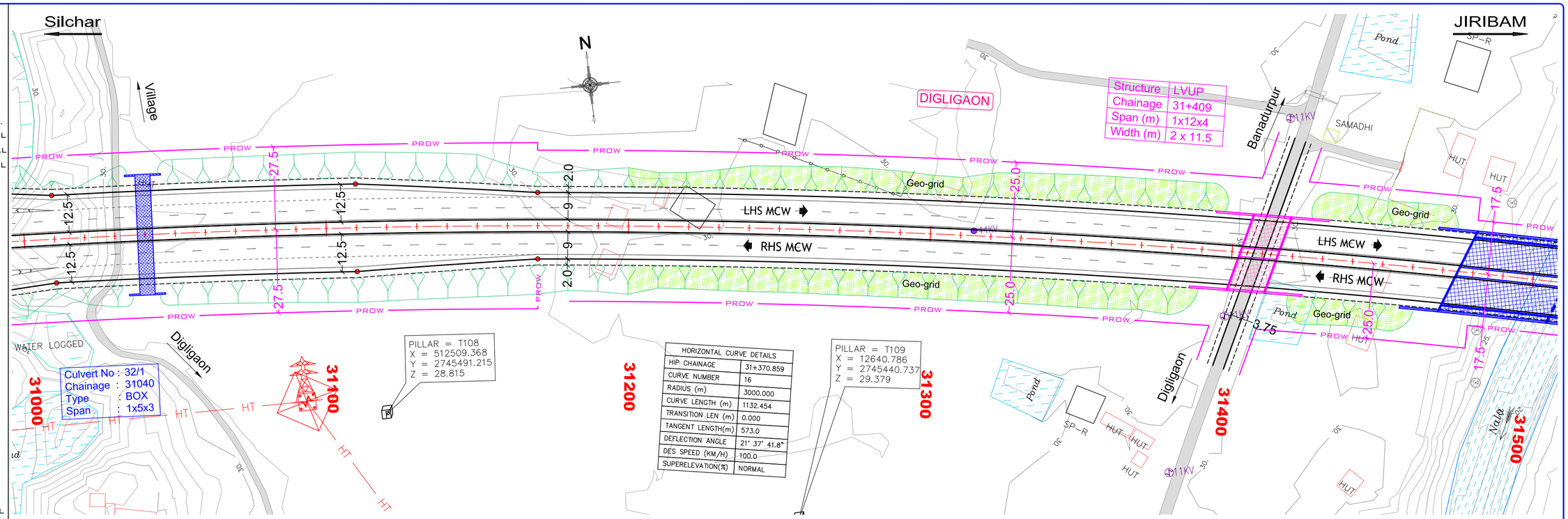
HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

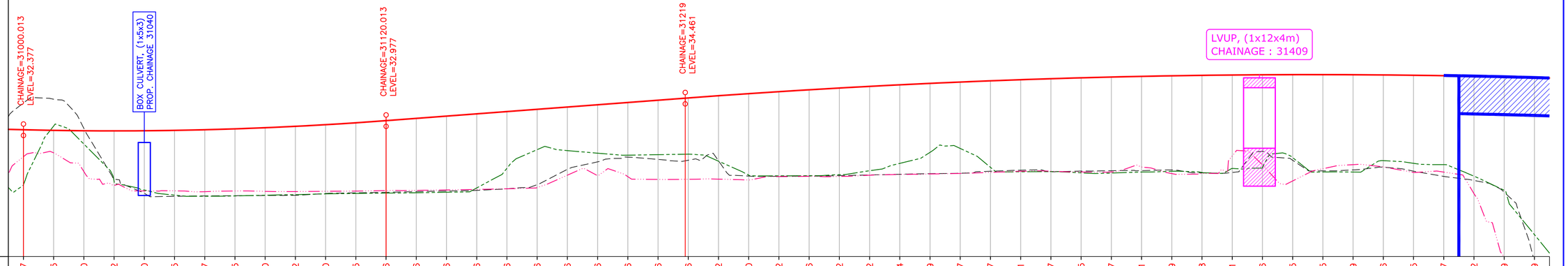
R/WALL RETAINING WALL



PROFILE :

Ver. Tangent Point

FRL of Service Road



Datum : 24.000

| | | |

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.

SP-C : SEMI PUCCA COMM.

P-R : PUCCA RESIDENTIAL

P-C : PUCCA COMMERCIAL

K-R : KUCCA RESIDENTIAL

HUT : HUT

: PEDDY FIELD

: BOUNDARY WALL

: FENCING

ROW — Right of Way

PROPOSED

TOE LINE
SH EDGE
C/W EDGE
MEDIAN
C/W EDGE
SH EDGE
TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

Silchar

JIRIBAM

N

Structure	SVUP
Chainage	31+607
Span (m)	1x7x4
Width (m)	2 x 11.5

Structure	Major Bridge
Chainage	31+511
Span (m)	2 x 36
Width (m)	2 x 12.5

PILLAR = T110
X = 512926.120
Y = 2745490.648
Z = 26.177

PILLAR = T111
X = 513073.875
Y = 2745355.964
Z = 29.014

PILLAR = T112
X = 513308.870
Y = 2745398.738
Z = 28.618

EC CH-31+930.265
R=3000

Culvert No : 32/2
Chainage : 31735
Type : BOX
Span : 1x3x3

Culvert No : 32/3
Chainage : 31960
Type : BOX
Span : 1x3x3

BANADURPUR

Village

Lakhichera

Nala

Pond

SCHOOL

WATER LOGGE

Geo-grid

PROW

SP-R

HUT

EP

11KV

31500

31600

31700

31800

31900

32000

Rev.	Date	Description
R0	15-06-2022	DRAFT DETAILED PROJECT REPORT
R0	21-07-2023	FINAL DETAILED PROJECT REPORT
R1	03-06-2024	FINAL DETAILED PROJECT REPORT
R2	20-11-2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

Authority:

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Design Consultants:

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001-004, Raheja chambers, No.12, Museum Road, Bengaluru-560001; Tel: 080-41461995; email: transys_blr@transysconsulting.co.in

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Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)

Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Plan & Profile** *(From Ch. 31+500 to Ch. 32+000)*

Size	*Scale*	*Drg. No*	*Rev:*
A2	HOR-1:1000 VER-1:200	**Transys-NH37-P&P-15**	**R2**

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.
SP-C : SEMI PUCCA COMM.
P-R : PUCCA RESIDENTIAL
P-C : PUCCA COMMERCIAL
K-R : KUCCA RESIDENTIAL
HUT : HUT
: PEDDY FIELD
: BOUNDARY WALL
: FENCING
ROW — Right of Way

PROPOSED

TOE LINE
SH EDGE
C/W EDGE
MEDIAN
C/W EDGE
SH EDGE
TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

PROFILE :

Ver. Tangent Point

FRL of Service Road

Silchar

JIRIBAM

MAJOR BRIDGE
SPAN - 2x36 m
CHAINAGE : 31+511

CHAINAGE=31599
LEVEL=34.936

SVUP, (1x7x4m)
CHAINAGE : 31607

CHAINAGE=31705
LEVEL=33.611

BOX CULVERT, (1x3x3)
PROP. CHAINAGE 31735

CHAINAGE=31855
LEVEL=32.899

BOX CULVERT, (1x3x3)
PROP. CHAINAGE 31960

Datum : 16.000

| | | |

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.

SP-C : SEMI PUCCA COMM.

P-R : PUCCA RESIDENTIAL

P-C : PUCCA COMMERCIAL

K-R : KUCCA RESIDENTIAL

HUT : HUT

: PEDDY FIELD

: BOUNDARY WALL

: FENCING

ROW — Right of Way

PROPOSED

TOE LINE
SH EDGE
C/W EDGE

MEDIAN

C/W EDGE
SH EDGE
TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

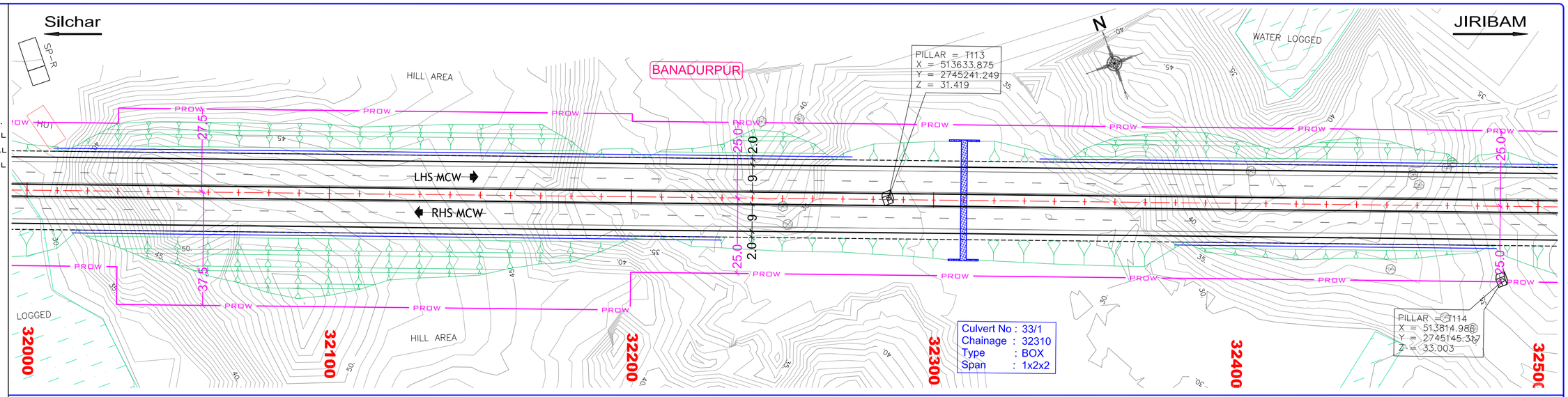
FOOTPATH

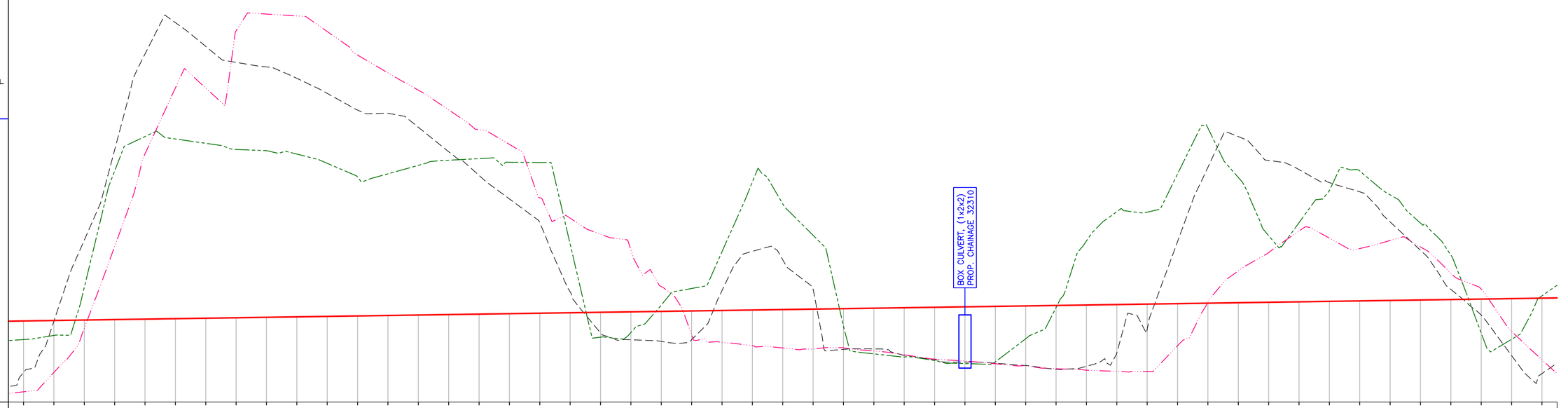
R/WALL RETAINING WALL

PROFILE :

Ver. Tangent Point

FRL of Service Road





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| | | |

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.

SP-C : SEMI PUCCA COMM.

P-R : PUCCA RESIDENTIAL

P-C : PUCCA COMMERCIAL

K-R : KUCCA RESIDENTIAL

HUT : HUT

: PEDDY FIELD

: BOUNDARY WALL

: FENCING

ROW — Right of Way

PROPOSED

TOE LINE

SH EDGE

C/W EDGE

MEDIAN

C/W EDGE

SH EDGE

TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

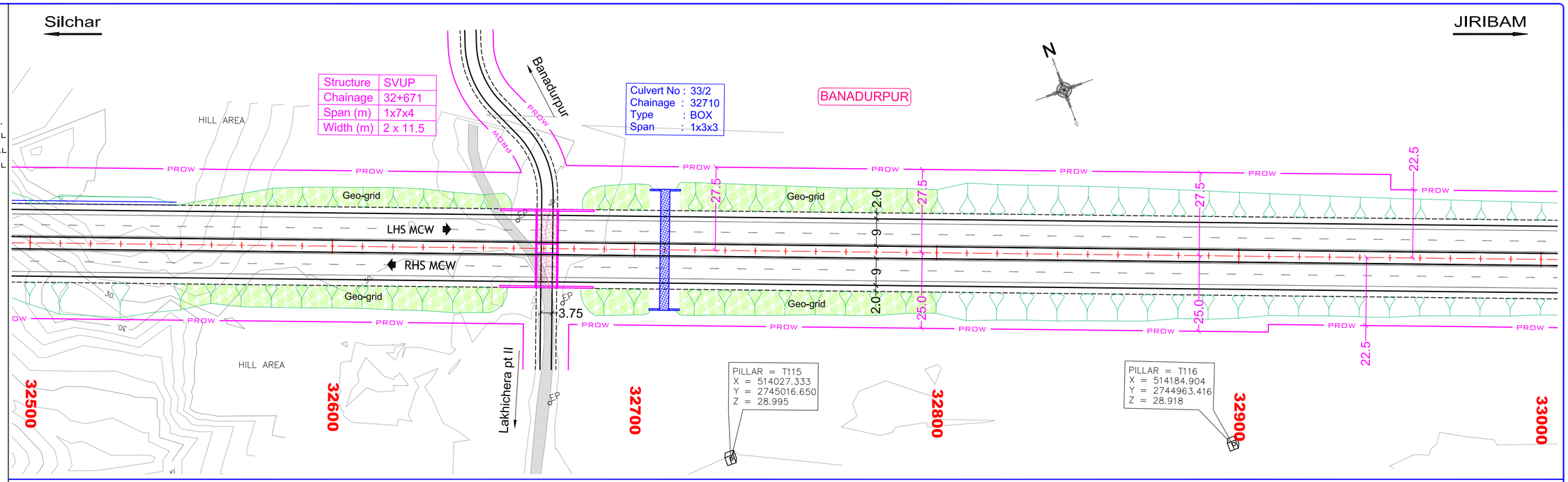
FOOTPATH

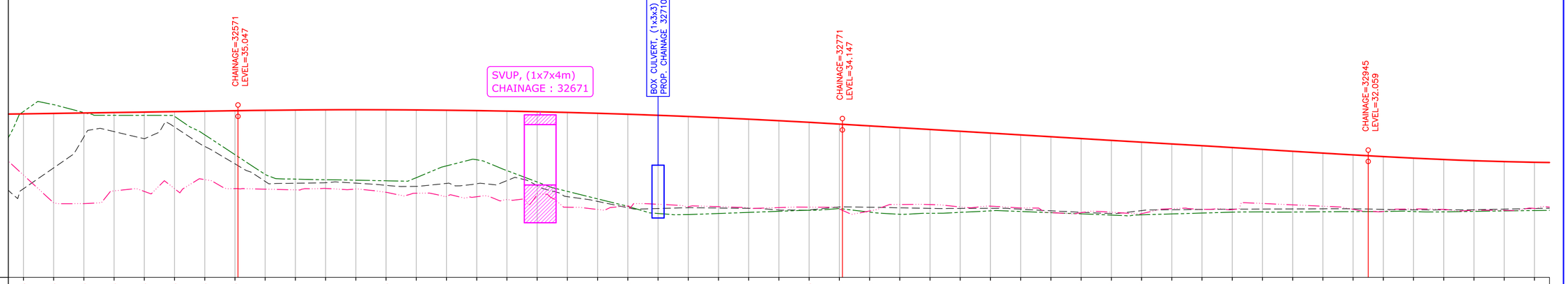
R/WALL RETAINING WALL

PROFILE :

Ver. Tangent Point

FRL of Service Road





Datum : 24.000

| | | |

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.
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P-R : PUCCA RESIDENTIAL
P-C : PUCCA COMMERCIAL
K-R : KUCCA RESIDENTIAL
HUT : HUT

: PEDDY FIELD
: BOUNDARY WALL
: FENCING

ROW — Right of Way

PROPOSED

TOE LINE
SH EDGE
C/W EDGE
MEDIAN
C/W EDGE
SH EDGE
TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

PROFILE :

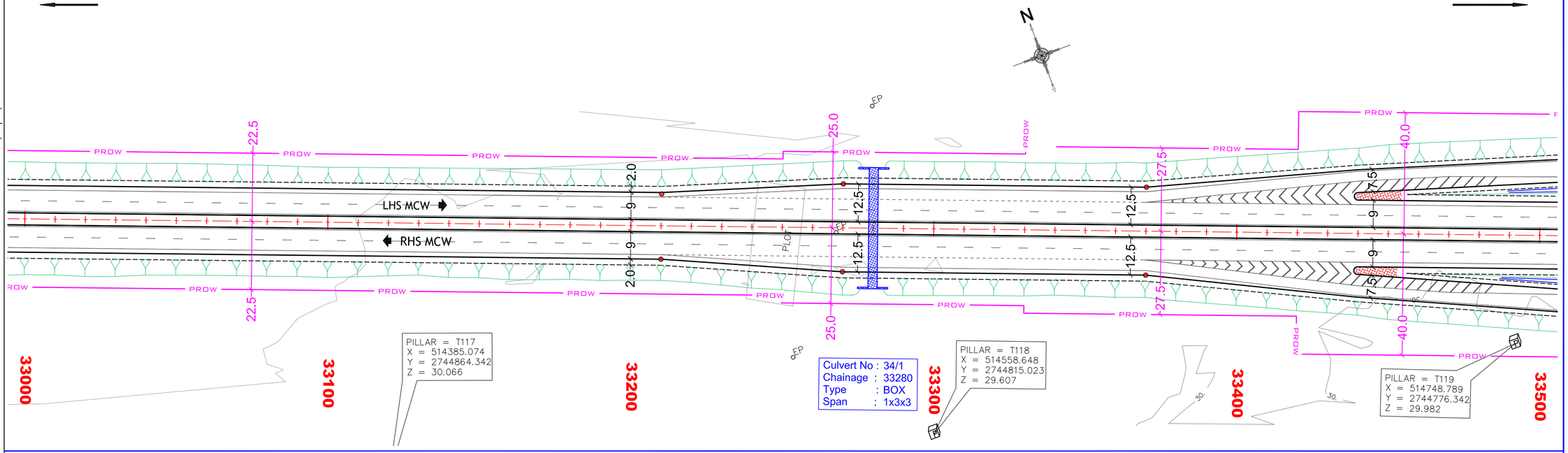
Ver. Tangent Point

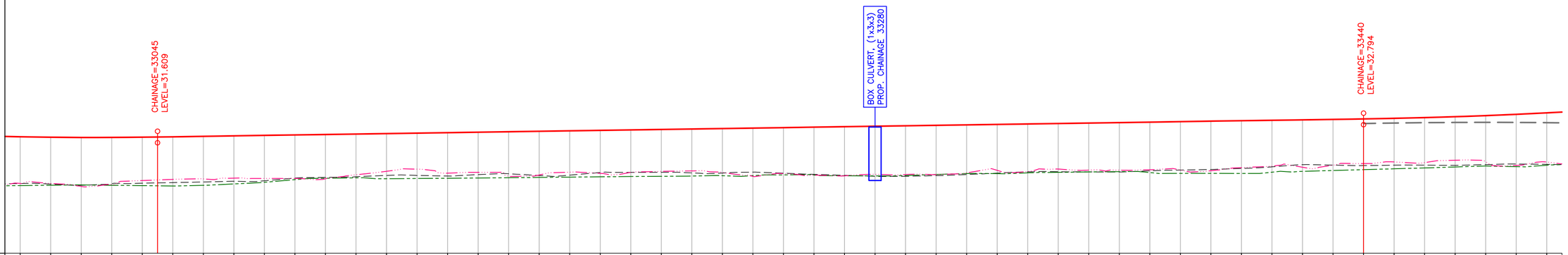
FRL of Service Road

Silchar

JIRIBAM

N





Datum : 24.000

| | | |

LEGEND :

PLAN :

EXISTING

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SP-R : SEMI PUCCA RESI.
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PROPOSED

TOE LINE
SH EDGE
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TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

Silchar

JIRIBAM

N

BANADURPUR

PLOT

PROW

LHS SR

LHS MCW

RHS MCW

RHS SR

7.5
2.0
9
9
2.0
7.5

40.0

Structure	LVUP
Chainage	33+844
Span (m)	1x12x4
Width (m)	2 x 11.5

Structure	Minor Bridge
Chainage	33+947
Span (m)	1 x 40
Width (m)	2x11.5 + 2x11.0

PILLAR = T120
X = 514937.234
Y = 2744698.426
Z = 30.818

Culvert No : 34/2
Chainage : 33690
Type : BOX
Span : 1x2x2

PILLAR = T121
X = 515177.369
Y = 2744659.462
Z = 31.600

Sahitpur

Lakhinagar

Nala

R30
R15
R9
R18

3.75

11KV

100.0

33500
33600
33700
33800
33900
34000

HT

Rev.	Date	Description
R0	15–06–2022	DRAFT DETAILED PROJECT REPORT
R0	21–07–2023	FINAL DETAILED PROJECT REPORT
R1	03–06–2024	FINAL DETAILED PROJECT REPORT
R2	20–11–2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

