

Government of Jammu & Kashmir



JHEELUM & TAWI FLOOD RECOVERY PROJECT

Kashmir Province

**Consultancy Services for Preparing Detailed Project Report for the Road and
Bridge works in Jammu and Kashmir**

Rambagh Lasjan Kadalbal Road

(DRAWINGS)

(Detailed Project Report)

August 2019



ROAD DRAWINGS

≡ LIST OF DRAWINGS ≡

LIST OF DRAWINGS FOR ROAD

Sl. No.	Descriptions	Drawing No.	No.of Sheet
(A)	ROAD WORKS		
1.	List of Drawings	EPTISA/JTFRP/DPR/J&K/LOD-01	01
2.	Legend, Abbreviations & General Notes	EPTISA/JTFRP/DPR/J&K/LEGEND-01	01
3.	Index Map	EPTISA/JTFRP/DPR/J&K/IM-01	01
4.	Typical Cross Section	EPTISA/JTFRP/DPR/J&K/TCS-01 to 04	04
5.	Strip Plan	EPTISA/JTFRP/DPR/J&K/SP-01 to 03	03
6.	Plan and Profile- Main Road	EPTISA/JTFRP/DPR/J&K/PP-01 to 12	12
7.	Plan and Profile (For Link Road No.1)	EPTISA/JTFRP/DPR/J&K/PP/Link Road-01	01
8.	Horizontal Alignment Report	EPTISA/JTFRP/DPR/J&K/HAR-01 to 02	02
9.	Horizontal Alignment Report (For Link Road No.1)	EPTISA/JTFRP/DPR/J&K/HAR/Link Road-01	01
10.	Vertical Alignment Report	EPTISA/JTFRP/DPR/J&K/VAR-01 to 03	03
11.	Vertical Alignment Report (For Link Road No.1)	EPTISA/JTFRP/DPR/J&K/VAR/Link Road-01	01
12.	Signage Plan- Main Road	EPTISA/JTFRP/DPR/J&K/SP-01 to 12	12
13.	Schedule of Signage- Main Road	EPTISA/JTFRP/DPR/J&K/SOS-01 to 03	03
14.	Signage Plan- Link Road	EPTISA/JTFRP/DPR/J&K/SP-01	01
15.	Schedule of Signage- Link Road	EPTISA/JTFRP/DPR/J&K/SOS-01	01
16.	Detailed Cross Section	EPTISA/JTFRP/DPR/J&K/DCS-01 to 40	40
17.	Detailed Cross Section (For Link Road No.1)	EPTISA/JTFRP/DPR/J&K/DCS/Link Road-01 to 04	04
18.	Utility Relocation Plan-Main Road (For Electricity Department)	EPTISA/JTFRP/DPR/J&K/URP-01 to 12	12
19.	Utility Relocation Plan- Main Road (For Telephone Department)	EPTISA/JTFRP/DPR/J&K/URP-01 to 12	12
20.	Utility Relocation Plan- Main Road (For Water Department)	EPTISA/JTFRP/DPR/J&K/URP-01 to 12	12
21.	Utility Relocation Plan- Link Road (For Electricity Department)	EPTISA/JTFRP/DPR/J&K/URP-01	01
22.	Utility Relocation Plan- Link Road (For Telephone Department)	EPTISA/JTFRP/DPR/J&K/URP-01	01
23.	Utility Relocation Plan- Link Road (For Water Department)	EPTISA/JTFRP/DPR/J&K/URP-01	01
24.	Tree Cutting- Main Road	EPTISA/JTFRP/DPR/J&K/TC-01 to 12	12
25.	Tree Cutting- Link Road	EPTISA/JTFRP/DPR/J&K/TC-01	01
26.	<i>Miscellaneous Drawings</i>		01
i)	Road Signs & Road Delineators - (3 Sheets)	EPTISA/JTFRP/DPR/J&K/MISC-01	01
ii)	Typical Details of Distance Stone, Boundary Stone & Guard Post	EPTISA/JTFRP/DPR/J&K/MISC-02	01
iii)	Typical Details of Metal Beam Crash Barrier	EPTISA/JTFRP/DPR/J&K/MISC-03	01
26.	<i>GIS Mapping</i>		05
27.	Details of PCC Retaining Wall	EPTISA/JTFRP/DPR/J&K/RW-01	01
28.	<i>Culvert Drawings</i>		01
i)	Typical General Arrangement Drawing for Single Cell Box Culvert	EPTISA/JTFRP/DPR/J&K/BOX/GAD/01	01
ii)	Typical General Arrangement Drawing for Double Cell Box Culvert	EPTISA/JTFRP/DPR/J&K/BOX/GAD/01	01
iii)	Typical General Arrangement Drawing for Single Cell Pipe Culvert	EPTISA/JTFRP/DPR/J&K/PIPE/GAD/01	01

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

TITLE :

LIST OF DRAWING

DRG. NO. : EPTISA/JTFRP/DPR/J&K/LOD/01

REVISION : R-1


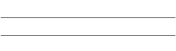



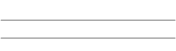
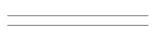




















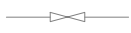
































August 2019







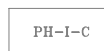
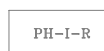






≡ LEGEND, ABBREVIATIONS & GENERAL NOTES ≡

LEGEND

A. PLAN

a) Existing

1	Security Room		31	Divider	
2	Pump house		32	Dusbin	
3	Solar		33	Earthen Road	
4	Rail trac		34	Bitumen Road	
5	Railing		35	Existing Center Line	
6	Telephone Pst tp.		36	Shed	
7	Under Construction Building		37	Sign Board	
8	Hoarding Post		38	Bedi	
9	Water Tank		39	Canal / River	
10	Wire Crossing Details		40	Drain	
11	P.c.c Road		41	Alart Post ap.	
12	Pucca House One Storied Commercial& Residential ph-i/c+r.		42	Compound wall	
13	Pucca House Two Storied Residential ph-ii-r.		43	Fencing	
14	Abandoned Building		44	Gate	
15	Damage Culvert		45	GPS Pillar gps.	
16	Damage Pipe Culvert		46	Reference Pillar	
17	Ep Box		47	Electric Post ep.	
18	Hotel		48	Guard Wall	
19	Retaining Wall		49	Temple / Mandir	
20	Ohe		50	Pond / Ditch / Water Logged	
21	Parking		51	Nala / Natural Stream	
22	Shoulder		52	Petrol Pump	
23	Pave Shoulder		53	Heigh Must Light hmt.	
24	Pavement		54	Water Tap tap.	
25	Pipe Culvert		55	Wildlife Sanctuary Sign Board	
26	Seating bench		56	H.F.L hfl.	
27	Showroom		57	Toilet	
28	Stair		58	Handpump/Tube well tw.	
29	Chamber		59	OFC	
30	Cover Drain		60	Kancha House Commercial kh-c.	

61	Kancha House Residential	kh-r.	
62	Km Stone	kmp.	
63	Lamp Post	lp.	
64	Semi Pucca House Commercial	sp-c.	
65	Semi Pucca House Residential	sp-r.	
66	Survey Station	stn.	
67	Pucca House One Storied Commercial	ph-i-c.	
68	Pucca House One Storied Residential	ph-i-r.	
69	Pucca House Two Storied Commercial	ph-ii-c.	
70	Transformer	tns.	
71	TREE 1 (Ã?300 TO Ã?600)	t1	
72	TREE 2 (Ã?600 TO Ã?900)	t2	
73	TREE 3 (Ã?900 TO Ã?1200)	t3	
74	TREE 4 (Ã?1200 TO ABOVE)	t4	

GENERAL NOTES

A) General



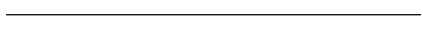

1. All angles are in degree (°) – minute (') – second (") format.
2. All chainages are in kilometres and all levels are in meters unless otherwise specified.
3. All the co-ordinates (X, Y) are with respect to GPS values (established for project road at 2 km interval).
4. Details shown in the plans are based on topographical survey carried out under the assignment,
5. The scale mentioned for all drawings is applicable for A2 sheet.

B) Geometric Design



1. The pavements have been considered to be rotated about the Carriageway Center line to attain requisite amount of superelevation.

b) Proposed

A. PLAN

Proposed Center Line	
Edge of Carriageway	
Edge of Unpaved Shoulder	
Proposed Chainage	

B. PROFILE

Finished Grade Line	
Existing Grade Line	

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REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : N.T.S

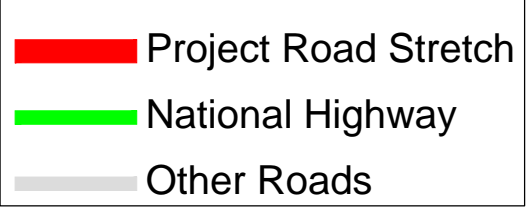
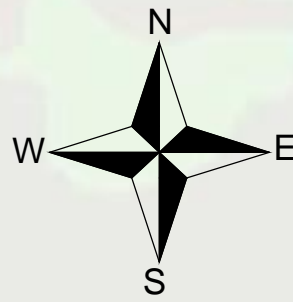
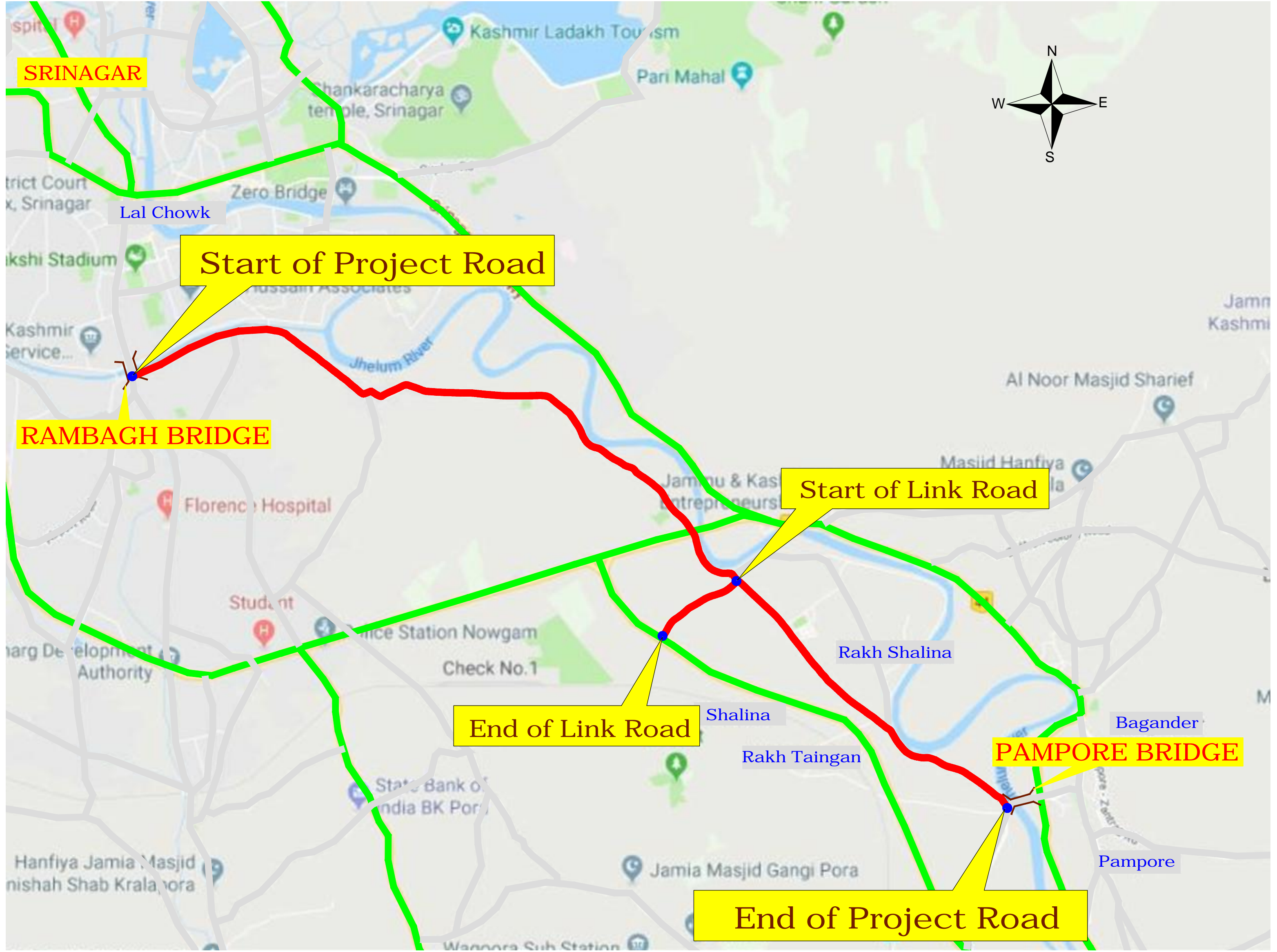
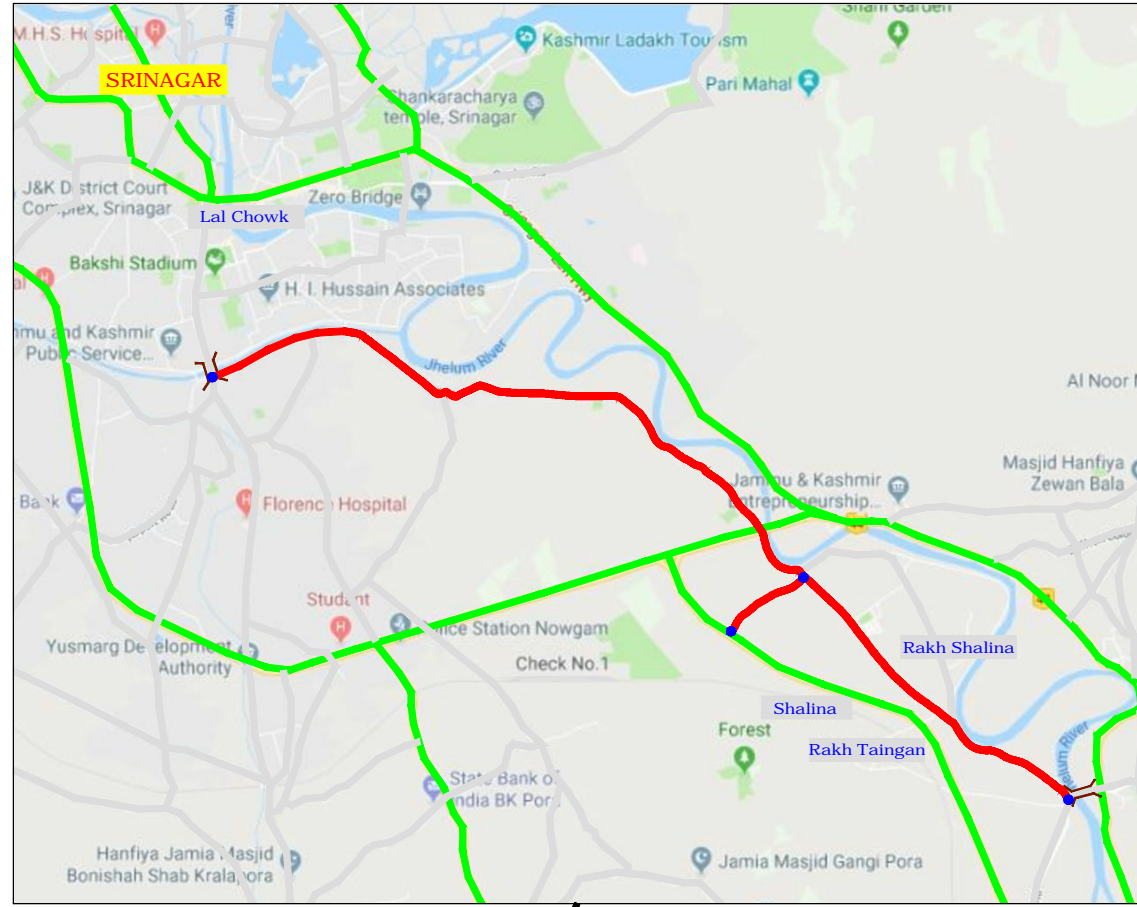
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LEGEND, ABBREVIATIONS & GENERAL NOTES

DRG. NO. : EPTISA/JTRP/DPR/J&K/LEGEND/01

REVISION : R-1

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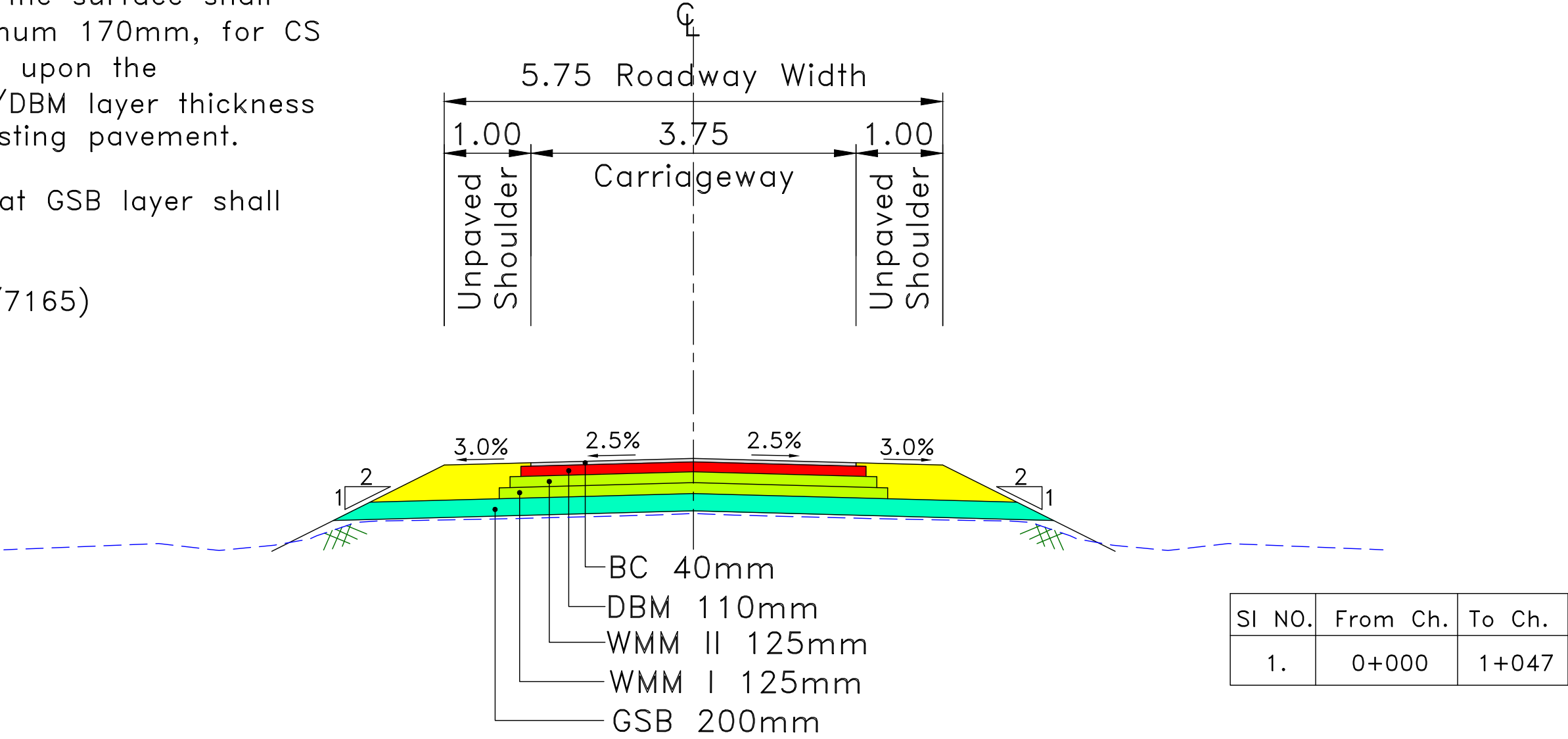
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DESIGNED BY :	SCK
APPROVED BY :	KG
SCALE :	N.T.S

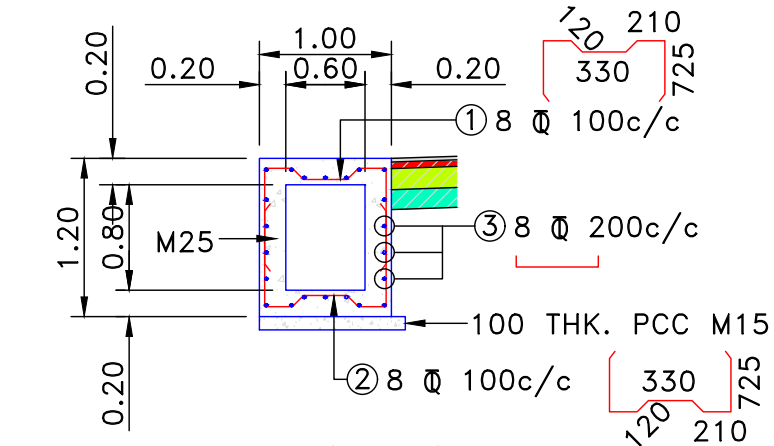
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DRG. NO. :	EPTISA/JTFRP/DPR/J&K/IM/01
REVISION : R-1	August 2019

≡ TYPICAL CROSS SECTIONS ≡

- Note:**
- 1. After Scarifying Existing Bituminous layer the surface shall be recompacted.WMM(Minimum 75mm, maximum 170mm, for CS Type 2)/GSB shall be laid over it depending upon the difference of FRL and recompacted level.BC/DBM layer thickness are same for widening portion and over existing pavement.
 - 2. Weep hole in drain wall of 100mm dia. at GSB layer shall be provided @ 1m interval.
 - 3. Given ROW 7.92 (Letter No- CE/RNB/HD/7165)

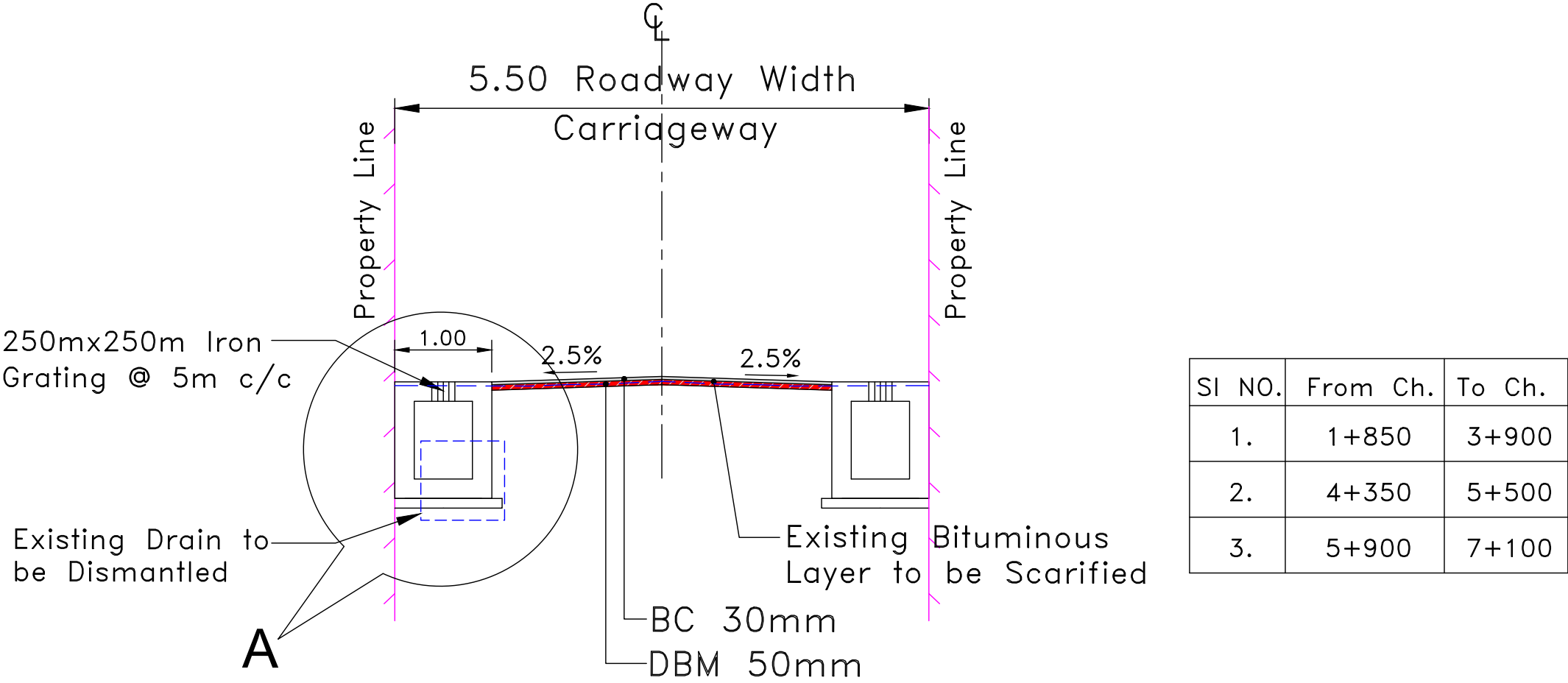


TYPE - 1 : TYPICAL CROSS SECTION OF SINGLE LANE CARRIAGEWAY
(Link Road)



DETAIL -A
CROSS SECTION & R/F DETAILS
OF ROAD DRAIN

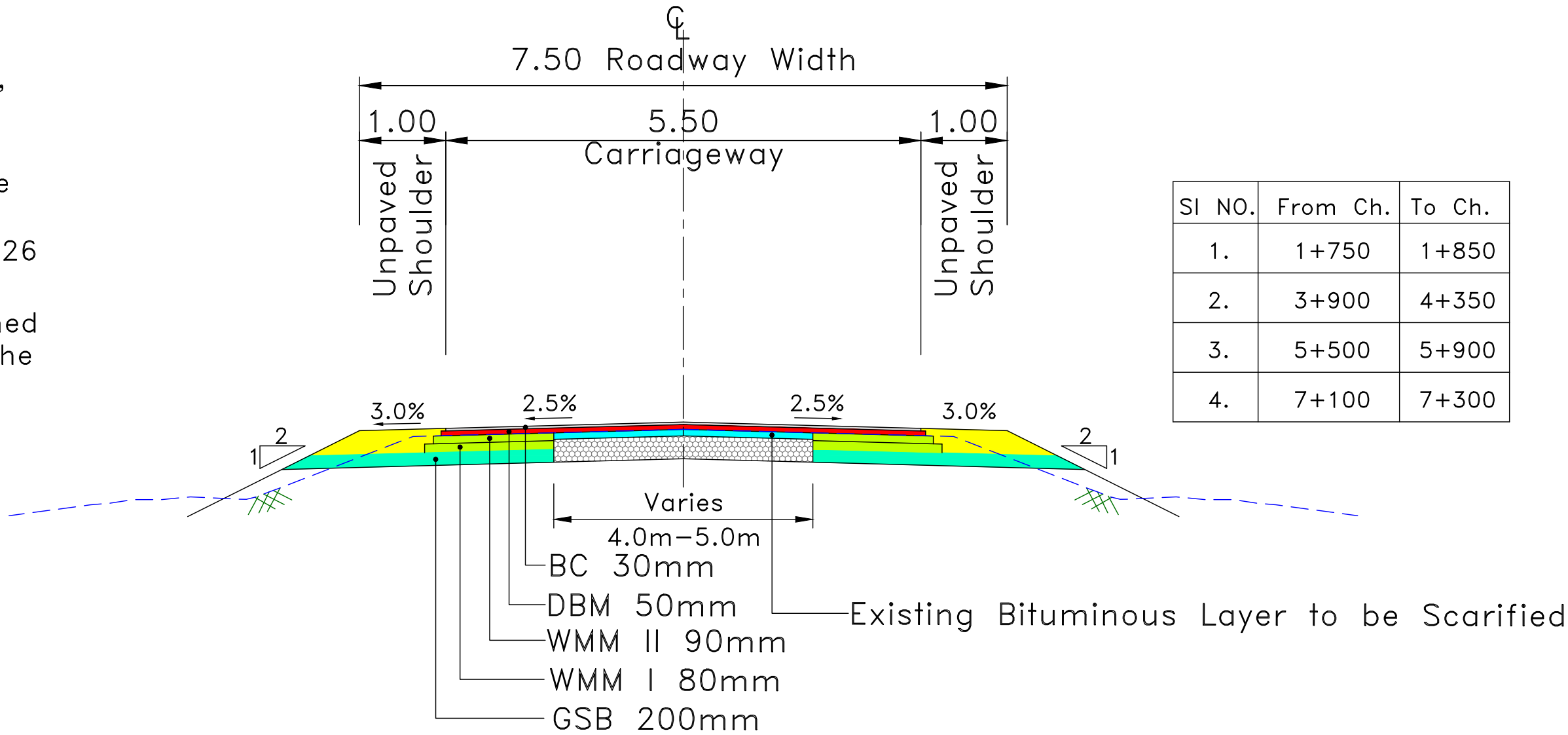
- NOTES :**
- 1. ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE MENTIONED.
 - 2. GRADE OF CONCRETE :-
STRUCTURE – M25
LEVELING COURSE(P.C.C) – M15
 - 3. GRADE OF STEEL Fe-500 AS PER I.S.-1786.
 - 4. CLEAR COVER SHALL BE 40MM.



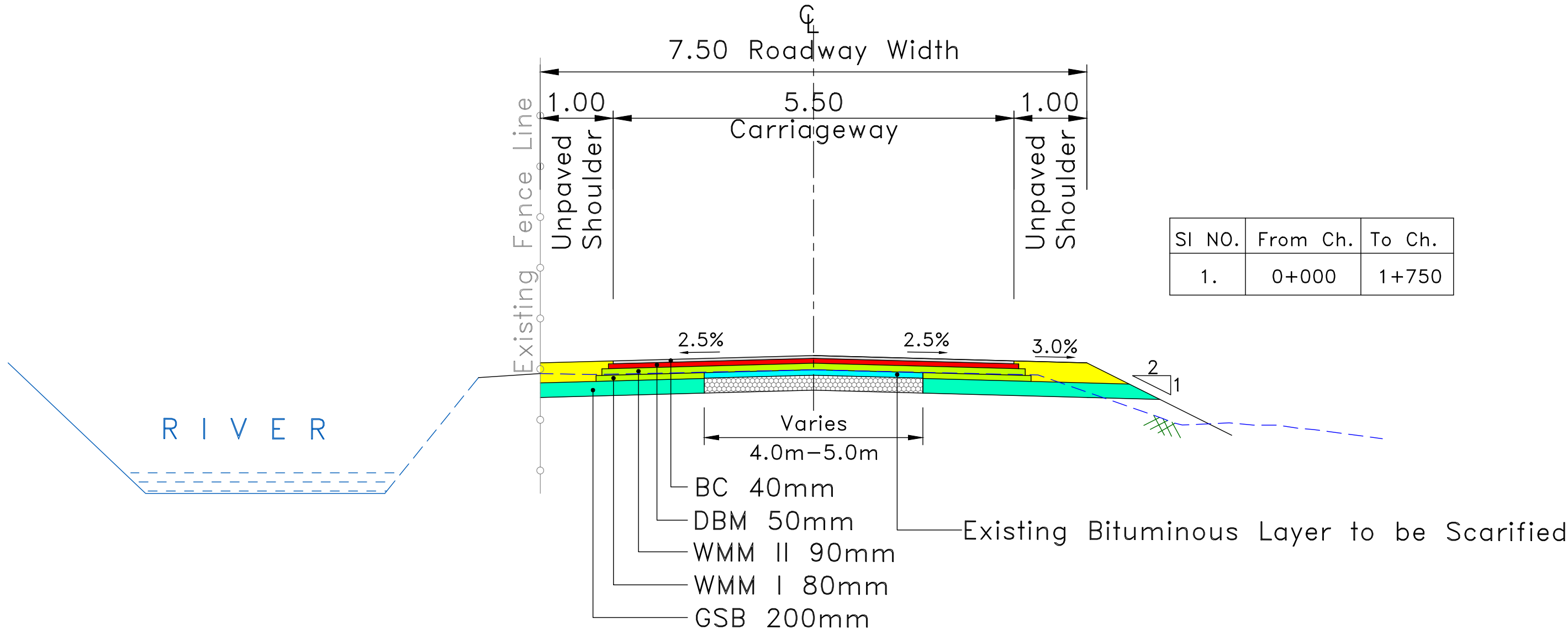
TYPE - 2 : TYPICAL CROSS SECTION OF INTERMEDIATE LANE CARRIAGEWAY AT
RECONSTRUCTION BUILT-UP SECTION
(Main Alignment)

Note:
1.After Scarifying Existing Bituminous layer the surface shall be recompacted.WMM(Minimum 75mm, maximum 170mm)/GSB shall be laid over it depending upon the difference of FRL and recompacted level.BC/DBM layer thickness are same for widening portion and over existing pavement. Although ROW authenticated by R&B Dept. is 7.9m(26 ft.) yet site survey reveals the land available is around 9.0m (toe to toe). Proposal has been framed according to available space at site. Indicated in the C/S (km.7.3 to km.11.9)

2. Given ROW 7.92 (Letter No– CE/RNB/HD/7165)



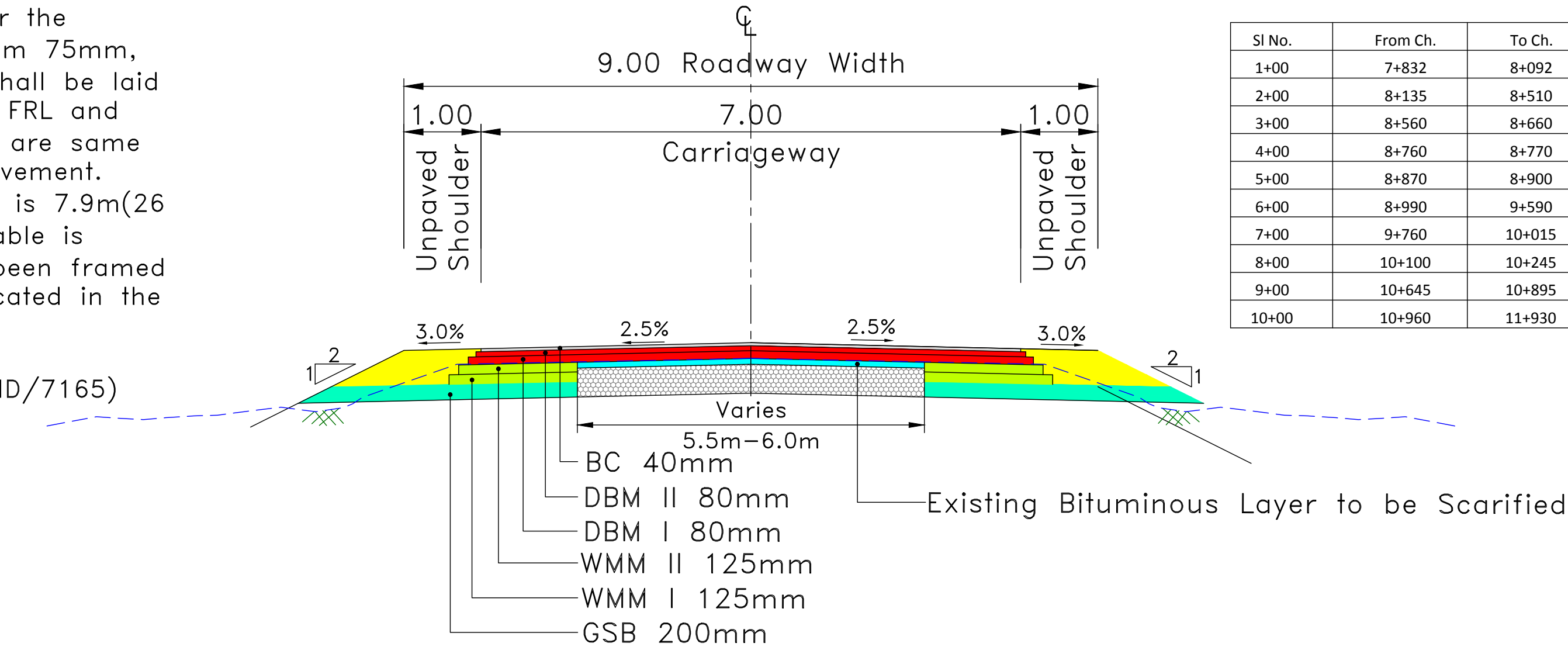
TYPE - 3 : TYPICAL CROSS SECTION OF INTERMEDIATE LANE CARRIAGEWAY AT CONCENTRIC WIDENING STRETCH (Main Alignment)



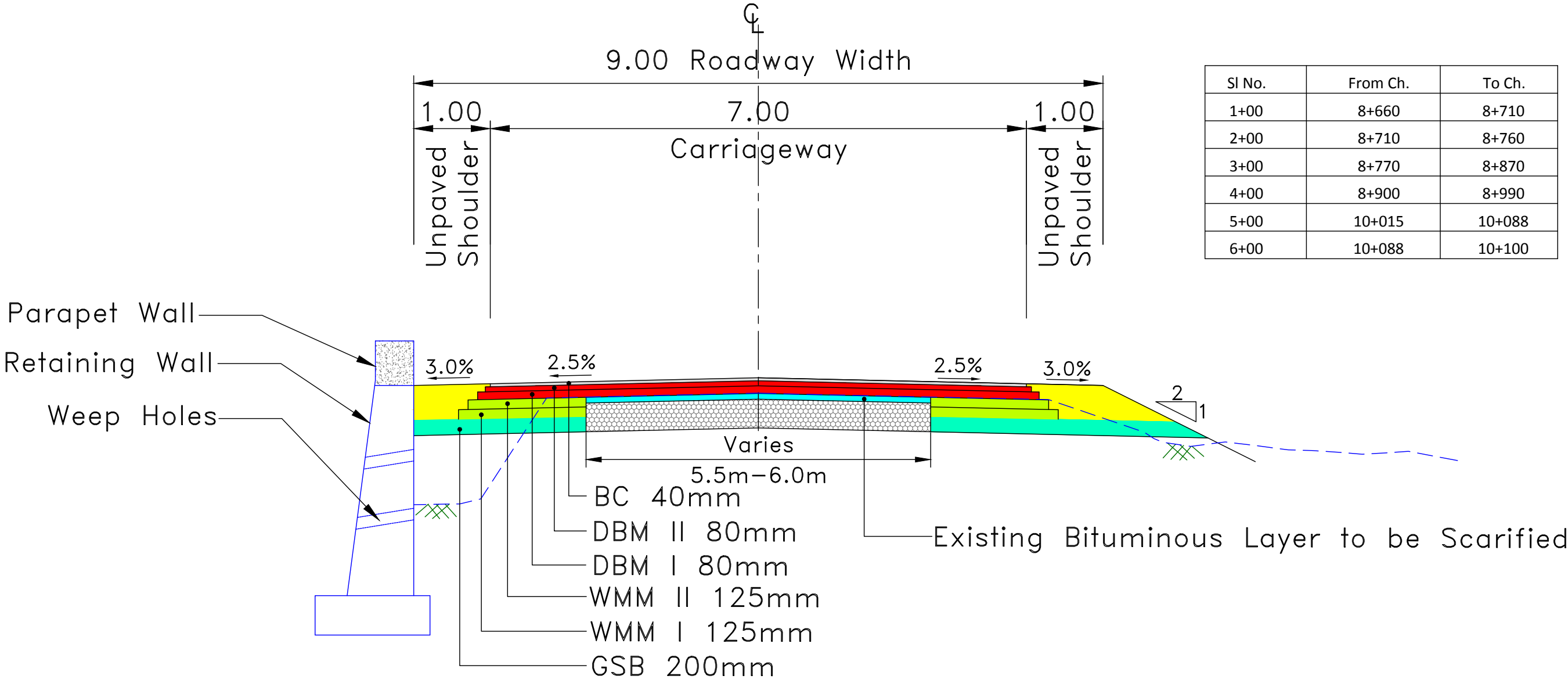
TYPE - 3a : TYPICAL CROSS SECTION OF INTERMEDIATE LANE CARRIAGEWAY AT CONCENTRIC WIDENING STRETCH WITH LEFT SIDE RIVER & EXISTING FENCE LINE (Main Alignment)

Note:
1.After Scarifying Existing Bituminous layer the surface shall be recompacted.WMM(Minimum 75mm, maximum 250mm, for CS Type 4)/GSB shall be laid over it depending upon the difference of FRL and recompacted level.BC/DBM layer thickness are same for widening portion and over existing pavement. Although ROW authenticated by R&B Dept. is 7.9m(26 ft.) yet site survey reveals the land available is around 9.0m (toe to toe). Proposal has been framed according to available space at site. Indicated in the C/S (km.7.3 to km.11.9)

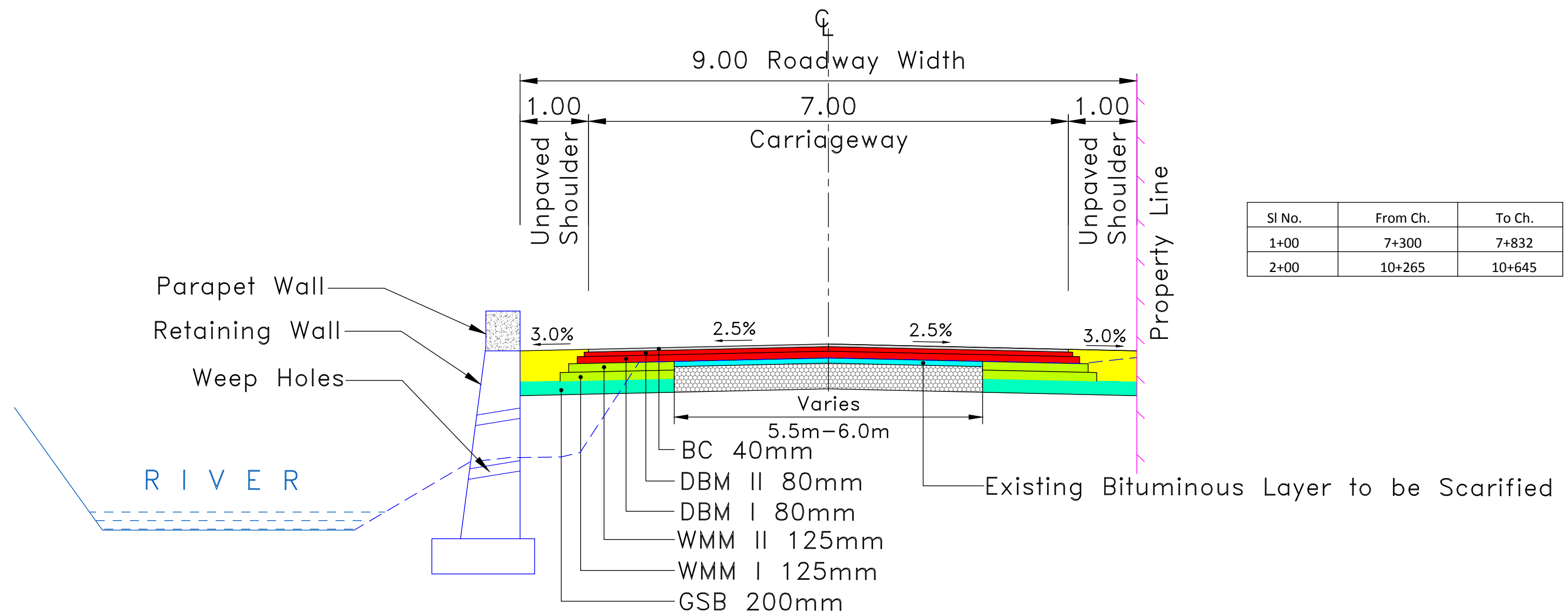
2. Given ROW 7.92 (Letter No– CE/RNB/HD/7165)



TYPE - 4 : TYPICAL CROSS SECTION OF 2 LANE CARRIAGEWAY AT CONCENTRIC WIDENING STRETCH (Main Alignment)



TYPE - 4a : TYPICAL CROSS SECTION OF 2 LANE CARRIAGEWAY AT CONCENTRIC WIDENING STRETCH WITH LEFT SIDE RETAINING WALL (Main Alignment)



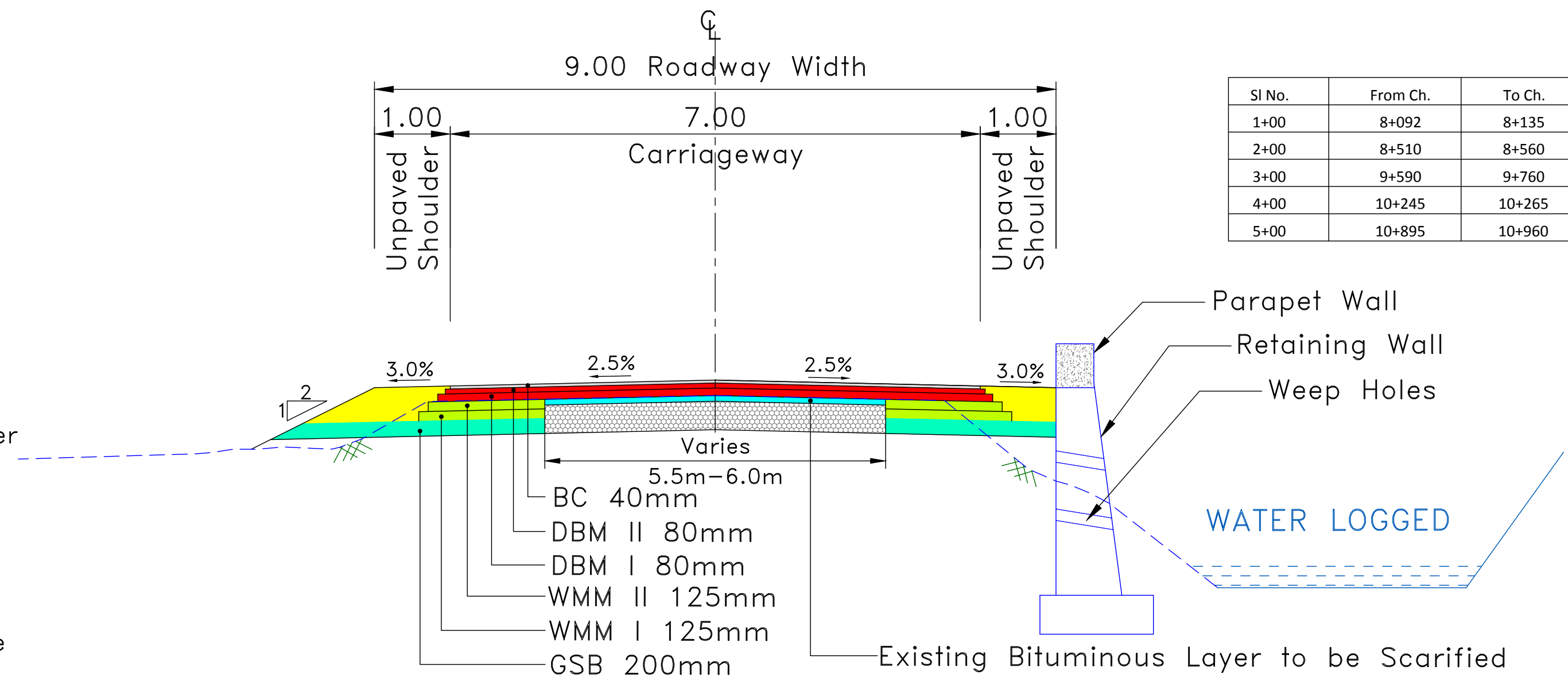
Sl No.	From Ch.	To Ch.
1+00	7+300	7+832
2+00	10+265	10+645

TYPE - 4b : TYPICAL CROSS SECTION OF 2 LANE CARRIAGEWAY AT CONCENTRIC WIDENING STRETCH WITH RIGHT SIDE PROPERTY LINE & LEFT SIDE RETAINING WALL (Main Alignment)

Note:

1.After Scarifying Existing Bituminous layer the surface shall be recompacted.WMM(Minimum 75mm, maximum 250mm)/GSB shall be laid over it depending upon the difference of FRL and recompacted level.BC/DBM layer thickness are same for widening portion and over existing pavement. Although ROW authenticated by R&B Dept. is 7.9m(26 ft.) yet site survey reveals the land available is around 9.0m (toe to toe). Proposal has been framed according to available space at site. Indicated in the C/S (km.7.3 to km.11.9)

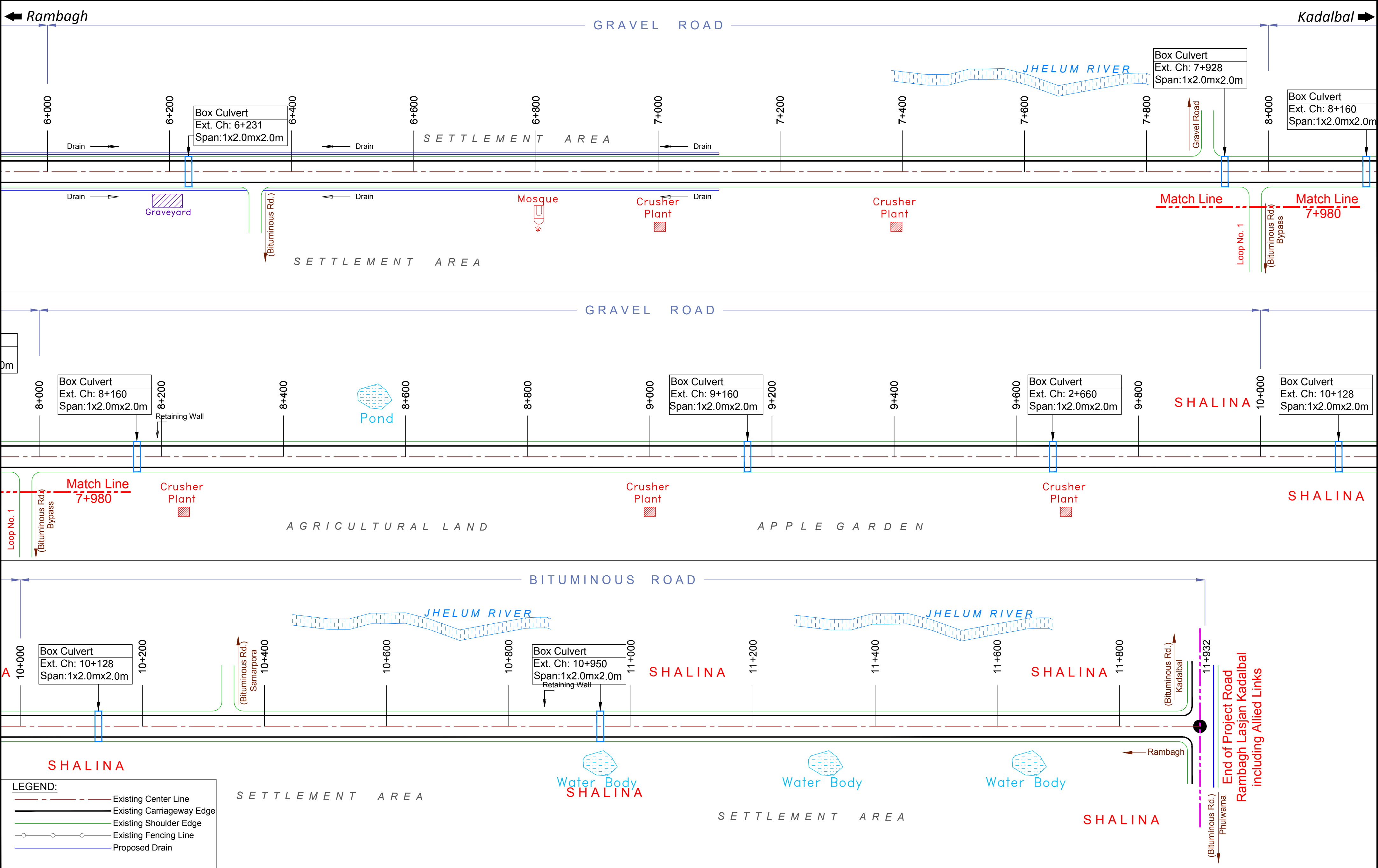
2. Given ROW 7.92 (Letter No- CE/RNB/HD/7165)



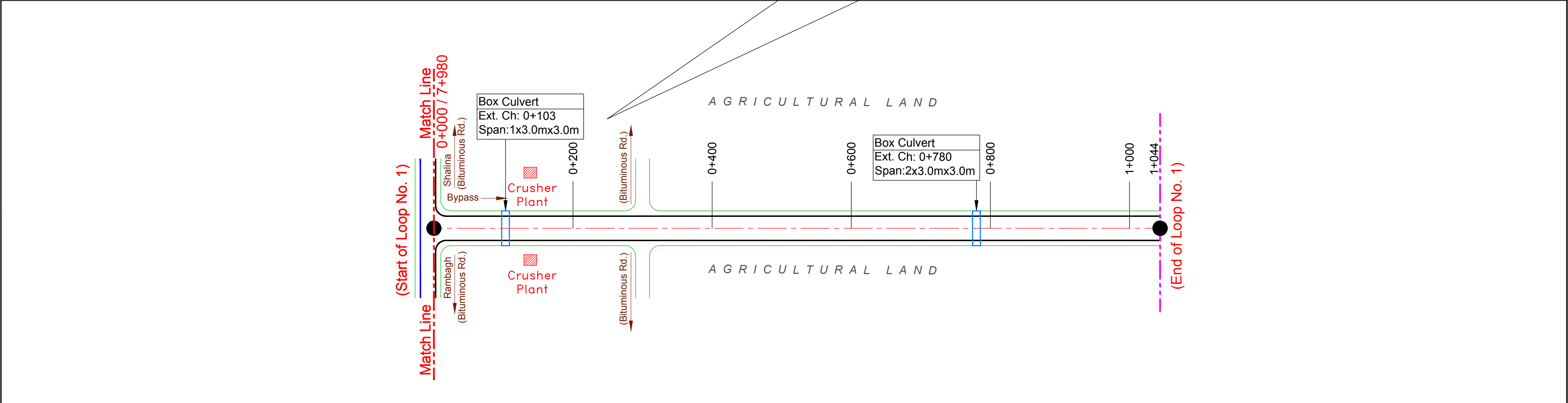
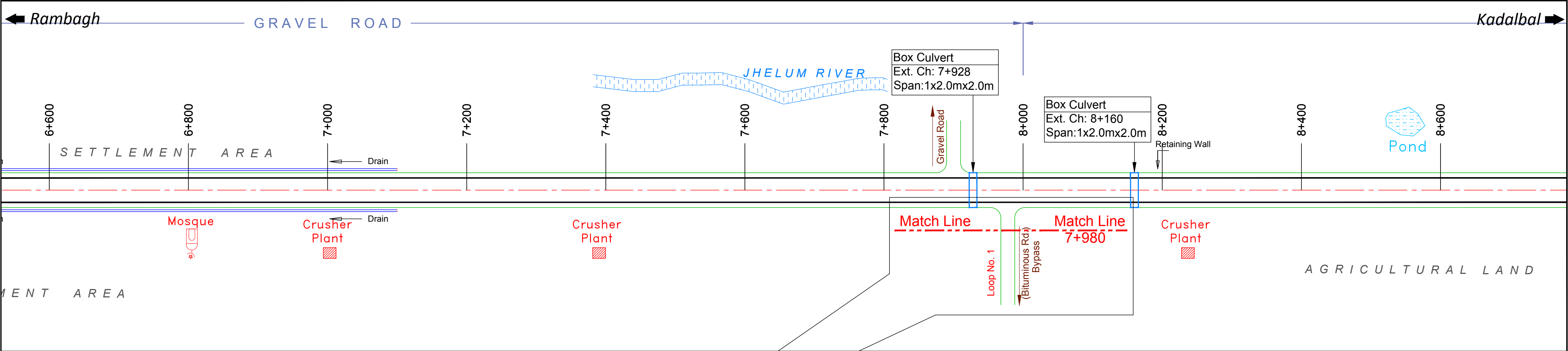
Sl No.	From Ch.	To Ch.
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2+00	8+510	8+560
3+00	9+590	9+760
4+00	10+245	10+265
5+00	10+895	10+960

TYPE - 4c : TYPICAL CROSS SECTION OF 2 LANE CARRIAGEWAY AT CONCENTRIC WIDENING STRETCH WITH RIGHT SIDE RETAINING WALL (Main Alignment)

CLIENT :			<div></div> <div>Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.</div>			PROJECT :			Consultancy Services for Preparing Detailed Project Report for the Road and Bridge works in Jammu and Kashmir <u>(Rambagh-Lasjan-Kadalbal Road)</u>			DESIGN CONSULTANT:			<div></div> <div>Eptisa Servicios de Ingenieria S.L. Unit 1203, 12th Floor, Tower 1, PS Srijan Corporate Park, Plot No. 2, Block EP & GP, Sector v, Salt Lake Kolkata - 700091, West Bengal Ph: 033-40347200 www.eptisa.com</div>			<table><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table>															<table><tr><td colspan="2">DRAWN BY :</td><td>SD</td></tr><tr><td colspan="2">DESIGNED BY :</td><td>SCK/MM</td></tr><tr><td colspan="2">APPROVED BY :</td><td>KG</td></tr><tr><td>REV.</td><td>DATE</td><td>DESCRIPTION</td></tr><tr><td></td><td></td><td></td></tr></table>			DRAWN BY :		SD	DESIGNED BY :		SCK/MM	APPROVED BY :		KG	REV.	DATE	DESCRIPTION				<table><tr><td colspan="2">TITLE :</td><td>TYPICAL CROSS SECTION</td></tr><tr><td colspan="2">DRG. NO. :</td><td>EPTISA/JTFRP/DPR/J&K/TCS/04</td></tr><tr><td colspan="2">REVISION : R-1</td><td>August 2019</td></tr></table>			TITLE :		TYPICAL CROSS SECTION	DRG. NO. :		EPTISA/JTFRP/DPR/J&K/TCS/04	REVISION : R-1		August 2019
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						DESIGNED BY : SCK/MM	
						APPROVED BY : KG	
						LONG SCALE:  TRANS SCALE: 	
			REV.	DATE	DESCRIPTION	DRG. NO. : EPTISA/JTRFP/DPR/J&K/SP/02	
			REVISION : R-1		August 2019		



- LEGEND:**
- Existing Center Line
 - Existing Carriageway Edge
 - Existing Shoulder Edge
 - Existing Fencing Line
 - Proposed Drain

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REV.	DATE	DESCRIPTION

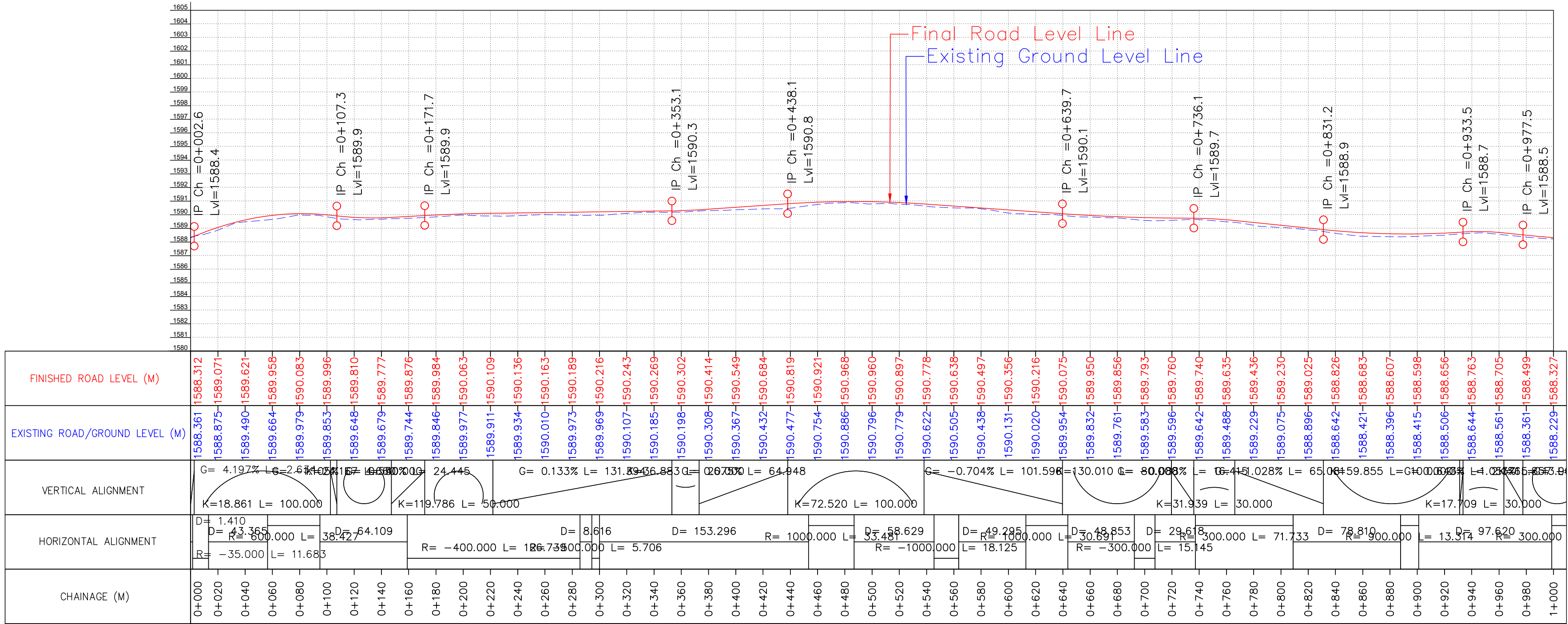
DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
LONG SCALE:	0 25 50 75 100 (m)
TRANS SCALE:	0 7 14 21 (m)

TITLE :	Strip Plan
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/SP/03
REVISION : R-1	August 2019

← Rambagh

Kadalbal →

Start of Project Road



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DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	HOR 1:2500 VER 1:250

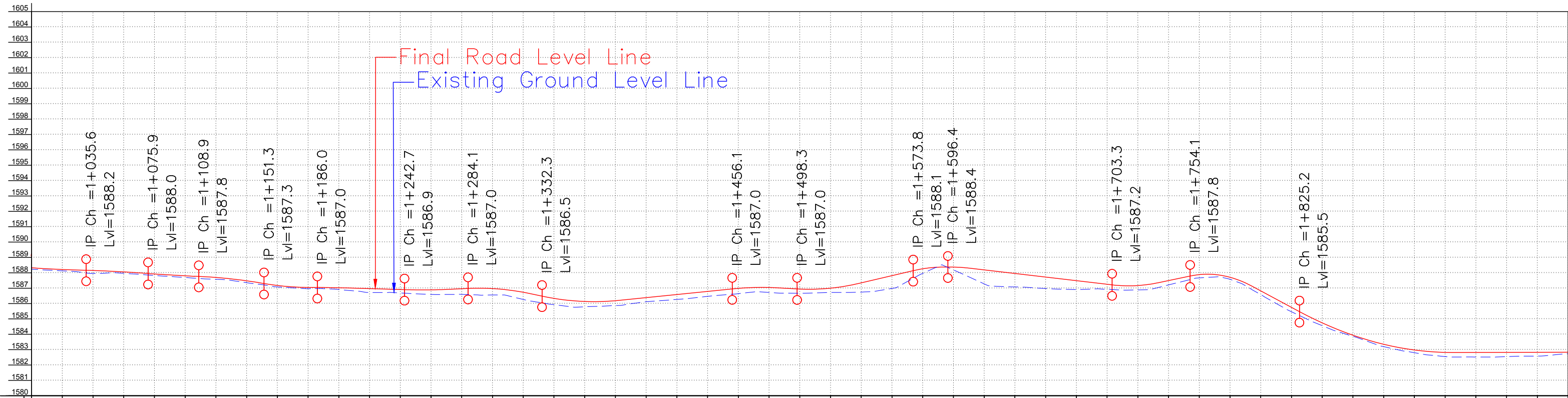
TITLE :