Authority:

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Design Consultants:

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Project:

Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)

Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Plan & Profile** *(From Ch. 33+500 to Ch. 34+000)*

Size	*Scale*	*Drg. No*	*Rev:*
A2	HOR–1:1000 VER–1:200	**Transys-NH37-P&P-19**	**R2**

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.
SP-C : SEMI PUCCA COMM.
P-R : PUCCA RESIDENTIAL
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K-R : KUCCA RESIDENTIAL
HUT : HUT

: PEDDY FIELD
: BOUNDARY WALL
: FENCING

ROW — RIGHT OF WAY

PROPOSED

TOE LINE
SH EDGE
C/W EDGE
MEDIAN
C/W EDGE
SH EDGE
TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

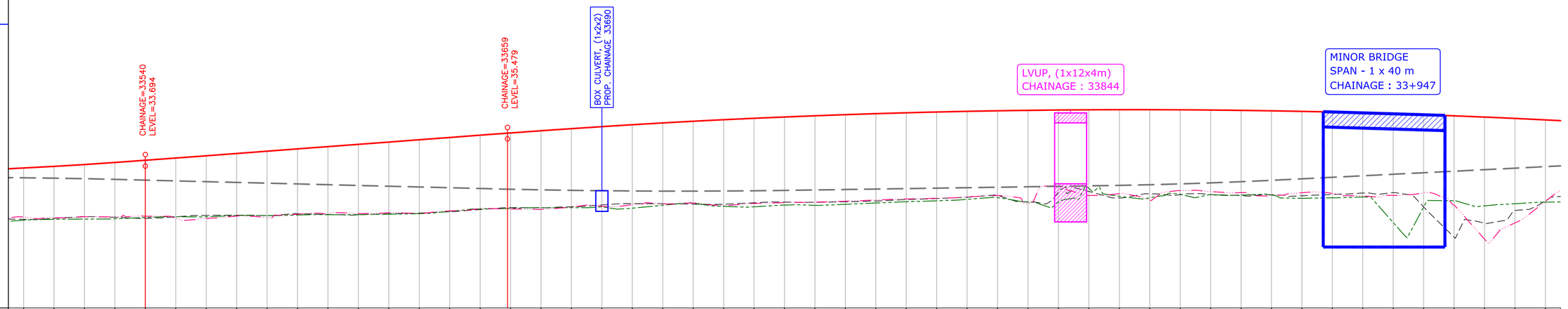
PROFILE :

Ver. Tangent Point

FRL of Service Road

Silchar

JIRIBAM



Datum : 24.000

| | | |

LEGEND :

PLAN :

EXISTING

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PROPOSED
TOE LINE
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C/W EDGE
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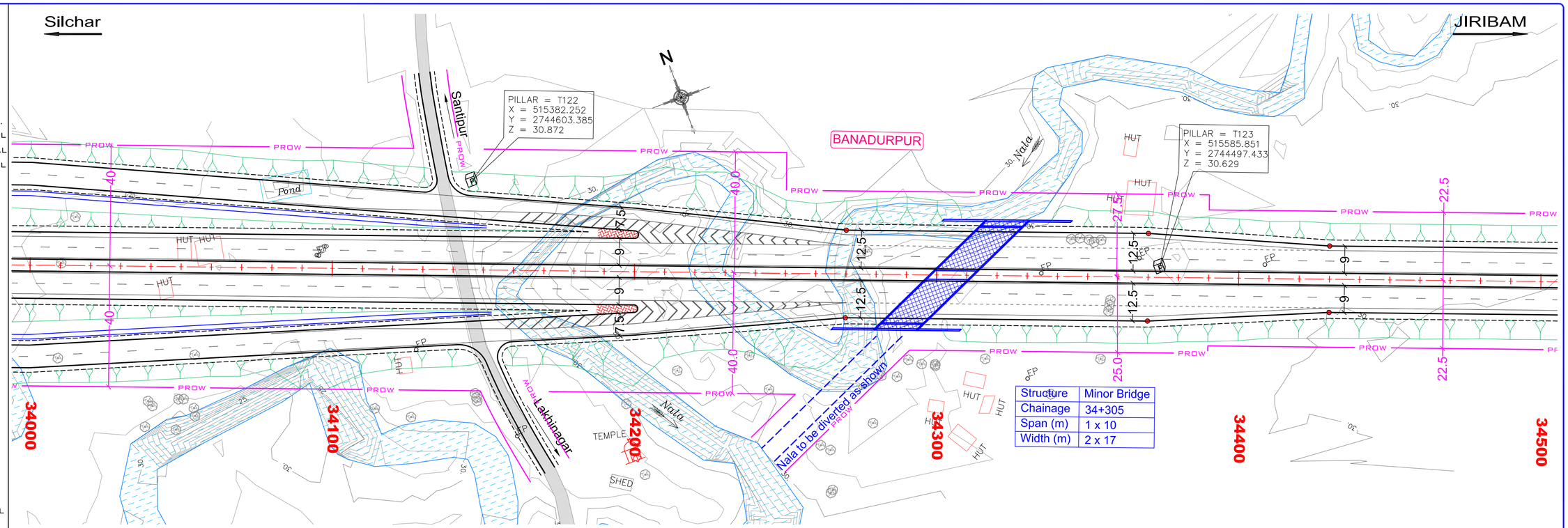
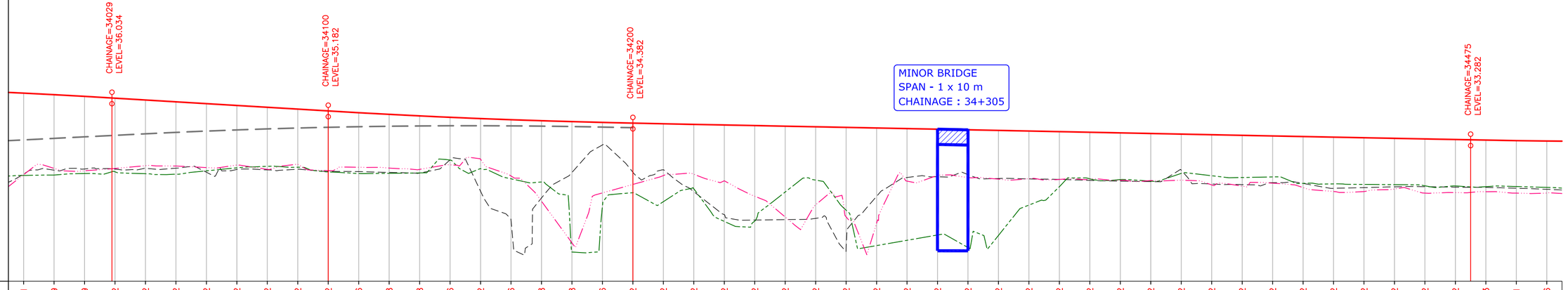
HOR. TANGENT POINT
CULVERT
PROP. DRAIN
FOOTPATH
R/WALL RETAINING WALL

PROFILE :

Ver. Tangent Point
FRL of Service Road





Datum : 24.000

| | | |

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.

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P-R : PUCCA RESIDENTIAL

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K-R : KUCCA RESIDENTIAL

HUT : HUT

: PEDDY FIELD

: BOUNDARY WALL

: FENCING

ROW — Right of Way

PROPOSED

TOE LINE

SH EDGE

C/W EDGE

MEDIAN

C/W EDGE

SH EDGE

TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

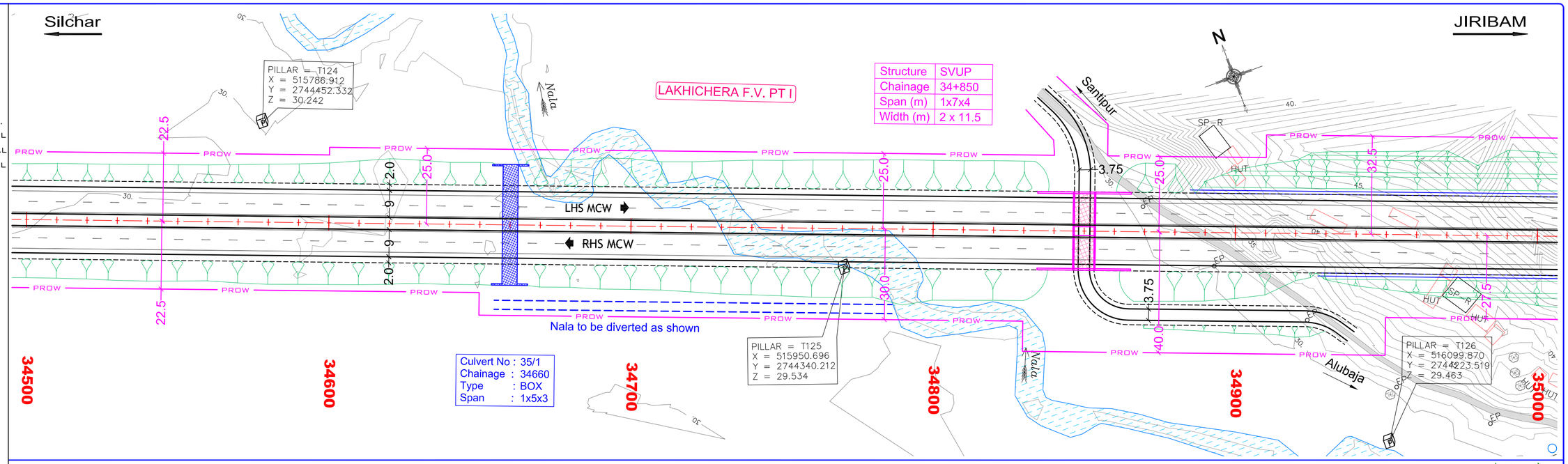
FOOTPATH

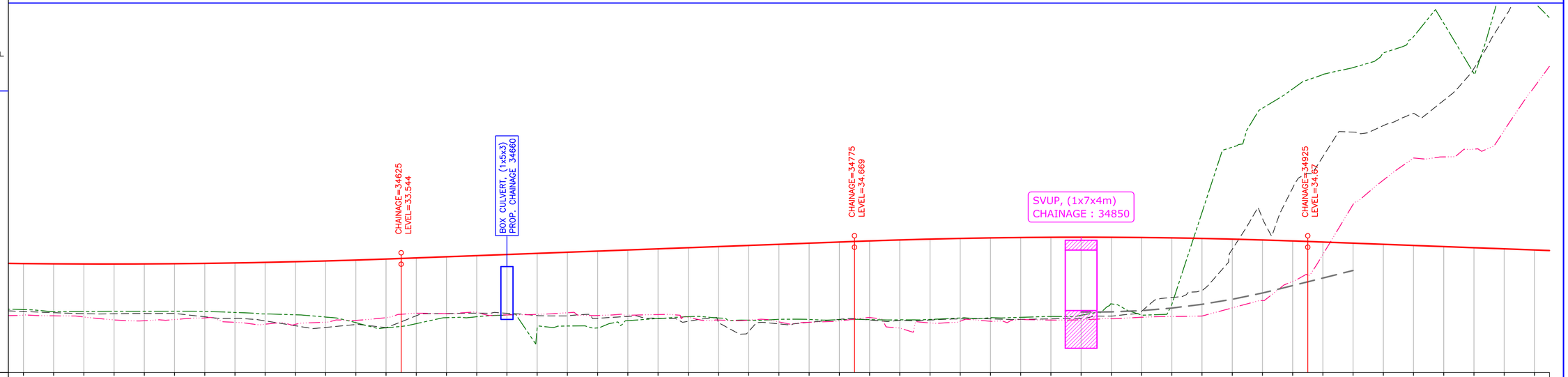
R/WALL RETAINING WALL

PROFILE :

Ver. Tangent Point

FRL of Service Road





Datum : 26.000

| | | |

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.

SP-C : SEMI PUCCA COMM.

P-R : PUCCA RESIDENTIAL

P-C : PUCCA COMMERCIAL

K-R : KUCCA RESIDENTIAL

HUT : HUT

: PEDDY FIELD

: BOUNDARY WALL

: FENCING

ROW — Right of Way

PROPOSED

TOE LINE

SH EDGE

C/W EDGE

MEDIAN

C/W EDGE

SH EDGE

TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

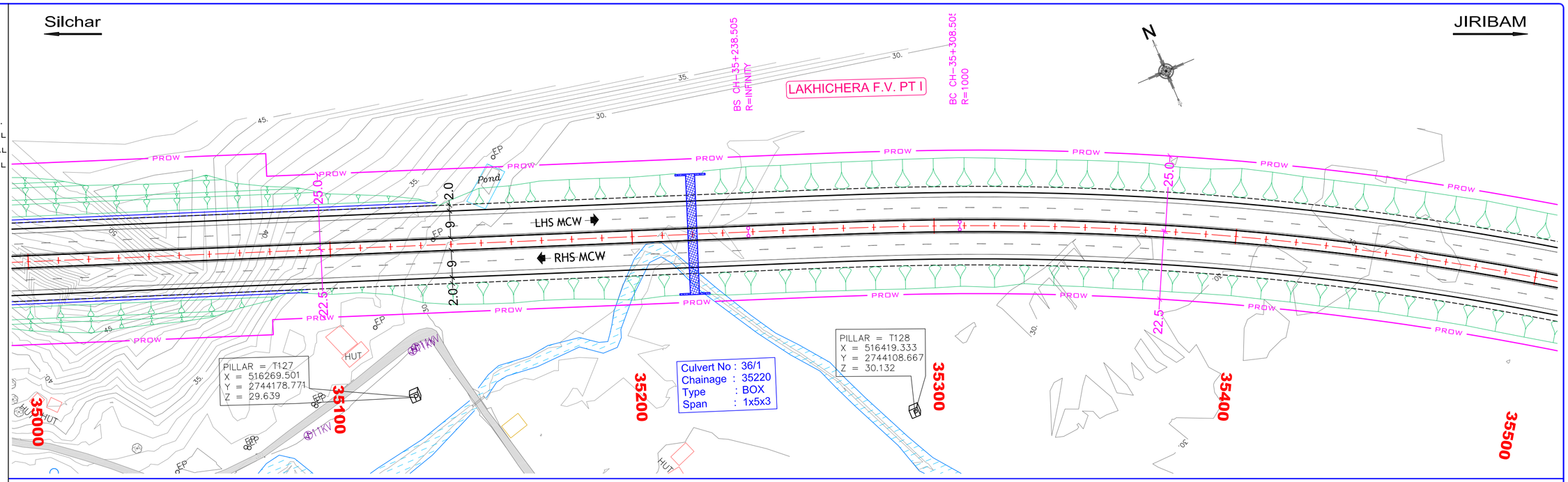
FOOTPATH

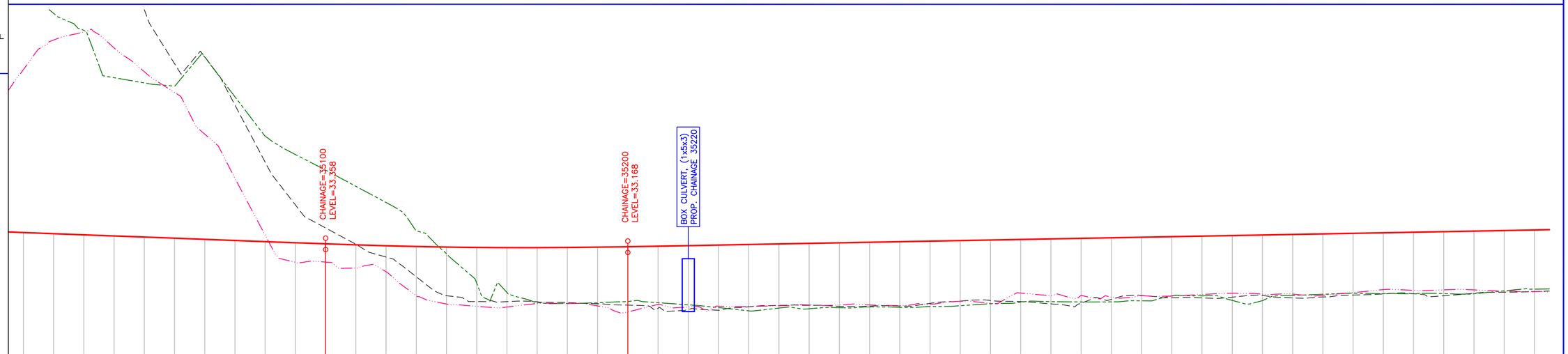
R/WALL RETAINING WALL

PROFILE :

Ver. Tangent Point

FRL of Service Road





Datum : 26.000

		35000	35010	35020	35030	35040	35050	35060	35070	35080	35090	35100	35110	35120	35130	35140	35150	35160	35170	35180	35190	35200	35210	35220	35230	35240	35250	35260	35270	35280	35290	35300	35310	35320	35330	35340	35350	35360	35370	35380	35390	35400	35410	35420	35430	35440	35450	35460	35470	35480	35490	35500
Prop. Level at Median Edge		34.107	34.033	33.958	33.883	33.808	33.733	33.658	33.583	33.508	33.433	33.358	33.288	33.230	33.183	33.148	33.123	33.110	33.107	33.116	33.137	33.168	33.205	33.242	33.279	33.316	33.353	33.390	33.427	33.464	33.501	33.538	33.575	33.612	33.649	33.686	33.723	33.760	33.797	33.834	33.871	33.908	33.945	33.982	34.019	34.056	34.093	34.130	34.167	34.204	34.241	34.278
Ground Level at Prop. C/L		51.761	55.977	54.343	53.584	48.855	45.285	45.737	42.541	38.765	35.936	34.411	33.336	32.488	31.179	29.928	29.540	29.536	29.526	29.473	29.393	29.302	29.098	29.017	28.967	29.192	29.286	29.289	29.224	29.233	29.244	29.423	29.571	29.611	29.538	29.386	29.431	29.690	29.947	29.795	29.785	29.833	29.944	29.782	29.845	29.974	30.047	30.057	30.091	30.159	30.196
Ground Level at 20m from Prop. C/L	Left	50.479	48.612	47.487	44.356	44.008	43.805	45.713	43.091	40.487	39.272	38.240	37.169	36.098	34.215	32.698	30.751	30.141	29.468	29.415	29.459	29.543	29.465	29.323	29.144	28.926	29.107	29.064	29.135	29.186	29.159	29.216	29.265	29.396	29.506	29.538	29.516	29.520	29.591	29.914	29.919	29.617	29.601	29.949	30.023	30.088	30.066	30.068	30.066	29.923	30.057	30.252	30.363
	Right	44.895	46.848	47.373	46.328	44.749	43.382	40.619	37.692	33.929	32.135	32.154	31.755	31.514	29.915	29.376	29.224	29.181	29.412	29.408	29.251	28.852	29.355	29.178	29.222	29.214	29.261	29.313	29.313	29.318	29.274	29.362	29.562	29.430	30.103	29.932	29.941	29.830	29.932	29.905	30.007	30.089	30.024	30.034	29.956	30.134	30.332	30.283	30.314	30.311	30.214	30.206
Vertical Schematic		G=−0.750 L=175.000										L=100.000 K=89.314										G=0.370 L=1392.282																																						
Horizontal Schematic		STRAIGHT, L=3308.240																										TRANSITION,L=70.000							CURVE, R=1000.0 L=933.474																					
Superelevation Schematic		e=(−)2.500																																	e=4.444																					
																																		e=4.444																					
Chainage (m)		35000	35010	35020	35030	35040	35050	35060	35070	35080	35090	35100	35110	35120	35130	35140	35150	35160	35170	35180	35190	35200	35210	35220	35230	35240	35250	35260	35270	35280	35290	35300	35310	35320	35330	35340	35350	35360	35370	35380	35390	35400	35410	35420	35430	35440	35450	35460	35470	35480	35490	35500

Rev.	Date	Description
R0	15–06–2022	DRAFT DETAILED PROJECT REPORT
R0	21–07–2023	FINAL DETAILED PROJECT REPORT
R1	03–06–2024	FINAL DETAILED PROJECT REPORT
R2	20–11–2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

Authority:

National Highways & Infrastructure Development Corporation Ltd.
(Ministry of Road Transport & Highways)

Design Consultants:

Transys Consulting Pvt. Ltd.
001-004, Raheja chambers, No.12, Museum Road, Bengaluru-560001; Tel: 080-41461995; email: transys_blr@transysconsulting.co.in

Project:

Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)

Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Plan & Profile** *(From Ch. 35+000 to Ch. 35+500)*

Size	*Scale*	*Drg. No*	*Rev:*
A2	HOR−1:1000 VER−1:200	**Transys-NH37-P&P- 22**	**R2**

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.
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P-R : PUCCA RESIDENTIAL
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: FENCING

ROW — Right of Way

PROPOSED

TOE LINE
SH EDGE
C/W EDGE
MEDIAN
C/W EDGE
SH EDGE
TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

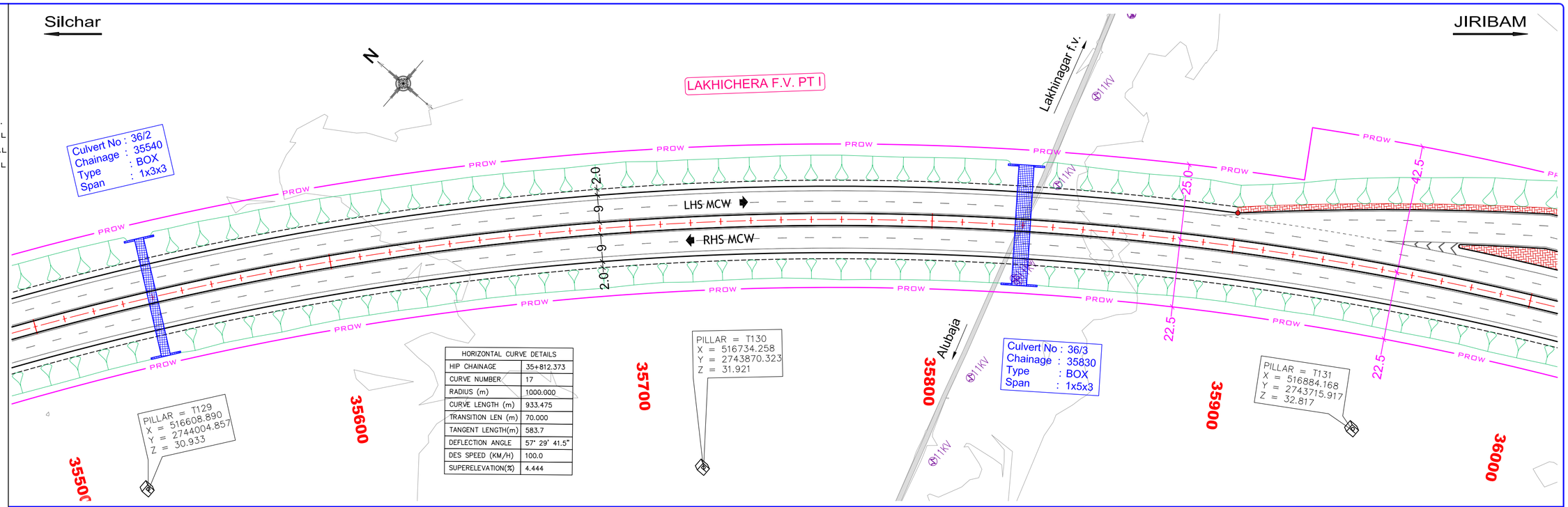
FOOTPATH

R/WALL RETAINING WALL

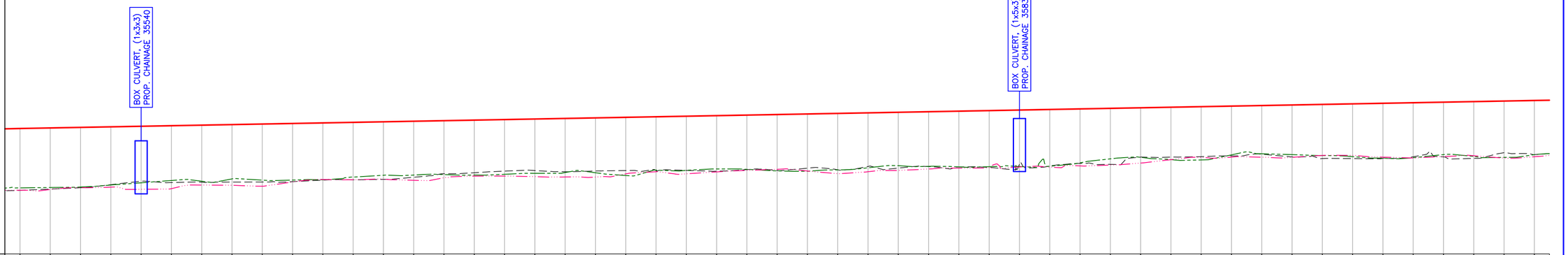
PROFILE :

Ver. Tangent Point

FRL of Service Road



HORIZONTAL CURVE DETAILS	
HIP CHAINAGE	35+812.373
CURVE NUMBER	17
RADIUS (m)	1000.000
CURVE LENGTH (m)	933.475
TRANSITION LEN (m)	70.000
TANGENT LENGTH(m)	583.7
DEFLECTION ANGLE	57° 29' 41.5"
DES SPEED (KM/H)	100.0
SUPERELEVATION(%)	4.444



Datum : 26.000

Chainage (m)	Prop. Level at Median Edge	Ground Level at Prop. C/L	Ground Level at 20m from Prop. C/L Left	Ground Level at 20m from Prop. C/L Right
35500	34.278	30.196	30.363	30.206
35510	34.315	30.284	30.385	30.252
35520	34.352	30.370	30.419	30.376
35530	34.389	30.572	30.552	30.410
35540	34.426	30.797	30.697	30.269
35550	34.463	30.711	30.849	30.308
35560	34.500	30.736	30.801	30.548
35570	34.537	30.745	30.954	30.534
35580	34.574	30.751	30.873	30.471
35590	34.611	30.774	30.877	30.751
35600	34.648	30.873	30.896	30.916
35610	34.685	30.892	31.076	30.898
35620	34.722	30.921	31.196	30.933
35630	34.759	31.062	31.209	30.861
35640	34.796	31.291	31.238	31.031
35650	34.833	31.359	31.211	31.142
35660	34.870	31.467	31.258	31.142
35670	34.907	31.506	31.323	31.104
35680	34.944	31.426	31.371	31.079
35690	34.981	31.475	31.362	31.074
35700	35.018	31.506	31.179	31.284
35710	35.055	31.503	31.534	31.430
35720	35.092	31.516	31.519	31.288
35730	35.129	31.464	31.610	31.416
35740	35.166	31.566	31.586	31.515
35750	35.203	31.507	31.484	31.588
35760	35.240	31.662	31.461	31.475
35770	35.277	31.553	31.549	31.300
35780	35.314	31.776	31.689	31.426
35790	35.351	31.667	31.828	31.514
35800	35.388	31.766	31.785	31.606
35810	35.425	31.739	31.747	31.667
35820	35.462	31.713	31.761	31.691
35830	35.499	31.917	31.771	31.740
35840	35.536	31.811	31.793	31.731
35850	35.573	31.979	32.015	31.813
35860	35.610	31.915	32.277	31.869
35870	35.647	32.393	32.379	31.999
35880	35.684	32.395	32.229	32.225
35890	35.721	32.421	32.208	32.368
35900	35.758	32.472	32.539	32.393
35910	35.795	32.585	32.612	32.385
35920	35.832	32.404	32.556	32.378
35930	35.869	32.296	32.495	32.502
35940	35.906	32.296	32.424	32.506
35950	35.943	32.310	32.320	32.390
35960	35.980	32.413	32.354	32.332
35970	36.017	32.406	32.559	32.430
35980	36.054	32.310	32.436	32.483
35990	36.091	32.682	32.374	32.329
36000	36.128	32.559	32.553	32.417

Vertical Schematic: G=0.370, L=1392.282

Horizontal Schematic: CURVE, R=1000.0 L=933.474

Superelevation Schematic: e=4.444 (Left), e=4.444 (Right)

Rev.	Date	Description
R0	15–06–2022	DRAFT DETAILED PROJECT REPORT
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R2	20–11–2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

Authority:
National Highways & Infrastructure Development Corporation Ltd.
(Ministry of Road Transport & Highways)

Design Consultants:
Transys Consulting Pvt. Ltd.
001-004, Raheja chambers, No.12, Museum Road, Bengaluru-560001; Tel: 080-41461995; email: transys_blr@transysconsulting.co.in

Project:
Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)
Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Plan & Profile** *(From Ch. 35+500 to Ch. 36+000)*

Size	Scale	Drg. No	Rev:
A2	HOR–1:1000 VER–1:200	Transys-NH37-P&P-23	R2

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.
SP-C : SEMI PUCCA COMM.
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ROW — Right of Way

PROPOSED

TOE LINE
SH EDGE
C/W EDGE
MEDIAN
C/W EDGE
SH EDGE
TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

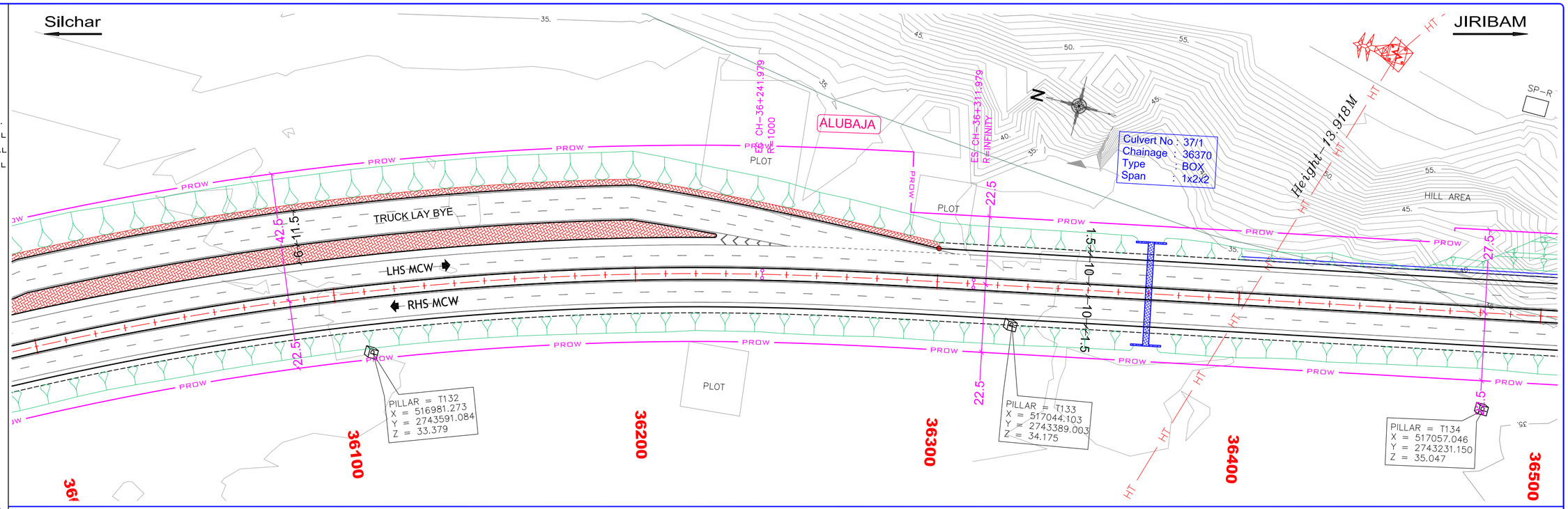
FOOTPATH

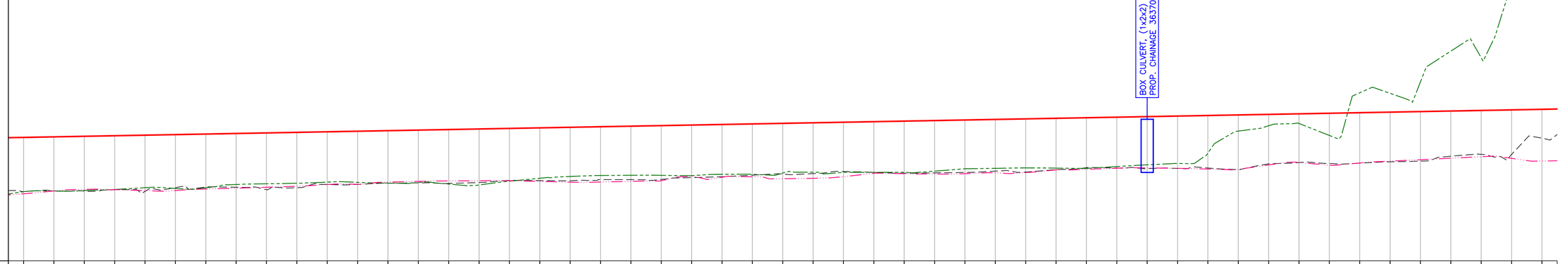
R/WALL RETAINING WALL

PROFILE :

Ver. Tangent Point

FRL of Service Road





Datum : 28.000

| | | |

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.
SP-C : SEMI PUCCA COMM.
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TOE LINE
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C/W EDGE
SH EDGE
TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

Silchar

JIRIBAM

HT

ALUBAJA

PILLAR = T135
X = 517171.786
Y = 2743030.579
Z = 42.049

Jiri River

Structure	Major Bridge
Chainage	36+770
Span (m)	3 x 36
Width (m)	2 x 12.5

Culvert No : 37/2
Chainage : 36920
Type : BOX
Span : 1x3x4

BS CH-36+901.115
R=INFINITY

Nala

Village

BC CH-36+961.115
R=1200

SP-R

3.75

PROW

17.5

27.5

22.5

2.0 9 9 2.0

LHS MCW

RHS MCW

Stone pitching

30.0

WELL

11KV

44KV

36500

36600

36700

36800

36900

37000

PILLAR = T136
X = 517161.902
Y = 2742788.701
Z = 36.183

Jiribam

Structure	SVUP
Chainage	36+940
Span (m)	1x7x4
Width (m)	2 x 11.5

Rev.	Date	Description
R0	15-06-2022	DRAFT DETAILED PROJECT REPORT
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Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Plan & Profile** *(From Ch. 36+500 to Ch. 37+000)*

Size	*Scale*	*Drg. No*	*Rev:*
A2	HOR-1:1000 VER-1:200	**Transys-NH37-P&P-25**	**R2**

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

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SH EDGE
C/W EDGE
MEDIAN
C/W EDGE
SH EDGE
TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

PROFILE :

Ver. Tangent Point

FRL of Service Road

Silchar

JIRIBAM

CHAINAGE=36592.282
LEVEL=38.119

CHAINAGE=36692.282
LEVEL=39.204

MAJOR BRIDGE
SPAN - 3x36 m
CHAINAGE : 36+770

BOX CULVERT, (1x3x4)
PROP. CHAINAGE 36920

SVUP, (1x7x4m)
CHAINAGE : 36940

Datum : 18.000

| | | |

INTERCHANGE (FULL SECTION)
REFER SEPERATE SHEET IN 1:1000 SCALE

Silchar ← | → JIRIBAM

LEGEND :

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CULVERT

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R/WALL RETAINING WALL

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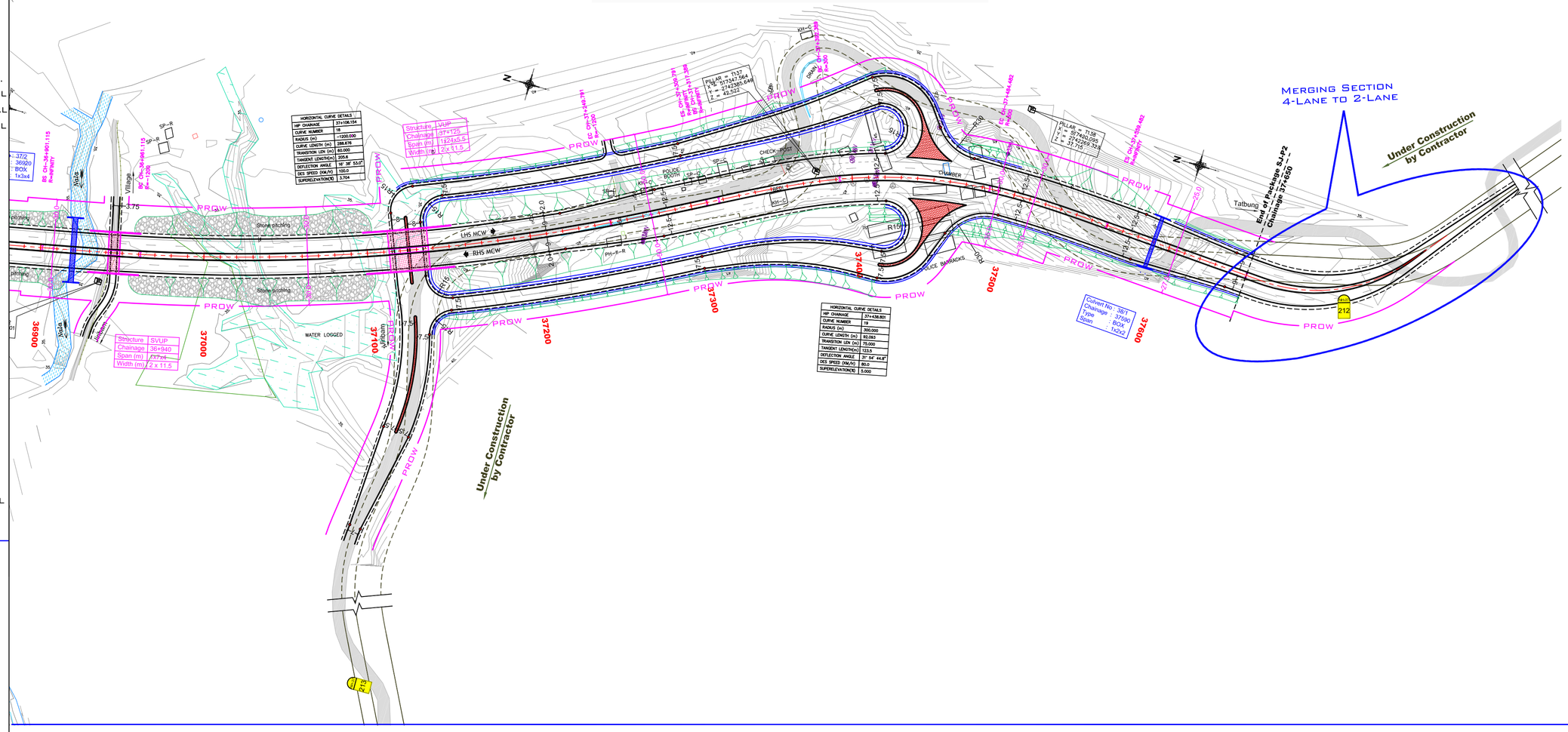
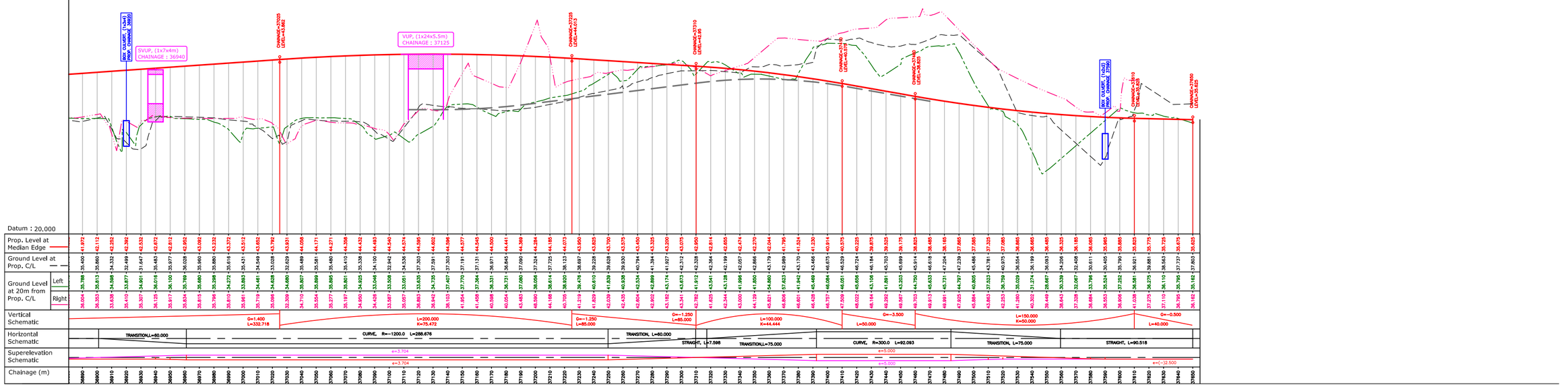
Ver. Tangent Point

FRL of Service Road





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DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Plan & Profile** *(From Ch. 37+500 to Ch. 37+650)*

Size	*Scale*	*Drg. No*	*Rev:*
A2	NTS	**Transys-NH37-P&P- 26**	**R2**

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

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MEDIAN

C/W EDGE

SH EDGE

TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

Silchar

JIRIBAM

N

HORIZONTAL CURVE DETAILS	
HIP CHAINAGE	37+106.154
CURVE NUMBER	18
RADIUS (m)	–1200.000
CURVE LENGTH (m)	288.676
TRANSITION LEN (m)	60.000
TANGENT LENGTH(m)	205.6
DEFLECTION ANGLE	16° 38' 53.0"
DES SPEED (KM/H)	100.0
SUPERELEVATION(%)	3.704

Structure	VUP
Chainage	37+125
Span (m)	1x24x5.5
Width (m)	2 x 11.5

EC CH-37+249.791 R=-1200

ES CH-37+309.791 R=INFINITY

BS CH-37+317.389 R=INFINITY

PILLAR = T137
X = 517347.564
Y = 2742385.649
Z = 42.522

KH-C CH-37+342.389

DRAIN BC CH-37+484.482 R=300

EC CH-37+484.482 R=400

Stone pitching

WATER LOGGED

Jiribam

LHS MCW

RHS MCW

POLICE BOOTH

CHECK-POST

SP-C

KH-C

PH-II-R

BEDI

CHAMBER

POLICE BARRACKS

R15

R30

37000

37100

37200

37300

37400

37500

HORIZONTAL CURVE DETAILS	
HIP CHAINAGE	37+438.801
CURVE NUMBER	19
RADIUS (m)	300.000
CURVE LENGTH (m)	92.093
TRANSITION LEN (m)	75.000
TANGENT LENGTH(m)	123.5
DEFLECTION ANGLE	31° 54' 44.8"
DES SPEED (KM/H)	80.0
SUPERELEVATION(%)	5.000

Under Construction by Contractor

NH-37 213

Rev.	Date	Description
R0	15–06–2022	DRAFT DETAILED PROJECT REPORT
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Authority:

National Highways & Infrastructure Development Corporation Ltd.
(Ministry of Road Transport & Highways)

Design Consultants:

Transys Consulting Pvt. Ltd.
001-004, Raheja chambers, No.12, Museum Road, Bengaluru-560001; Tel: 080-41461995; email: transys_blr@transysconsulting.co.in

Project:

Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)

Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Plan & Profile** *(From Ch. 37+000 to Ch. 37+500)*

Size	*Scale*	*Drg. No*	*Rev:*
A2	HOR–1:1000 VER–1:200	**Transys-NH37-P&P- 26**	**R2**

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.
SP-C : SEMI PUCCA COMM.
P-R : PUCCA RESIDENTIAL
P-C : PUCCA COMMERCIAL
K-R : KUCCA RESIDENTIAL
HUT : HUT

: PEDDY FIELD
: BOUNDARY WALL
: FENCING

ROW — Right of Way

PROPOSED

TOE LINE
SH EDGE
C/W EDGE
MEDIAN
C/W EDGE
SH EDGE
TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

FOOTPATH

R/WALL RETAINING WALL

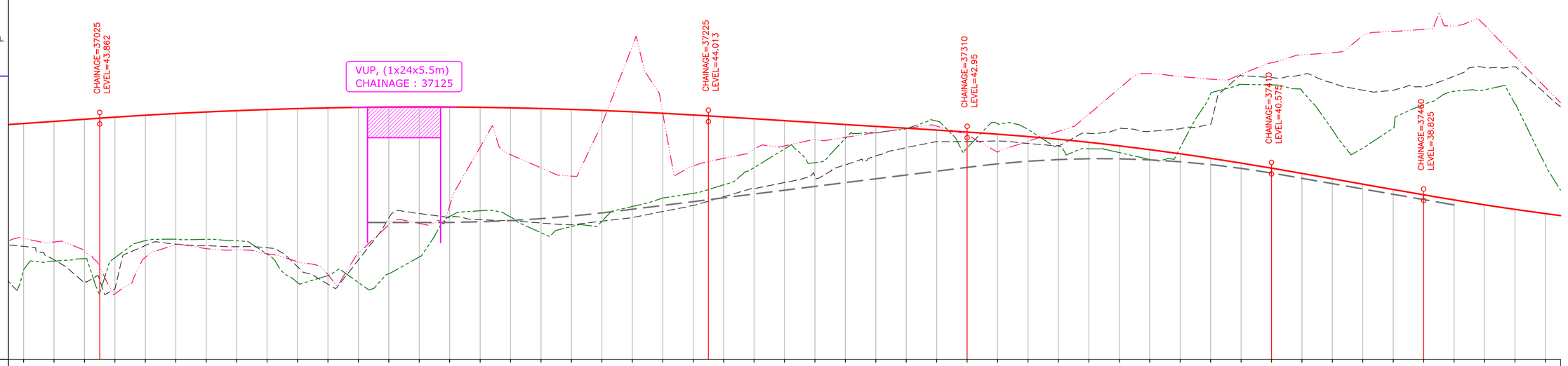
PROFILE :

Ver. Tangent Point

FRL of Service Road

Silchar

JIRIBAM



Datum : 28.000

| | | |

LEGEND :

PLAN :

EXISTING

EXIST. ROAD

SP-R : SEMI PUCCA RESI.