Plan and Profile
(km 0+000 to km 1+000)

DRG. NO. : EPTISA/JTRP/DPR/J&K/PP/01

REVISION : R-1

August 2019



FINISHED ROAD LEVEL (M)	1588.327	1588.215	1588.152	1588.060	1587.925	1587.805	1587.698	1587.480	1587.178	1587.047	1586.908	1586.971	1586.912	1586.891	1586.963	1586.975	1586.734	1586.336	1586.135	1585.873	1585.184	1586.385	1586.587	1586.789	1586.987	1587.044	1586.942	1587.000	1587.347	1587.815	1588.261	1588.373	1588.191	1587.956	1587.722	1587.487	1587.253	1587.172	1587.496	1587.883	1587.709	1586.823	1585.754	1584.742	1583.939	1583.350	1582.977	1582.819	1582.817	1582.822	1582.828	1582.834																																																
EXISTING ROAD/GROUND LEVEL (M)	1588.229	1588.130	1587.956	1587.965	1587.824	1587.697	1587.576	1587.357	1587.084	1586.963	1586.909	1586.718	1586.690	1586.594	1586.595	1586.562	1586.267	1585.929	1585.789	1585.873	1586.117	1586.267	1586.445	1586.666	1586.723	1586.741	1586.984	1587.191	1587.347	1587.611	1588.189	1587.279	1587.082	1586.978	1586.909	1586.924	1586.888	1587.214	1587.668	1587.583	1586.588	1585.466	1584.561	1583.867	1583.196	1582.801	1582.547	1582.522	1582.545	1582.581	1582.731																																																	
VERTICAL ALIGNMENT	3.99035200 K=87.372 L=40.000 D=153.263																														1.43176100 K=19.088 L=30.000 D=62.066										1.31502921 K=15.538 L=40.000 D=51.568										1.21327100 K=19.088 L=30.000 D=81.430										1.09881505 K=8.660 L=40.000 D=37.377										0.55530101 K=5.369 L=40.000 D=50.787										0.32662172 K=4.183 L=100.000 D=231.033										0.000122 L=100.000 G=0.028%									
HORIZONTAL ALIGNMENT	00 L=12.590 D=153.263																														R=1500.000 L=59.158 D=62.066										R=1500.000 L=64.093 D=51.568										R=1000.000 L=37.568 D=81.430										R=1000.000 L=133.493 D=37.377										R=1500.000 L=65.427 D=50.787										R=1500.000 L=65.427 D=231.033										R=									
CHAINAGE (M)	1+000	1+020	1+040	1+060	1+080	1+100	1+120	1+140	1+160	1+180	1+200	1+220	1+240	1+260	1+280	1+300	1+320	1+340	1+360	1+380	1+400	1+420	1+440	1+460	1+480	1+500	1+520	1+540	1+560	1+580	1+600	1+620	1+640	1+660	1+680	1+700	1+720	1+740	1+760	1+780	1+800	1+820	1+840	1+860	1+880	1+900	1+920	1+940	1+960	1+980	2+000																																																	

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:

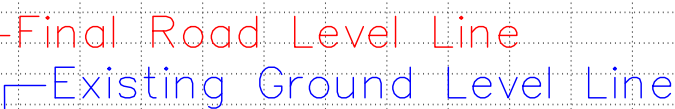
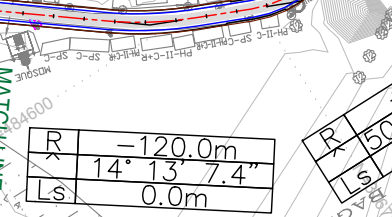
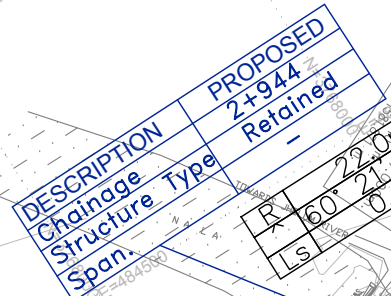
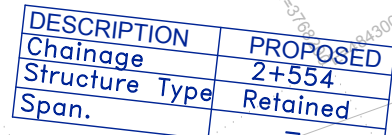
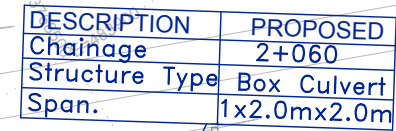


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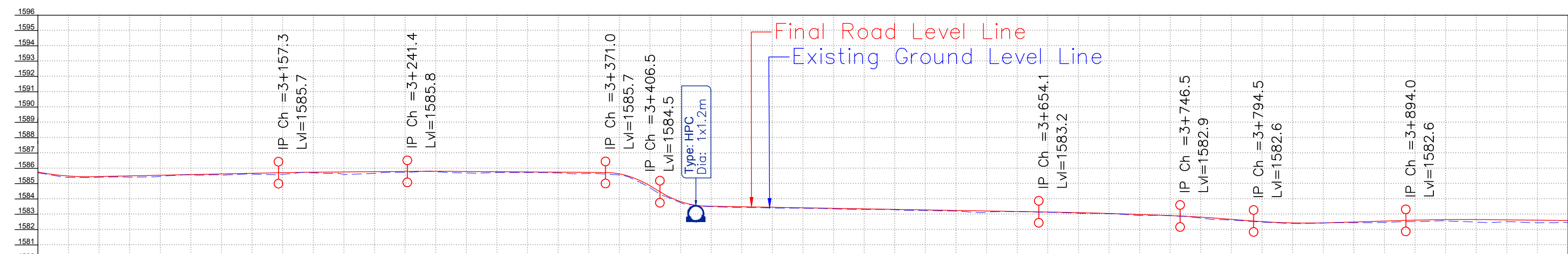
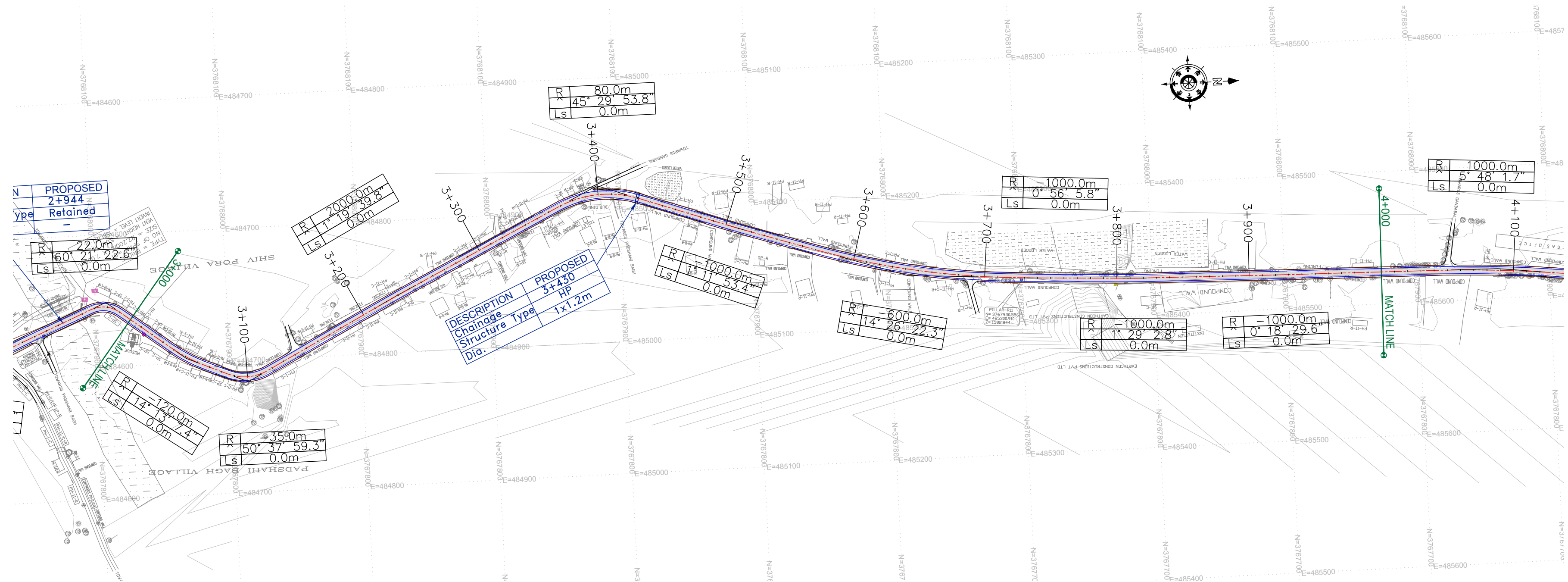
REV.	DATE	DESCRIPTION

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SCALE :	HOR 1:2500 VER 1:250

TITLE :	Plan and Profile (km 1+000 to km 2+000)
DRG. NO. :	EPTISA/JTRP/DPR/J&K/PP/02
REVISION : R-1	August 2019



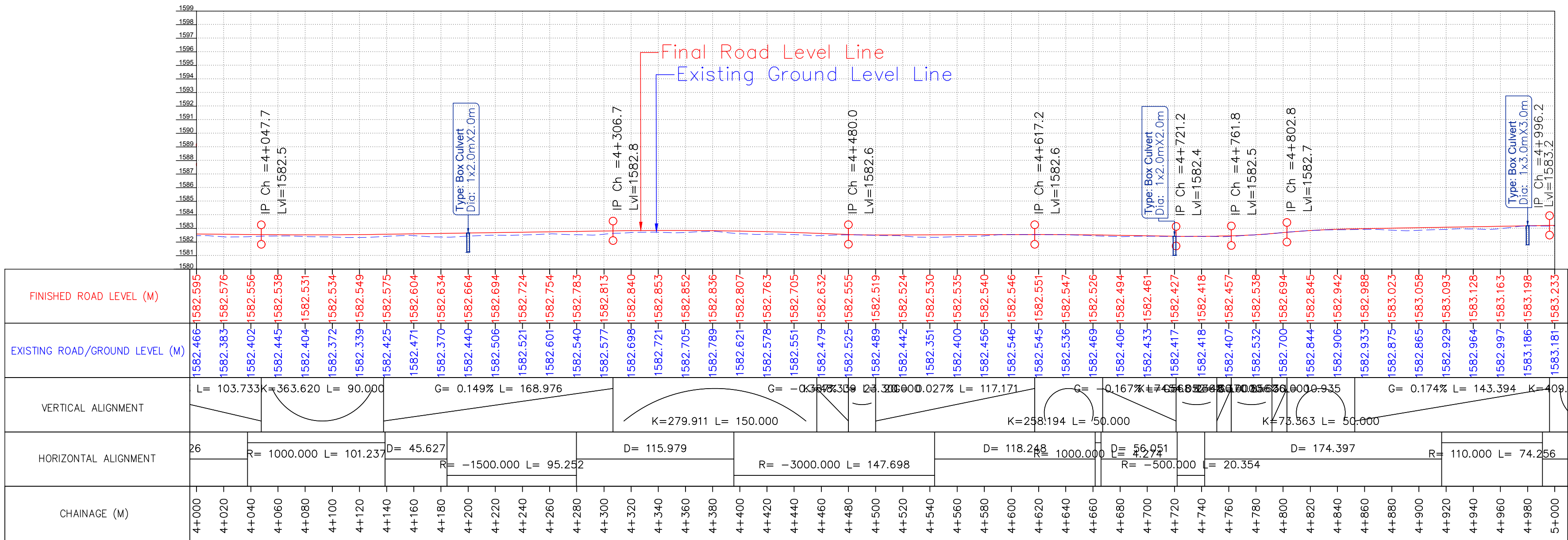
CHAINAGE (M)	HORIZONTAL ALIGNMENT	VERTICAL ALIGNMENT	EXISTING ROAD/GROUND LEVEL (M)	FINISHED ROAD LEVEL (M)
2+000	R = -2000.000 L = 8.425	8% L = 170.122	1582.731	1582.834
2+020			1582.711	1582.839
2+040	D = 142.734	K = 557.163 L = 100.000	1582.678	1582.845
2+060			1582.739	1582.850
2+080	R = 500.000	G = 0.208% L = 108.965	1582.794	1582.856
2+100			1582.803	1582.862
2+120	D = 109.142	G = 0.208% L = 108.965	1582.860	1582.873
2+140			1582.892	1582.891
2+160	R = 500.000	G = 0.208% L = 108.965	1582.864	1582.916
2+180			1582.886	1582.948
2+200	L = 9.983	G = 0.208% L = 108.965	1582.932	1582.988
2+220			1582.946	1583.029
2+240	D = 168.026	K = 41.823 L = 50.000	1583.032	1583.071
2+260			1583.085	1583.112
2+280	R = -1000.000	L = 52.984	1583.125	1583.154
2+300			1583.103	1583.195
2+320	D = 92.564	K = 41.823 L = 50.000	1583.184	1583.239
2+340			1583.257	1583.291
2+360	R = 100.000	L = 13.846	1583.248	1583.350
2+380			1583.340	1583.412
2+400	D = 104.750	K = 41.823 L = 50.000	1583.420	1583.473
2+420			1583.451	1583.481
2+440	R = -450.000	L = 75.249	1583.409	1583.469
2+460			1583.367	1583.458
2+480	D = 42.667	R = -30.000	1583.375	1583.446
2+500			1583.325	1583.435
2+520	R = 100.000	L = 13.846	1583.282	1583.387
2+540			1583.206	1583.244
2+560	D = 104.750	K = 44.360 L = 30.000	1582.981	1583.022
2+580			1582.885	1582.926
2+600	R = -450.000	L = 75.249	1582.929	1582.953
2+620			1582.945	1582.983
2+640	D = 42.667	R = -30.000	1582.911	1583.013
2+660			1582.884	1583.042
2+680	R = 100.000	L = 13.846	1582.985	1583.072
2+700			1583.041	1583.056
2+720	D = 104.750	K = 44.360 L = 30.000	1582.889	1582.966
2+740			1582.928	1582.976
2+760	R = -450.000	L = 75.249	1583.097	1583.091
2+780			1583.188	1583.211
2+800	D = 42.667	R = -30.000	1583.296	1583.330
2+820			1583.333	1583.398
2+840	R = 100.000	L = 13.846	1583.347	1583.429
2+860			1583.311	1583.567
2+880	D = 104.750	K = 44.360 L = 30.000	1583.328	1583.364
2+900			1584.263	1585.790
2+920	R = -450.000	L = 75.249	1586.560	1587.158
2+940			1587.603	1587.367
2+960	D = 42.667	R = -30.000	1587.306	1588.812
2+980			1586.028	1586.255
3+000	D = 73.3	K = 164.930	1585.707	1585.760



CHAINAGE (M)	HORIZONTAL ALIGNMENT		VERTICAL ALIGNMENT	EXISTING ROAD/GROUND LEVEL (M)	FINISHED ROAD LEVEL (M)
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← Rambagh

Kadalbal →



CLIENT :



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2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



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Ph: 033-40347200
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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	HOR 1:2500 VER 1:250

TITLE :

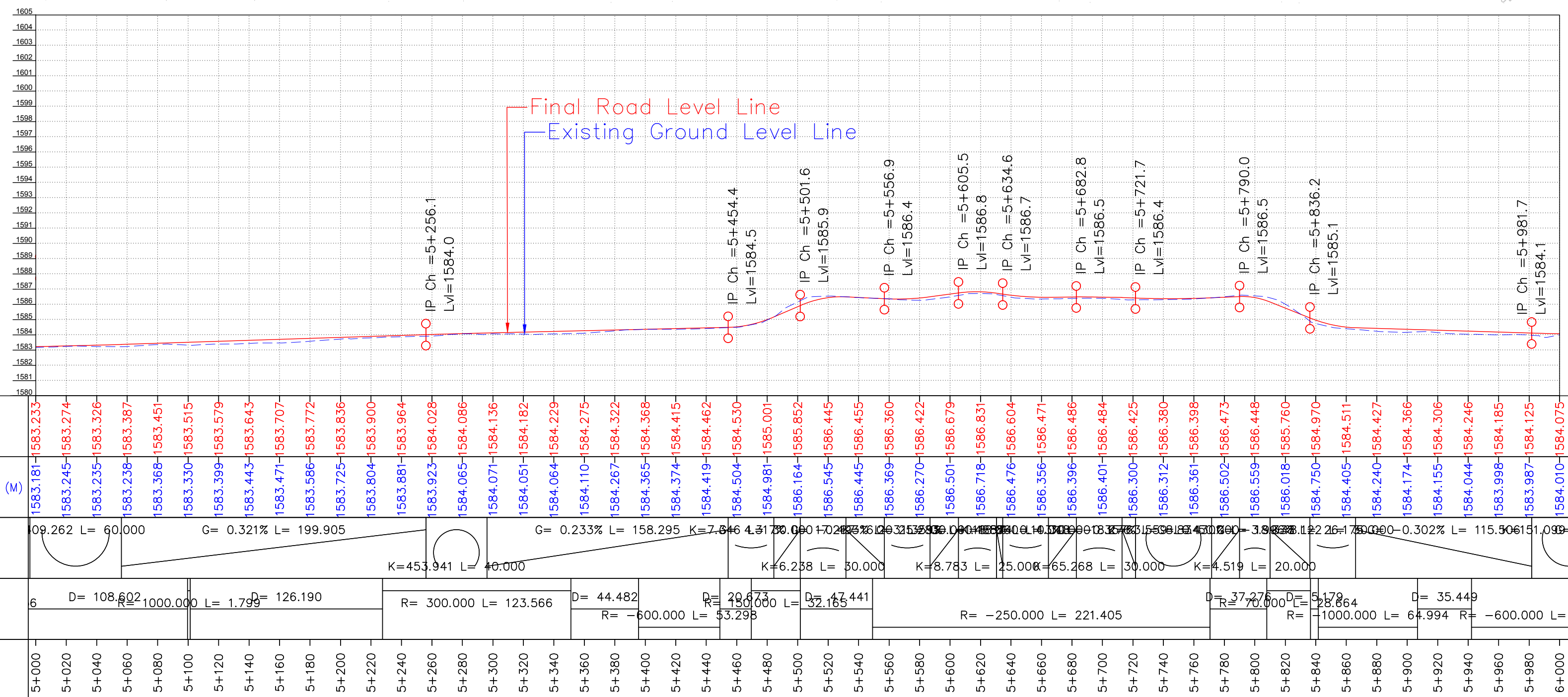
Plan and Profile
(km 4+000 to km 5+000)

DRG. NO. : EPTISA/JTRFP/DPR/J&K/PP/05

REVISION : R-1

August 2019

Kadalbal ➡



CHAINAGE (M)	HORIZONTAL ALIGNMENT	VERTICAL ALIGNMENT	EXISTING ROAD/GROUND LEVEL (M)	FINISHED ROAD LEVEL (M)
5+000	6 D = 108.602 R = 1000.000 L = 1.799	09.262 L = 60.000	1583.181	1583.233
5+020			1583.245	1583.274
5+040	D = 126.190 R = 1500.000 L = 123.566	G = 0.321% L = 199.905	1583.235	1583.326
5+060			1583.238	1583.387
5+080	R = 300.000 L = 123.566	K = 453.941 L = 40.000	1583.368	1583.451
5+100			1583.330	1583.515
5+120	D = 44.482 R = 600.000 L = 53.298	G = 0.233% L = 158.295 K = 7.846	1583.399	1583.579
5+140			1583.443	1583.643
5+160	D = 10.673 R = 1500.000 L = 32.165	K = 6.238 L = 30.000	1583.471	1583.707
5+180			1583.586	1583.772
5+200	D = 17.441 R = 1500.000 L = 32.165	K = 8.783 L = 25.000	1583.725	1583.836
5+220			1583.804	1583.900
5+240	D = 37.276 R = 70.000 L = 28.864	K = 65.268 L = 30.000	1583.881	1583.964
5+260			1583.923	1584.028
5+280	D = 35.449 R = 600.000 L = 64.994	K = 4.519 L = 20.000	1584.065	1584.086
5+300			1584.071	1584.136
5+320	D = 35.449 R = 600.000 L = 64.994	K = 4.519 L = 20.000	1584.051	1584.182
5+340			1584.064	1584.229
5+360	D = 35.449 R = 600.000 L = 64.994	K = 4.519 L = 20.000	1584.110	1584.275
5+380			1584.287	1584.322
5+400	D = 35.449 R = 600.000 L = 64.994	K = 4.519 L = 20.000	1584.365	1584.368
5+420			1584.374	1584.415
5+440	D = 35.449 R = 600.000 L = 64.994	K = 4.519 L = 20.000	1584.419	1584.462
5+460			1584.504	1584.530
5+480	D = 35.449 R = 600.000 L = 64.994	K = 4.519 L = 20.000	1584.981	1585.001
5+500			1586.164	1585.852
5+520	D = 35.449 R = 600.000 L = 64.994	K = 4.519 L = 20.000	1586.545	1586.445
5+540			1586.445	1586.455
5+560	D = 35.449 R = 600.000 L = 64.994	K = 4.519 L = 20.000	1586.369	1586.360
5+580			1586.270	1586.422
5+600	D = 35.449 R = 600.000 L = 64.994	K = 4.519 L = 20.000	1586.501	1586.679
5+620			1586.718	1586.831
5+640	D = 35.449 R = 600.000 L = 64.994	K = 4.519 L = 20.000	1586.476	1586.604
5+660			1586.356	1586.471
5+680	D = 35.449 R = 600.000 L = 64.994	K = 4.519 L = 20.000	1586.396	1586.486
5+700			1586.401	1586.484
5+720	D = 35.449 R = 600.000 L = 64.994	K = 4.519 L = 20.000	1586.300	1586.425
5+740			1586.312	1586.380
5+760	D = 35.449 R = 600.000 L = 64.994	K = 4.519 L = 20.000	1586.361	1586.398
5+780			1586.502	1586.473
5+800	D = 35.449 R = 600.000 L = 64.994	K = 4.519 L = 20.000	1586.559	1586.448
5+820			1586.018	1585.760
5+840	D = 35.449 R = 600.000 L = 64.994	K = 4.519 L = 20.000	1584.750	1584.970
5+860			1584.405	1584.511
5+880	D = 35.449 R = 600.000 L = 64.994	K = 4.519 L = 20.000	1584.240	1584.427
5+900			1584.174	1584.366
5+920	D = 35.449 R = 600.000 L = 64.994	K = 4.519 L = 20.000	1584.155	1584.306
5+940			1584.044	1584.246
5+960	D = 35.449 R = 600.000 L = 64.994	K = 4.519 L = 20.000	1583.998	1584.185
5+980			1583.987	1584.125
6+000			1584.010	1584.075



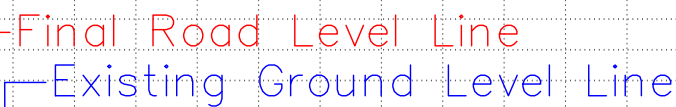
**JEHLUM & TAWI
FLOOD RECOVERY PROJECT**

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REV.	DATE	DESCRIPTION

August 2019

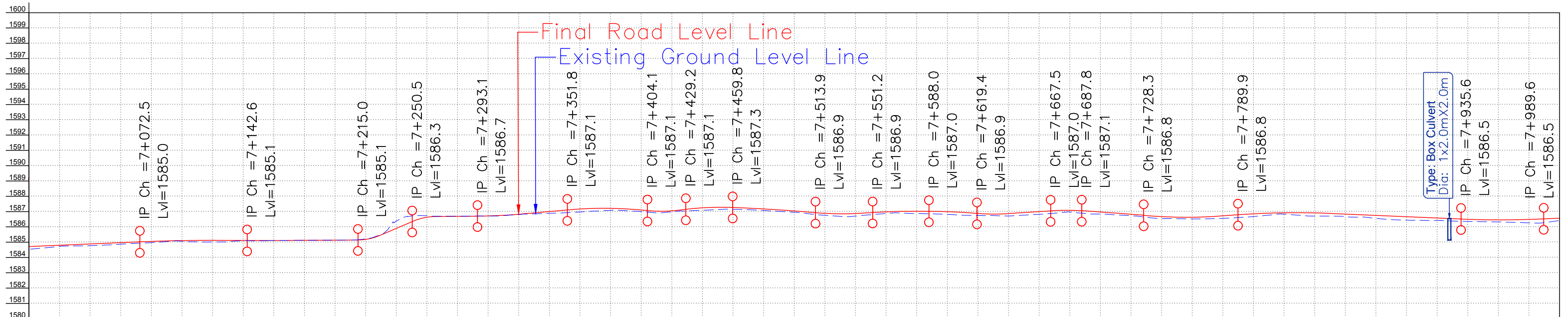
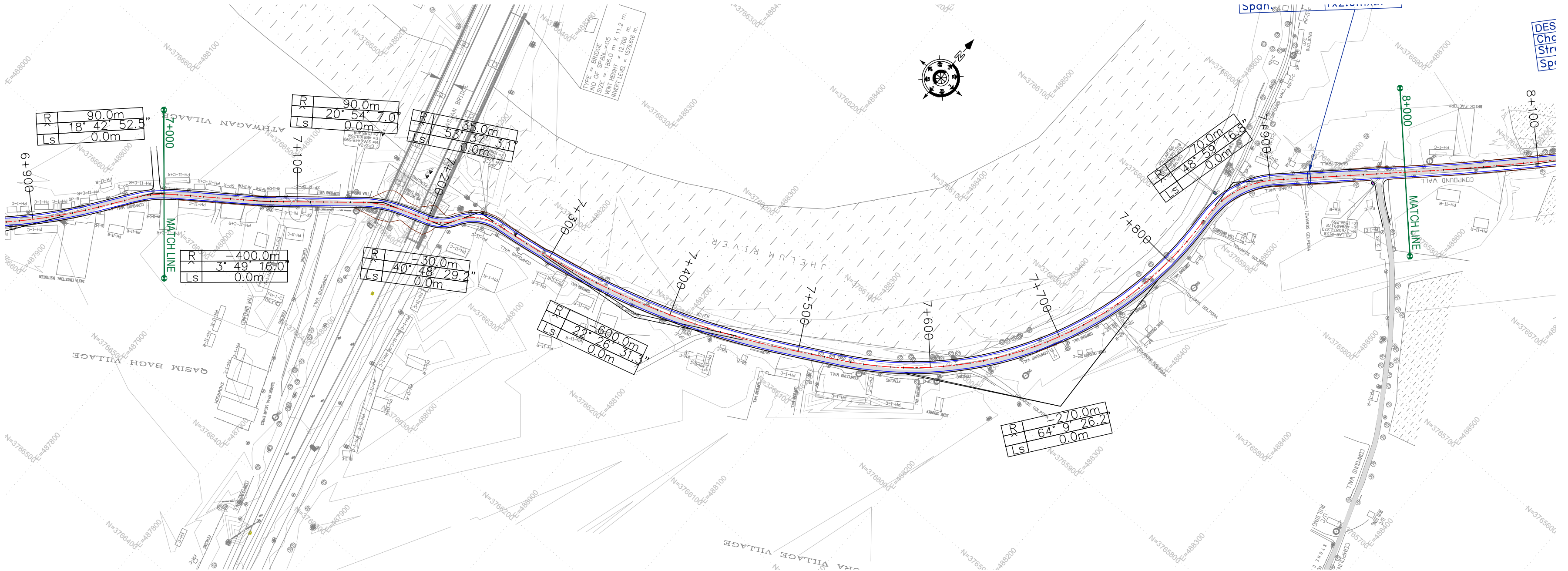
Kadalbal ➡



August 2019

← Rambagh

Kadalbal →



FINISHED ROAD LEVEL (M)	1584.717	1584.801	1584.886	1584.970	1585.052	1585.104	1585.120	1585.113	1585.111	1585.122	1585.135	1585.184	1585.901	1586.631	1586.691	1586.716	1586.825	1587.003	1587.170	1587.214	1587.107	1587.049	1587.246	1587.268	1587.175	1587.044	1586.887	1586.874	1586.984	1586.886	1586.995	1586.877	1586.870	1586.848	1587.000	1587.082	1586.856	1586.979	1586.828	1586.673	1586.633	1586.557	1586.923	1586.914	1586.683	1586.838	1586.571	1586.752	1586.446	1586.666	1586.418	1586.581	1586.360	1586.497	1586.330	1586.459	1586.268	1586.490	1586.403	1586.560
EXISTING ROAD/GROUND LEVEL (M)	1584.532	1584.726	1584.773	1584.869	1584.972	1585.058	1585.011	1585.107	1585.032	1585.076	1585.071	1585.222	1586.351	1586.664	1586.710	1586.708	1586.824	1586.871	1587.019	1587.094	1586.970	1586.922	1587.323	1587.150	1587.081	1586.949	1586.747	1586.751	1586.917	1586.886	1586.859	1586.741	1586.877	1586.724	1586.848	1586.997	1586.856	1586.843	1586.711	1586.683	1586.571	1586.446	1586.418	1586.360	1586.330	1586.268	1586.403													
VERTICAL ALIGNMENT	0.422% L= 82.252 G= 1584.532 L= 90.000 K=109.273 L= 50.000																																		-0.428% L= 86.54329 D=1586.009																									
HORIZONTAL ALIGNMENT	D= 55.884 R= -400.000 L= 26.676 D= 58.210 R= -30.000 L= 21.367 D= 12.249 R= -600.000 L= 235.012 D= 38.044 R= -270.000 L= 302.334 D= 10.575 R= 70.000 L= 59.850 D= 108.710																																																											
CHAINAGE (M)	7+000	7+020	7+040	7+060	7+080	7+100	7+120	7+140	7+160	7+180	7+200	7+220	7+240	7+260	7+280	7+300	7+320	7+340	7+360	7+380	7+400	7+420	7+440	7+460	7+480	7+500	7+520	7+540	7+560	7+580	7+600	7+620	7+640	7+660	7+680	7+700	7+720	7+740	7+760	7+780	7+800	7+820	7+840	7+860	7+880	7+900	7+920	7+940	7+960	7+980	8+000									

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:

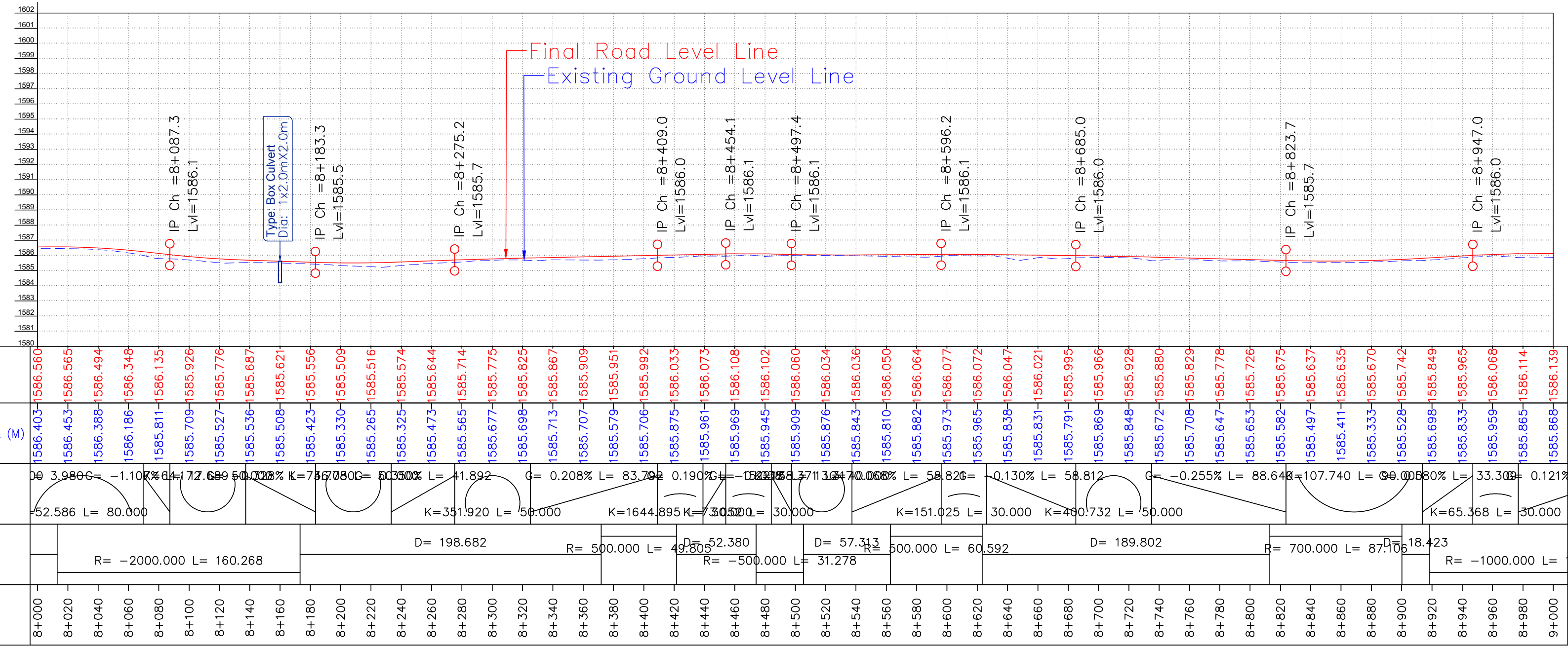
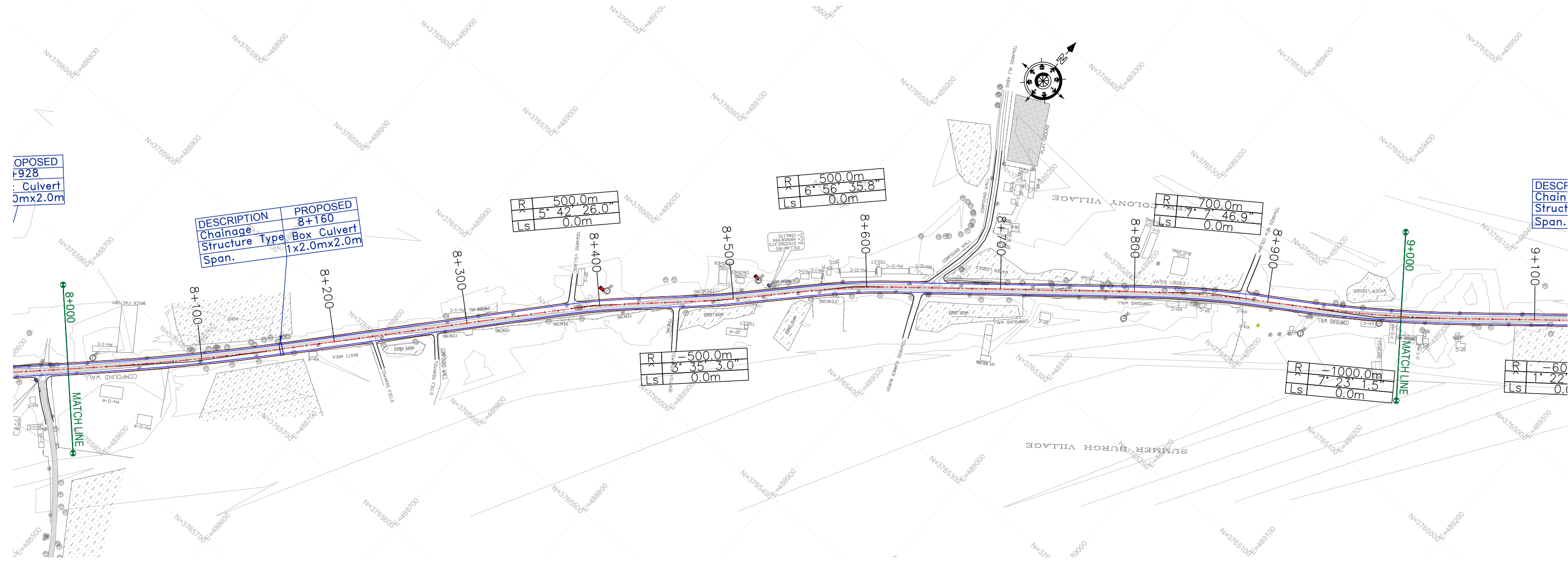


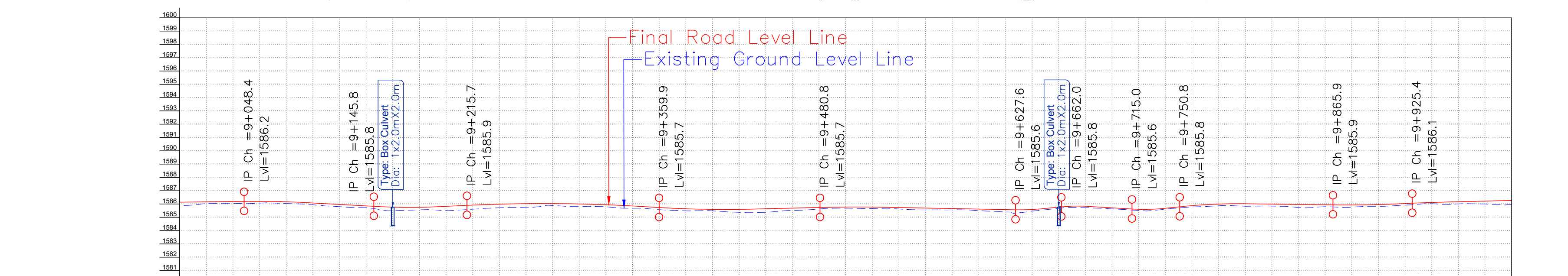
Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
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DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	HOR 1:2500 VER 1:250

TITLE :	Plan and Profile (km 7+000 to km 8+000)
DRG. NO. :	EPTISA/JTRP/DPR/J&K/PP/08
REVISION : R-1	August 2019

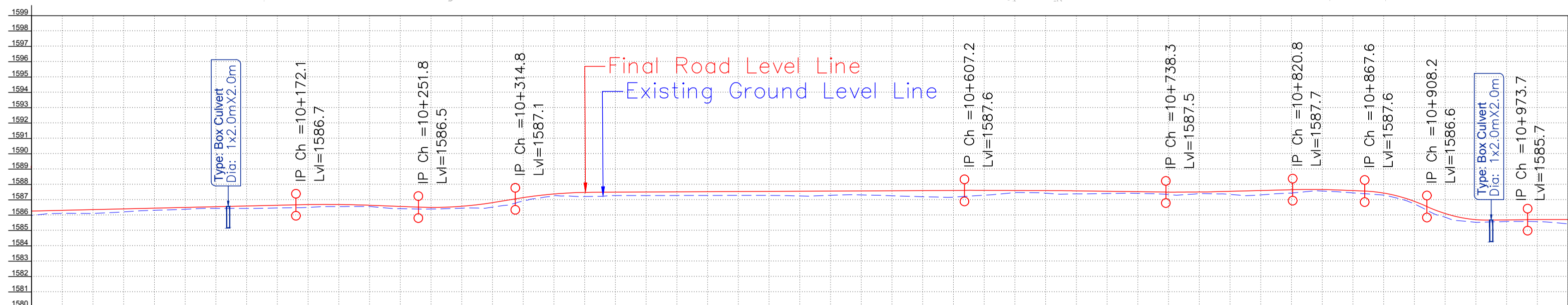




CHAINAGE (M)	HORIZONTAL ALIGNMENT	VERTICAL ALIGNMENT	EXISTING ROAD/GROUND LEVEL (M)	FINISHED ROAD LEVEL (M)
9+000	= 128.871	21% L= 71.446 K=74.071 L= 50.000	1585.868	1586.139
9+020			1586.027	1586.163
9+040	D= 85.734 R= -600.000	G= -0.554% K=48.732 L= 60.000	1586.052	1586.187
9+060			1586.063	1586.202
9+080	D= 120.143 L= 14.368	G= -0.554% K=48.732 L= 60.000	1586.040	1586.168
9+100			1585.955	1586.080
9+120	R= 1000.000 L= 42.852	G= -0.554% K=48.732 L= 60.000	1585.809	1585.970
9+140			1585.728	1585.859
9+160	D= 76.597 R= -1000.000 L= 155.113	G= -0.583% K=14.142 L= 70.000	1585.499	1585.769
9+180			1585.561	1585.757
9+200	D= 120.143 L= 14.368	G= -0.583% K=14.142 L= 70.000	1585.516	1585.825
9+220			1585.599	1585.918
9+240	R= 1000.000 L= 42.852	G= -0.583% K=14.142 L= 70.000	1585.716	1585.989
9+260			1585.732	1586.027
9+280	D= 76.597 R= -1000.000 L= 155.113	G= -0.583% K=14.142 L= 70.000	1585.893	1586.032
9+300			1585.806	1586.005
9+320	D= 120.143 L= 14.368	G= -0.583% K=14.142 L= 70.000	1585.800	1585.946
9+340			1585.684	1585.854
9+360	R= 1000.000 L= 42.852	G= -0.583% K=14.142 L= 70.000	1585.584	1585.737
9+380			1585.494	1585.644
9+400	D= 76.597 R= -1000.000 L= 155.113	G= -0.583% K=14.142 L= 70.000	1585.496	1585.598
9+420			1585.378	1585.599
9+440	D= 120.143 L= 14.368	G= -0.583% K=14.142 L= 70.000	1585.370	1585.642
9+460			1585.520	1585.691
9+480	R= 1000.000 L= 42.852	G= -0.583% K=14.142 L= 70.000	1585.618	1585.740
9+500			1585.695	1585.773
9+520	D= 76.597 R= -1000.000 L= 155.113	G= -0.583% K=14.142 L= 70.000	1585.654	1585.770
9+540			1585.634	1585.737
9+560	D= 120.143 L= 14.368	G= -0.193% L= 90.000	1585.556	1585.698
9+580			1585.557	1585.659
9+600	D= 76.597 R= -1000.000 L= 155.113	G= -0.193% L= 90.000	1585.513	1585.621
9+620			1585.409	1585.582
9+640	D= 120.143 L= 14.368	G= -0.193% L= 90.000	1585.313	1585.588
9+660			1585.534	1585.765
9+680	R= 1000.000 L= 42.852	G= -0.193% L= 90.000	1585.728	1585.832
9+700			1585.842	1585.713
9+720	D= 76.597 R= -1000.000 L= 155.113	G= -0.193% L= 90.000	1585.527	1585.602
9+740			1585.602	1585.679
9+760	D= 120.143 L= 14.368	G= -0.193% L= 90.000	1585.772	1585.878
9+780			1585.862	1585.997
9+800	R= 1000.000 L= 42.852	G= -0.128% L= 60.000	1585.837	1586.022
9+820			1585.846	1585.996
9+840	D= 76.597 R= -1000.000 L= 155.113	G= -0.128% L= 60.000	1585.750	1585.971
9+860			1585.795	1585.945
9+880	D= 120.143 L= 14.368	G= -0.128% L= 60.000	1585.760	1585.931
9+900			1585.855	1585.960
9+920	R= 1000.000 L= 42.852	G= -0.128% L= 60.000	1585.924	1586.035
9+940			1586.025	1586.117
9+960	D= 76.597 R= -1000.000 L= 155.113	G= -0.128% L= 60.000	1586.005	1586.173
9+980			1586.004	1586.220
10+000	R=	G= -0.128% L= 60.000	1585.971	1586.268

← Rambagh

Kadalbal →



FINISHED ROAD LEVEL (M)	1586.268	1586.315	1586.362	1586.410	1586.457	1586.505	1586.552	1586.600	1586.647	1586.691	1586.694	1586.647	1586.570	1586.507	1586.580	1586.816	1587.144	1587.379	1587.485	1587.499	1587.509	1587.519	1587.529	1587.539	1587.548	1587.558	1587.568	1587.578	1587.588	1587.598	1587.608	1587.616	1587.614	1587.603	1587.581	1587.556	1587.530	1587.505	1587.510	1587.557	1587.609	1587.661	1587.671	1587.603	1587.442	1586.901	1586.108	1585.709	1585.692	1585.714	1585.716																													
EXISTING ROAD/GROUND LEVEL (M)	1585.971	1586.114	1586.114	1586.206	1586.314	1586.381	1586.441	1586.442	1586.469	1586.505	1586.561	1586.564	1586.425	1586.402	1586.452	1586.508	1586.891	1587.244	1587.213	1587.277	1587.276	1587.275	1587.274	1587.273	1587.273	1587.273	1587.256	1587.291	1587.322	1587.271	1587.206	1587.170	1587.294	1587.465	1587.439	1587.389	1587.408	1587.424	1587.358	1587.400	1587.361	1587.313	1587.438	1587.576	1587.462	1587.317	1587.442	1586.783	1585.909	1585.546	1585.585	1585.584	1585.447																											
VERTICAL ALIGNMENT	G= 0.237% L= 216.717										G= -0.385% L= 24.295										G= 0.050% L= 242.360										G= -0.127% L= 76.609										G= 5.251% L= 39.002										G= 18.885% L= 142.200																													
HORIZONTAL ALIGNMENT	R= 1500.000 L= 216.717										D= 152.515										R= -200.000 L= 1.663										D= 34.624										D= 26.785										D= 55.243										D= 36.830										R= 200.000 L= 121.698									
CHAINAGE (M)	10+000	10+020	10+040	10+060	10+080	10+100	10+120	10+140	10+160	10+180	10+200	10+220	10+240	10+260	10+280	10+300	10+320	10+340	10+360	10+380	10+400	10+420	10+440	10+460	10+480	10+500	10+520	10+540	10+560	10+580	10+600	10+620	10+640	10+660	10+680	10+700	10+720	10+740	10+760	10+780	10+800	10+820	10+840	10+860	10+880	10+900	10+920	10+940	10+960	10+980	11+000																													

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	HOR 1:2500 VER 1:250

TITLE :

Plan and Profile
(km 10+000 to km 11+000)

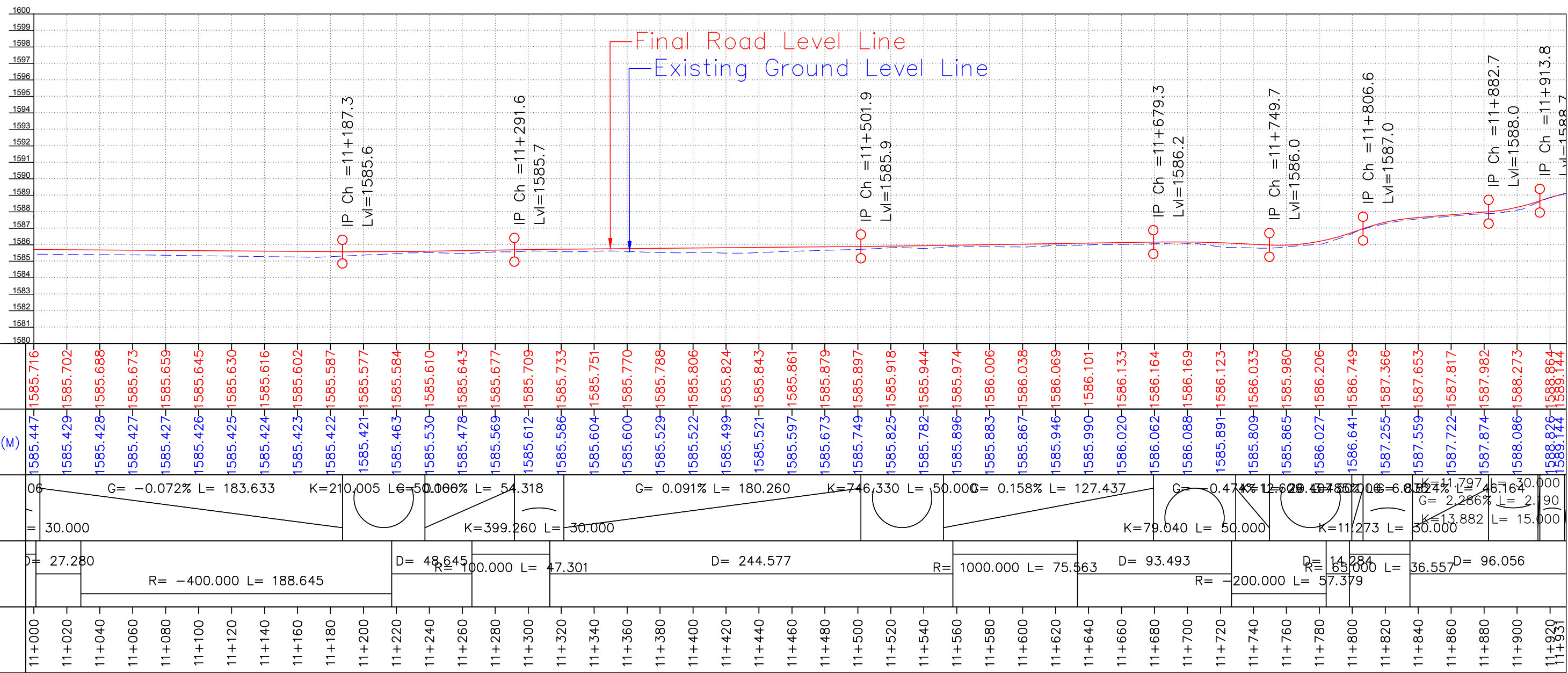
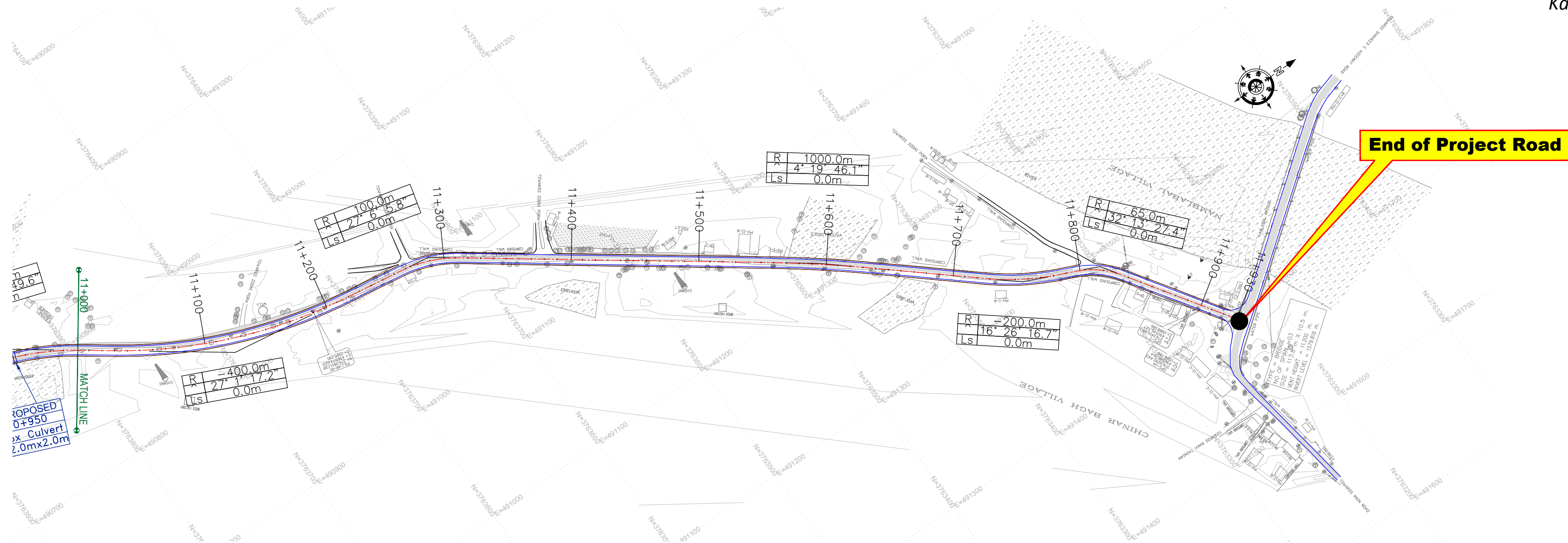
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REVISION : R-1

August 2019

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CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
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APPROVED BY :	KG
SCALE :	HOR 1:2500 VER 1:250

TITLE :

Plan and Profile
(km 11+000 to km 11+933)

DRG. NO. : EPTISA/JTRP/DPR/J&K/PP/12

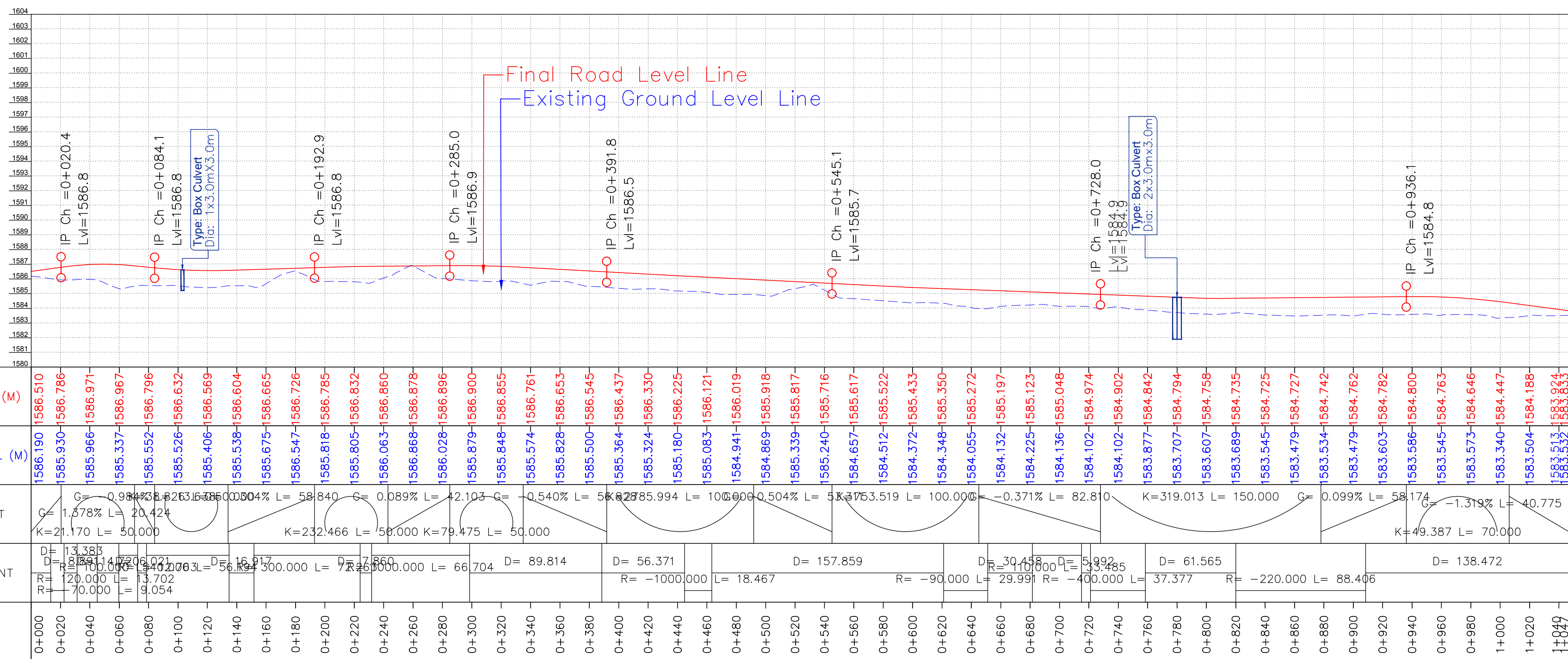
REVISION : R-1

August 2019

≡ PLAN PROFILE (FOR LINK ROAD NO.1) ≡

National Highway ➡

End of Link Road 01



**JEHLUM & TAWI
FLOOD RECOVERY PROJECT**

ep^tisa

REV.	DATE	DESCRIPTION

REVISION : R-1	August 2019
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HORIZONTAL ALIGNMENT REPORT

Horizontal Alignment Report																								
HIP No.	Start of Transition (TS)	Start of Curve	HIP	End of Curve	End of Transition (ST)	HIP Coordinates		Radius	Design Speed (V kmph)	Transition Start Length	Transition End Length	Circular Curve Length	Shift (s)		Tangent Length (Ts)		qs (°)		Dc (°)	D (°)	Apex Distance (Es)	Hand of Curve	e%	Extra Widening
		PC / SC		CS / PT		Easting	Northing						Leading	Trailing	Leading	Trailing	Leading	Trailing						
1	0+001.410	0+001.410	0+007.306	0+013.093	0+013.093	481982.304	3768139.791	35	25	0.00	0.00	11.68	0.000	0.000	5.90	5.90	0.00	0.00	19.13	19.13	0.493	Left	5.00	1.5
2	0+056.458	0+056.458	0+075.678	0+094.885	0+094.885	482048.046	3768158.966	600	40	0.00	0.00	38.43	0.000	0.000	19.22	19.22	0.00	0.00	3.67	3.67	0.308	Right	2.50	0
3	0+158.994	0+158.994	0+222.899	0+285.733	0+285.733	482191.740	3768191.062	400	40	0.00	0.00	126.74	0.000	0.000	63.91	63.91	0.00	0.00	18.15	18.15	5.073	Left	2.50	0
4	0+294.349	0+294.349	0+297.202	0+300.055	0+300.055	482256.519	3768229.595	500	40	0.00	0.00	5.71	0.000	0.000	2.85	2.85	0.00	0.00	0.65	0.65	0.008	Left	2.50	0
5	0+453.350	0+453.350	0+470.092	0+486.831	0+486.831	482404.092	3768319.670	1000	40	0.00	0.00	33.48	0.000	0.000	16.74	16.74	0.00	0.00	1.92	1.92	0.140	Right	2.50	0
6	0+545.460	0+545.460	0+554.523	0+563.585	0+563.585	482477.593	3768361.222	1000	40	0.00	0.00	18.13	0.000	0.000	9.06	9.06	0.00	0.00	1.04	1.04	0.041	Left	2.50	0
7	0+612.879	0+612.879	0+628.226	0+643.571	0+643.571	482541.086	3768398.651	1000	40	0.00	0.00	30.69	0.000	0.000	15.35	15.35	0.00	0.00	1.76	1.76	0.118	Right	2.50	0
8	0+692.424	0+692.424	0+699.998	0+707.569	0+707.569	482604.006	3768433.185	300	40	0.00	0.00	15.15	0.000	0.000	7.57	7.57	0.00	0.00	2.89	2.89	0.096	Left	2.50	0.6
9	0+737.187	0+737.187	0+773.225	0+808.920	0+808.920	482666.343	3768471.615	300	40	0.00	0.00	71.73	0.000	0.000	36.04	36.04	0.00	0.00	13.70	13.70	2.157	Right	2.50	0.6
10	0+887.730	0+887.730	0+894.387	0+901.044	0+901.044	482781.932	3768509.067	900	40	0.00	0.00	13.31	0.000	0.000	6.66	6.66	0.00	0.00	0.85	0.85	0.025	Right	2.50	0
11	0+998.664	0+998.664	1+004.960	1+011.254	1+011.254	482887.614	3768541.590	300	25	0.00	0.00	12.59	0.000	0.000	6.30	6.30	0.00	0.00	2.40	2.40	0.066	Right	2.50	0.6
12	1+164.516	1+164.516	1+194.099	1+223.675	1+223.675	483070.563	3768589.590	1500	40	0.00	0.00	59.16	0.000	0.000	29.58	29.58	0.00	0.00	2.26	2.26	0.292	Left	2.50	0
13	1+285.741	1+285.741	1+288.434	1+291.126	1+291.126	483160.802	3768617.110	300	40	0.00	0.00	5.38	0.000	0.000	2.69	2.69	0.00	0.00	1.03	1.03	0.012	Left	2.50	0.6
14	1+342.694	1+342.694	1+375.238	1+406.788	1+406.788	483243.363	3768643.919	150	40	0.00	0.00	64.09	0.000	0.000	32.54	32.54	0.00	0.00	24.48	24.48	3.490	Right	4.74	0.6
15	1+488.217	1+488.217	1+507.004	1+525.786	1+525.786	483375.271	3768628.907	1000	40	0.00	0.00	37.57	0.000	0.000	18.79	18.79	0.00	0.00	2.15	2.15	0.176	Left	2.50	0
16	1+563.163	1+563.163	1+630.008	1+696.655	1+696.655	483497.927	3768619.598	1000	40	0.00	0.00	133.49	0.000	0.000	66.85	66.85	0.00	0.00	7.65	7.65	2.232	Right	2.50	0
17	1+747.442	1+747.442	1+780.684	1+812.869	1+812.869	483645.511	3768588.258	150	40	0.00	0.00	65.43	0.000	0.000	33.24	33.24	0.00	0.00	24.99	24.99	3.639	Right	4.74	0.6
18	2+043.902	2+043.902	2+048.114	2+052.326	2+052.326	483859.990	3768426.754	2000	40	0.00	0.00	8.42	0.000	0.000	4.21	4.21	0.00	0.00	0.24	0.24	0.004	Left	2.50	0
19	2+195.060	2+195.060	2+200.051	2+205.042	2+205.042	483981.749	3768335.870	500	40	0.00	0.00	9.98	0.000	0.000	4.99	4.99	0.00	0.00	1.14	1.14	0.025	Right	2.50	0
20	2+314.185	2+314.185	2+316.968	2+319.751	2+319.751	484074.028	3768264.077	500	40	0.00	0.00	5.57	0.000	0.000	2.78	2.78	0.00	0.00	0.64	0.64	0.008	Right	2.50	0
21	2+487.777	2+487.777	2+514.275	2+540.761	2+540.761	484228.399	3768141.196	1000	40	0.00	0.00	52.98	0.000	0.000	26.50	26.50	0.00	0.00	3.04	3.04	0.351	Left	2.50	0
22	2+633.325	2+633.325	2+640.260	2+647.172	2+647.172	484330.994	3768068.057	100	40	0.00	0.00	13.85	0.000	0.000	6.93	6.93	0.00	0.00	7.93	7.93	0.240	Right	5.00	0.9
23	2+751.922	2+751.922	2+789.632	2+827.166	2+827.166	484439.508	3767965.376	450	35	0.00	0.00	75.24	0.000	0.000	37.71	37.71	0.00	0.00	9.58	9.58	1.577	Left	2.50	0
24	2+869.833	2+869.833	2+885.987	2+899.470	2+899.470	484519.689	3767911.623	30	20	0.00	0.00	29.64	0.000	0.000	16.15	16.15	0.00	0.00	56.60	56.60	4.073	Left	5.00	1.5
25	2+966.966	2+966.966	2+979.759	2+990.141	2+990.141	484608.619	3767948.941	22	20	0.00	0.00	23.18	0.000	0.000	12.79	12.79	0.00	0.00	60.36	60.36	3.449	Right	5.00	1.5
26	3+036.546	3+036.546	3+051.513	3+066.326	3+066.326	484667.386	3767903.697	120	40	0.00	0.00	29.78	0.000	0.000	14.97	14.97	0.00	0.00	14.22	14.22	0.930	Left	5.00	0.6
27	3+084.891	3+084.891	3+101.448	3+115.821	3+115.821	484713.365	3767883.826	35	25	0.00	0.00	30.93	0.000	0.000	16.56	16.56	0.00	0.00	50.63	50.63	3.719	Left	5.00	1.5
28	3+206.150	3+206.150	3+229.324	3+252.496	3+252.496	484828.979	3767943.397	2000	40	0.00	0.00	46.35	0.000	0.000	23.17	23.17	0.00	0.00	1.33	1.33	0.134	Right	2.50	0
29	3+367.949	3+367.949	3+401.495	3+431.477	3+431.477	484983.816	3768018.689	80	35	0.00	0.00	63.53	0.000	0.000	33.55	33.55	0.00	0.00	45.50	45.50	6.749	Right	5.00	0.9
30	3+497.603	3+497.603	3+508.059	3+518.515	3+518.515	485087.586	3767981.807	1000	40	0.00	0.00	20.91	0.000	0.000	10.46	10.46	0.00	0.00	1.20	1.20	0.055	Left	2.50	0
31	3+566.766	3+566.766	3+642.774	3+717.976	3+717.976	485215.437	3767939.356	600	40	0.00	0.00	151.21	0.000	0.000	76.01	76.01	0.00	0.00	14.44	14.44	4.795	Left	2.50	0
32	3+729.524	3+729.524	3+737.683	3+745.842	3+745.842	485310.927	3767932.799	1000	40	0.00	0.00	16.32	0.000	0.000	8.16	8.16	0.00	0.00	0.93	0.93	0.033	Left	2.50	0