SP-C : SEMI PUCCA COMM.

P-R : PUCCA RESIDENTIAL

P-C : PUCCA COMMERCIAL

K-R : KUCCA RESIDENTIAL

HUT : HUT

: PEDDY FIELD

: BOUNDARY WALL

: FENCING

ROW — Right of Way

PROPOSED

TOE LINE

SH EDGE

C/W EDGE

MEDIAN

C/W EDGE

SH EDGE

TOE LINE

HOR. TANGENT POINT

CULVERT

PROP. DRAIN

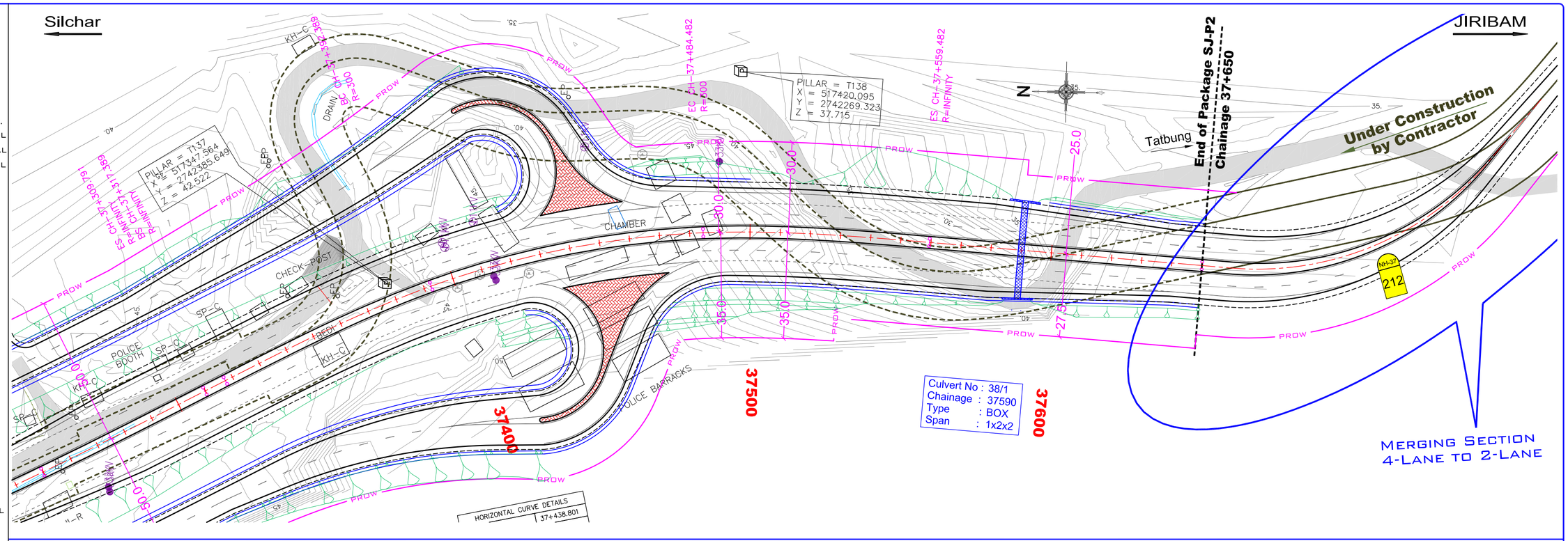
FOOTPATH

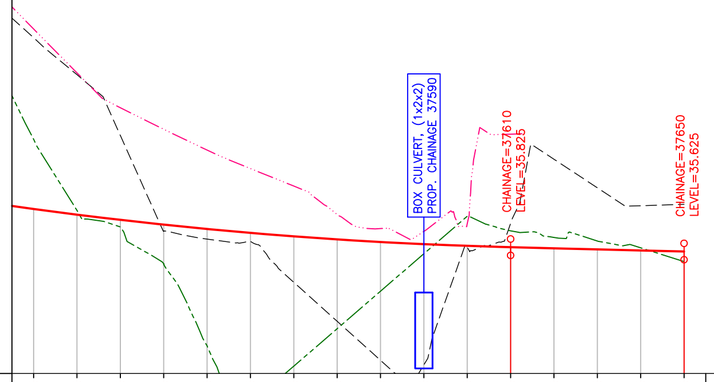
R/WALL RETAINING WALL

PROFILE :

Ver. Tangent Point

FRL of Service Road





Datum : 30.000

		37500	37510	37520	37530	37540	37550	37560	37570	37580	37590	37600	37610	37620	37630	37640	37650
Prop. Level at Median Edge		37.585	37.325	37.085	36.865	36.665	36.485	36.325	36.185	36.065	35.965	35.885	35.825	35.775	35.725	35.675	35.625
Ground Level at Prop. C/L		45.486	43.781	40.975	36.554	36.199	36.093	34.206	32.408	30.611	30.405	35.790	36.921	39.881	38.563	37.737	37.803
Ground Level at 20m from Prop. C/L	Left	40.805	37.523	36.759	35.029	31.274	28.667	30.339	32.067	33.796	35.524	37.252	36.581	36.275	36.110	35.795	35.162
	Right	45.884	43.863	42.253	41.260	40.302	39.449	38.643	37.328	36.684	36.553	36.906	41.038	37.275	37.110	36.795	36.162
Vertical Schematic		L=150.000 K=50.000												G=−0.500 L=40.000			
Horizontal Schematic		TRANSITION, L=75.000										STRAIGHT, L=90.518					
Superelevation Schematic														e=(−)2.500			
Chainage (m)																	

Rev.	Date	Description
R0	15−06−2022	DRAFT DETAILED PROJECT REPORT
R0	21−07−2023	FINAL DETAILED PROJECT REPORT
R1	03−06−2024	FINAL DETAILED PROJECT REPORT
R2	20−11−2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

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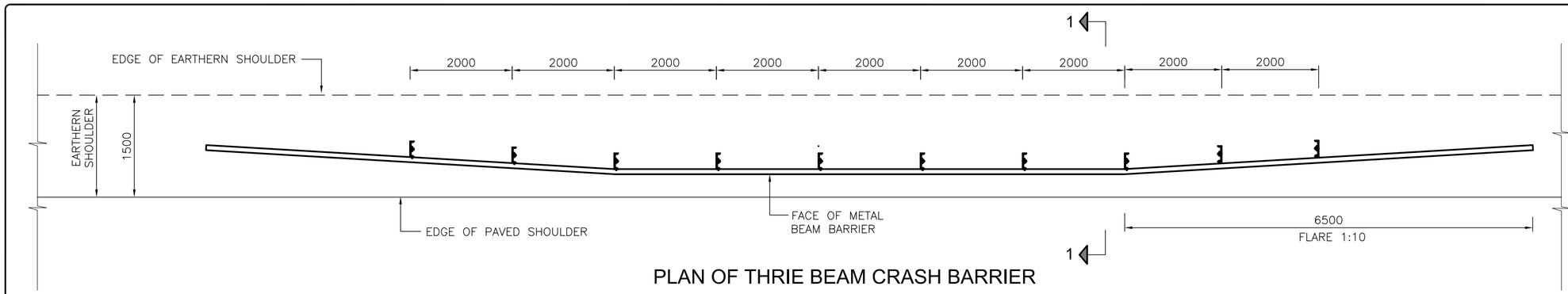
DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

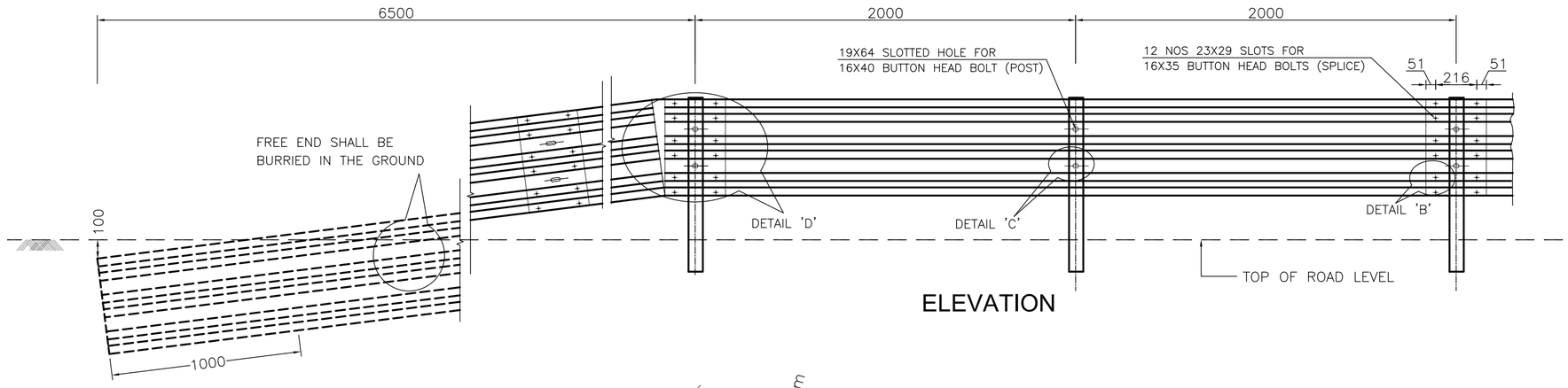
Title: **Plan & Profile** *(From Ch. 37+500 to Ch. 37+650)*

Size	*Scale*	*Drg. No*	*Rev:*
A2	HOR−1:1000 VER−1:200	**Transys-NH37-P&P-27**	**R2**

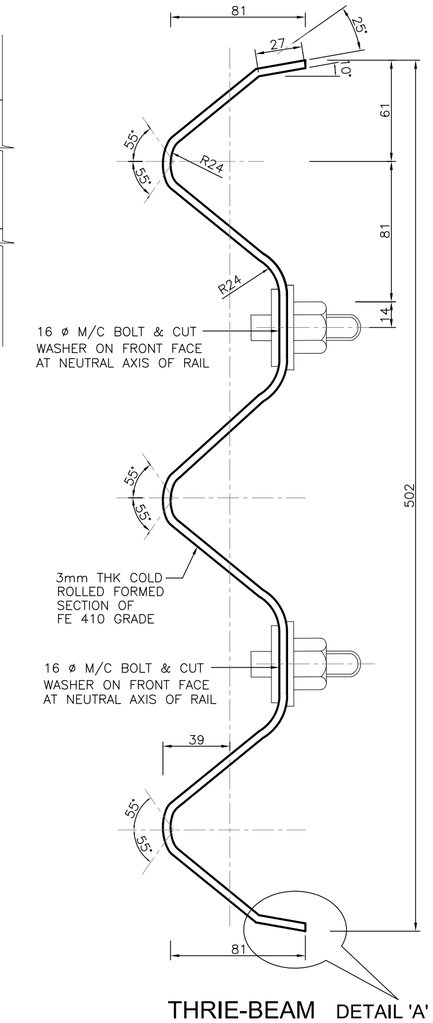
STANDARD DRAWINGS



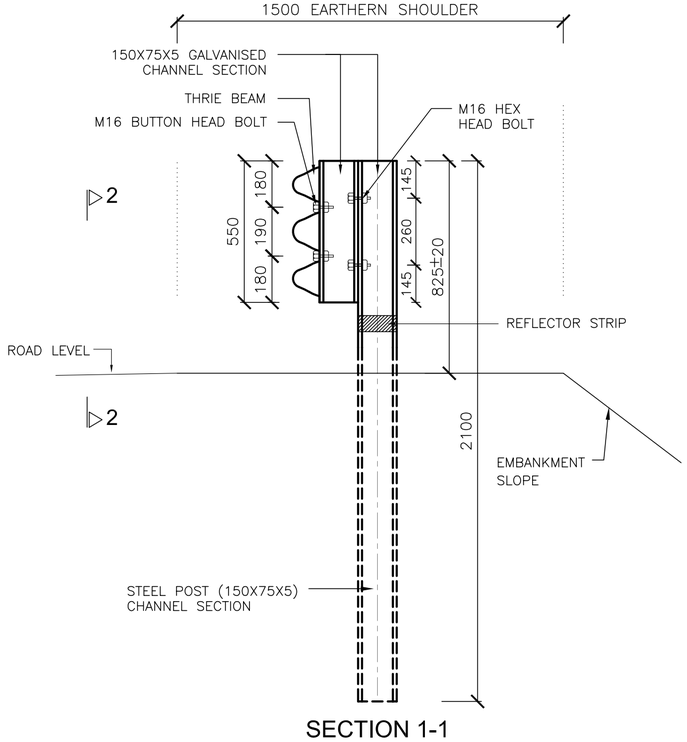
PLAN OF THRIE BEAM CRASH BARRIER



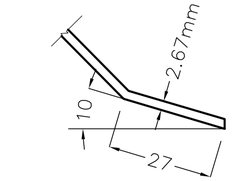
ELEVATION



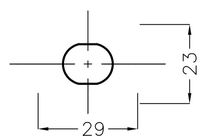
THRIE-BEAM DETAIL 'A'



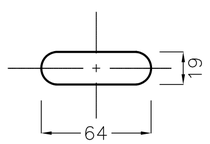
SECTION 1-1



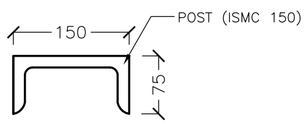
DETAIL 'A'



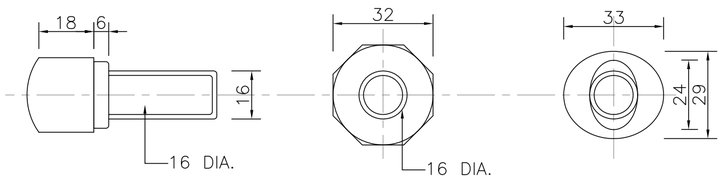
DETAIL 'B'



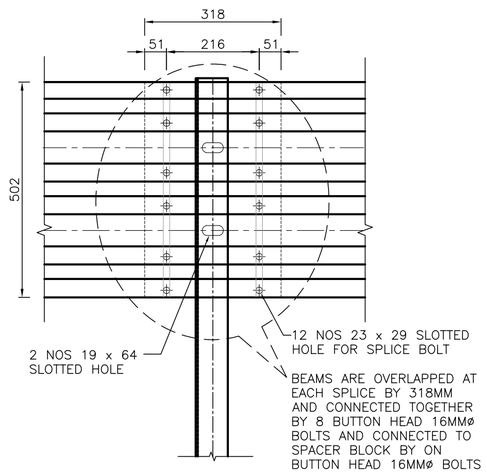
DETAIL 'C'



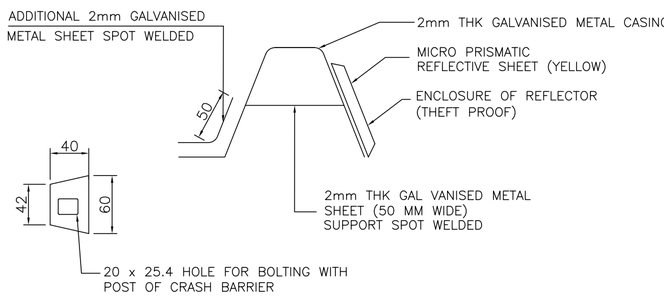
SECTION



SPLICE/POST BOLT & NUT



DETAILS-"D"



NOTES:

1. ALL DIMENSIONS ARE IN 'MM' UNLESS OTHERWISE SPECIFIED
2. THRIE–BEAM SHALL CONFORM TO IS:2062–2006 AND POST, SAPCERS SHALL CONFIRM TO IS 2062–2006
3. WELDING ELECTRODES SHALL CONFIRM TO IS:814
4. BOLTS,NUTS AND WASHERS SHALL BE GALVANISED
5. ALL BOLTS SHALL CONFIRM TO IS:1367 AND IS:1364

Rev.	Date	Description
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DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Typical Details of Thrie Beam Metal Crash Barrier**

Size	*Scale*	*Drg. No*	*Rev:*
A2	NTS	**Transys-NH37-STD-TBCB-01**	**R2**

LEFT HAND CURVE
(Fig no. 15.01)

RIGHT HAND CURVE
(Fig no. 15.02)

RIGHT REVERSE BEND
(Fig no: 15.05)

LEFT REVERSE BEND
(Fig no: 15.06)

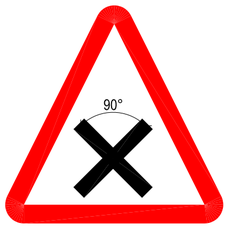
SERIES OF BENDS
(Fig no: 15.07)

SIDE ROAD-RIGHT/LEFT
(Fig no. 15.09/15.10)

' Y ' INTERSECTIONS
(Fig no. 15.11)

' Y ' INTERSECTIONS
(Fig no. 15.12)

' Y ' INTERSECTIONS
(Fig no. 15.13)



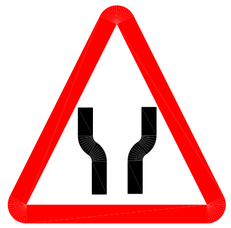
CROSS ROAD
(Fig no. 15.14)

T INTERSECTION
(Fig no. 15.17)

T INTERSECTION
MAJOR ROAD AHEAD
(Fig no. 15.18)

MAJOR ROAD AHEAD
(Fig no. 15.19)

STAGGERED INTERSECTIONS
(Fig no. 15.20 & 15.21)



ROAD WIDENS
(Fig no. 15.24)

NARROW BRIDGE AHEAD
(Fig no: 15.25)

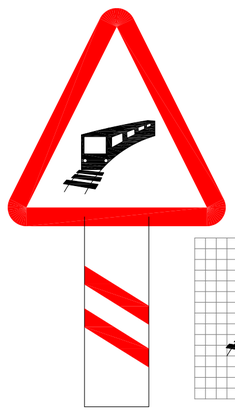
GAP IN MEDIAN
(Fig no. 15.32)

PEDESTRIAN CROSSING
(Fig no. 15.33)

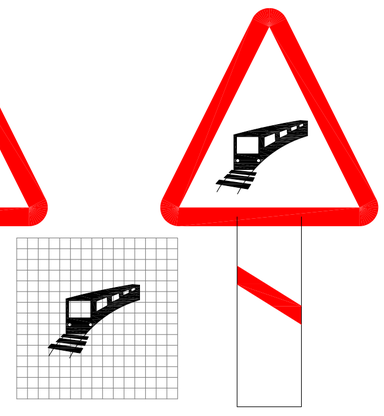
SCHOOL AHEAD
(Fig no: 15.34)

BUILT-UP AREA
(Fig no: 15.35)

SPEED BREAKER
(Fig no: 15.49)

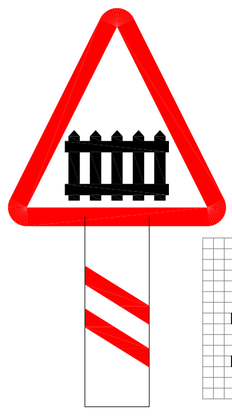


(a) At 200m

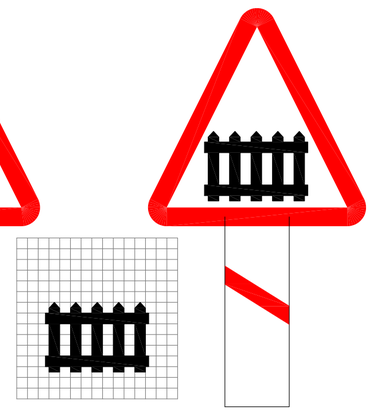


(b) At 50-100 m (plain/Rolling)
At 30-60 m (Hill)

UNGUARDED RAILWAY CROSSING
(Fig no: 15.70)

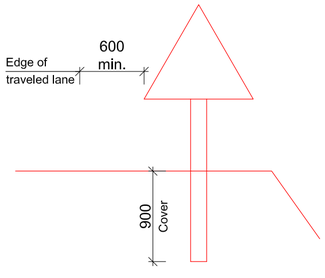


(a) At 200m



(b) At 50-100 m (plain/Rolling)
At 30-60 m (Hill)

GUARDED RAILWAY CROSSING
(Fig no: 15.71)



SIGN LAYOUT

Sr	Type of Access road	Cautionary or warning signs				
		Size	Side (mm)	Border (mm)	Clear visibility distances (m)	Distance of sign from hazard (m)
1	VR	Small	600	45	45	45
2	ODR	Medium	750	60	60	45-110
3	SH/MDR	Normal	900	70	60	110-180
4	NH	Large	1200	90	90	180-245

Notes:
1. All dimensions are in mm unless otherwise specified.
2. Material of signage's shall be in accordance to clause 6.0 of IRC 67:2012.
3. Sitting of traffic sign shall be as per table 4.1 & fig. no. 4.1 of IRC 67:2012.
4. For details of cantilever & overhead gantry sign refer separate drawings.
5. Location of signage's shall be confirmed by approving Authority prior to execution.