Horizontal Alignment Report																								
HIP No.	Start of Transition (TS)	Start of Curve	HIP	End of Curve	End of Transition (ST)	HIP Coordinates		Radius	Design Speed (V kmph)	Transition Start Length	Transition End Length	Circular Curve Length	Shift (s)		Tangent Length (Ts)		qs (°)		Dc (°)	D (°)	Apex Distance (Es)	Hand of Curve	e%	Extra Widening
		PC / SC		CS / PT		Easting	Northing						Leading	Trailing	Leading	Trailing	Leading	Trailing						
51	6+285.944	6+285.944	6+299.288	6+312.316	6+312.316	487520.933	3767039.497	70	35	0.00	0.00	26.37	0.000	0.000	13.34	13.34	0.00	0.00	21.59	21.59	1.261	Left	5.00	0.9
52	6+341.681	6+341.681	6+355.537	6+369.348	6+369.348	487570.551	3767012.339	200	40	0.00	0.00	27.67	0.000	0.000	13.86	13.86	0.00	0.00	7.93	7.93	0.479	Right	3.56	0.6
53	6+492.831	6+492.831	6+498.904	6+504.976	6+504.976	487685.654	3766926.793	500	40	0.00	0.00	12.14	0.000	0.000	6.07	6.07	0.00	0.00	1.39	1.39	0.037	Right	2.50	0
54	6+546.357	6+546.357	6+631.359	6+713.870	6+713.870	487790.014	3766845.223	400	40	0.00	0.00	167.51	0.000	0.000	85.00	85.00	0.00	0.00	23.99	23.99	8.932	Right	2.50	0
55	6+763.748	6+763.748	6+859.535	6+951.781	6+951.781	487898.283	3766641.544	400	40	0.00	0.00	188.03	0.000	0.000	95.79	95.79	0.00	0.00	26.93	26.93	11.309	Left	2.50	0
56	6+977.801	6+977.801	6+992.632	7+007.198	7+007.198	488010.111	3766563.030	90	40	0.00	0.00	29.40	0.000	0.000	14.83	14.83	0.00	0.00	18.71	18.71	1.214	Right	5.00	0.9
57	7+063.082	7+063.082	7+076.425	7+089.758	7+089.758	488059.771	3766495.210	400	40	0.00	0.00	26.68	0.000	0.000	13.34	13.34	0.00	0.00	3.82	3.82	0.222	Left	2.50	0
58	7+147.968	7+147.968	7+164.569	7+180.800	7+180.800	488116.475	3766427.714	90	40	0.00	0.00	32.83	0.000	0.000	16.60	16.60	0.00	0.00	20.90	20.90	1.518	Right	5.00	0.9
59	7+200.143	7+200.143	7+211.302	7+221.510	7+221.510	488131.913	3766383.213	30	20	0.00	0.00	21.37	0.000	0.000	11.16	11.16	0.00	0.00	40.81	40.81	2.008	Left	5.00	1.5
60	7+222.690	7+222.690	7+240.376	7+255.443	7+255.443	488157.900	3766368.173	35	25	0.00	0.00	32.75	0.000	0.000	17.69	17.69	0.00	0.00	53.62	53.62	4.215	Right	5.00	1.5
61	7+258.398	7+258.398	7+377.430	7+493.411	7+493.411	488173.282	3766229.349	600	40	0.00	0.00	235.01	0.000	0.000	119.03	119.03	0.00	0.00	22.44	22.44	11.693	Left	2.50	0
62	7+531.454	7+531.454	7+700.684	7+833.788	7+833.788	488330.304	3765943.308	270	40	0.00	0.00	302.33	0.000	0.000	169.23	169.23	0.00	0.00	64.16	64.16	48.652	Left	2.63	0.6
63	7+844.363	7+844.363	7+876.255	7+904.213	7+904.213	488541.726	3765954.099	70	35	0.00	0.00	59.85	0.000	0.000	31.89	31.89	0.00	0.00	48.99	48.99	6.923	Right	5.00	0.9
64	8+012.924	8+012.924	8+093.101	8+173.192	8+173.192	488694.909	3765795.107	2000	40	0.00	0.00	160.27	0.000	0.000	80.18	80.18	0.00	0.00	4.59	4.59	1.606	Left	2.50	0
65	8+371.874	8+371.874	8+396.797	8+421.679	8+421.679	488922.517	3765593.914	500	40	0.00	0.00	49.81	0.000	0.000	24.92	24.92	0.00	0.00	5.71	5.71	0.621	Right	2.50	0
66	8+474.058	8+474.058	8+489.702	8+505.336	8+505.336	488985.690	3765525.737	500	40	0.00	0.00	31.28	0.000	0.000	15.64	15.64	0.00	0.00	3.58	3.58	0.245	Left	2.50	0
67	8+562.649	8+562.649	8+592.982	8+623.241	8+623.241	489060.492	3765454.509	500	40	0.00	0.00	60.59	0.000	0.000	30.33	30.33	0.00	0.00	6.94	6.94	0.919	Right	2.50	0
68	8+813.042	8+813.042	8+856.651	8+900.148	8+900.148	489228.108	3765250.877	700	40	0.00	0.00	87.11	0.000	0.000	43.61	43.61	0.00	0.00	7.13	7.13	1.357	Right	2.50	0
69	8+918.571	8+918.571	8+983.095	9+047.441	9+047.441	489295.788	3765143.938	1000	40	0.00	0.00	128.87	0.000	0.000	64.52	64.52	0.00	0.00	7.38	7.38	2.080	Left	2.50	0
70	9+133.175	9+133.175	9+140.359	9+147.543	9+147.543	489396.385	3765022.824	600	40	0.00	0.00	14.37	0.000	0.000	7.18	7.18	0.00	0.00	1.37	1.37	0.043	Left	2.50	0
71	9+267.686	9+267.686	9+289.115	9+310.538	9+310.538	489494.144	3764910.701	1000	40	0.00	0.00	42.85	0.000	0.000	21.43	21.43	0.00	0.00	2.46	2.46	0.230	Right	2.50	0
72	9+387.135	9+387.135	9+464.848	9+542.249	9+542.249	489603.855	3764773.414	1000	40	0.00	0.00	155.11	0.000	0.000	77.71	77.71	0.00	0.00	8.89	8.89	3.015	Left	2.50	0
73	9+662.394	9+662.394	9+662.916	9+663.437	9+663.437	489750.156	3764639.434	20	20	0.00	0.00	1.04	0.000	0.000	0.52	0.52	0.00	0.00	2.99	2.99	0.007	Left	5.00	1.5
74	9+808.128	9+808.128	9+856.462	9+904.744	9+904.744	489899.511	3764516.336	1200	40	0.00	0.00	96.62	0.000	0.000	48.33	48.33	0.00	0.00	4.61	4.61	0.973	Left	2.50	0
75	10+020.387	10+020.387	10+043.583	10+066.775	10+066.775	490053.055	3764409.293	1500	40	0.00	0.00	46.39	0.000	0.000	23.20	23.20	0.00	0.00	1.77	1.77	0.179	Right	2.50	0
76	10+110.045	10+110.045	10+115.890	10+121.734	10+121.734	490111.066	3764366.125	600	40	0.00	0.00	11.69	0.000	0.000	5.84	5.84	0.00	0.00	1.12	1.12	0.028	Right	2.50	0
77	10+274.249	10+274.249	10+294.117	10+313.855	10+313.855	490251.951	3764256.961	200	40	0.00	0.00	39.61	0.000	0.000	19.87	19.87	0.00	0.00	11.35	11.35	0.984	Left	3.56	0.6
78	10+323.296	10+323.296	10+334.640	10+345.403	10+345.403	490288.356	3764238.871	40	25	0.00	0.00	22.11	0.000	0.000	11.34	11.34	0.00	0.00	31.67	31.67	1.577	Right	5.00	1.5
79	10+445.506	10+445.506	10+446.338	10+447.169	10+447.169	490347.704	3764143.560	300	40	0.00	0.00	1.66	0.000	0.000	0.83	0.83	0.00	0.00	0.32	0.32	0.001	Left	2.50	0.6
80	10+522.150	10+522.150	10+562.921	10+603.195	10+603.195	490409.875	3764044.937	300	40	0.00	0.00	81.05	0.000	0.000	40.77	40.77	0.00	0.00	15.48	15.48	2.758	Left	2.50	0.6
81	10+637.820	10+637.820	10+651.109	10+664.358	10+664.358	490475.474	3763985.258	200	40	0.00	0.00	26.54	0.000	0.000	13.29	13.29	0.00	0.00	7.60	7.60	0.441	Left	3.56	0.6
82	10+691.143	10+691.143	10+711.898	10+732.072	10+732.072	490525.489	3763950.636	100	40	0.00	0.00	40.93	0.000	0.000	20.76	20.76	0.00	0.00	23.45	23.45	2.131	Left	5.00	0.9
83	10+787.316	10+787.316	10+815.092	10+842.710	10+842.710	490627.273	3763930.406	300	40	0.00	0.00	55.39	0.000	0.000	27.78	27.78	0.00	0.00	10.58	10.58	1.283	Left	2.50	0.6
84	10+879.540	10+879.540	10+942.339	11+001.238	11+001.238	490754.669	3763928.935	200	40	0.00	0.00	121.70	0.000	0.000	62.80	62.80	0.00	0.00	34.86	34.86	9.627	Right	3.56	0.6
85	11+028.518	11+028.518	11+124.629	11+217.163	11+217.163	490906.201	3763820.747	400	40	0.00	0.00	188.65	0.000	0.000	96.11	96.11	0.00	0.00	27.02	27.02	11.385	Left	2.50	0
86	11+265.808	11+265.808	11+289.910	11+313.110	11+313.110	491073.202	3763795.777	100	40	0.00	0.00	47.30	0.000	0.000	24.10	24.10	0.00	0.00	27.10	27.10	2.864	Right	5.00	0.9
87	11+557.687	11+557.687	11+595.486	11+633.250	11+633.250	491322.383	3763617.345	1000	40	0.00	0.00	75.56	0.000	0.000	37.80	37.80	0.00	0.00	4.33	4.33	0.714	Right	2.50	0
88	11+726.743	11+726.743	11+755.631	11+784.122	11+784.122	491445.205	3763514.522	200	40	0.00	0.00	57.38	0.000	0.000	28.89	28.89	0.00	0.00	16.44	16.44	2.076	Left	3.56	0.6
89	11+798.406	11+798.406	11+817.182	11+834.963	11+834.963	491502.016	3763489.823	65	30	0.00	0.00	36.56	0.000	0.000	18.78	18.78	0.00	0.00	32.22	32.22	2.658	Right	5.00	0.9

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	N.T.S

TITLE : Horizontal Alignment Report	
DRG. NO. : EPTISA/JTRP/DPR/J&K/HAR/02	
REVISION : R-1	August 2019

≡ HORIZONTAL ALIGNMENT REPORT (FOR LINK ROAD NO.1) ≡

Horizontal Alignment Report																								
HIP No.	Start of Transition (TS)	Start of Curve	HIP	End of Curve	End of Transition (ST)	HIP Coordinates		Radius	Design Speed (V kmph)	Transition Start Length	Transition End Length	Circular Curve Length	Shift (s)		Tangent Length (Ts)		qs (°)		Dc (°)	D (°)	Apex Distance (Es)	Hand of Curve	e%	Extra Widening
		PC / SC		CS / PT		Easting	Northing						Leading	Trailing	Leading	Trailing	Leading	Trailing						
1	0+013.383	0+013.383	0+017.917	0+022.438	0+022.438	488602.137	3765860.121	70	30	0.00	0.00	9.06	0.000	0.000	4.53	4.53	0.00	0.00	7.41	7.41	0.147	Left	5.71	0.9
2	0+031.328	0+031.328	0+038.187	0+045.031	0+045.031	488590.321	3765843.635	120	40	0.00	0.00	13.70	0.000	0.000	6.86	6.86	0.00	0.00	6.54	6.54	0.196	Right	5.93	0.6
3	0+059.750	0+059.750	0+066.140	0+072.513	0+072.513	488571.545	3765822.906	100	40	0.00	0.00	12.76	0.000	0.000	6.39	6.39	0.00	0.00	7.31	7.31	0.204	Right	7.00	0.9
4	0+078.534	0+078.534	0+106.656	0+134.728	0+134.728	488540.731	3765796.573	540	40	0.00	0.00	56.19	0.000	0.000	28.12	28.12	0.00	0.00	5.96	5.96	0.732	Right	2.50	0
5	0+151.645	0+151.645	0+187.952	0+223.908	0+223.908	488473.734	3765750.435	300	40	0.00	0.00	72.26	0.000	0.000	36.31	36.31	0.00	0.00	13.80	13.80	2.189	Right	2.50	0.6
6	0+231.767	0+231.767	0+265.131	0+298.471	0+298.471	488401.233	3765722.963	1000	40	0.00	0.00	66.70	0.000	0.000	33.36	33.36	0.00	0.00	3.82	3.82	0.556	Right	2.50	0
7	0+310.005	0+310.005	0+349.359	0+388.460	0+388.460	488320.634	3765698.427	400	40	0.00	0.00	78.46	0.000	0.000	39.35	39.35	0.00	0.00	11.24	11.24	1.931	Left	2.50	0
8	0+444.830	0+444.830	0+454.064	0+463.298	0+463.298	488228.106	3765648.880	1000	40	0.00	0.00	18.47	0.000	0.000	9.23	9.23	0.00	0.00	1.06	1.06	0.043	Left	2.50	0
9	0+621.157	0+621.157	0+636.293	0+651.148	0+651.148	488069.076	3765559.903	90	35	0.00	0.00	29.99	0.000	0.000	15.14	15.14	0.00	0.00	19.09	19.09	1.264	Left	6.05	0.9
10	0+681.606	0+681.606	0+698.479	0+715.091	0+715.091	488027.537	3765513.249	110	40	0.00	0.00	33.49	0.000	0.000	16.87	16.87	0.00	0.00	17.44	17.44	1.287	Right	6.46	0.6
11	0+721.083	0+721.083	0+739.785	0+758.460	0+758.460	487991.862	3765491.916	400	40	0.00	0.00	37.38	0.000	0.000	18.70	18.70	0.00	0.00	5.35	5.35	0.437	Left	2.50	0
12	0+820.025	0+820.025	0+864.833	0+908.431	0+908.431	487890.974	3765417.989	220	40	0.00	0.00	88.41	0.000	0.000	44.81	44.81	0.00	0.00	23.02	23.02	4.517	Left	3.23	0.6

≡ VERTICAL ALIGNMENT REPORT ≡

Vertical Alignment Report

PVI No.	Start		PVI Details		End		Gradient (%)		Type of Curve	Curve Lenght (m)	K-Value
	Chainage (Km)	Level(m)	Chainage (Km)	Level(m)	Chainage (Km)	Level(m)	IN	OUT			
1	0+002.634	1588.422	0+052.634	1590.521	0+102.634	1589.969	4.197	-1.105	Hog	100	18.86
2	0+107.294	1589.917	0+127.294	1589.696	0+147.294	1589.806	-1.105	0.550	Sag	40	24.17
3	0+171.739	1589.941	0+196.739	1590.079	0+221.739	1590.112	0.550	0.133	Hog	50	119.79
4	0+353.133	1590.287	0+363.133	1590.300	0+373.133	1590.367	0.133	0.675	Sag	20	36.88
5	0+438.081	1590.806	0+488.081	1591.144	0+538.081	1590.792	0.675	-0.704	Hog	100	72.52
6	0+639.677	1590.077	0+679.677	1589.796	0+719.677	1589.760	-0.704	-0.088	Sag	80	130.01
7	0+736.092	1589.746	0+751.092	1589.733	0+766.092	1589.579	-0.088	-1.028	Hog	30	31.94
8	0+831.173	1588.910	0+881.173	1588.396	0+931.173	1588.718	-1.028	0.643	Sag	100	59.86
9	0+933.544	1588.733	0+948.544	1588.829	0+963.544	1588.672	0.643	-1.051	Hog	30	17.71
10	0+977.535	1588.525	1+002.535	1588.262	1+027.535	1588.189	-1.051	-0.292	Sag	50	65.86
11	1+035.560	1588.166	1+055.560	1588.107	1+075.560	1587.957	-0.292	-0.749	Hog	40	87.37
12	1+075.898	1587.955	1+090.898	1587.842	1+105.898	1587.778	-0.749	-0.431	Sag	30	94.10
13	1+108.889	1587.765	1+128.889	1587.679	1+148.889	1587.343	-0.431	-1.677	Hog	40	32.09
14	1+151.344	1587.302	1+166.344	1587.051	1+181.344	1587.046	-1.677	-0.030	Sag	30	18.21
15	1+186.046	1587.045	1+196.046	1587.042	1+206.046	1587.012	-0.030	-0.294	Hog	20	75.91
16	1+242.743	1586.904	1+257.743	1586.860	1+272.743	1586.930	-0.294	0.463	Sag	30	39.67
17	1+284.116	1586.982	1+304.116	1587.075	1+324.116	1586.652	0.463	-2.112	Hog	40	15.54
18	1+332.266	1586.480	1+357.266	1585.952	1+382.266	1586.205	-2.112	1.012	Sag	50	16.01
19	1+456.057	1586.952	1+471.057	1587.103	1+486.057	1587.019	1.012	-0.560	Hog	30	19.09
20	1+498.286	1586.951	1+518.286	1586.839	1+538.286	1587.307	-0.560	2.341	Sag	40	13.79
21	1+573.816	1588.139	1+583.816	1588.373	1+593.816	1588.376	2.341	0.031	Hog	20	8.66
22	1+596.418	1588.377	1+603.918	1588.379	1+611.418	1588.291	0.031	-1.172	Hog	15	12.47
23	1+703.259	1587.215	1+718.259	1587.039	1+733.259	1587.354	-1.172	2.101	Sag	30	9.17
24	1+754.053	1587.791	1+774.053	1588.211	1+794.053	1587.141	2.101	-5.349	Hog	40	5.37
25	1+825.241	1585.473	1+875.241	1582.799	1+925.241	1582.813	-5.349	0.028	Sag	100	18.60
26	2+095.362	1582.860	2+145.362	1582.874	2+195.362	1582.978	0.028	0.208	Sag	100	557.16
27	2+304.268	1583.204	2+329.268	1583.256	2+354.268	1583.333	0.208	0.307	Sag	50	504.38
28	2+502.465	1583.434	2+527.465	1583.419	2+552.465	1583.106	-0.057	-1.253	Hog	50	41.82
29	2+553.443	1583.094	2+568.443	1582.906	2+583.443	1582.928	-1.253	0.149	Sag	30	21.40
30	2+679.692	1583.072	2+694.692	1583.094	2+709.692	1583.015	0.149	-0.527	Hog	30	44.36
31	2+714.622	1582.989	2+729.622	1582.910	2+744.622	1583.000	-0.527	0.597	Sag	30	26.69
32	2+806.021	1583.366	2+808.558	1583.381	2+811.094	1583.385	0.597	0.151	Hog	20	11.38
33	2+849.147	1583.442	2+869.164	1583.473	2+889.180	1584.977	0.151	7.515	Sag	40	5.44
34	2+911.148	1586.628	2+926.148	1587.755	2+941.148	1587.337	7.515	-2.786	Hog	30	2.91
35	2+985.549	1586.100	3+010.549	1585.404	3+035.549	1585.456	-2.786	0.210	Sag	50	16.69
36	3+157.254	1585.712	3+167.254	1585.733	3+177.254	1585.742	0.210	0.087	Hog	20	162.94
37	3+241.442	1585.798	3+256.442	1585.811	3+271.442	1585.800	0.087	-0.073	Hog	30	186.58
38	3+370.976	1585.727	3+385.976	1585.716	3+400.976	1584.805	-0.073	-6.072	Hog	30	5.00
39	3+406.523	1584.468	3+421.523	1583.557	3+436.523	1583.532	-6.072	-0.172	Sag	30	5.08
40	3+654.118	1583.158	3+694.118	1583.090	3+734.118	1582.933	-0.172	-0.392	Hog	80	363.17
41	3+746.471	1582.884	3+756.471	1582.845	3+766.471	1582.770	-0.392	-0.754	Hog	20	55.22
42	3+794.521	1582.558	3+819.521	1582.370	3+844.521	1582.447	-0.754	0.307	Sag	50	47.13
43	3+893.979	1582.598	3+918.979	1582.675	3+943.979	1582.650	0.307	-0.098	Hog	50	123.42
44	4+047.712	1582.548	4+092.712	1582.504	4+137.712	1582.571	-0.098	0.149	Sag	90	363.62
45	4+306.688	1582.823	4+381.688	1582.935	4+456.688	1582.645	0.149	-0.387	Hog	150	279.91
46	4+479.988	1582.555	4+489.988	1582.516	4+499.988	1582.519	-0.387	0.027	Sag	20	48.34
47	4+617.160	1582.550	4+642.160	1582.557	4+667.160	1582.516	0.027	-0.167	Hog	50	258.19
48	4+721.212	1582.425	4+736.212	1582.400	4+751.212	1582.436	-0.167	0.236	Sag	30	74.57
49	4+761.848	1582.461	4+776.848	1582.496	4+791.848	1582.625	0.236	0.856	Sag	30	48.37
50	4+802.784	1582.718	4+827.784	1582.932	4+852.784	1582.976	0.856	0.174	Hog	50	73.36

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
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Ph: 033-40347200
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REV.	DATE	DESCRIPTION
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DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : N.T.S

TITLE :

Vertical Alignment Report

DRG. NO. : EPTISA/JTRFP/DPR/J&K/VAR/01

REVISION : R-1

August 2019

Vertical Alignment Report

PVI No.	Start		PVI Details		End		Gradient (%)		Type of Curve	Curve Lenght (m)	K-Value
	Chainage (Km)	Level(m)	Chainage (Km)	Level(m)	Chainage (Km)	Level(m)	IN	OUT			
51	4+996.178	1583.226	5+026.178	1583.278	5+056.178	1583.374	0.174	0.321	Sag	60	409.26
52	5+256.083	1584.016	5+276.083	1584.080	5+296.083	1584.127	0.321	0.233	Hog	40	453.94
53	5+454.378	1584.495	5+469.378	1584.530	5+484.378	1585.177	0.233	4.317	Sag	30	7.35
54	5+501.645	1585.923	5+516.645	1586.570	5+531.645	1586.496	4.317	-0.493	Hog	30	6.24
55	5+556.928	1586.372	5+571.928	1586.298	5+586.928	1586.502	-0.493	1.359	Sag	30	16.20
56	5+605.503	1586.754	5+618.003	1586.924	5+630.503	1586.738	1.359	-1.488	Hog	25	8.78
57	5+634.550	1586.678	5+649.550	1586.454	5+664.550	1586.470	-1.488	0.103	Sag	30	18.86
58	5+682.826	1586.489	5+697.826	1586.504	5+712.826	1586.450	0.103	-0.357	Hog	30	65.27
59	5+721.660	1586.419	5+746.660	1586.330	5+771.660	1586.437	-0.357	0.430	Sag	50	63.56
60	5+789.998	1586.516	5+799.998	1586.559	5+809.998	1586.159	0.430	-3.996	Hog	20	4.52
61	5+836.173	1585.113	5+851.173	1584.514	5+866.173	1584.469	-3.996	-0.302	Sag	30	8.12
62	5+981.679	1584.120	6+006.679	1584.044	6+031.679	1584.051	-0.302	0.029	Sag	50	151.10
63	6+048.590	1584.056	6+063.590	1584.060	6+078.590	1584.025	0.029	-0.238	Hog	30	112.35
64	6+087.807	1584.003	6+107.807	1583.955	6+127.807	1583.837	-0.238	-0.590	Hog	40	113.72
65	6+140.003	1583.765	6+165.003	1583.617	6+190.003	1583.662	-0.590	0.177	Sag	50	65.17
66	6+218.363	1583.712	6+233.363	1583.738	6+248.363	1583.827	0.177	0.593	Sag	30	72.19
67	6+268.949	1583.949	6+293.949	1584.098	6+318.949	1583.919	0.593	-0.715	Hog	50	38.23
68	6+340.774	1583.763	6+355.774	1583.655	6+370.774	1583.685	-0.715	0.200	Sag	30	32.78
69	6+399.980	1583.744	6+424.980	1583.794	6+449.980	1583.739	0.200	-0.220	Hog	50	119.14
70	6+546.377	1583.527	6+566.377	1583.483	6+586.377	1583.564	-0.220	0.405	Sag	40	64.04
71	6+647.416	1583.812	6+662.416	1583.872	6+677.416	1583.914	0.405	0.278	Hog	30	235.65
72	6+705.298	1583.991	6+730.298	1584.061	6+755.298	1584.014	0.278	-0.189	Hog	50	107.24
73	6+758.379	1584.008	6+783.379	1583.961	6+808.379	1584.036	-0.189	0.302	Sag	50	101.90
74	6+840.231	1584.132	6+915.231	1584.359	6+990.231	1584.676	0.302	0.422	Sag	150	1249.70
75	7+072.483	1585.023	7+097.483	1585.128	7+122.483	1585.119	0.422	-0.035	Hog	50	109.27
76	7+142.620	1585.112	7+157.620	1585.107	7+172.620	1585.117	-0.035	0.066	Sag	30	294.99
77	7+214.997	1585.145	7+222.497	1585.150	7+229.997	1585.472	0.066	4.290	Sag	15	3.55
78	7+250.451	1586.349	7+257.951	1586.671	7+265.451	1586.678	4.290	0.092	Hog	15	3.57
79	7+293.087	1586.703	7+308.087	1586.717	7+323.087	1586.852	0.092	0.897	Sag	30	37.24
80	7+351.806	1587.109	7+376.806	1587.334	7+401.806	1587.090	0.897	-0.975	Hog	50	26.70
81	7+404.099	1587.068	7+414.099	1586.970	7+424.099	1587.088	-0.975	1.181	Sag	20	9.28
82	7+429.187	1587.148	7+444.187	1587.326	7+459.187	1587.271	1.181	-0.365	Hog	30	19.40
83	7+459.792	1587.269	7+484.792	1587.177	7+509.792	1586.965	-0.365	-0.850	Hog	50	103.09
84	7+513.904	1586.930	7+528.904	1586.803	7+543.904	1586.894	-0.850	0.610	Sag	30	20.55
85	7+551.248	1586.939	7+566.248	1587.030	7+581.248	1587.023	0.610	-0.051	Hog	30	45.41
86	7+588.003	1587.019	7+603.003	1587.012	7+618.003	1586.892	-0.051	-0.795	Hog	30	40.29
87	7+619.404	1586.881	7+629.404	1586.802	7+639.404	1586.867	-0.795	0.649	Sag	20	13.85
88	7+667.528	1587.049	7+677.528	1587.114	7+687.528	1587.057	0.649	-0.573	Hog	20	16.38
89	7+687.846	1587.055	7+707.846	1586.940	7+727.846	1586.760	-0.573	-0.901	Hog	40	122.04
90	7+728.294	1586.756	7+753.294	1586.531	7+778.294	1586.710	-0.901	0.718	Sag	50	30.89
91	7+789.904	1586.794	7+819.904	1587.009	7+849.904	1586.881	0.718	-0.428	Hog	60	52.34
92	7+935.647	1586.514	7+960.647	1586.407	7+985.647	1586.510	-0.428	0.415	Sag	50	59.33
93	7+989.628	1586.527	8+029.628	1586.693	8+069.628	1586.250	0.415	-1.107	Hog	80	52.59
94	8+087.317	1586.054	8+112.317	1585.778	8+137.317	1585.696	-1.107	-0.328	Sag	50	64.17
95	8+183.347	1585.545	8+208.347	1585.463	8+233.347	1585.550	-0.328	0.350	Sag	50	73.78
96	8+275.239	1585.697	8+300.239	1585.785	8+325.239	1585.837	0.350	0.208	Hog	50	351.92
97	8+409.032	1586.011	8+424.032	1586.042	8+439.032	1586.071	0.208	0.190	Hog	30	1644.90
98	8+454.069	1586.099	8+469.069	1586.128	8+484.069	1586.095	0.190	-0.221	Hog	30	73.05
99	8+497.386	1586.065	8+517.386	1586.021	8+537.386	1586.035	-0.221	0.068	Sag	40	138.37
100	8+596.207	1586.075	8+611.207	1586.085	8+626.207	1586.065	0.068	-0.130	Hog	30	151.03

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
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REV.	DATE	DESCRIPTION
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DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : N.T.S

TITLE :

Vertical Alignment Report

DRG. NO. : EPTISA/JTRFP/DPR/J&K/VAR/02

REVISION : R-1

August 2019

Vertical Alignment Report

PVI No.	Start		PVI Details		End		Gradient (%)		Type of Curve	Curve Lenght (m)	K-Value
	Chainage (Km)	Level(m)	Chainage (Km)	Level(m)	Chainage (Km)	Level(m)	IN	OUT			
101	8+685.019	1585.989	8+710.019	1585.956	8+735.019	1585.892	-0.130	-0.255	Hog	50	400.73
102	8+823.659	1585.666	8+868.659	1585.551	8+913.659	1585.812	-0.255	0.580	Sag	90	107.74
103	8+946.968	1586.006	8+961.968	1586.093	8+976.968	1586.111	0.580	0.121	Hog	30	65.37
104	9+048.414	1586.197	9+073.414	1586.228	9+098.414	1586.089	0.121	-0.554	Hog	50	74.07
105	9+145.790	1585.827	9+170.790	1585.688	9+195.790	1585.805	-0.554	0.468	Sag	50	48.92
106	9+215.733	1585.899	9+280.733	1586.203	9+345.733	1585.821	0.468	-0.588	Hog	130	123.12
107	9+359.950	1585.738	9+394.950	1585.532	9+429.950	1585.618	-0.588	0.244	Sag	70	84.13
108	9+480.755	1585.742	9+505.755	1585.803	9+530.755	1585.755	0.244	-0.193	Hog	50	114.30
109	9+627.561	1585.568	9+637.561	1585.548	9+647.561	1585.645	-0.193	0.968	Sag	20	17.23
110	9+661.989	1585.785	9+671.989	1585.881	9+681.989	1585.821	0.968	-0.600	Hog	20	12.76
111	9+715.024	1585.623	9+727.524	1585.548	9+740.024	1585.679	-0.600	1.045	Sag	25	15.20
112	9+750.796	1585.792	9+775.796	1586.053	9+800.796	1586.021	1.045	-0.128	Hog	50	42.60
113	9+865.869	1585.937	9+890.869	1585.905	9+915.869	1586.017	-0.128	0.446	Sag	50	87.04
114	9+925.389	1586.059	9+940.389	1586.126	9+955.389	1586.162	0.446	0.237	Hog	30	143.76
115	10+172.106	1586.676	10+197.106	1586.735	10+222.106	1586.639	0.237	-0.385	Hog	50	80.37
116	10+251.766	1586.525	10+276.766	1586.429	10+301.766	1586.845	-0.385	1.665	Sag	50	24.40
117	10+314.844	1587.063	10+339.844	1587.479	10+364.844	1587.491	1.665	0.050	Hog	50	30.96
118	10+607.204	1587.612	10+642.204	1587.629	10+677.204	1587.585	0.050	-0.127	Hog	70	396.11
119	10+738.253	1587.507	10+753.253	1587.488	10+768.253	1587.527	-0.127	0.259	Sag	30	77.76
120	10+820.768	1587.663	10+835.768	1587.701	10+850.768	1587.640	0.259	-0.408	Hog	30	45.02
121	10+867.637	1587.571	10+887.637	1587.490	10+907.637	1586.585	-0.408	-4.522	Hog	40	9.72
122	10+908.170	1586.561	10+928.170	1585.657	10+948.170	1585.679	-4.522	0.112	Sag	40	8.63
123	10+973.676	1585.708	10+988.676	1585.724	11+003.676	1585.714	0.112	-0.072	Hog	30	163.73
124	11+187.309	1585.582	11+212.309	1585.564	11+237.309	1585.606	-0.072	0.166	Sag	50	210.01
125	11+291.627	1585.696	11+306.627	1585.721	11+321.627	1585.735	0.166	0.091	Hog	30	399.26
126	11+501.887	1585.899	11+526.887	1585.922	11+551.887	1585.962	0.091	0.158	Sag	50	746.33
127	11+679.324	1586.163	11+704.324	1586.203	11+729.324	1586.084	0.158	-0.474	Hog	50	79.04
128	11+749.731	1585.987	11+774.731	1585.869	11+799.731	1586.740	-0.474	3.485	Sag	50	12.63
129	11+806.566	1586.978	11+821.566	1587.501	11+836.566	1587.624	3.485	0.824	Hog	30	11.27
130	11+882.730	1588.004	11+897.730	1588.128	11+912.730	1588.633	0.824	3.367	Sag	30	11.80
131	11+913.830	1588.670	11+921.330	1588.922	11+928.830	1589.094	3.367	2.286	Hog	15	13.88