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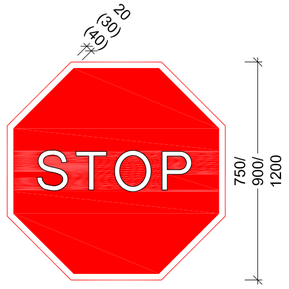
DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

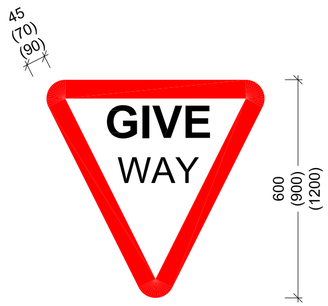
FINAL DETAILED PROJECT REPORT

Title: **TYPICAL DETAIL OF TRAFFIC SIGNS**

Size	*Scale*	*Drg. No*	*Rev:*
A2	As shown	**Transys-NH37-STD-RS & RM-01**	**R2**

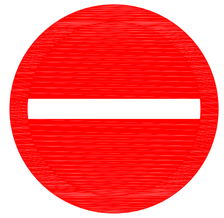


STOP SIGN
(Fig no: 14.01)

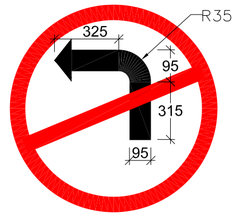


GIVE WAY
(Fig no: 14.02)

HORN PROHIBITED
(Fig no: 14.18)



NO ENTRY
(Fig no: 14.19)

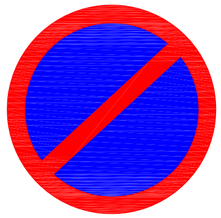


LEFT TURN PROHIBITED
(Fig no: 14.21)

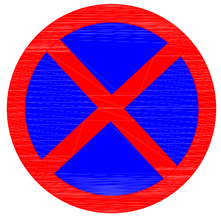
RIGHT TURN PROHIBITED
(Fig no: 14.22)

OVER TAKING PROHIBITED
(Fig no: 14.23)

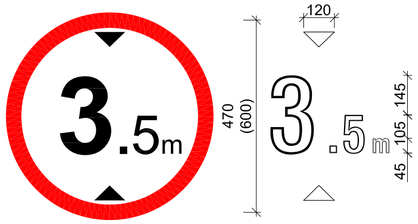
U-TURN PROHIBITED
(Fig no: 14.24)



NO STANDING
(Fig no: 14.27)

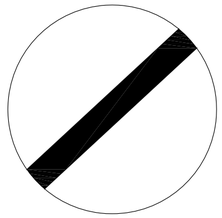


NO STOPPING AND NO STANDING
(Fig no: 14.28)

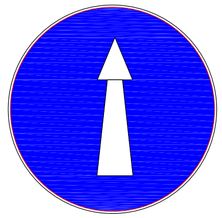


HEIGHT LIMIT
(Fig no: 14.33)

SPEED LIMIT
(Fig no: 14.37)

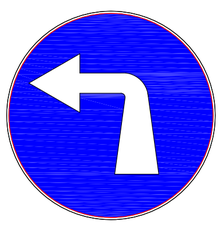


RESTRICTION END
(Fig no: 14.40)

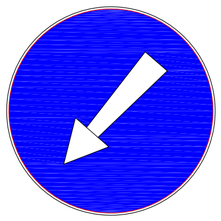


COMPULSORY AHEAD
(Fig no: 14.41)

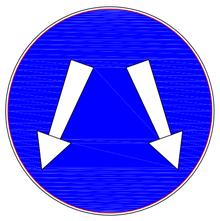
COMPULSORY TURN RIGHT
(Fig no: 14.46)



COMPULSORY TURN LEFT
(Fig no: 14.47)



COMPULSORY KEEP LEFT
(Fig no: 14.48)



PASS EITHER SIDE
(Fig no: 14.50)

Sl. No.	Description	Shape	Color		
			Background	Symbol/Arrow /Letters	Border
1	Cautionary/ Warning Sign	Triangular	White	Black	Red
2	Mandatory/ Regulatory Sign (Indicate prohibition)	Circular	White	Black	Red (Circular Ring & Diagonal Bars)
3	Mandatory Sign (Giving positive instructions)	Circular	Blue	White	-
4	Mandatory Sign (Exceptions - STOP SIGN)	Octagonal	Red	White	White
5	Mandatory Sign (Exceptions - GIVE WAY)	Equilateral Triangular	White	Black	Red

Sr No.	Type of Access road	Size	Regulatory / Mandatory Signs			
			Diameter (mm)	Border (mm)	Oblique Bar (mm)	Font Size (mm)
1	VR/ODR	Small	600	50	50	100
2	MDR	Medium	750	60	60	125
3	NH/SH	Normal	900	75	75	150

Notes:
1. All dimensions are in mm unless otherwise specified.
2. Material of signage's shall be in accordance to clause 6.0 of IRC 67:2012.
3. Sitting of traffic sign shall be as per table 4.1 & fig. no. 4.1 of IRC 67:2012.
4. For details of cantilever & overhead gantry sign refer separate drawings.
5. Location of signage's shall be confirmed by approving Authority prior to execution.

Rev.	Date	Description
R0	15-06-2022	DRAFT DETAILED PROJECT REPORT
R0	21-07-2023	FINAL DETAILED PROJECT REPORT
R1	03-06-2024	FINAL DETAILED PROJECT REPORT
R2	20-11-2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

Authority:
National Highways & Infrastructure Development Corporation Ltd.
(Ministry of Road Transport & Highways)

Design Consultants:
Transys Consulting Pvt. Ltd.
001-004, Raheja chambers, No.12, Museum Road, Bengaluru-560001; Tel: 080-41461995; email: transys_blr@transysconsulting.co.in

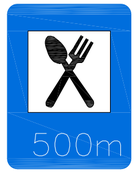
Project:
Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)
Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **TYPICAL DETAIL OF TRAFFIC SIGNS**

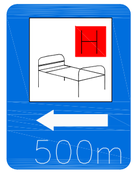
Size	*Scale*	*Drg. No*	*Rev:*
A2	As shown	**Transys-NH37-STD-RS & RM-02**	**R2**



EATING PLACE
(Hotel)
(Fig no: 17.01)

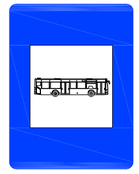
RESTING PLACE
(Fig no: 17.03)

FILLING STATION
(Fuel Pump)
(Fig no: 17.06)



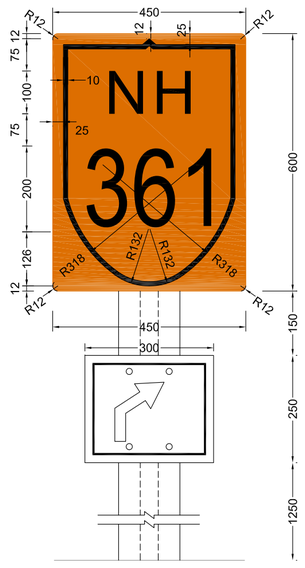
HOSPITAL
(Fig no: 17.07)

POLICE STATION
(Fig no: 17.13)

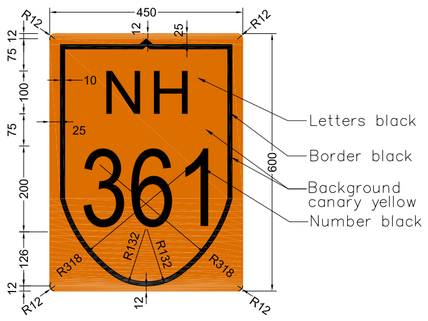


BUS STOP
(Fig no: 17.35)

FACILITY INFORMATION SIGNS (Size :- 600 X 450)



ROUTE MARKER SIGN



ROUTE MARKER SIGN
(Fig no: 20.02)

Notes:
1. All dimensions are in mm unless otherwise specified.
2. Material of signage's shall be in accordance to clause 6.0 of IRC 67:2012.
3. Sitting of traffic sign shall be as per table 4.1 & fig. no. 4.1 of IRC 67:2012.
4. For details of cantilever & overhead gantry sign refer separate drawings.
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(Ministry of Road Transport & Highways)

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001-004, Raheja chambers, No.12, Museum Road, Bengaluru-560001; Tel: 080-41461995; email: transys_blr@transysconsulting.co.in

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Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

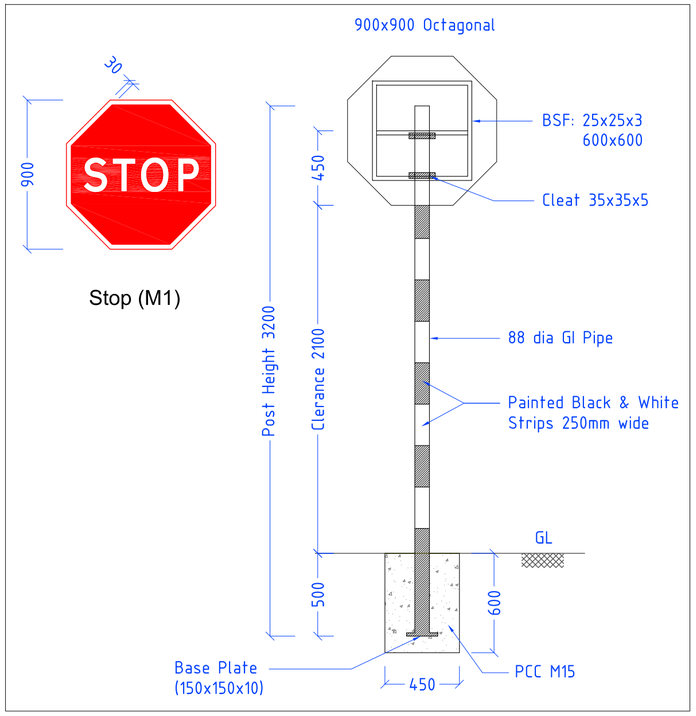
DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

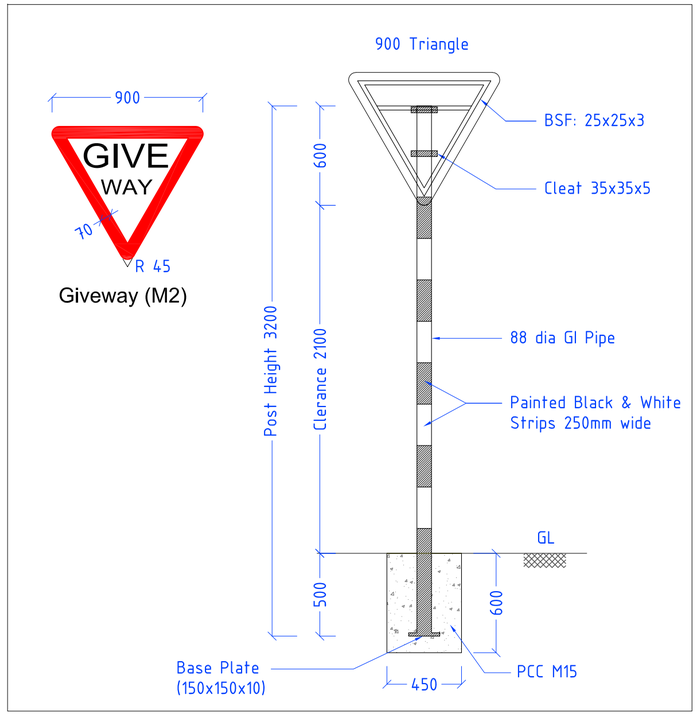
Title: **TYPICAL DETAIL OF TRAFFIC SIGNS**

Size	*Scale*	*Drg. No*	*Rev:*
A2	NTS	**Transys-NH37-STD-RS & RM-01**	**R2**

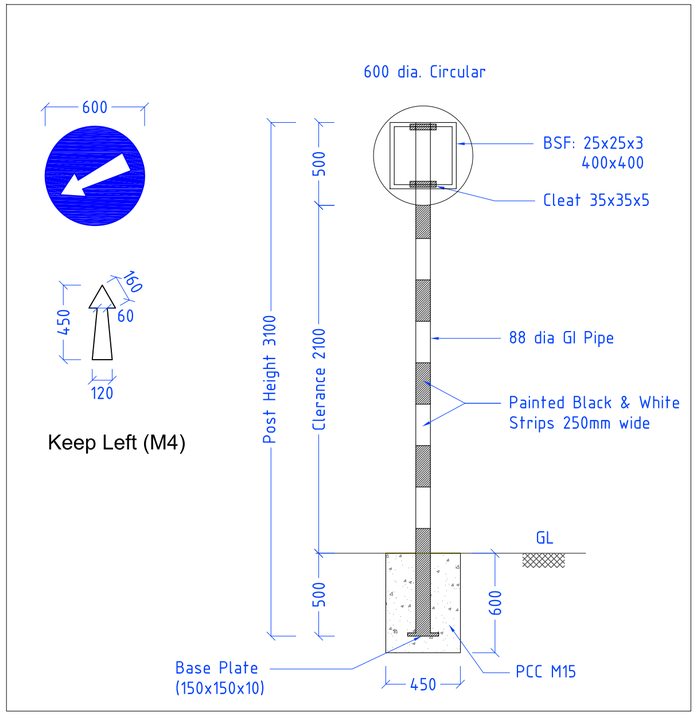
MANDATORY/REGULATORY SIGNS



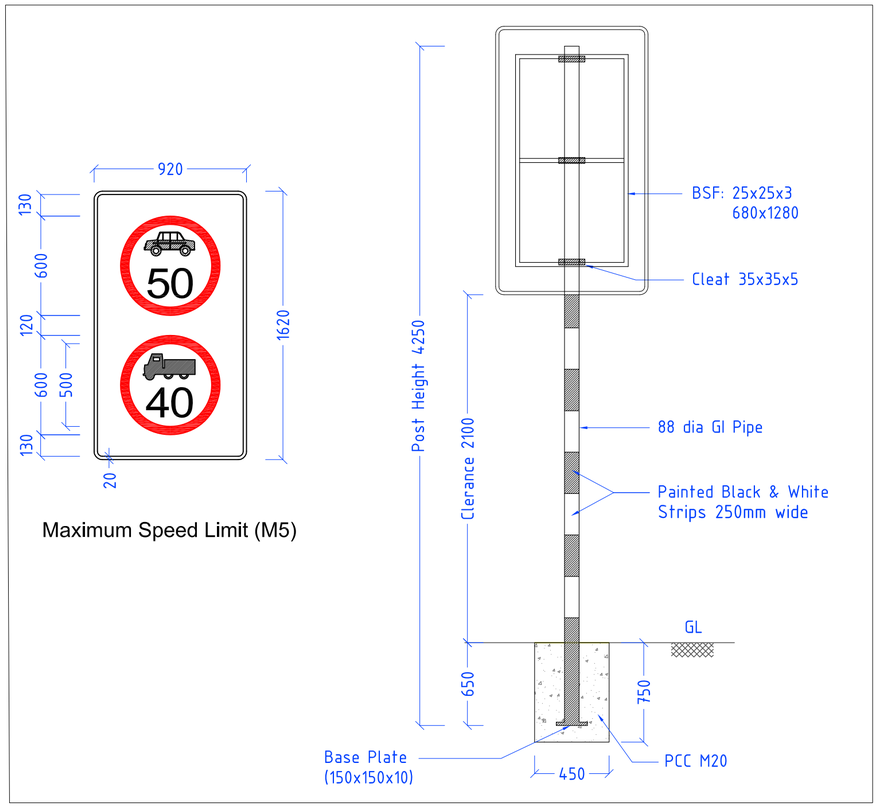
Stop (M1)



Giveway (M2)



Keep Left (M4)



Maximum Speed Limit (M5)

NOTES:

1. All Dimensions are in millimetres unless otherwise stated.
2. Location of signs may be modified as per site condition conforming to IRC 67-2010.
3. The road signs shall be so placed that the drives can recognize them easily and in time. Normally signs shall be placed on the left hand side of the road. Vertical height from bottom of sign to road level shall be as per drawing. The signs shall normally be placed at right angles to the line of travel of the approaching traffic in other cases shall be according to IRC-67:2012
4. All road signs shall be of retro-reflective type and made of high intensity grade sheeting fixed over aluminum sheet vide Clause 801.3 of MoSRTH specifications
5. Signs shall be supported on GI pipes and the fixing & foundation details are as per clause 7.1, 7.2, 7.3 & 7.4 of IRC-67:2012 Details to be furnished by manufacturer & approved by engineer.
6. Sign with an area up to 0.90 Sqm. shall be mounted on a single post, and for greater area two or more supports shall be provided, All components of signs and supports shall be thoroughly desealed, cleaned, primed & painted with two coats of epoxy paint. Any part of mild steel below ground shall be painted with three coats of Red Lead paint.

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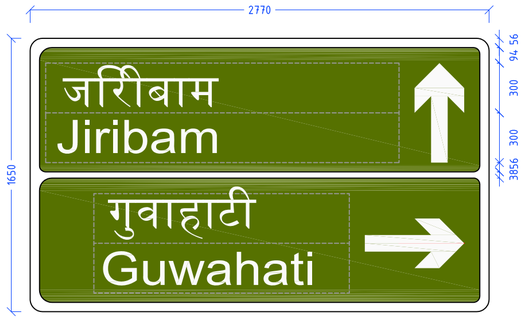
DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Typical details of Road Signs & Road Markings**

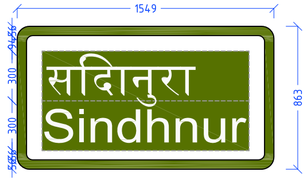
Size	*Scale*	*Drg. No*	*Rev:*
A2	NTS	Transys-NH37-STD-RS & RM-01	R2

INFORMATORY SIGNS

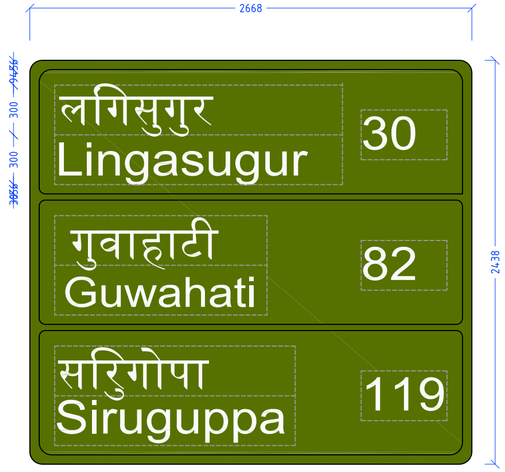


Advance Direction/Destination (I1)

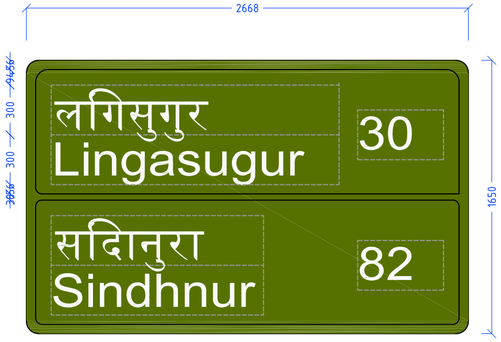
Direction Sign (I2)



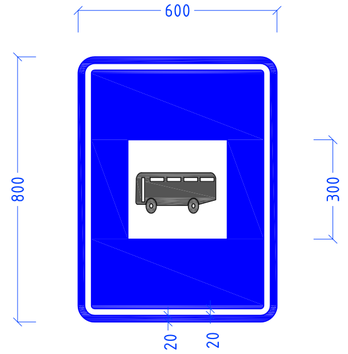
Place Identification Sign (I3)



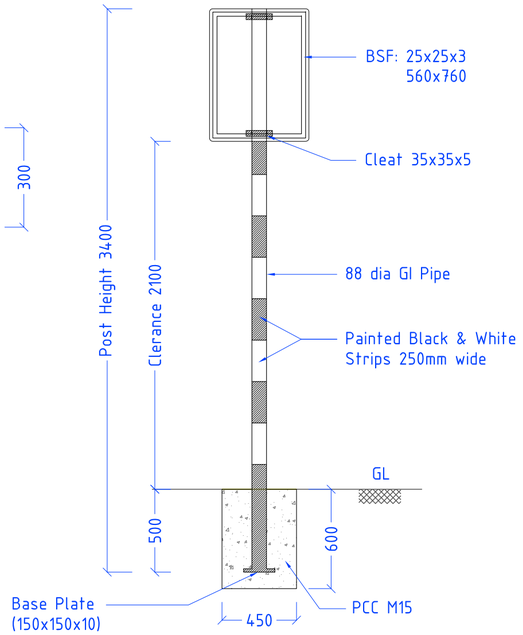
Reassurance Sign (I4)