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
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(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
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Ph: 033-40347200
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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	N.T.S

TITLE :
Vertical Alignment Report

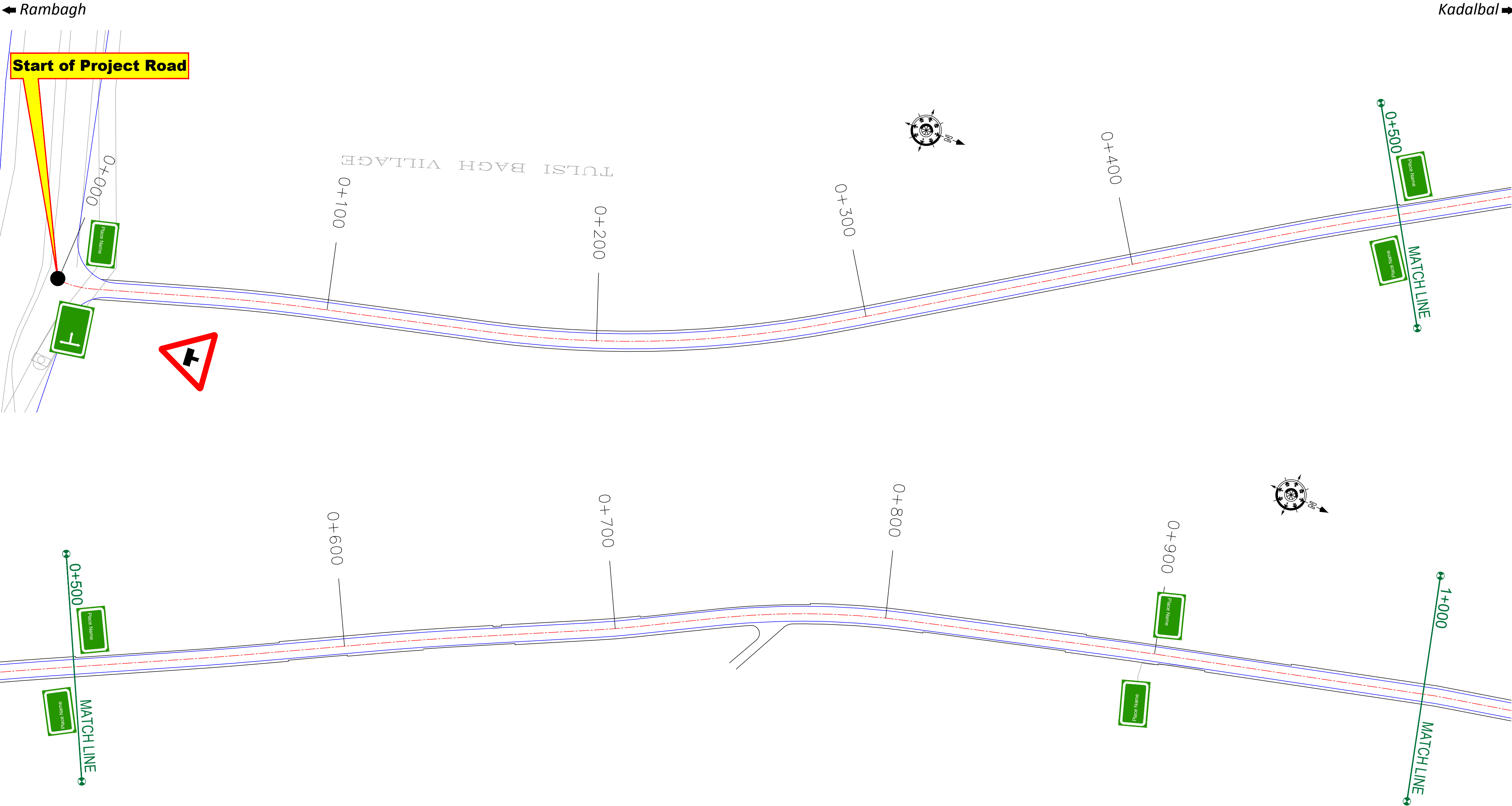
DRG. NO. : EPTISA/JTRFP/DPR/J&K/VAR/03

REVISION : R-1
August 2019

≡ VERTICAL ALIGNMENT REPORT (FOR LINK ROAD NO.1) ≡

Vertical Alignment Report											
PVI No.	Start		PVI Details		End		Gradient (%)		Type of Curve	Curve Lenght (m)	K-Value
	Chainage (Km)	Level(m)	Chainage (Km)	Level(m)	Chainage (Km)	Level(m)	IN	OUT			
1	0+020.424	1586.791	0+045.424	1587.136	0+070.424	1586.890	1.378	-0.984	Hog	50	21.17
2	0+084.062	1586.756	0+109.062	1586.510	0+134.062	1586.586	-0.984	0.304	Sag	50	38.83
3	0+192.902	1586.765	0+217.902	1586.841	0+242.902	1586.863	0.304	0.089	Hog	50	232.47
4	0+285.005	1586.901	0+310.005	1586.923	0+335.005	1586.788	0.089	-0.540	Hog	50	79.48
5	0+391.833	1586.481	0+441.833	1586.211	0+491.833	1585.959	-0.540	-0.504	Sag	100	2785.99
6	0+545.144	1585.690	0+595.144	1585.438	0+645.144	1585.252	-0.504	-0.371	Sag	100	753.52
7	0+727.954	1584.945	0+802.954	1584.666	0+877.954	1584.740	-0.371	0.099	Sag	150	319.01
8	0+936.128	1584.797	0+971.128	1584.832	1+006.128	1584.370	0.099	-1.319	Hog	70	49.39

≡ SIGNAGE PLAN (MAIN ROAD) ≡



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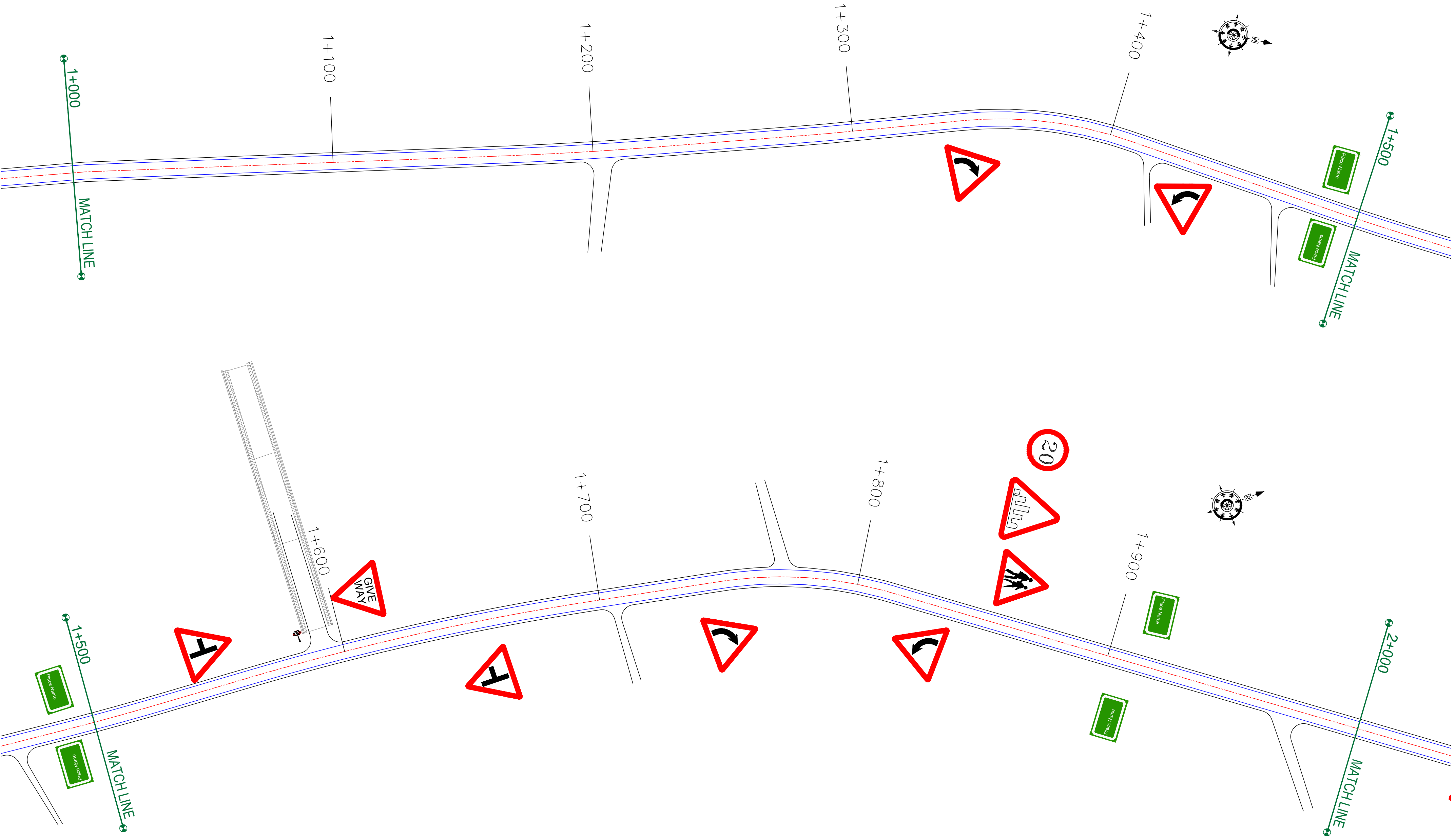
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	SIGNAGE PLAN (Ch. 0+000 to Ch. 1+000)
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/SP/01
REVISION : R-1	August 2019

← Rambagh

Kadalbal →



CLIENT :



Jhelum & Tawi
FLOOD RECOVERY PROJECT

Jhelum Tawi Flood Recovery Project
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Srinagar-190 009.

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REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : 1:1000

TITLE :

SIGNAGE PLAN
(Ch. 1+000 to Ch. 2+000)

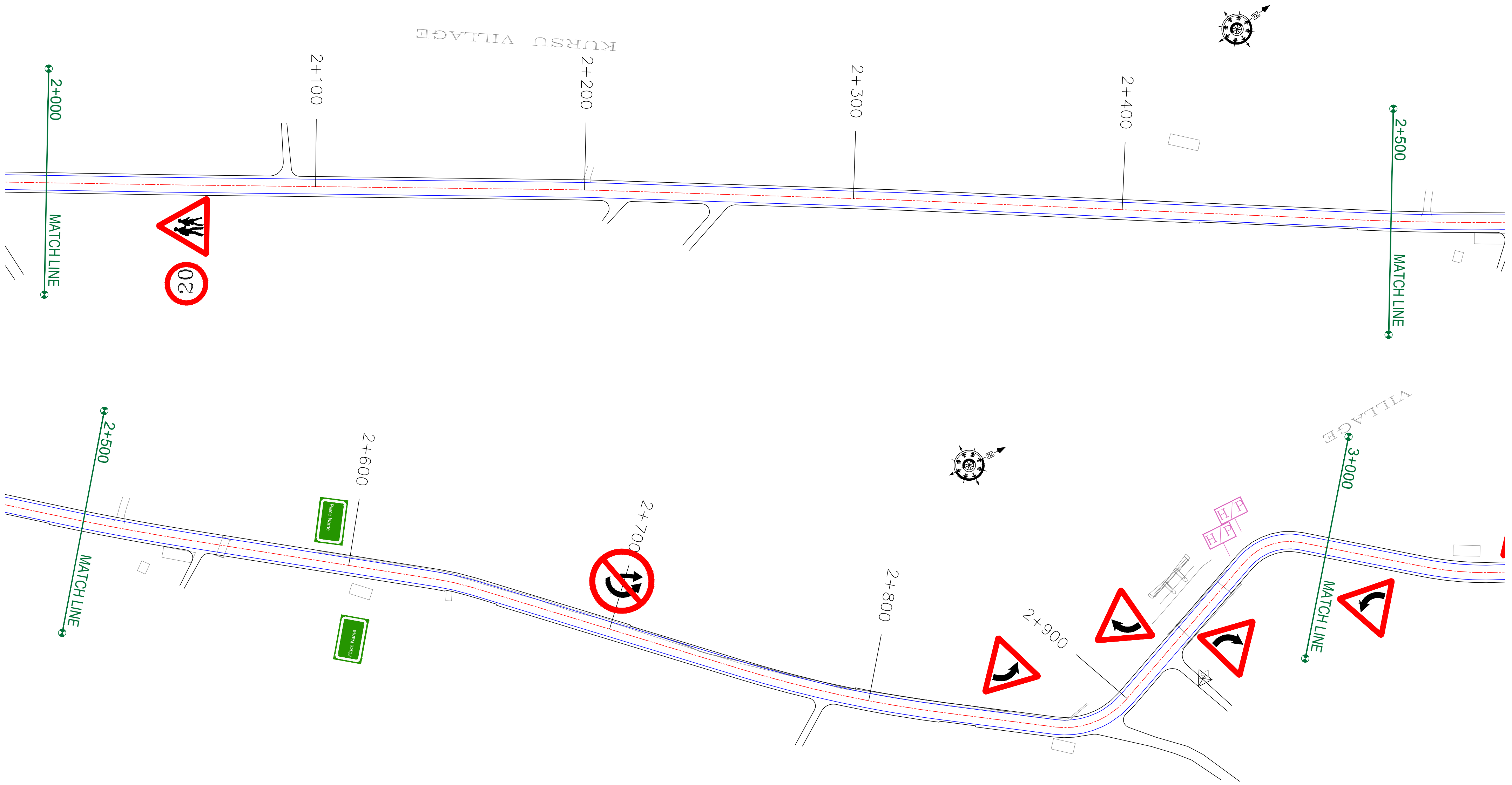
DRG. NO. : EPTISA/JTRFP/DPR/J&K/SP/02

REVISION : R-1

August 2019

← Rambagh

Kadalbal →



CLIENT :



Jhelum Tawi Flood Recovery Project
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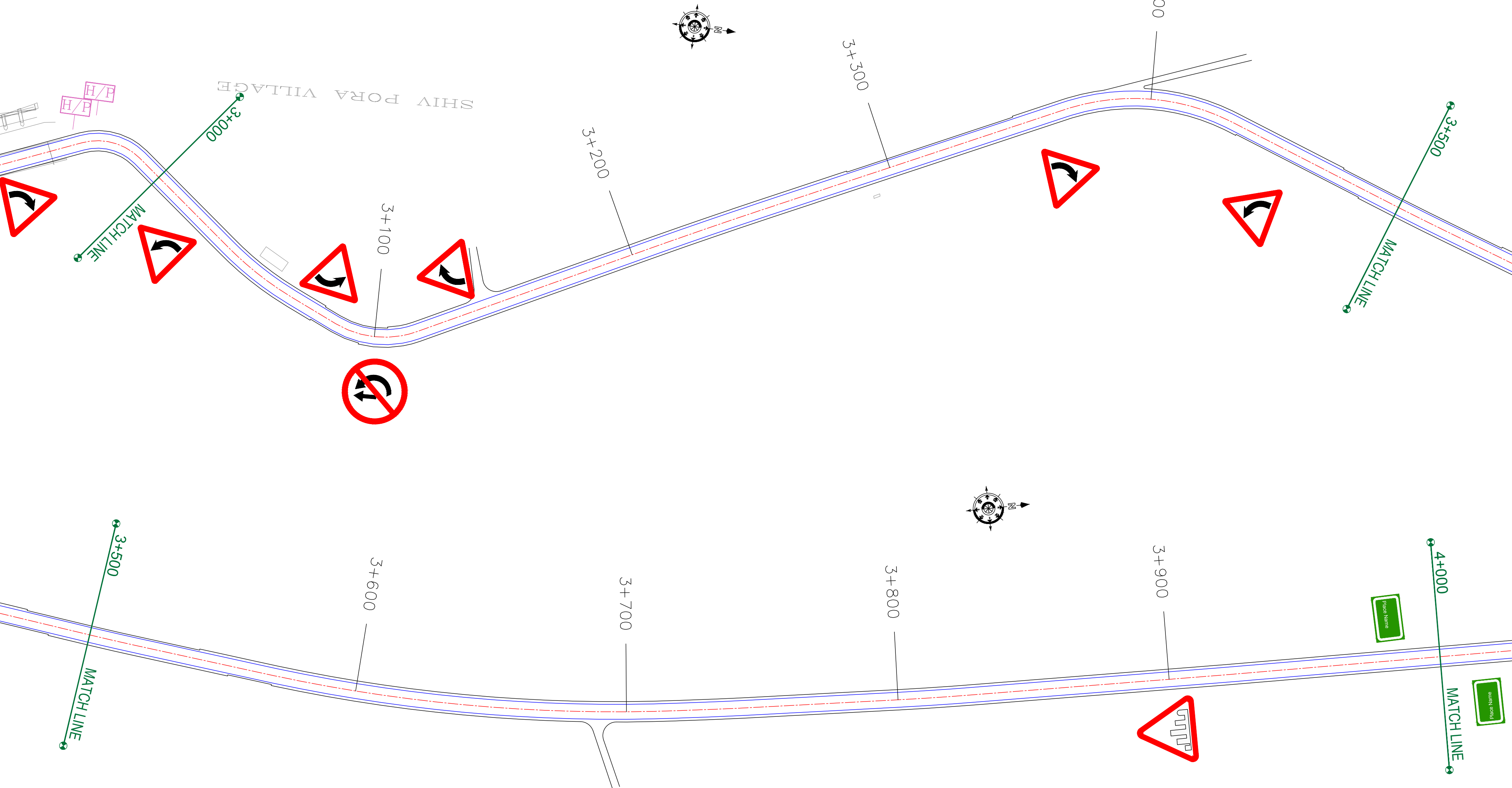
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	SIGNAGE PLAN (Ch. 2+000 to Ch. 3+000)
DRG. NO. :	EPTISA/JTFRP/DPR/J&K/SP/03
REVISION : R-1	August 2019

← Rambagh

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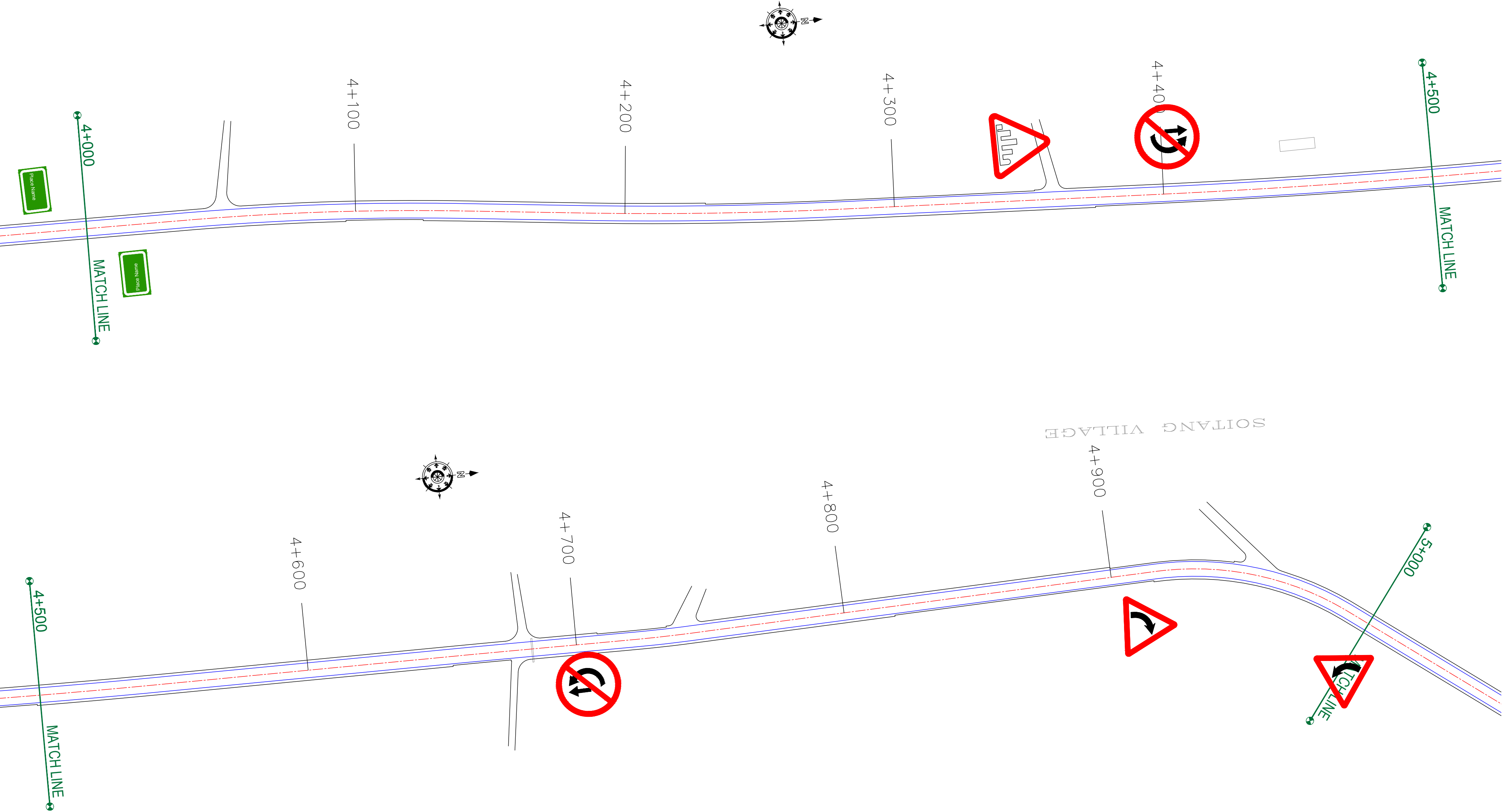
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	SIGNAGE PLAN (Ch. 3+000 to Ch. 4+000)
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/SP/04
REVISION : R-1	August 2019

← Rambagh

Kadalbal →



CLIENT :



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PROJECT :

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DESIGN CONSULTANT:

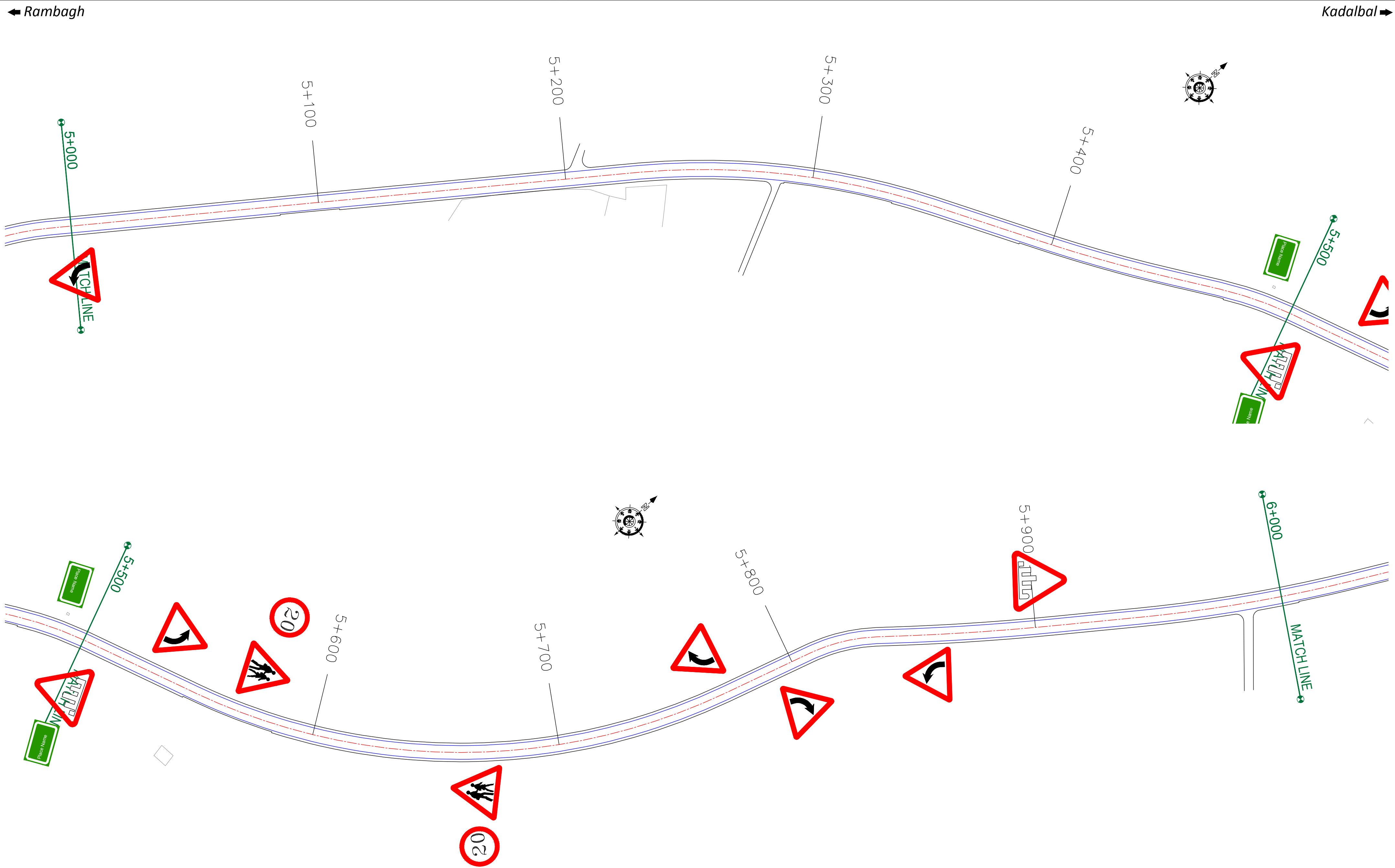


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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
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SCALE :	1:1000

TITLE :	SIGNAGE PLAN (Ch. 4+000 to Ch. 5+000)
DRG. NO. :	EPTISA/JTFRP/DPR/J&K/SP/05
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CLIENT :



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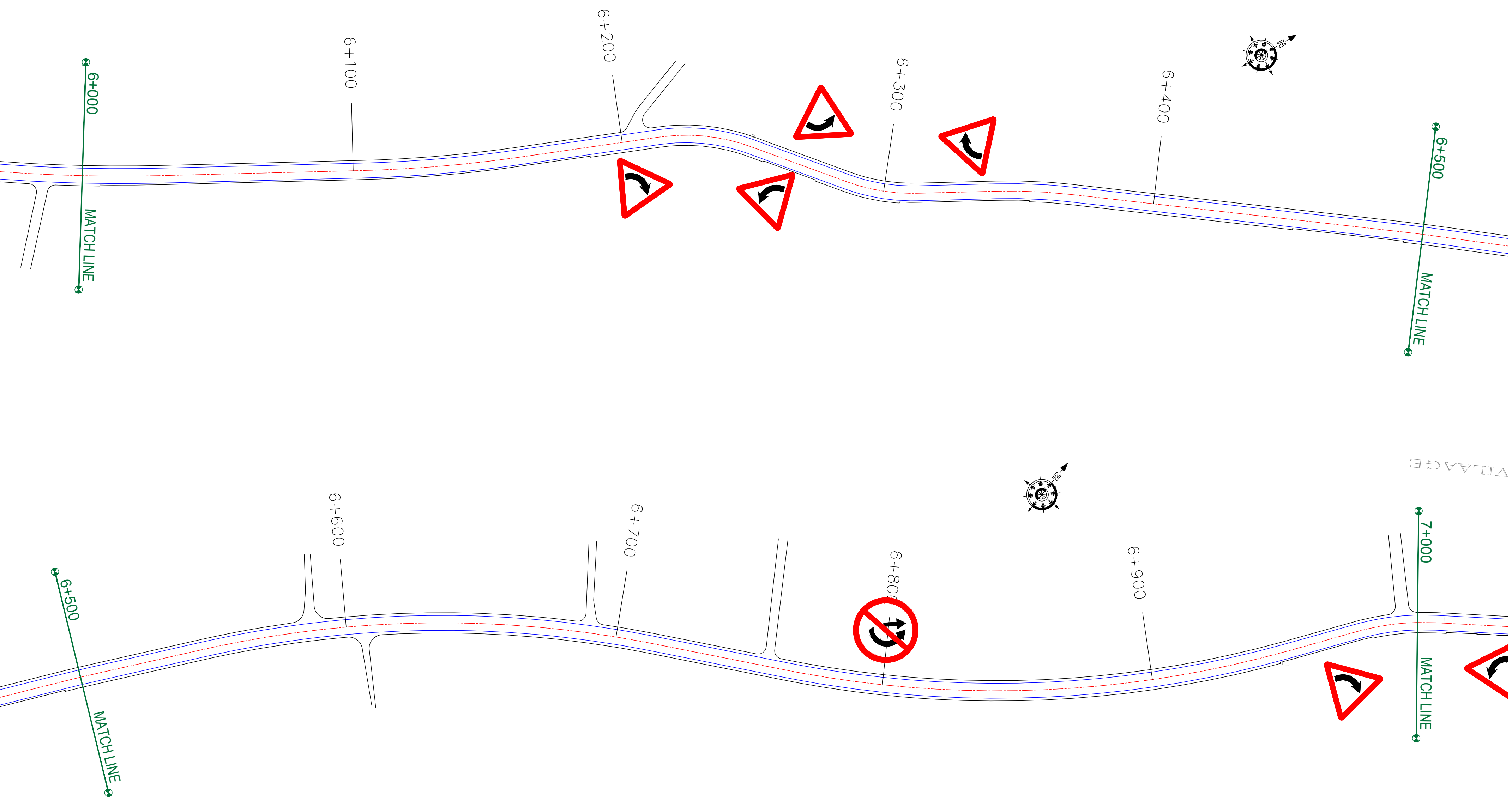
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	SIGNAGE PLAN (Ch. 5+000 to Ch. 6+000)
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/SP/06
REVISION : R-1	August 2019

← Rambagh

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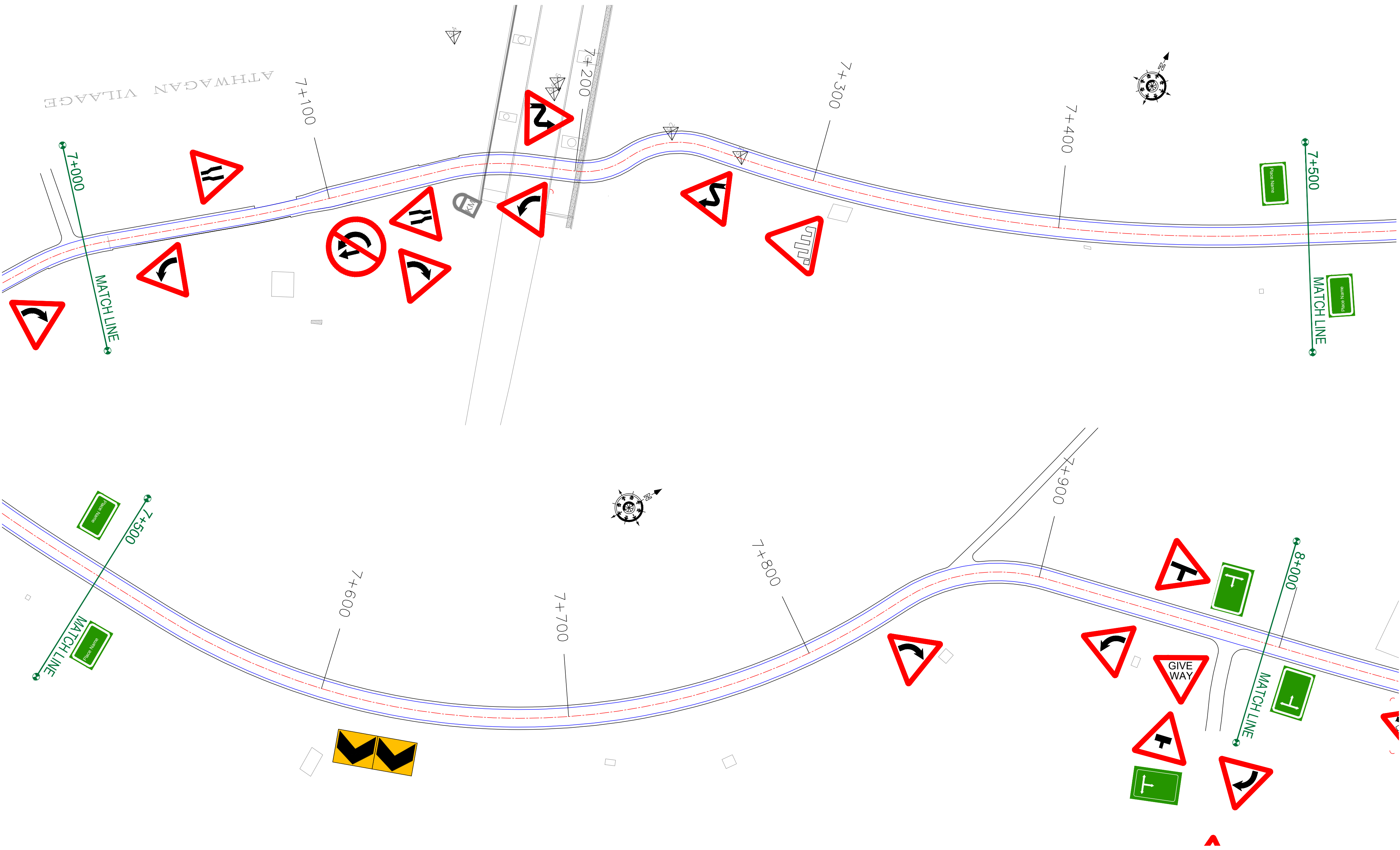
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	SIGNAGE PLAN (Ch. 6+000 to Ch. 7+000)
DRG. NO. :	EPTISA/JTFRP/DPR/J&K/SP/07
REVISION : R-1	August 2019

← Rambagh

Kadalbal →



CLIENT :



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REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

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TITLE : **SIGNAGE PLAN**
(Ch. 7+000 to Ch. 8+000)

DRG. NO. : EPTISA/JTRFP/DPR/J&K/SP/08

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← Rambagh

Kadalbal →



CLIENT :



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Srinagar-190 009.