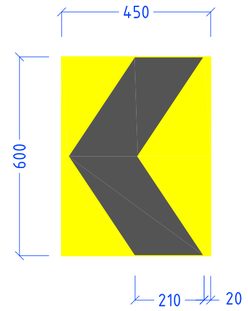


Reassurance Sign (I4a)

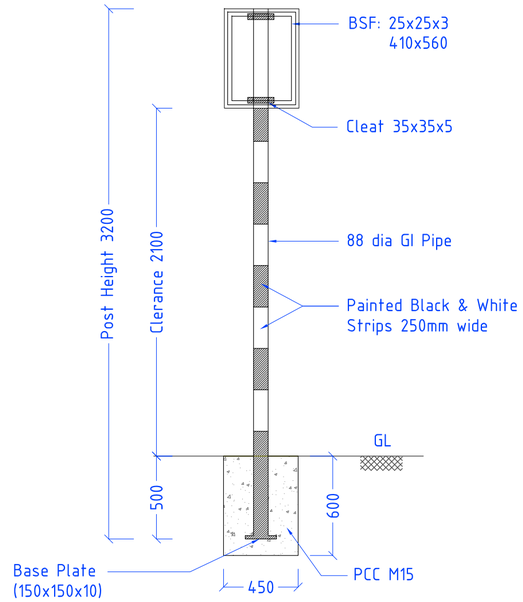


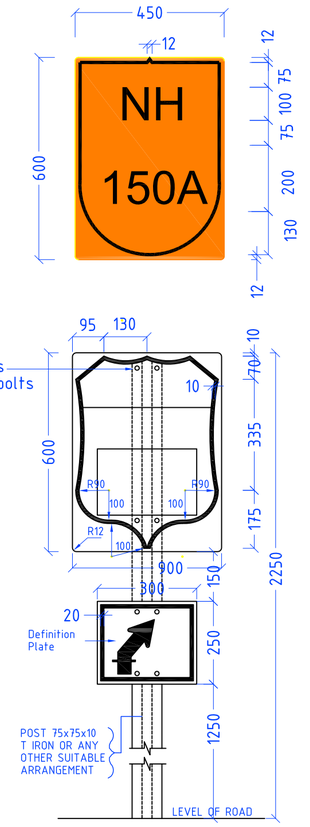
Bus Stop (I5)





Chevron Signs (I7)





Route Marker Sign (I8)

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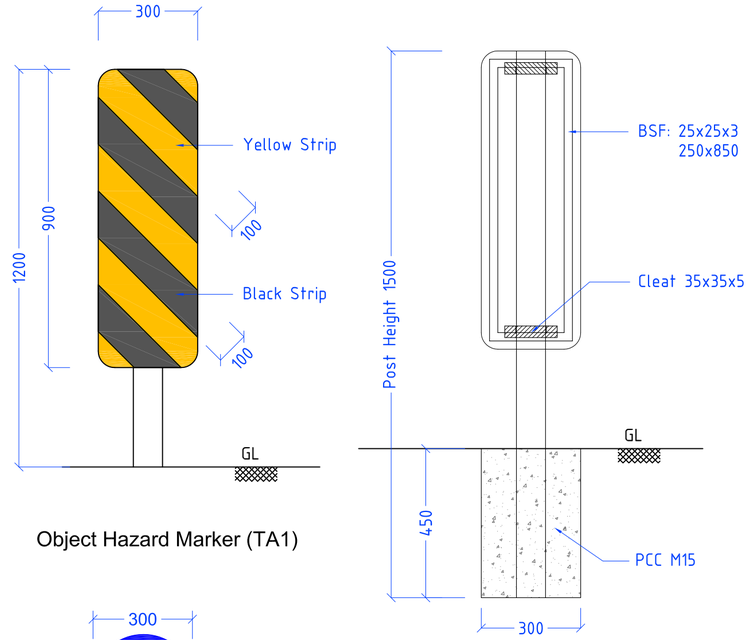
DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

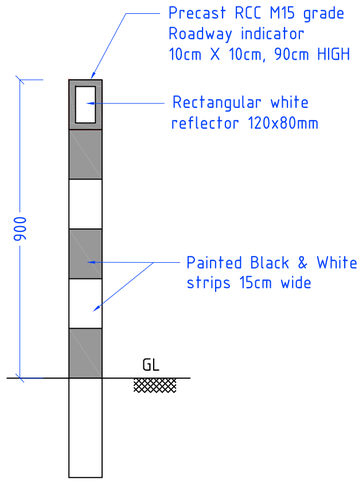
Title: **Typical details of Road Signs & Road Markings**

Size	*Scale*	*Drg. No*	*Rev:*
A2	NTS	Transys-NH37-STD-RS & RM-03	**R2**

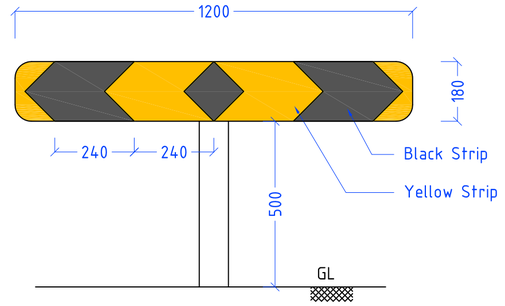
HAZARD MARKER SIGNS



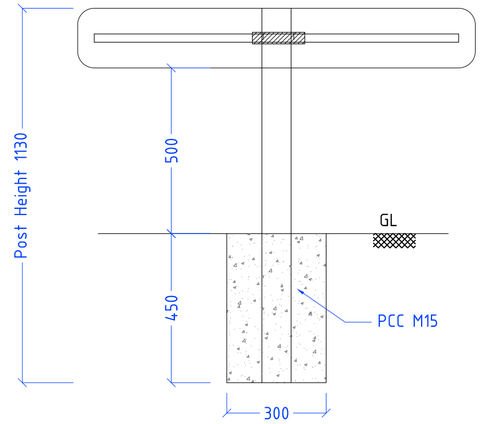
Object Hazard Marker (TA1)



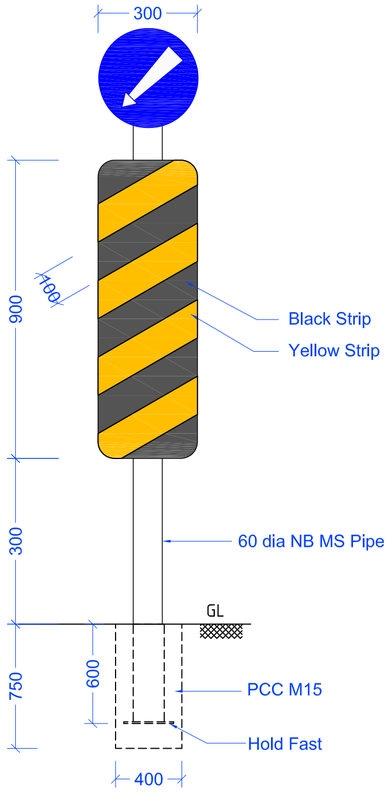
Roadway Indicator (TA1)



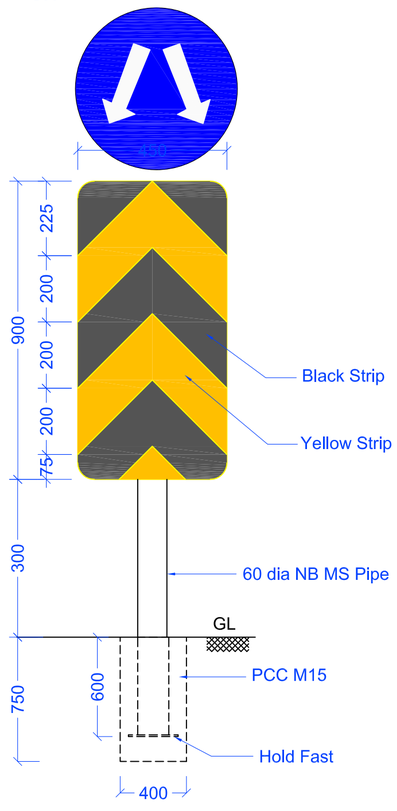
Oneway Hazard Marker (TA3)



SIGN	SHAPE	COLOUR			DIMENSION	
		BORDER	BACKGROUND	SYMBOL		
WARNING	Equilateral Triangle with apex pointing Upwards	Red Reflective	White Reflective	Black	Side Corner Border	= 900 mm = 45 mm Radius = 70 mm
MANDATORY / REGULATORY	Genarally Circular but for Stop Sign octagonal and Traingular for Give Way Sign	Red Reflective	White Reflective	Arrows : Black Band : Red	Dia Border Bend Dia Border Bend Octagon Side Border Triangular Side Border	= 600 mm = 65 mm = 60 mm = 900 mm = 65 mm = 70 mm = 370 mm = 30 mm = 900 mm = 70 mm
INFORMATORY	Rectangular with longer side vertical	Blue Reflective	White Reflective	Black or Red Reflective	Over all Central Square	= 800x600 mm = 400x600mm
DIRECTION	Rectangular with longer side Horizondal	White Reflective	Green Reflective	White	Size Varies Border	= 50 mm

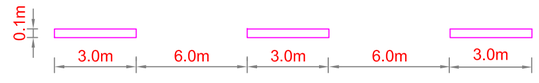


Keep left Hazard Marker (TA2A)

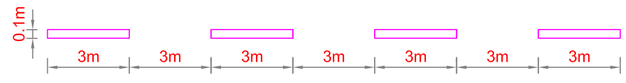


Two Way Hazard Marker (TA3)

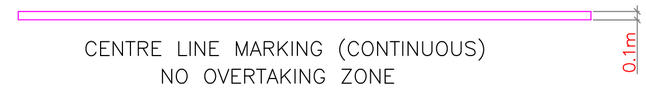
ROAD MARKING:



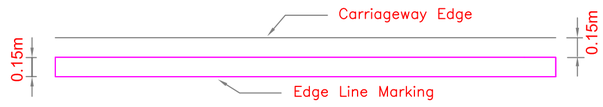
CENTRE LINE MARKING ON STRAIGHTS



CENTER LINE MARKING (ON CURVES)
AND INTERSECTION APPROACHES (RURAL)



CENTRE LINE MARKING (CONTINUOUS)
NO OVERTAKING ZONE



EDGE LINE MARKING

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DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

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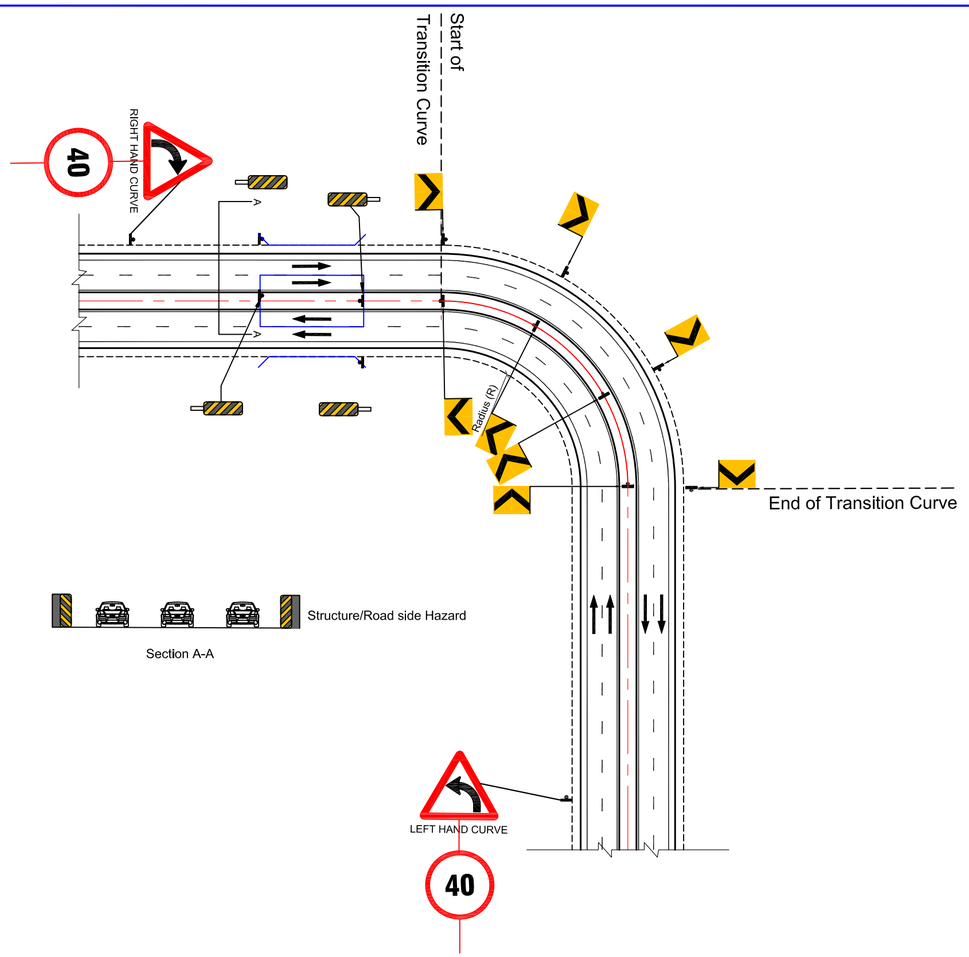
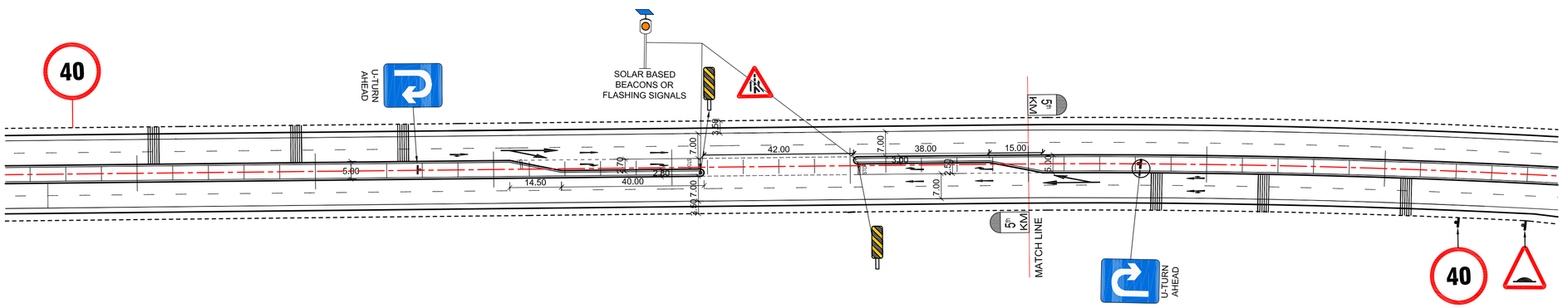
A2	NTS	Transys-NH37-STD-RS & RM-04	R2



TYPICAL LAYOUT OF SIGN PLAN FOR CURVE DELINEATION OF A DIVIDED HIGHWAY USING SERIES OF SINGLE CHEVRON AND OTHER ASSOCIATED SIGNS



TYPICAL LAYOUT OF SIGN PLAN FOR U TURN LOCATION

Rev.	Date	Description
R0	15-06-2022	DRAFT DETAILED PROJECT REPORT
R0	21-07-2023	FINAL DETAILED PROJECT REPORT
R1	03-06-2024	FINAL DETAILED PROJECT REPORT
R2	20-11-2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

Authority:
National Highways & Infrastructure Development Corporation Ltd.
(Ministry of Road Transport & Highways)

Design Consultants:
Transys Consulting Pvt. Ltd.
001-004, Raheja chambers, No.12, Museum Road, Bengaluru-560001; Tel: 080-41461995; email: transys_blr@transysconsulting.co.in

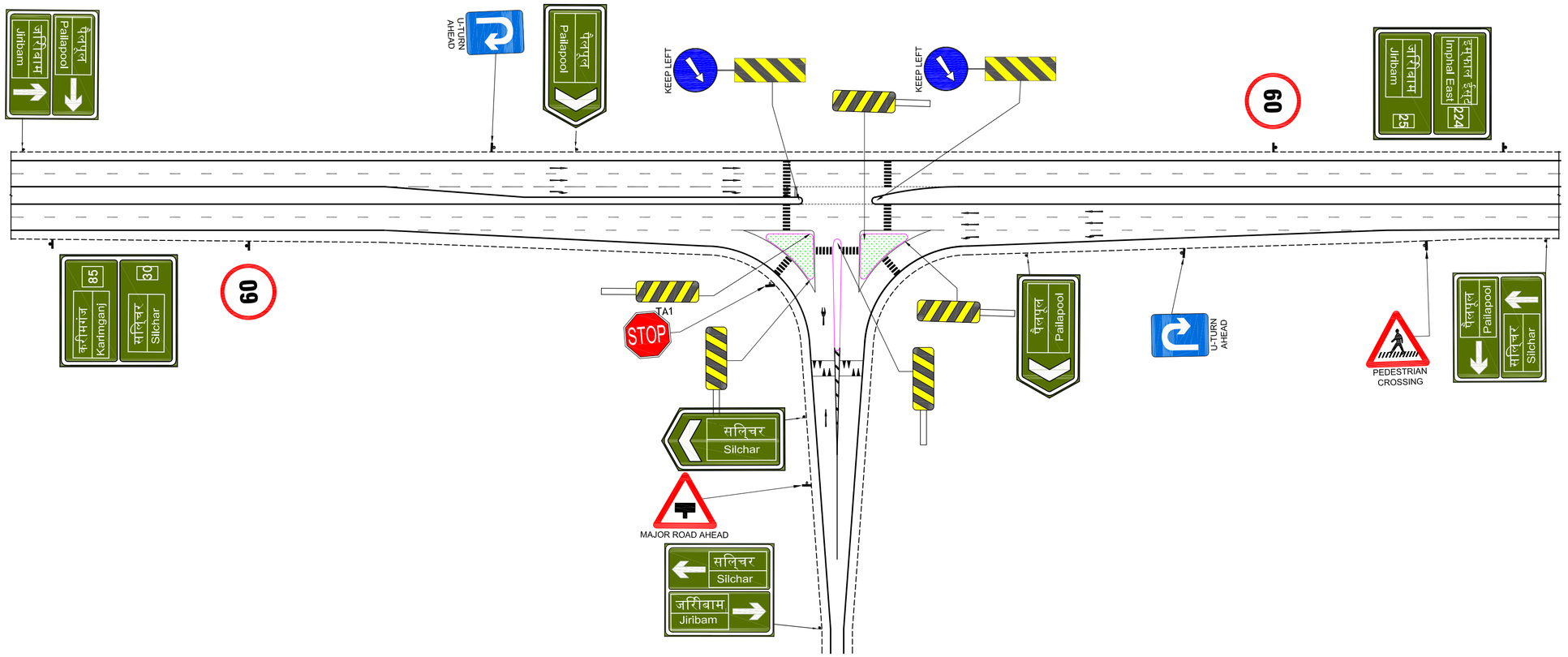
Project:
Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)
Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

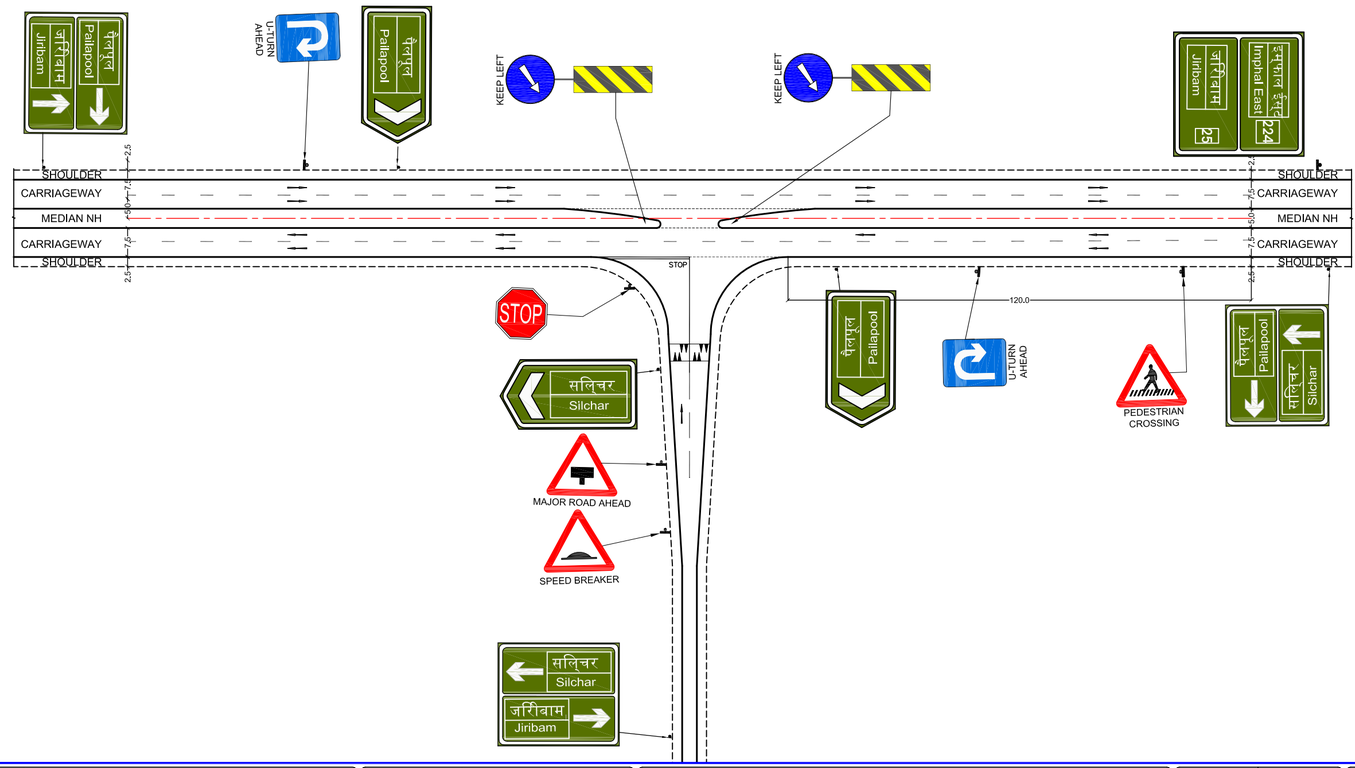
DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **TYPICAL DETAIL OF TRAFFIC SIGNS (Junction)**

Size	*Scale*	*Drg. No*	*Rev:*
A2	NTS	Transys-NH37-STD-Junction-03	R2





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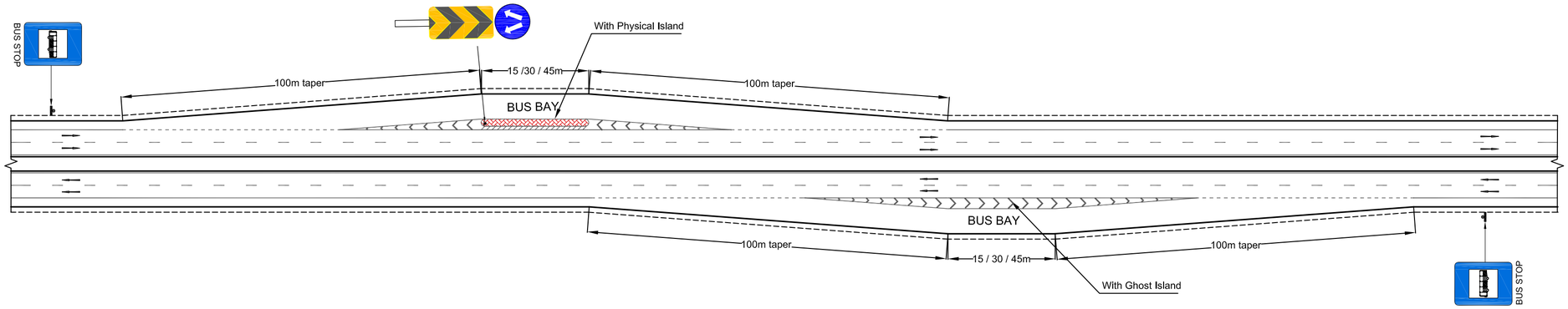
DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

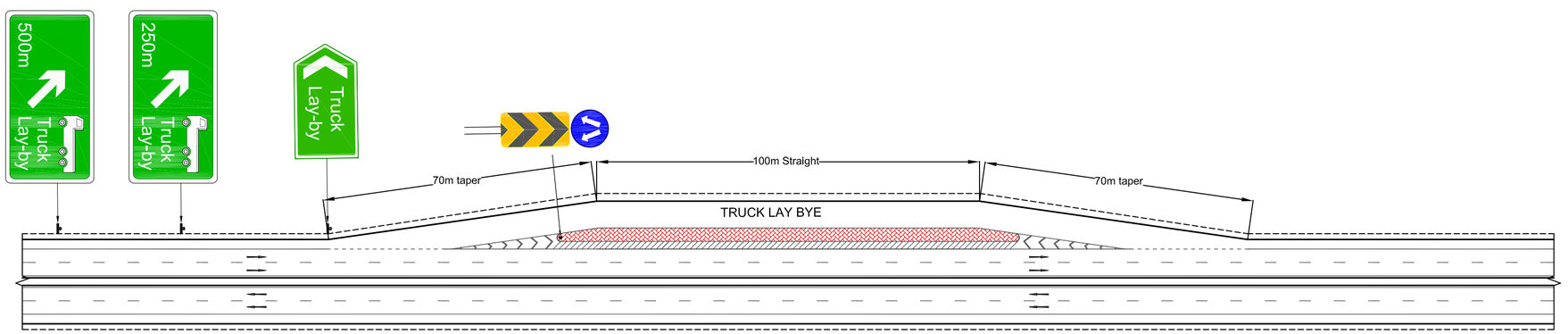
Title: **TYPICAL DETAILS OF MAJOR & MINOR JUNCTION**

Size	*Scale*	*Drg. No*	*Rev:*
A2	NTS	**Transys-NH37-STD-MNJ & MRJ-01**	**R2**

TYPICAL DETAILS OF BUS BAY & TRUCK LAY BYE



TYPICAL DETAILS OF BUS BAY



TYPICAL DETAILS OF TRUCK LAY BYE

Rev.	Date	Description
R0	15-06-2022	DRAFT DETAILED PROJECT REPORT
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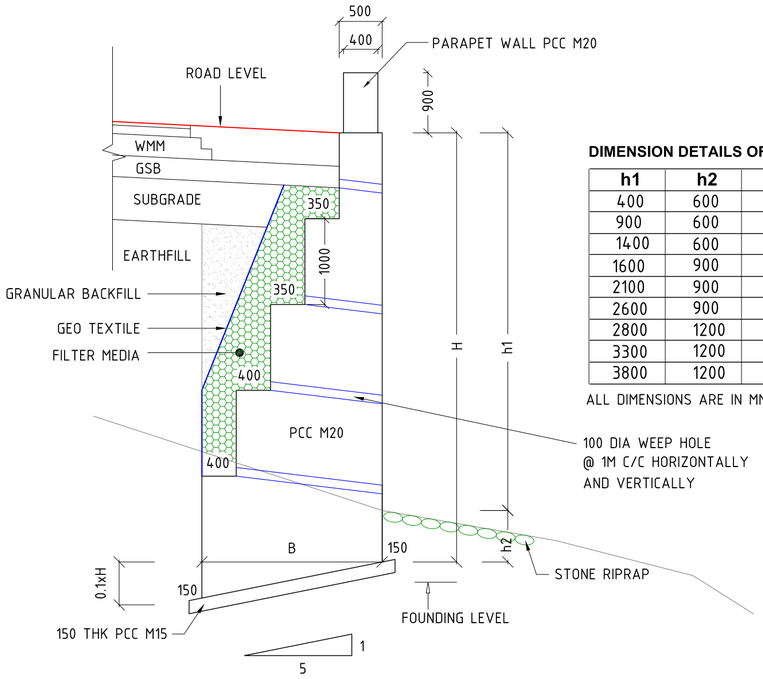
DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **TYPICAL DETAILS OF BUS BAY & TRUCK LAY BYE**

Size	*Scale*	*Drg. No*	*Rev:*
A2	NTS	Transys-NH37-STD-BB & TLB-01	R2

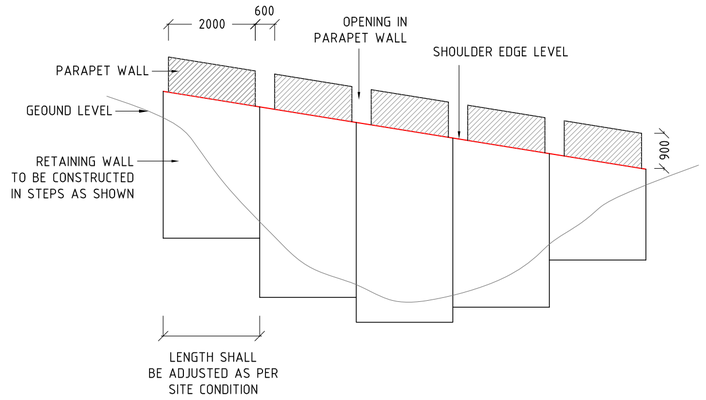


PCC Retaining Wall

DIMENSION DETAILS OF PCC RETAINING WALL

h1	h2	H	h3 (1.1 x H)	B
400	600	1000	1100	500
900	600	1500	1650	850
1400	600	2000	2200	850
1600	900	2500	2750	1200
2100	900	3000	3300	1200
2600	900	3500	3850	1600
2800	1200	4000	4400	1600
3300	1200	4500	4950	2000
3800	1200	5000	5500	2000

ALL DIMENSIONS ARE IN MM

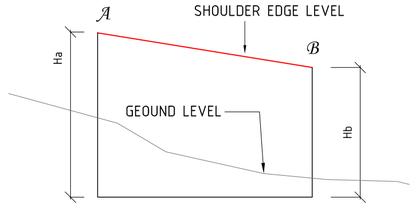


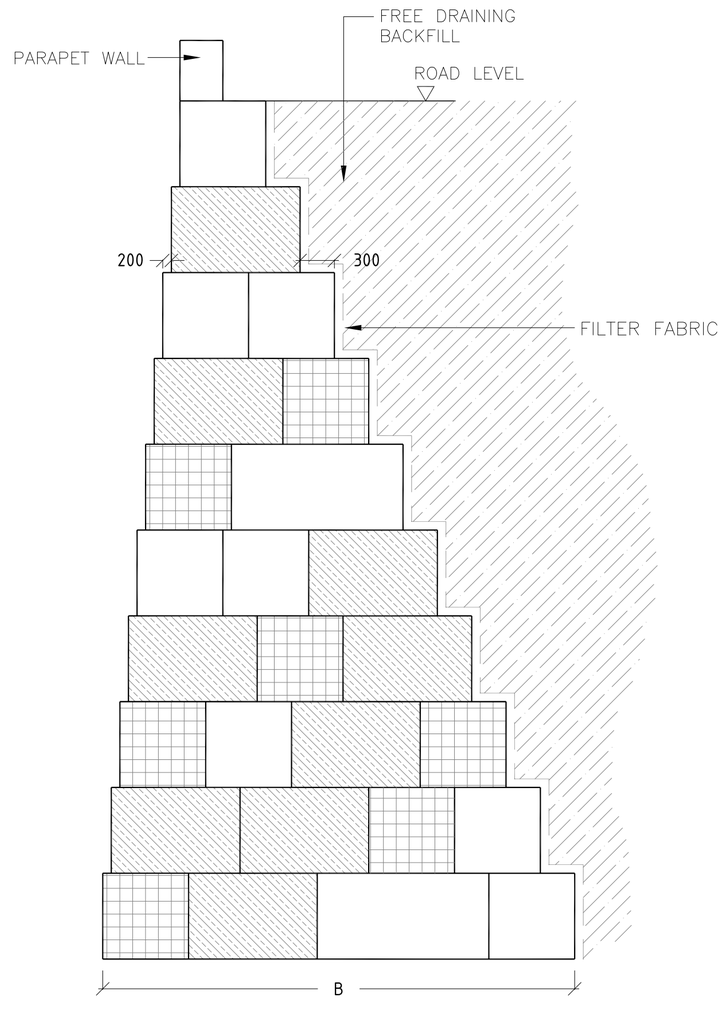
Schematic Arrangement of Retaining Walls in Longitudinal Direction

NOTES:

1. ALL DIMENSIONS ARE IN 'MILLIMETERS' UNLESS NOTED OTHERWISE.
2. DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. 100 DIA WEEP HOLES WITH SLOPE 1 IN 20 SHALL BE PROVIDED AT SPACING OF 1000 C/C BOTH HORIZONTALY AND VERTICALLY (STAGGERED) IN FULL HEIGHT OF THE RETAINING WALL WITH BOTTOM MOST ROW 150mm ABOVE G.L.
4. BACK FILLING AND FILTER MEDIA BEHIND THE RETAINING WALL SHALL BE PROVIDED WITH SELECTED EARTH CONFORMING TO APPENDIX 6 OF IRC:78-2000 HAVING PROPERTIES ϕ =35° , C=0
5. THE FOUNDATION LEVEL FOR A SEGMENT OF RETAINING WALL SHALL BE DETERMINED AS FOLLOWS.
   a) LET THE RETAINING WALL IS TO BE CAST BETWEEN POINTS A & B AS SHOWN INTHE FIG. BELOW:
   b) DETERMINE THE HEIGHTS Ha and Hb RESPECTIVELY
   c) FOUNDING LVL AT A = GL - FOUNDN DEPTH REQ. AT A
      FOUNDING LEVL AT B = GL - FOUNDN DEPTH REQ. AT B

THE MINIMUM OF THE FOUNDING LEVEL (WITH MAXIMUM FOUNDATION DEPTH) OBTAINED ABOVE SHALL BE CONSIDERED AS THE FOUNDATION LEVEL OF THE SEGMENT OF RETAINING WALL UNDER CONSIDERATION





Gabion Retaining Wall

KEY TO GABION SIZES

0.5mx0.5x1m		1.5mx1mx1m	
1mx1mx1.5m		2mx1mx1m	
1mx1mx2m			

BASE WIDTHS

Wall height (H)M	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Base width (B)m	1.5	2.0	2.5	3.5	4.0	5.0	5.5	6.5	7.5	8.5	9.0	10.0	11.0	12.0

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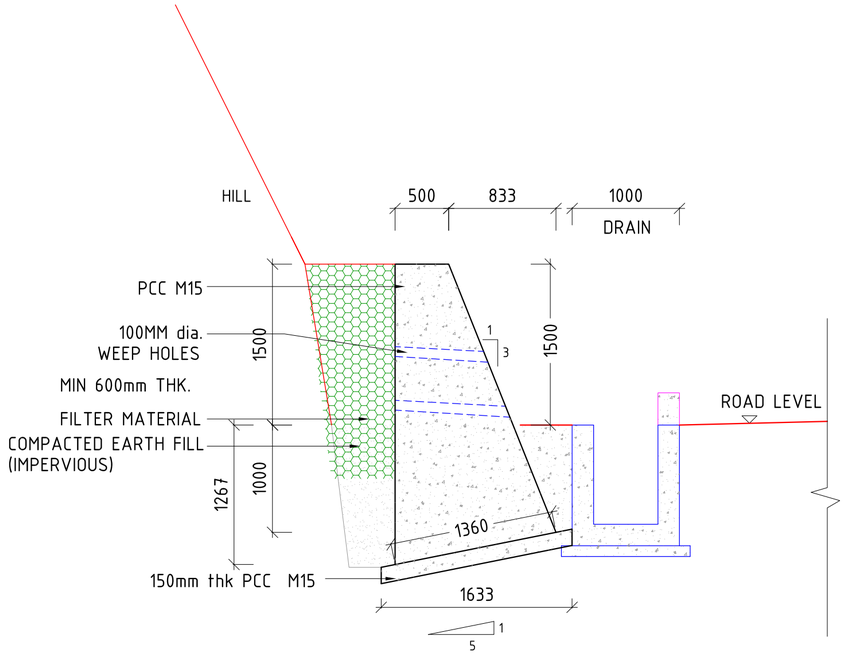
Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

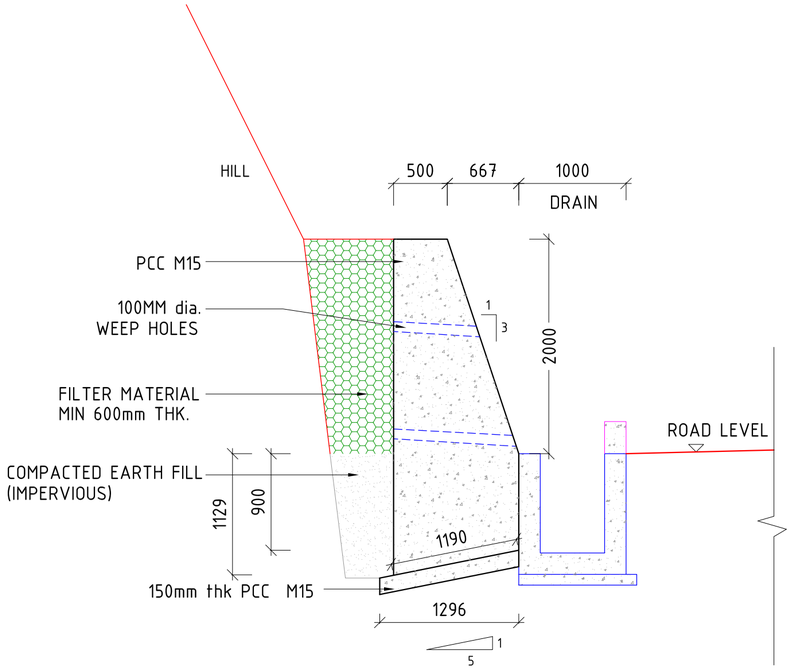
FINAL DETAILED PROJECT REPORT

Title: **Typlcal Detalls of Retalnlng Wall**

Size	*Scale*	*Drg. No*	*Rev:*
A2	NTS	Transys-NH37-STD-RW-01	**R2**



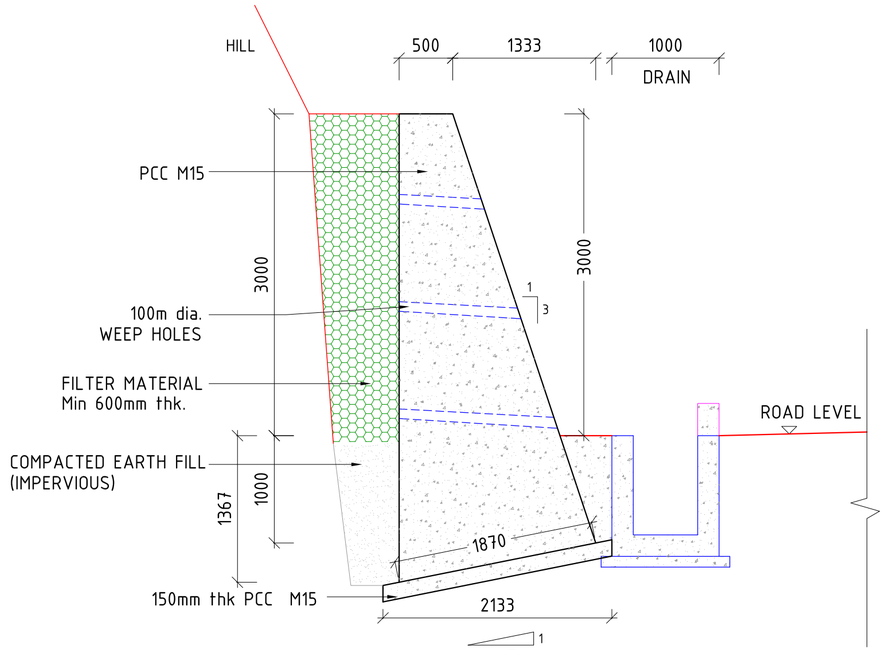
Breast Wall (1.5M Height)



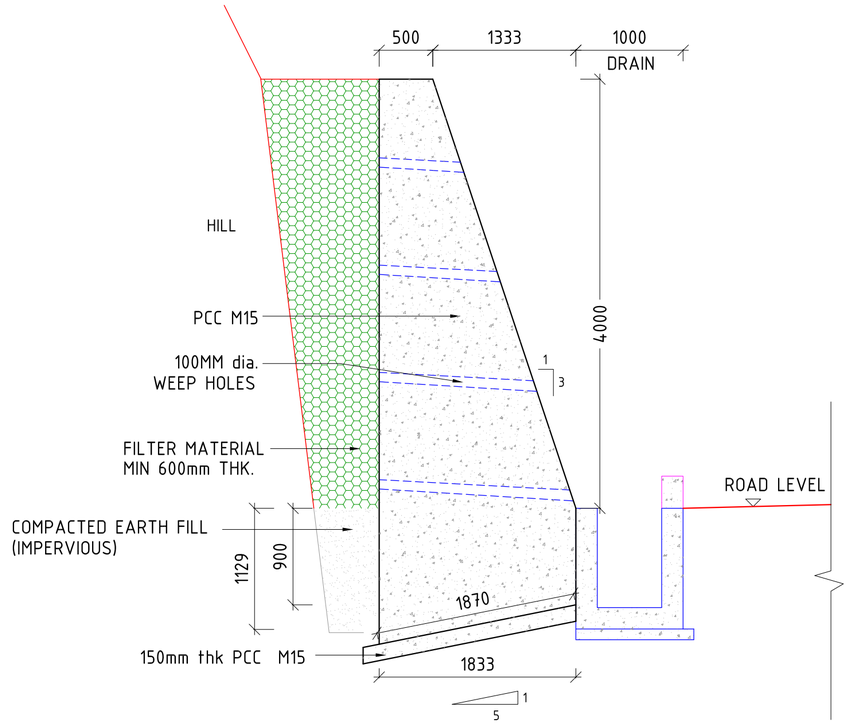
PCC Breast Wall (2.0M Height)

NOTES:

1. ALL DIMENSIONS ARE IN 'MILLIMETERS' UNLESS NOTED OTHERWISE. DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
2. ALL WORKS SHALL CONFIRM TO SECTION 2500 "SPECIFICATIONS FOR ROAD AND BRIDGE WORKS" FIFTH REVISION.
3. THE LINE AND SHAPE OF BREAST WALL SHALL GENERALLY FOLLOW THAT OF THE ROAD.
4. IF HARD ROCK STRATA IS ENCOUNTERED IN THE FOUNDATION, DEPTH OF FOUNDATION MAY BE REDUCED, STEPPED AS PER SITE CONDITION.
5. BACK FILLING TO BREAST WALL INCLUDING FILTER MEDIA SHALL BE DONE IN COMPACTED LAYERS IN ACCORDANCE WITH CLAUSE 304.3.7 OF THE TECHNICAL SPECIFICATIONS AND BROUGHT UP PROGRESSIVELY AS THE WALL IS RAISED. BACK FILLING AFTER FULL HEIGHT OF WALL IS REACHED SHALL NOT BE DONE.