PROJECT :

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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
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APPROVED BY :	KG
SCALE :	1:1000

TITLE :	SIGNAGE PLAN (Ch. 8+000 to Ch. 9+000)
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/SP/09
REVISION : R-1	August 2019

← Rambagh

Kadalbal →



CLIENT :



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PROJECT :

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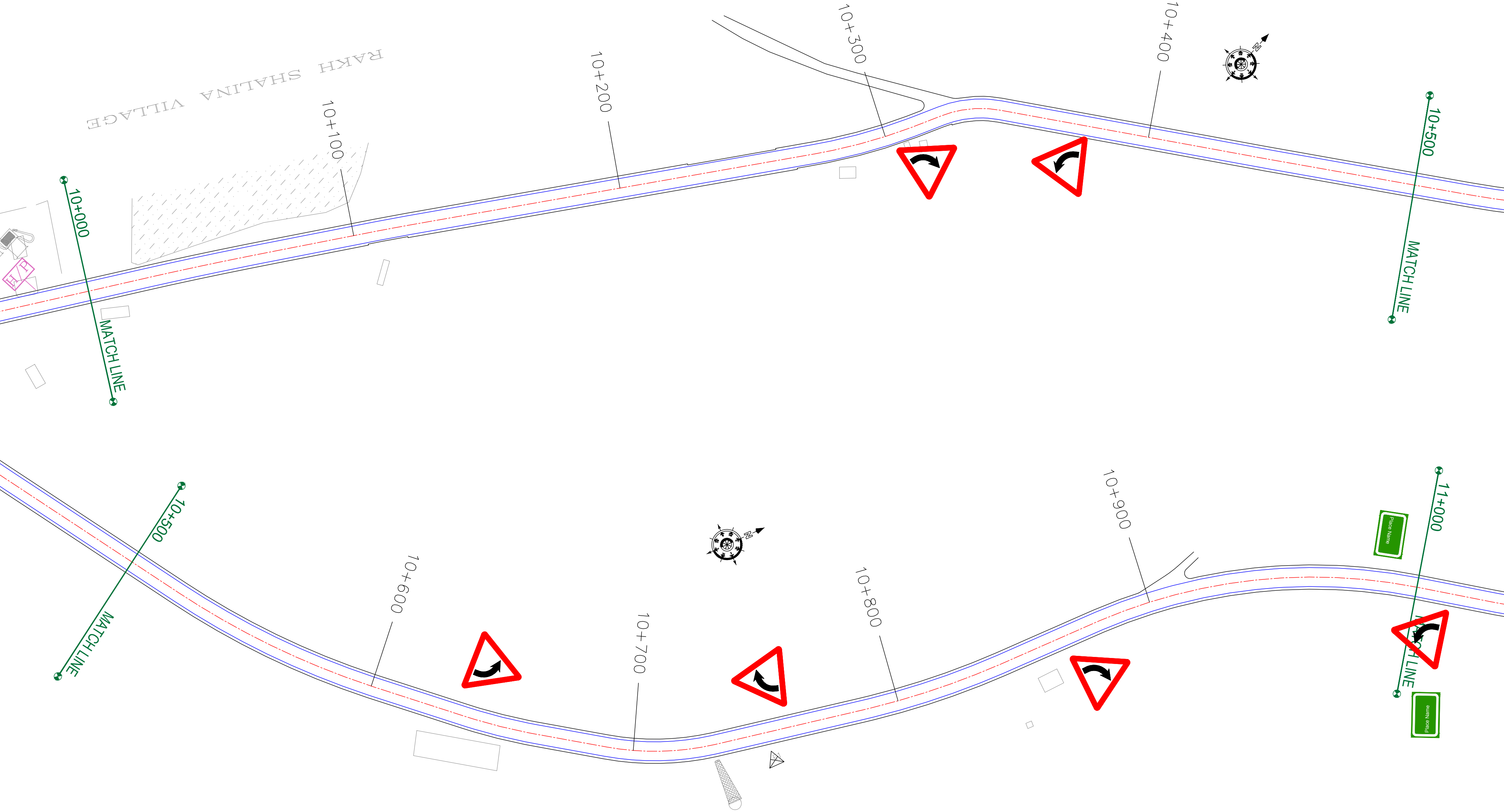
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	SIGNAGE PLAN (Ch. 9+000 to Ch. 10+000)
DRG. NO. :	EPTISA/JTFRP/DPR/J&K/SP/10
REVISION : R-1	August 2019

← Rambagh

Kadalbal →



CLIENT :



Jhelum & Tawi
FLOOD RECOVERY PROJECT

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2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

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DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

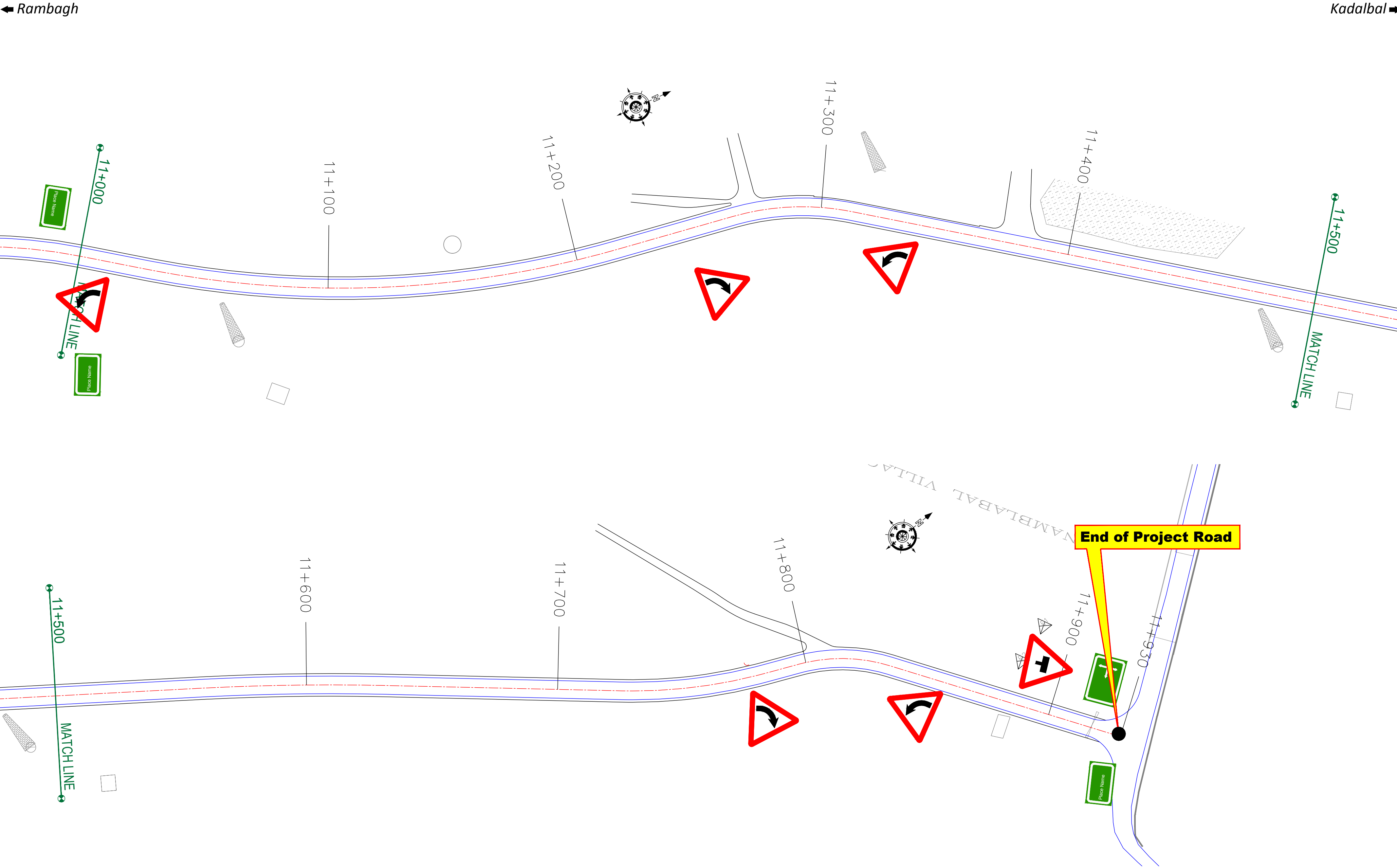
SCALE : 1:1000

TITLE :
SIGNAGE PLAN
(Ch. 10+000 to Ch. 11+000)

DRG. NO. : EPTISA/JTRFP/DPR/J&K/SP/11

REVISION : R-1

August 2019



CLIENT :




Jhelum & Tawi
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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
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APPROVED BY :	KG
SCALE :	1:1000

TITLE :	SIGNAGE PLAN (Ch. 11+000 to Ch. 11+930)
DRG. NO. :	EPTISA/JTFRP/DPR/J&K/SP/12
REVISION : R-1	August 2019

Sl. No.	Chainage Sign (Km)	Hand of Curve	Curve Sign Type	Sign Size
1	1+342.696	Right	Fig-15.02	600 Equilateral
2	1+406.789	Left	Fig-15.01	600 Equilateral
3	1+747.444	Right	Fig-15.02	600 Equilateral
4	1+812.871	Left	Fig-15.01	600 Equilateral
5	2+869.835	Left	Fig-15.01	600 Equilateral
6	2+899.472	Right	Fig-15.02	600 Equilateral
7	2+966.967	Right	Fig-15.02	600 Equilateral
8	2+990.142	Left	Fig-15.01	600 Equilateral
9	3+084.893	Left	Fig-15.01	600 Equilateral
10	3+115.823	Right	Fig-15.02	600 Equilateral
11	3+367.951	Right	Fig-15.02	600 Equilateral
12	3+431.478	Left	Fig-15.01	600 Equilateral
13	4+916.708	Right	Fig-15.02	600 Equilateral
14	4+990.964	Left	Fig-15.01	600 Equilateral
15	5+549.180	Left	Fig-15.01	600 Equilateral
16	5+770.585	Right	Fig-15.02	600 Equilateral
17	5+807.861	Right	Fig-15.02	600 Equilateral
18	5+836.525	Left	Fig-15.01	600 Equilateral
19	6+213.705	Right	Fig-15.02	600 Equilateral
20	6+248.285	Left	Fig-15.01	600 Equilateral
21	6+285.946	Left	Fig-15.01	600 Equilateral
22	6+312.318	Right	Fig-15.02	600 Equilateral
23	6+977.803	Right	Fig-15.02	600 Equilateral
24	7+007.200	Left	Fig-15.01	600 Equilateral
25	7+147.969	Right	Fig-15.02	600 Equilateral
26	7+180.802	Left	Fig-15.01	600 Equilateral
27	7+200.144	Right Reserve	Fig-15.05	600 Equilateral
28	7+255.175	Left Reserve	Fig-15.06	600 Equilateral
29	7+843.190	Right	Fig-15.02	600 Equilateral
30	7+903.040	Left	Fig-15.01	600 Equilateral
31	10+322.123	Right	Fig-15.02	600 Equilateral
32	10+344.230	Left	Fig-15.01	600 Equilateral
33	10+689.970	Left	Fig-15.01	600 Equilateral
34	10+730.899	Right	Fig-15.02	600 Equilateral
35	10+878.367	Right	Fig-15.02	600 Equilateral
36	11+000.065	Left	Fig-15.01	600 Equilateral
37	11+264.636	Right	Fig-15.02	600 Equilateral
38	11+311.937	Left	Fig-15.01	600 Equilateral
39	11+797.233	Right	Fig-15.02	600 Equilateral
40	11+833.790	Left	Fig-15.01	600 Equilateral

Overtaking Sign			
1	2+700.000	Fig-14.23	600 Equilateral
2	3+100.000	Fig-14.23	600 Equilateral
3	4+400.000	Fig-14.23	600 Equilateral
4	4+700.000	Fig-14.23	600 Equilateral
5	6+800.000	Fig-14.23	600 Equilateral
6	7+100.000	Fig-14.23	600 Equilateral

Cross Road				
1	1+550.000	Left	Fig-15.10	600 Equilateral
2	1+650.000	Right	Fig-15.9	600 Equilateral
3	7+950.000	Right	Fig-15.9	600 Equilateral
4	8+050.000	Left	Fig-15.10	600 Equilateral

Narrow road Ahead			
1	7+150.000	Fig-15.23	600 Equilateral
Road Widens			
1	7+050.000	Fig-15.24	600 Equilateral
Built-up Area			
1	1+850.000	Fig-15.35	600 Equilateral
2	3+900.000	Fig-15.35	600 Equilateral
3	4+350.000	Fig-15.35	600 Equilateral
4	5+500.000	Fig-15.35	600 Equilateral
5	5+900.000	Fig-15.35	600 Equilateral
6	7+300.000	Fig-15.35	600 Equilateral
Give Way			
1	1+600.000	Fig-14.02	900 Equilateral
2	7+960.000	Fig-14.02	900 Equilateral
Intersection with major Road			
1	0+050.000	Fig-15.18	600 Equilateral
2	11+900.000	Fig-15.18	600 Equilateral
School Ahead			
1	1+850.000	Fig-15.34	600 Equilateral
2	2+050.000	Fig-15.34	600 Equilateral
3	5+575.000	Fig-15.34	600 Equilateral
4	5+675.000	Fig-15.34	600 Equilateral

CLIENT :



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REV.	DATE	DESCRIPTION

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DESIGNED BY : SCK/MM

APPROVED BY : KG

TITLE :

Schedule of Signage

DRG. NO. : EPTISA/JTRFP/DPR/J&K/SOS/01

REVISION : R-1

August 2019

Hazard Marking				
1	2+554.000	Left	Fig-15.76	900 X 300
2	2+554.000	Right	Fig-15.77	900 X 300
3	2+556.000	Left	Fig-15.76	900 X 300
4	2+556.000	Right	Fig-15.77	900 X 300
5	2+944.000	Left	Fig-15.76	900 X 300
6	2+944.000	Right	Fig-15.77	900 X 300
7	2+946.000	Left	Fig-15.76	900 X 300
8	2+946.000	Right	Fig-15.77	900 X 300
9	2+060	Left	Fig-15.76	900 X 300
10	2+060	Right	Fig-15.77	900 X 300
11	2+062.000	Left	Fig-15.76	900 X 300
12	2+062.000	Right	Fig-15.77	900 X 300
13	3+430.000	Left	Fig-15.76	900 X 300
14	3+430.000	Right	Fig-15.77	900 X 300
15	3+432.000	Left	Fig-15.76	900 X 300
16	3+432.000	Right	Fig-15.77	900 X 300
17	4+200.000	Left	Fig-15.76	900 X 300
18	4+200.000	Right	Fig-15.77	900 X 300
19	4+202.000	Left	Fig-15.76	900 X 300
20	4+202.000	Right	Fig-15.77	900 X 300
21	4+720.000	Left	Fig-15.76	900 X 300
22	4+720.000	Right	Fig-15.77	900 X 300
23	4+722.000	Left	Fig-15.76	900 X 300
24	4+722.000	Right	Fig-15.77	900 X 300
25	4+980.000	Left	Fig-15.76	900 X 300

Hazard Marking				
26	4+980.000	Right	Fig-15.77	900 X 300
27	4+982.000	Left	Fig-15.76	900 X 300
28	4+982.000	Right	Fig-15.77	900 X 300
29	6+231.000	Left	Fig-15.76	900 X 300
30	6+231.000	Right	Fig-15.77	900 X 300
31	6+233.000	Left	Fig-15.76	900 X 300
32	6+233.000	Right	Fig-15.77	900 X 300
33	7+928.000	Left	Fig-15.76	900 X 300
34	7+928.000	Right	Fig-15.77	900 X 300
35	7+930.000	Left	Fig-15.76	900 X 300
36	7+930.000	Right	Fig-15.77	900 X 300
37	8+160.000	Left	Fig-15.76	900 X 300
38	8+160.000	Right	Fig-15.77	900 X 300
39	8+162.000	Left	Fig-15.76	900 X 300
40	8+162.000	Right	Fig-15.77	900 X 300
41	9+160.000	Left	Fig-15.76	900 X 300
42	9+160.000	Right	Fig-15.77	900 X 300
43	9+162.000	Left	Fig-15.76	900 X 300
44	9+162.000	Right	Fig-15.77	900 X 300
45	9+660.000	Left	Fig-15.76	900 X 300
46	9+660.000	Right	Fig-15.77	900 X 300
47	9+662.000	Left	Fig-15.76	900 X 300
48	9+662.000	Right	Fig-15.77	900 X 300
49	10+128.000	Left	Fig-15.76	900 X 300
50	10+128.000	Right	Fig-15.77	900 X 300
51	10+130.000	Left	Fig-15.76	900 X 300
52	10+130.000	Right	Fig-15.77	900 X 300
53	10+950.000	Left	Fig-15.76	900 X 300
54	10+950.000	Right	Fig-15.77	900 X 300
55	10+952.000	Left	Fig-15.76	900 X 300
56	10+952.000	Right	Fig-15.77	900 X 300

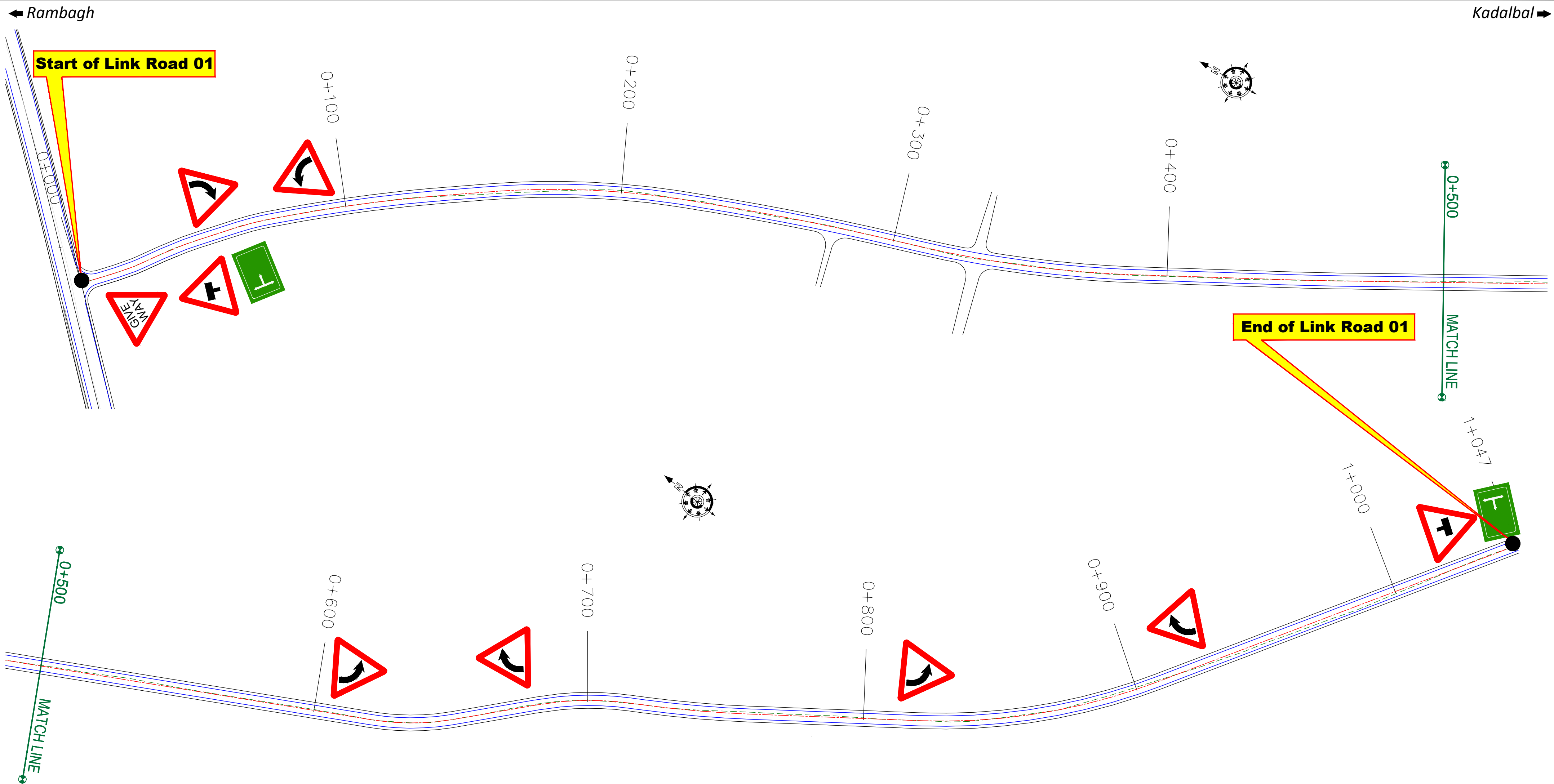
Chevron				
1	7+500.000	Fig-15.72	600 X 500	Both Side
2	7+530.000	Fig-15.72	600 X 500	Both Side
3	7+570.000	Fig-15.72	600 X 500	Both Side
4	7+610.000	Fig-15.72	600 X 500	Both Side
5	7+650.000	Fig-15.72	600 X 500	Both Side
6	7+690.000	Fig-15.72	600 X 500	Both Side
7	7+730.000	Fig-15.72	600 X 500	Both Side
8	7+770.000	Fig-15.72	600 X 500	Both Side
9	7+810.000	Fig-15.72	600 X 500	Both Side
10	7+850.000	Fig-15.72	600 X 500	Both Side

Speed Limit			
1	1+850.000	Fig-14.37	600 mm Dia
2	2+050.000	Fig-14.37	600 mm Dia
3	5+575.000	Fig-14.37	600 mm Dia
4	5+675.000	Fig-14.37	600 mm Dia

Directional Sign			
1	0+000.000	Fig-16.04	900 X 600
2	7+980.000	Fig-16.04	900 X 600
3	8+010.000	Fig-16.04	900 X 600
4	11+932.000	Fig-16.04	900 X 600

Place Identification Sign			
1	0+000.000	Fig-16.06	600 X 450
2	0+500.000	Fig-16.06	600 X 450
3	0+500.000	Fig-16.06	600 X 450
4	0+900.000	Fig-16.06	600 X 450
5	0+900.000	Fig-16.06	600 X 450
6	1+500.000	Fig-16.06	600 X 450
7	1+500.000	Fig-16.06	600 X 450
8	1+900.000	Fig-16.06	600 X 450
9	1+900.000	Fig-16.06	600 X 450
10	2+600.000	Fig-16.06	600 X 450
11	2+600.000	Fig-16.06	600 X 450
12	4+000.000	Fig-16.06	600 X 450
13	4+000.000	Fig-16.06	600 X 450
14	5+500.000	Fig-16.06	600 X 450
15	5+500.000	Fig-16.06	600 X 450
16	7+500.000	Fig-16.06	600 X 450
17	7+500.000	Fig-16.06	600 X 450
18	9+000.000	Fig-16.06	600 X 450
19	9+000.000	Fig-16.06	600 X 450
20	11+000.000	Fig-16.06	600 X 450
21	11+000.000	Fig-16.06	600 X 450
22	11+932.000	Fig-16.06	600 X 450

≡ SIGNAGE PLAN (LINK ROAD) ≡



CLIENT :


Jhelum & Tawi
FLOOD RECOVERY PROJECT
Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:

 **Eptisa Servicios de Ingenieria S.L.**
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : 1:1000

TITLE :
SIGNAGE PLAN (LINK ROAD)
(Ch. 0+000 to Ch. 1+047)

DRG. NO. : EPTISA/JTFRP/DPR/J&K/SP/01

REVISION : R-1

August 2019

≡ SCHEDULE OF SIGNAGE (LINK ROAD) ≡

Sl. No.	Chainage Sign (Km)	Hand of Curve	Curve Sign Type	Sign Size
1	0+059.750	Right	Fig-15.02	600 Equilateral
2	0+072.513	Left	Fig-15.01	600 Equilateral
3	0+621.000	Left	Fig-15.01	600 Equilateral
4	0+715.000	Right	Fig-15.02	600 Equilateral
5	0+820.000	Left	Fig-15.01	600 Equilateral
6	0+910.000	Right	Fig-15.02	600 Equilateral

Intersection with major Road			
1	0+050.000	Fig-15.18	600 Equilateral
2	1+000.000	Fig-15.18	600 Equilateral

Directional Sign			
1	0+000.000	Fig-16.04	900 X 600
2	7+980.000	Fig-16.04	900 X 600

Hazard Marking			
1	0+103	Fig-15.76	900 X 300
2	0+103.000	Fig-15.77	900 X 300
3	0+105.000	Fig-15.76	900 X 300
4	0+105.000	Fig-15.77	900 X 300
5	0+780.000	Fig-15.76	900 X 300
6	0+780.000	Fig-15.77	900 X 300
7	0+782.000	Fig-15.76	900 X 300
8	0+782.000	Fig-15.77	900 X 300

≡ DETAILED CROSS SECTION ≡



Design LEVELS	1589.472	1589.766	1589.835	1589.766	1589.667			
Design OFFSET	-4.015	-2.750	0.000	2.750	3.819			
Existing Ground LEVELS	1589.407	1589.406	1589.495	1589.534	1589.663	1589.679	1589.679	1589.511
Existing Ground OFFSET	-5.677	-1.840	-0.905	-0.366	1.973	3.118	3.260	7.022

Chainage = 50.000



Design LEVELS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										</
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Chainage = 150.000



Design LEVELS						
Design OFFSET						
Existing Ground LEVELS						
Existing Ground OFFSET						

Chainage = 250.000



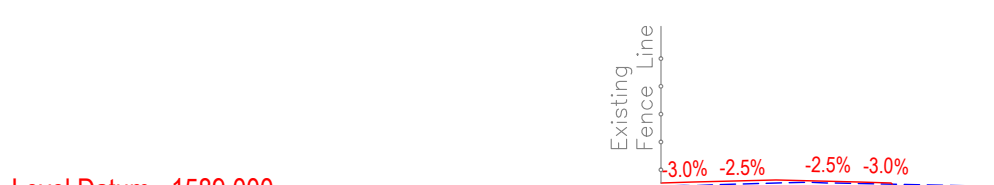
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Chainage = 0.000



Design LEVELS	1589.800	1589.915	1589.984	1589.915	1589.894	
Design OFFSET	-3.835	-2.750	0.000	2.750	3.759	
Existing Ground LEVELS	1589.806	1589.806	1589.812	1589.917	1589.912	1589.757
Existing Ground OFFSET	-5.677	-1.535	-1.432	3.360	4.240	7.022

Chainage = 100.000



Design LEVELS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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Chainage = 200.000

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:

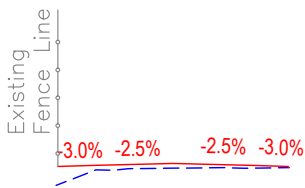


Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE	1 : 250

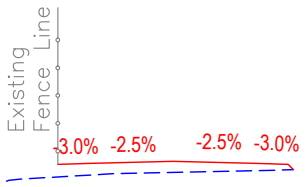
TITLE :	Detailed Cross Section (Ch.0+000 to Ch.0+250)
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/DCS/01
REVISION : R-1	August 2019



Level Datum =1585.000

Design LEVELS	1590.057	1590.215	1590.284	1590.215	1590.118
Design OFFSET	-3.878	-2.750	0.000	2.750	3.817
Existing Ground LEVELS	1590.077	1590.115	1590.150	1590.134	1590.134
Existing Ground OFFSET	-2.508	-1.465	1.646	2.862	2.964