Breast Wall (3M Height)



PCC Breast Wall (4.0M Height)

NOTES:

1. ALL DIMENSIONS ARE IN 'MILLIMETERS' UNLESS NOTED OTHERWISE. DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
2. ALL WORKS SHALL CONFIRM TO SECTION 2500 "SPECIFICATIONS FOR ROAD AND BRIDGE WORKS" FIFTH REVISION.
3. STONE FILL FOR GABION WALLS SHALL BE CLEAN ROUGH QUARRY STONE. INDIVIDUAL PIECES OF STONE SHALL HAVE LEAST DIMENSIONS NOT LESS THAN 150MM AND GRATEST DIMENSION NOT MORE THAN 650MM.
4. STONES SHALL BE HAND–PACKED. PACKING SHALL BE SUCH THAT THE STONES ARE WELL INTERLOCKED WITH MINIMUM VOIDS AND LEAST DISORTION TO THE SIDES OF THE CRATES. ON THE EXPOSED SIDE OF CRATES, SELECTED STONES WITH ONE FACE SUBSTANTIALLY FLAT SHALL BE USED. THE FLAT FACE SHALL ABUT THE EXPOSED SIDE TO ENSURE A NEAT APPERANCE OF THE SIDE WHEN THE CRATES ARE FULLY FILLED.
5. THERE SHALL BE NO CONTINUOUS HORIZONTAL OR VERTICAL JOINTS BETWEEN ADJACENT ROWS OF GABION CRATES.
6. THE FLEXIBLE WIRE MESH SHALL BE HEXAGONAL WOVEN MESH WITH JOINTS FORMED BY TRIPLE–TWIST.
7. ALL WIRES SHALL BE MADE OF HOT DIPPED GALVANIZED MILD STEEL WIRE HAVING MINIMUM TENSILE STRENGTH 350 Mpa CONFORMING TOO IS:280
8. EACH GABION SHALL HAVE DIAPHRAGMS AT EVERY 1000M INTERVAL.

Rev.	Date	Description
R0	15–06–2022	DRAFT DETAILED PROJECT REPORT
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Authority:

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Project:

Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)

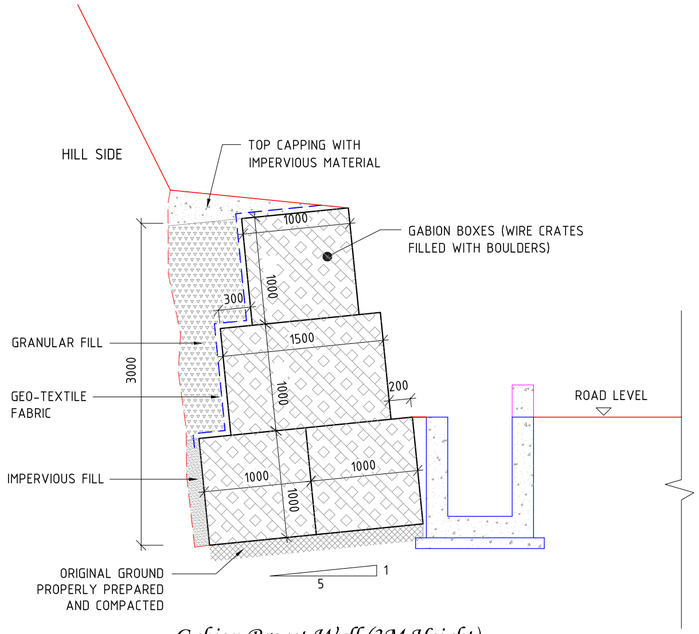
Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

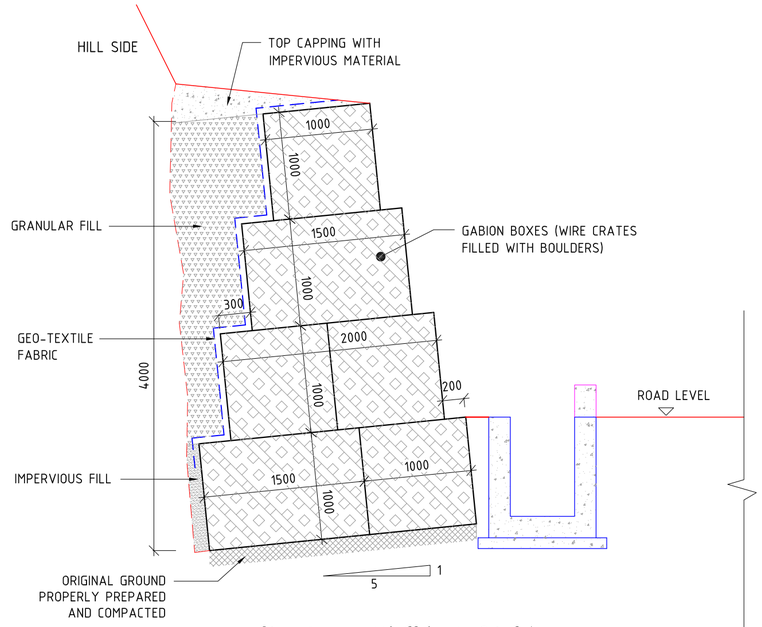
FINAL DETAILED PROJECT REPORT

Title: **Typical Details of Breast Wall**

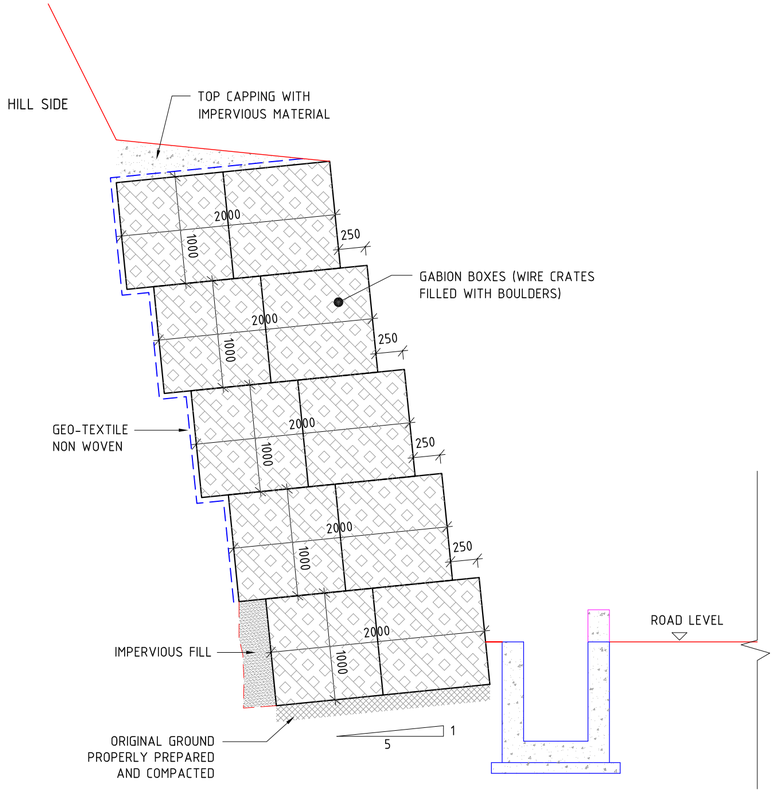
Size	*Scale*	*Drg. No*	*Rev:*
A2	NTS	**Transys-NH37-STD-BW-01**	**R2**



Gabion Breast Wall (3M Height)



Gabion Breast Wall (4M Height)



Gabion Breast Wall (Maximum 8M Height)

NOTES:

1. ALL DIMENSIONS ARE IN 'MILLIMETERS' UNLESS NOTED OTHERWISE. DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
2. ALL WORKS SHALL CONFIRM TO SECTION 2500 "SPECIFICATIONS FOR ROAD AND BRIDGE WORKS" FIFTH REVISION.
3. THE LINE AND SHAPE OF BREAST WALL SHALL GENERALLY FOLLOW THAT OF THE ROAD.
4. IF HARD ROCK STRATA IS ENCOUNTERED IN THE FOUNDATION, DEPTH OF FOUNDATION MAY BE REDUCED, STEPPED AS PER SITE CONDITION.
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6. THE FLEXIBLE WIRE MESH SHALL BE HEXAGONAL WOVEN MESH WITH JOINTS FORMED BY TRIPLE–TWIST.
7. ALL WIRES SHALL BE MADE OF HOT DIPPED GALVANIZED MILD STEEL WIRE HAVING MINIMUM TENSILE STRENGTH 350 Mpa CONFORMING TOO IS:280
8. EACH GABION SHALL HAVE DIAPHRAGMS AT EVERY 1000M INTERVAL.

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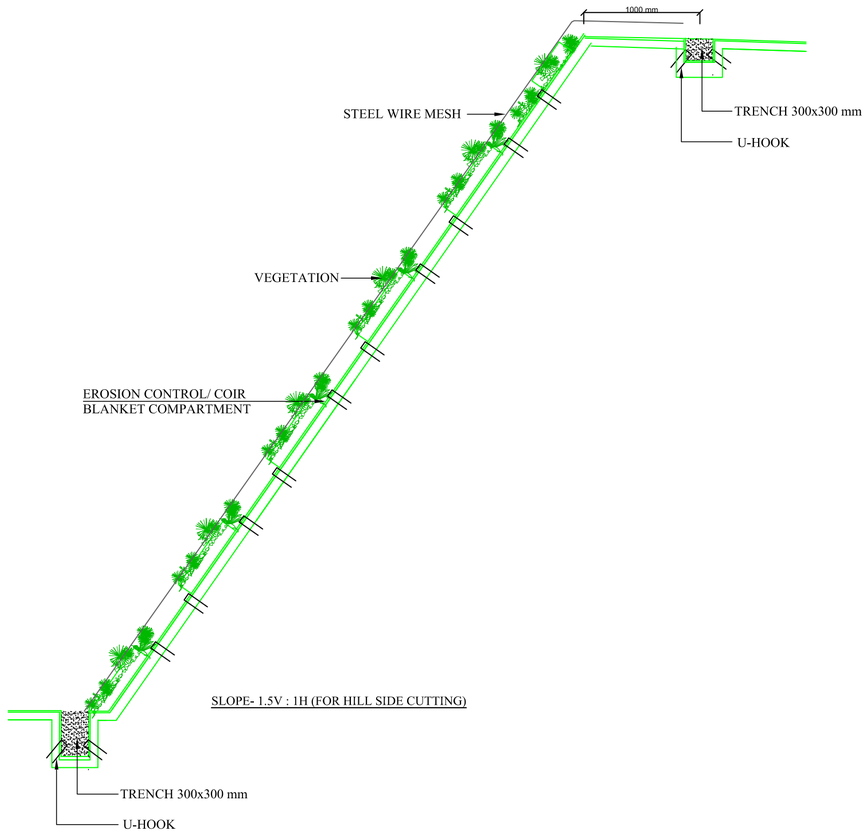
DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Typical Details of Breast Wall**

Size	*Scale*	*Drg. No*	*Rev:*
A2	NTS	**Transys-NH37-STD-BW-02**	**R2**



Hill side cut slope protection using Erosion Control Blankets Compartment System

Rev.	Date	Description
R0	15-06-2022	DRAFT DETAILED PROJECT REPORT
R0	21-07-2023	FINAL DETAILED PROJECT REPORT
R1	03-06-2024	FINAL DETAILED PROJECT REPORT
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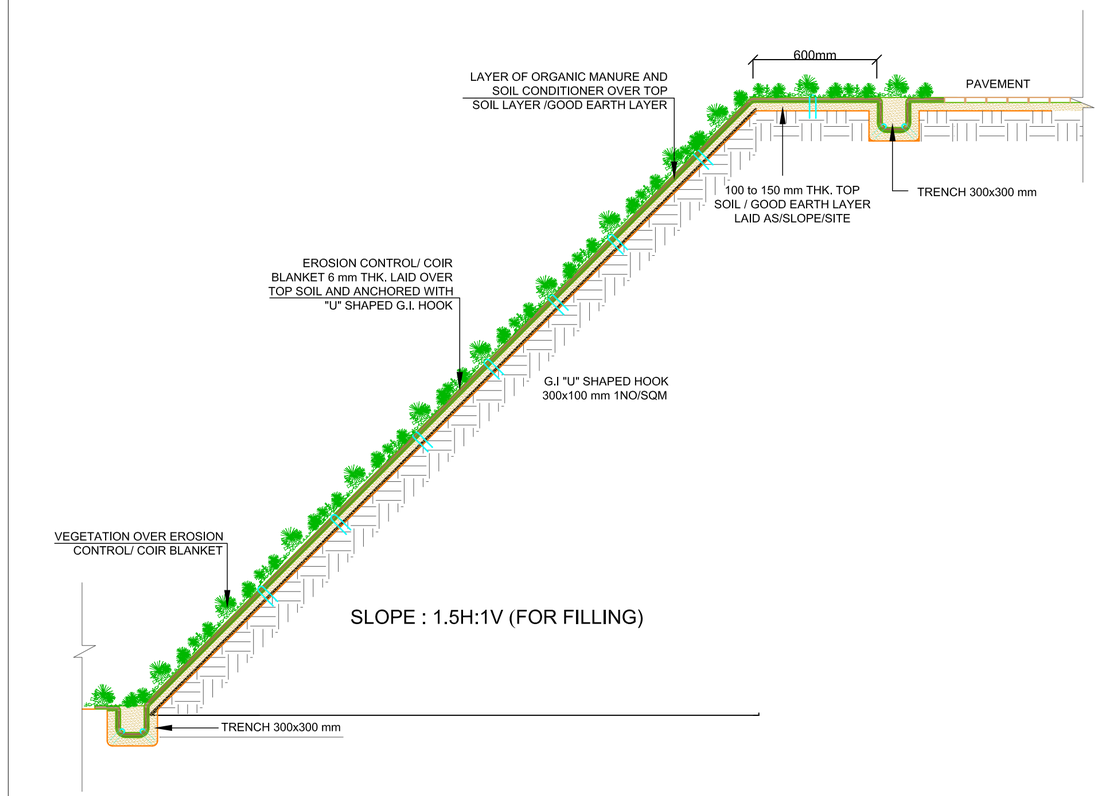
DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Typical Detail of slope protection at cut sections**

Size	*Scale*	*Drg. No*	*Rev:*
A2	NTS	**Transys-NH37-STD-SP-01**	**R2**



Detail of fill slope protection using Erosion Control Blankets

Rev.	Date	Description
R0	15-06-2022	DRAFT DETAILED PROJECT REPORT
R0	21-07-2023	FINAL DETAILED PROJECT REPORT
R1	23-05-2024	FINAL DETAILED PROJECT REPORT
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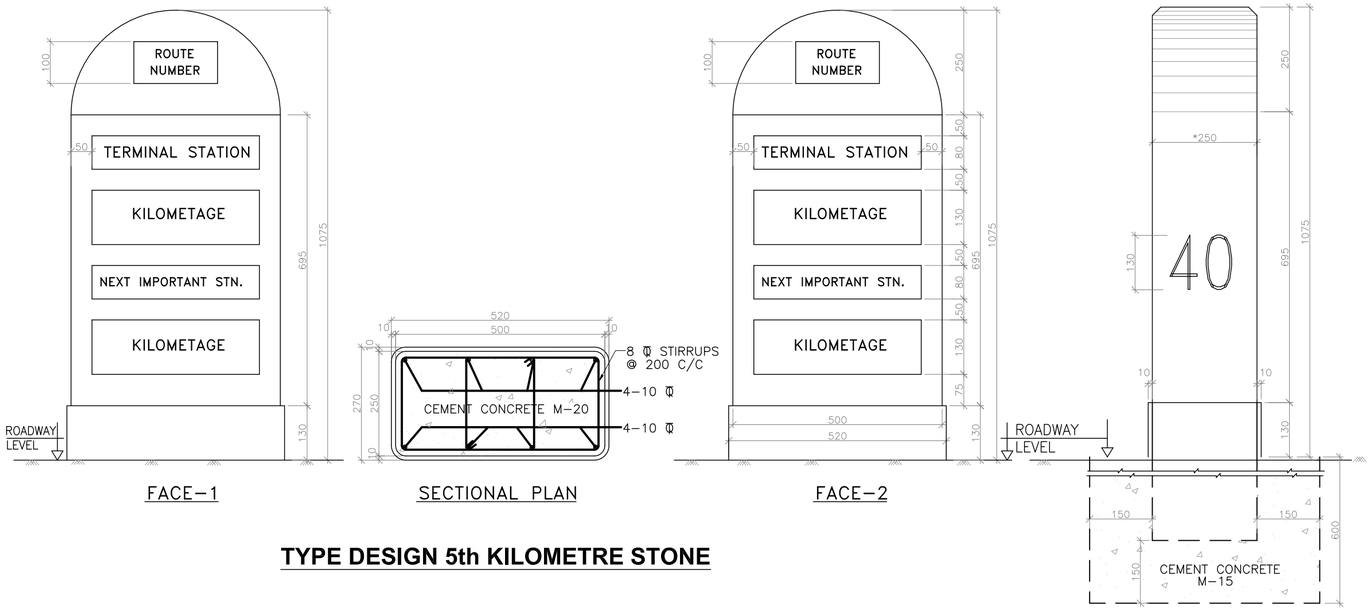
DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

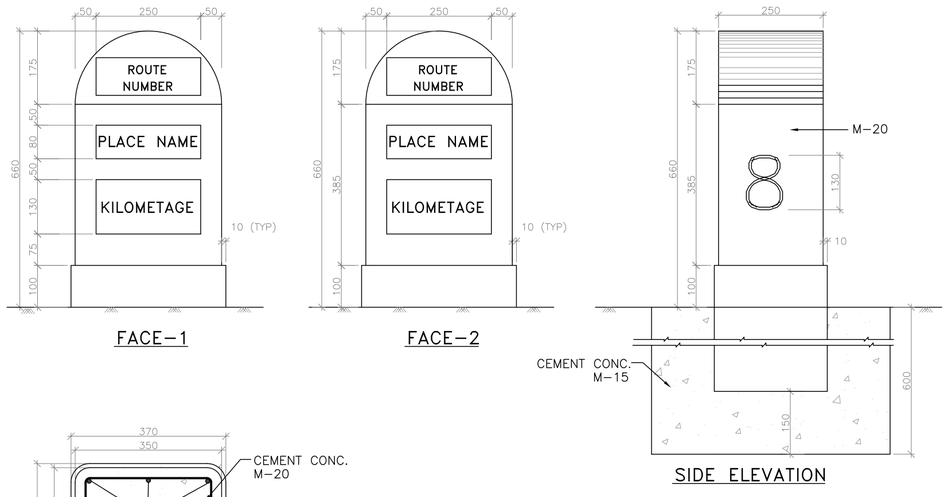
Title: **Typical Detail of erosion control measures at fill locations**

Size	*Scale*	*Drg. No*	*Rev:*
A2	NTS	Transys-NH37-STD-SP-02	**R2**



FACE–1 SECTIONAL PLAN FACE–2 SIDE ELEVATION

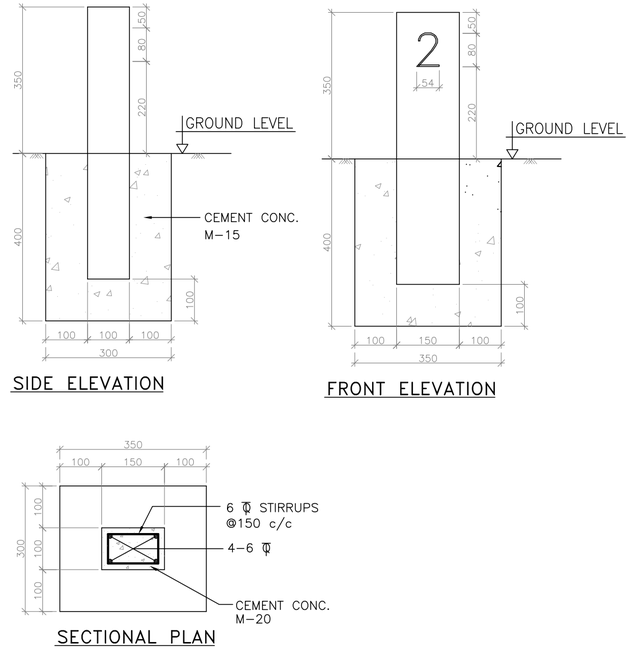
TYPE DESIGN 5th KILOMETRE STONE



FACE–1 FACE–2 SIDE ELEVATION

SECTIONAL PLAN

TYPE DESIGN KILOMETRE STONE



SIDE ELEVATION FRONT ELEVATION

SECTIONAL PLAN

DETAILS OF 200 METRE STONE

NOTES:

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. SIZE SHAPE AND SPACING OF LETTERS / NUMBERS SHALL BE AS PER IRC: 8–1980/IRC:26–1967.

Rev.	Date	Description
R0	15–06–2022	DRAFT DETAILED PROJECT REPORT
R0	21–07–2023	FINAL DETAILED PROJECT REPORT
R1	03–06–2024	FINAL DETAILED PROJECT REPORT
R2	20–11–2024	FINAL (COMPLIANCE TO OBSERVATION RAISED DURING PATSC)

Authority:
National Highways & Infrastructure Development Corporation Ltd.
(MInIstry of Road Transport & HIghways)

Design Consultants:
Transys Consulting Pvt. Ltd.
001-004, Raheja chambers, No.12, Museum Road, Bengaluru-560001; Tel: 080-41461995; email: transys_blr@transysconsulting.co.in

Project:
Silchar-Jiribam Section of NH-37 (Package: SJ-P2, D. Km 24+560 to D. Km 37+650)
Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, and Feeder Routes to improve the efficiency of freight movement in India under Bharatmala Pariyojna (Lot-1) (Package-III)

DRAWN BY	ROOPA
DESIGNED BY	ROJALEEN
CHECKED BY	VIDYA SAGAR
APPROVED BY	SANJEEV

FINAL DETAILED PROJECT REPORT

Title: **Typical Details of Kilometer Stones**

Size	*Scale*	*Drg. No*	*Rev:*
A2	HOR–1:1000 VER–1:100	Transys-NH37-STD-KMS-01	R2