Chainage = 350.000



Level Datum =1589.000

Design LEVELS	1589.882	1590.149	1590.217	1590.149	1589.944
Design OFFSET	-3.987	-2.750	-0.000	2.750	3.924
Existing Ground LEVELS	1589.147	1589.599	1589.636	1589.813	1589.927
Existing Ground OFFSET	-6.710	-5.331	-4.968	-1.951	3.390

Chainage = 300.000



Level Datum =1585.000

Design LEVELS	1590.469	1590.814	1590.883	1590.814	1590.607
Design OFFSET	-4.065	-2.750	0.000	2.750	3.927
Existing Ground LEVELS	1589.805	1590.245	1590.595	1590.595	1588.151
Existing Ground OFFSET	-6.353	-5.182	1.833	1.862	5.861

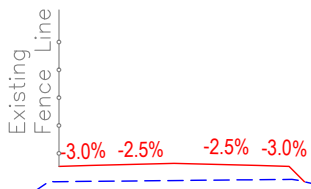
Chainage = 450.000



Level Datum =1584.000

Design LEVELS	1590.247	1590.488	1590.557	1590.488	1590.340
Design OFFSET	-3.961	-2.750	0.000	2.750	3.868
Existing Ground LEVELS	1590.314	1590.304	1590.249	1590.241	1589.605
Existing Ground OFFSET	-5.102	-3.994	1.883	2.691	4.411

Chainage = 400.000



Level Datum =1586.000

Design LEVELS	1590.498	1590.631	1590.700	1590.631	1590.445
Design OFFSET	-3.853	-2.750	-0.000	2.750	3.906
Existing Ground LEVELS	1589.780	1590.103		1590.179	1590.991
Existing Ground OFFSET	-4.559	-3.910		3.846	4.742

Chainage = 550.000



Level Datum =1585.000

Design LEVELS	1590.677	1590.889	1590.958	1590.889	1590.743
Design OFFSET	-3.932	-2.750	-0.000	2.750	3.866
Existing Ground LEVELS	1589.541	1590.236	1590.717	1590.735	1588.970
Existing Ground OFFSET	-5.707	-3.837	0.491	1.620	7.985

Chainage = 500.000

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE 1 : 250

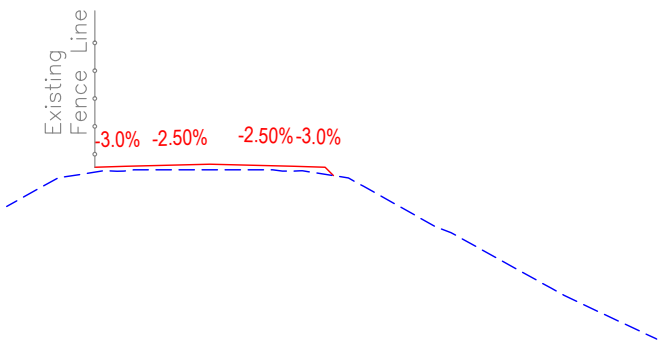
TITLE :

Detailed Cross Section
(Ch.0+300 to Ch.0+550)

DRG. NO. : EPTISA/JTRFP/DPR/J&K/DCS/02

REVISION : R-1

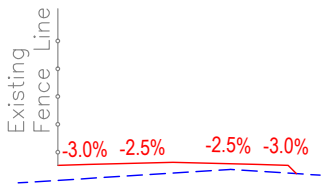
August 2019



Level Datum =1584.000

Design LEVELS							
Design OFFSET							
Existing Ground LEVELS							
Existing Ground OFFSET							

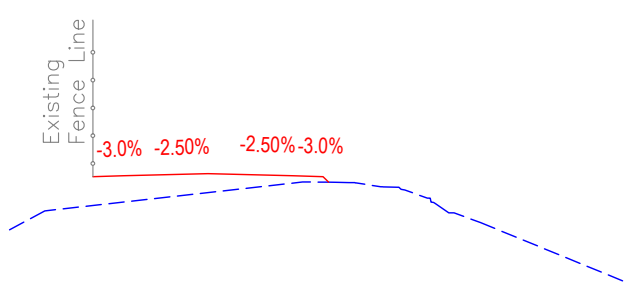
Chainage = 650.000



Level Datum =1589.000

Design LEVELS							
Design OFFSET							
Existing Ground LEVELS							
Existing Ground OFFSET							

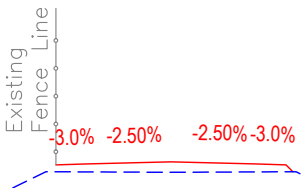
Chainage = 600.000



Level Datum =1584.000

Design LEVELS							
Design OFFSET							
Existing Ground LEVELS							
Existing Ground OFFSET							

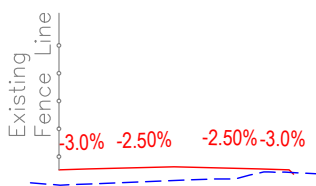
Chainage = 750.000



Level Datum =1584.000

Design LEVELS							
Design OFFSET							
Existing Ground LEVELS							
Existing Ground OFFSET							

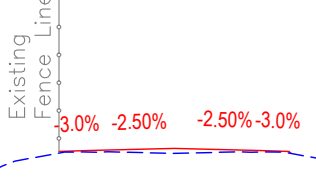
Chainage = 700.000



Level Datum =1588.000

Design LEVELS							
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Existing Ground LEVELS							
Existing Ground OFFSET							

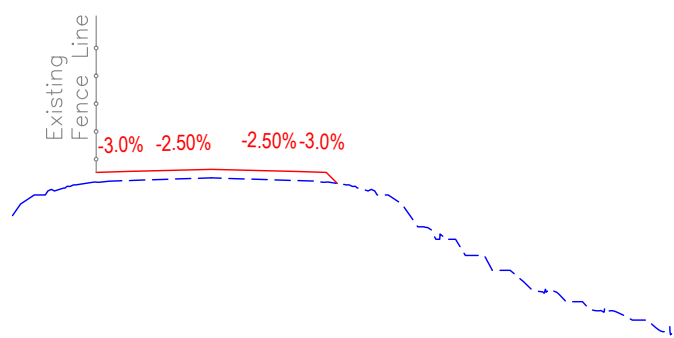
Chainage = 850.000



Level Datum =1583.000

Design LEVELS							
Design OFFSET							
Existing Ground LEVELS							
Existing Ground OFFSET							

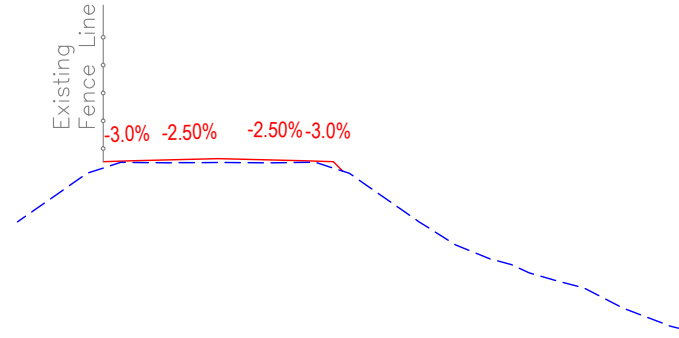
Chainage = 800.000



Level Datum =1583.000

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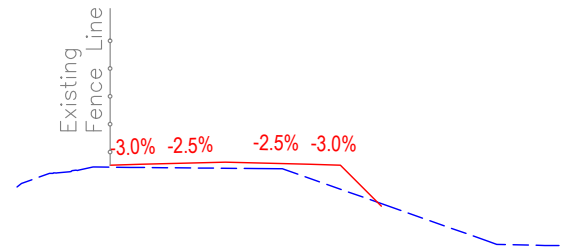
Chainage = 950.000



Level Datum =1582.000

Design LEVELS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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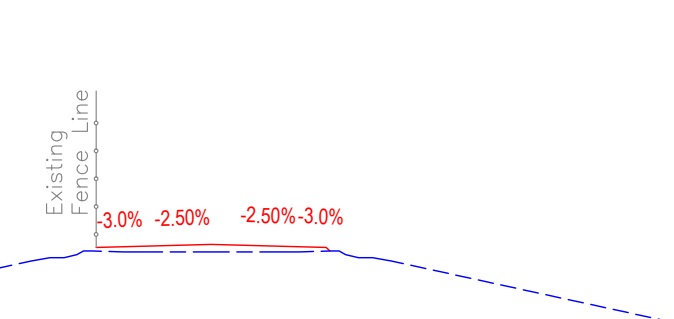
Chainage = 1050.000



Level Datum =1583.000

Design LEVELS	1587.220	1587.236	1587.305	1587.236	1587.206	1585.871					
Design OFFSET	-3.764	-2.750	-0.000	2.750	3.750	5.085					
Existing Ground LEVELS	1586.938	1587.034	1587.144	1587.133	1587.094	1587.089	1585.903	1584.722	1584.624	1584.588	1584.588
Existing Ground OFFSET	-5.729	-4.812	-4.231	-3.107	1.095	1.859	5.223	8.574	8.849	10.801	10.873

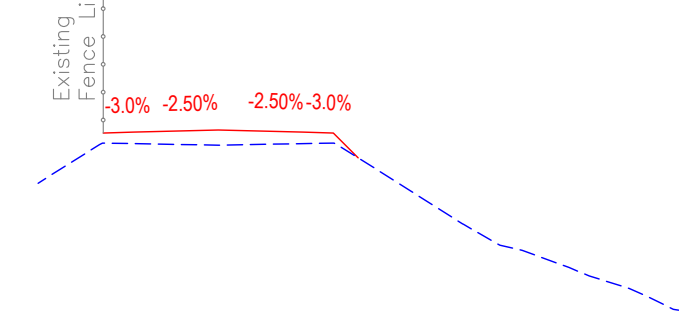
Chainage = 1150.000



Level Datum =1586.000

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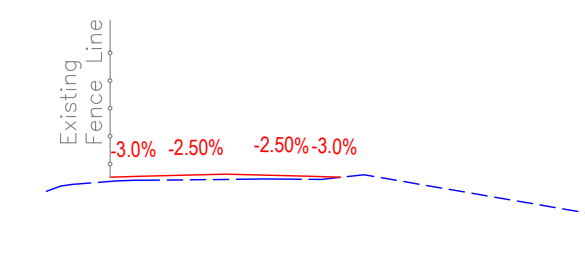
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Level Datum =1585.000

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Chainage = 1100.000

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION
------	------	-------------

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE	1 : 250

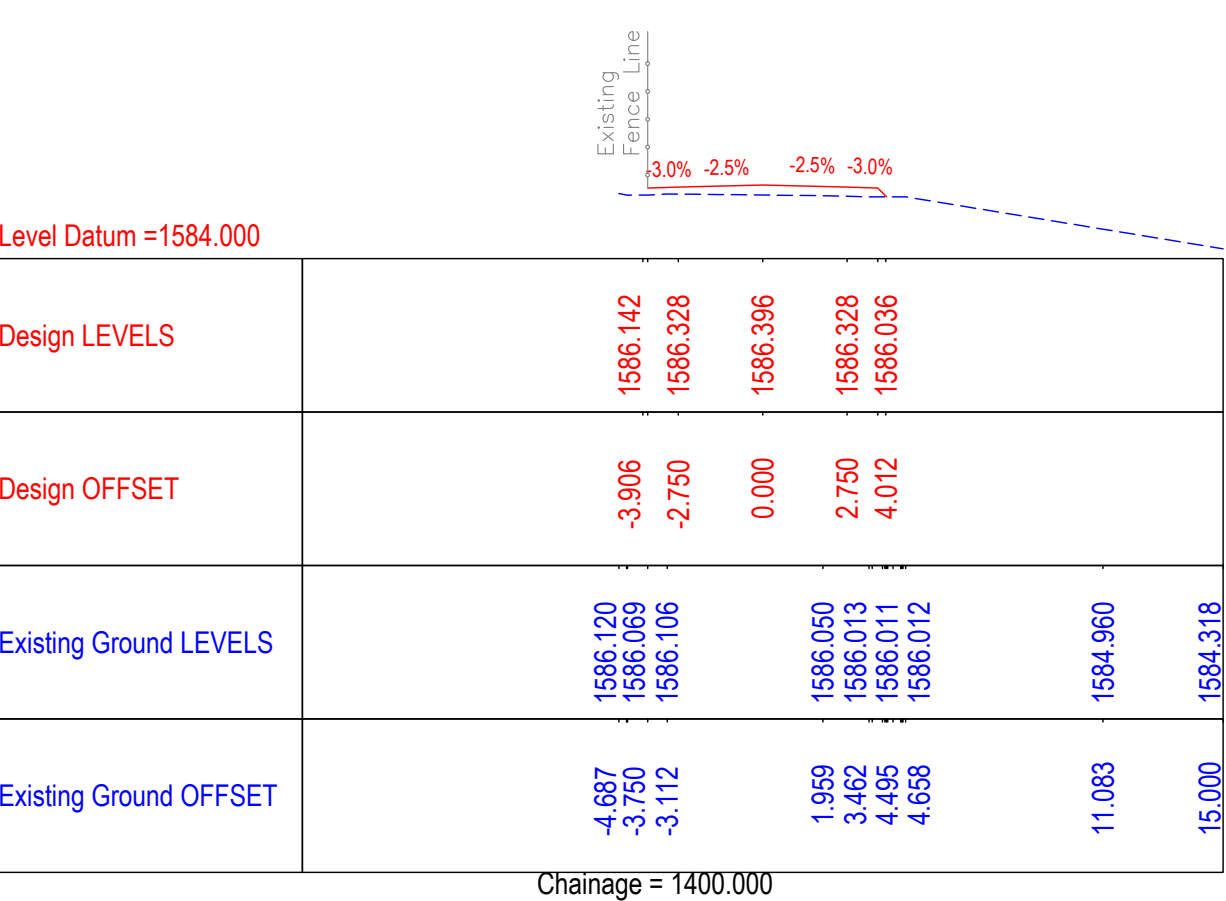
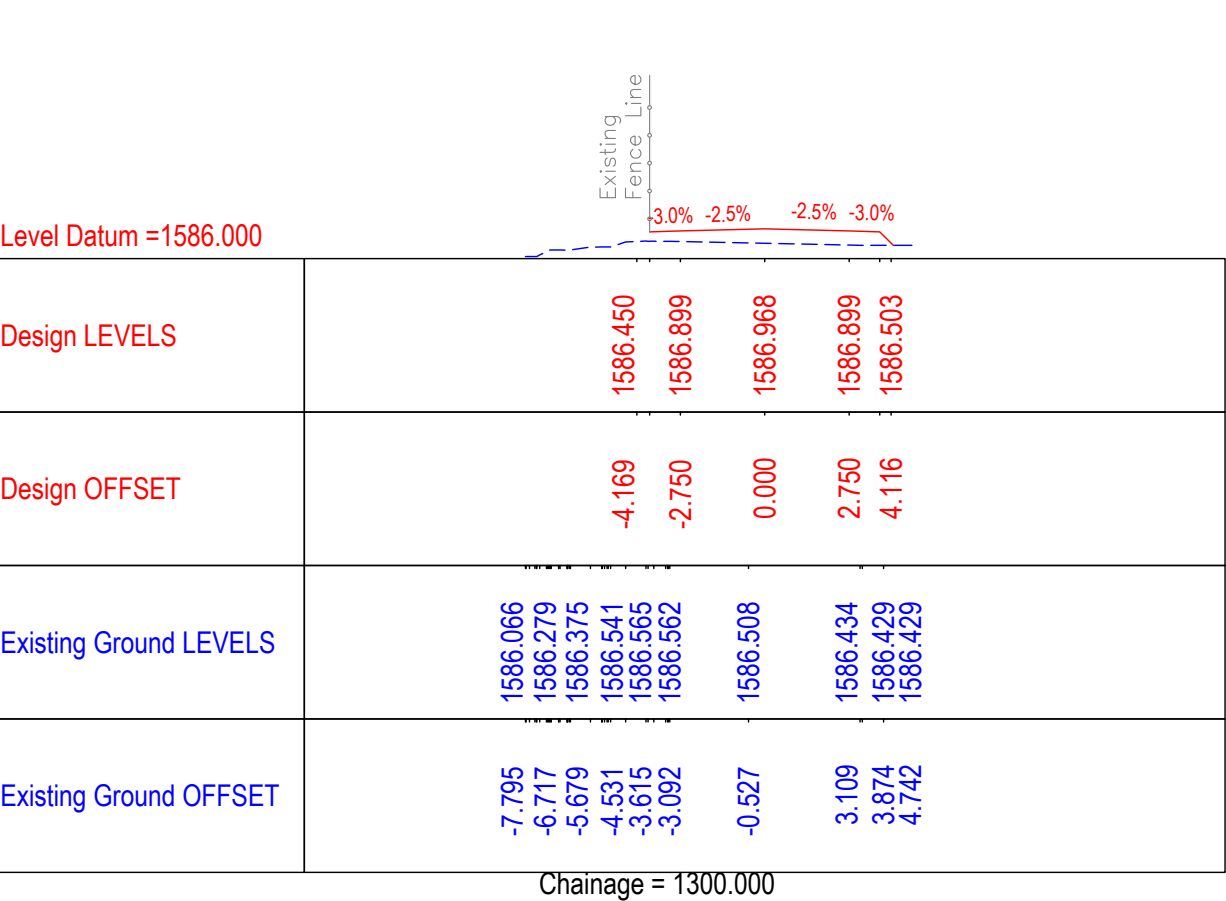
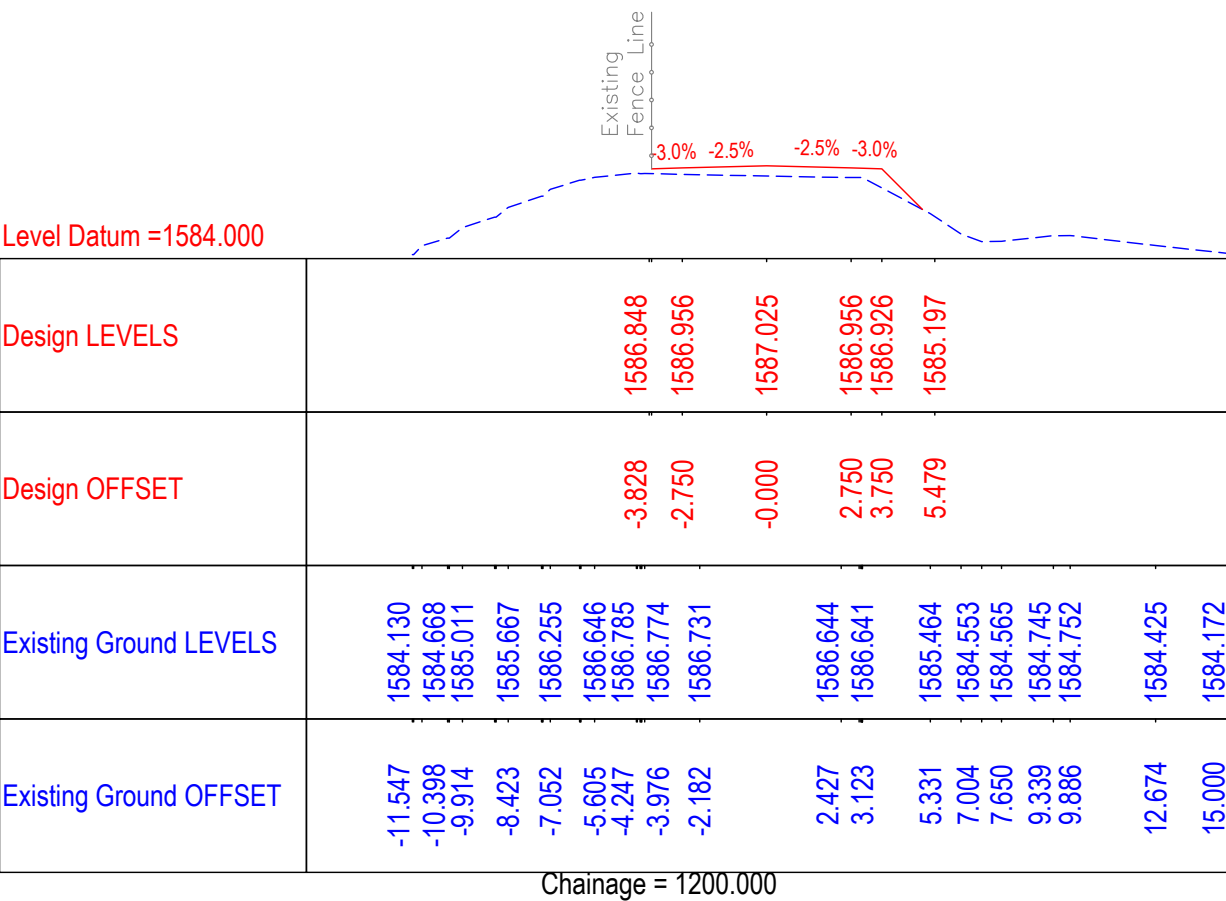
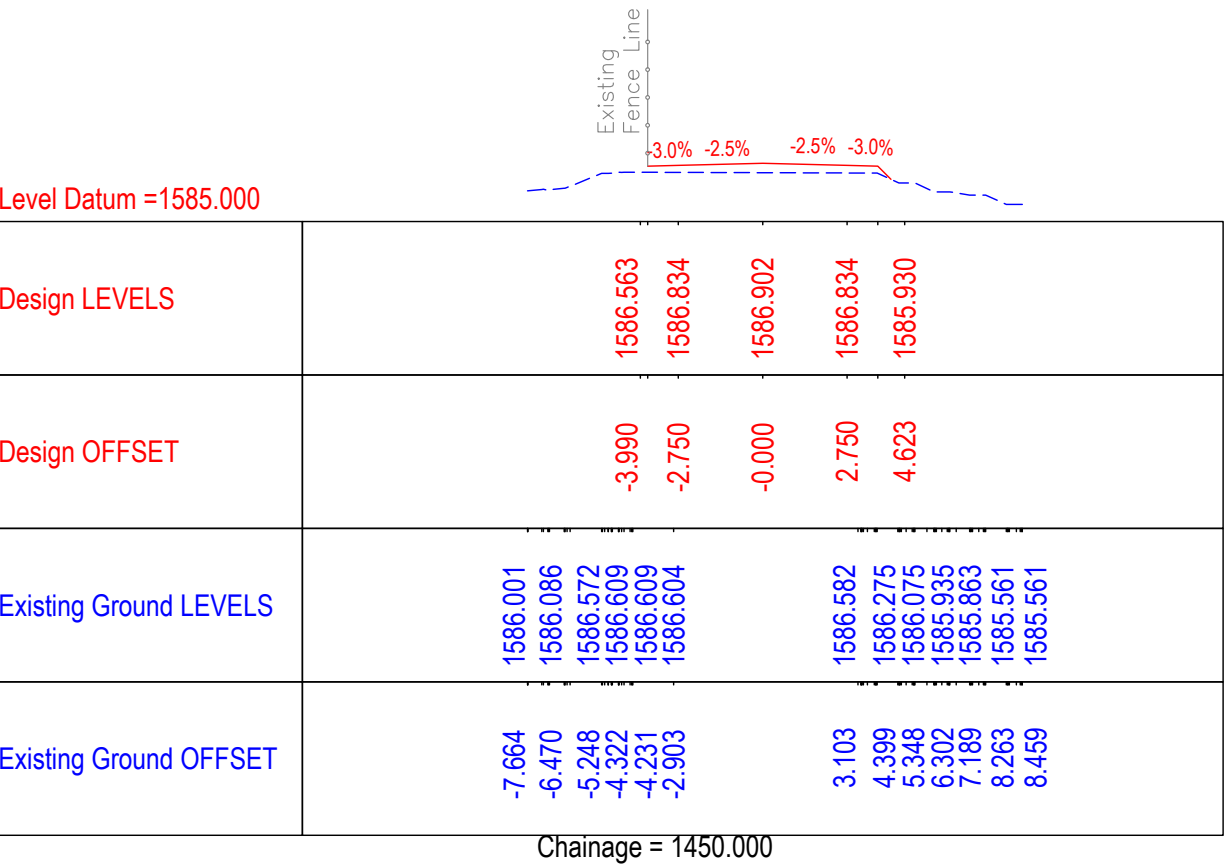
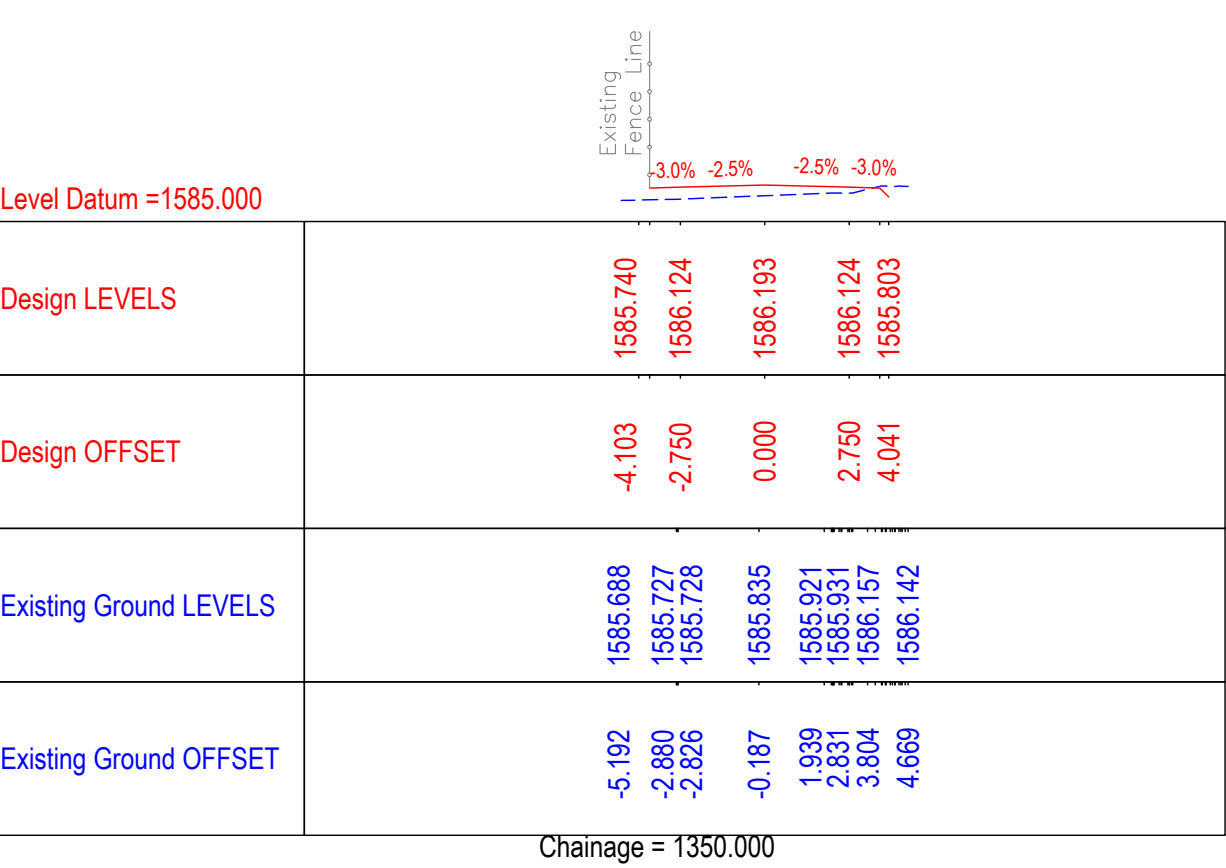
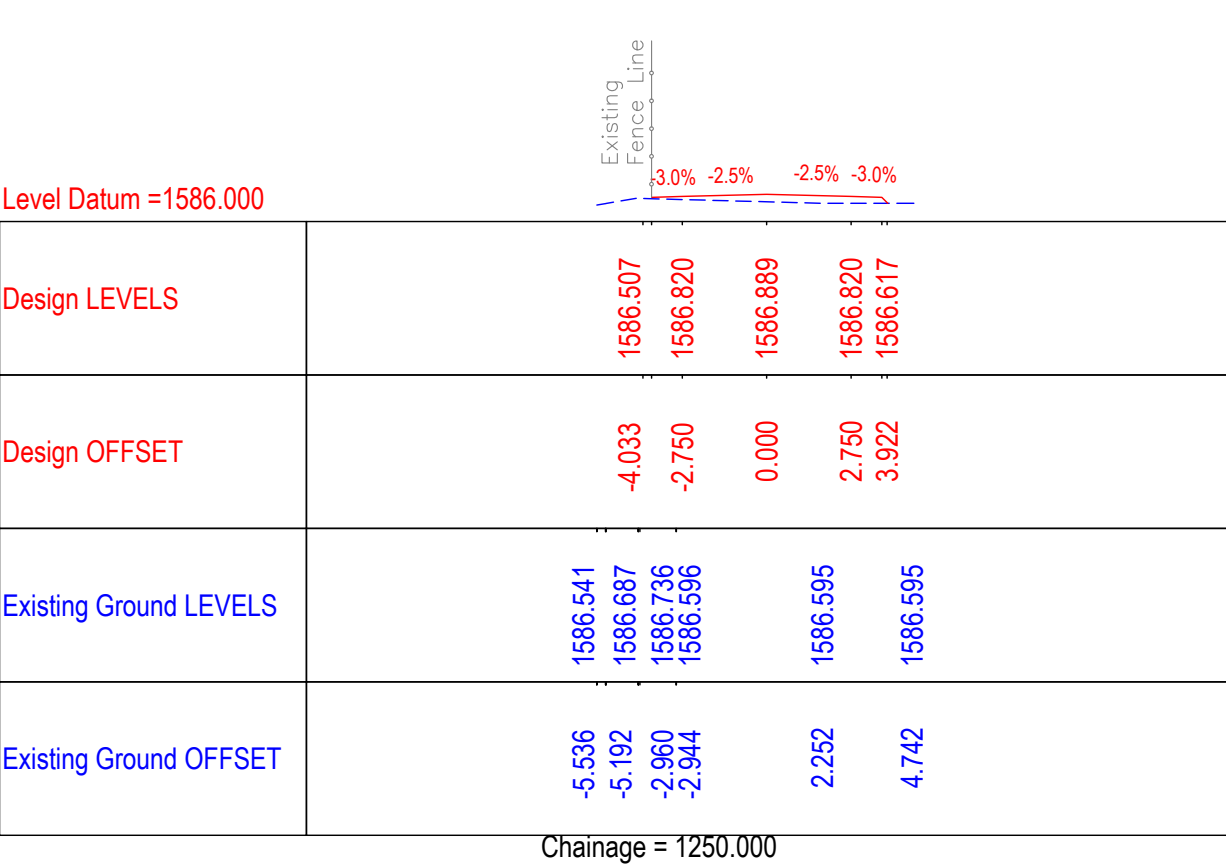
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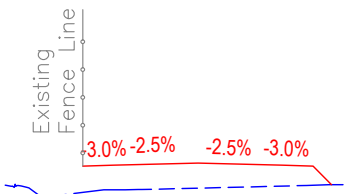
Detailed Cross Section
(Ch.0+900 to Ch.1+150)

DRG. NO. : EPTISA/JTFRP/DPR/J&K/DCS/04

REVISION : R-1

August 2019

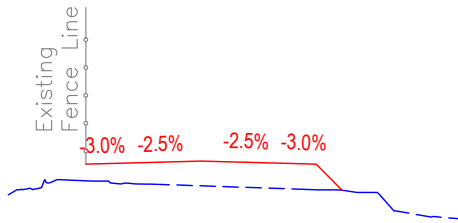




Level Datum =1583.000

Design LEVELS	1586.808 1587.510 1587.540 1587.609 1587.540 1586.824
Design OFFSET	-4.452 -3.750 -2.750 0.000 2.750 4.436
Existing Ground LEVELS	1586.923 1586.801 1586.551 1586.741 1586.747 1586.879 1586.907 1586.907
Existing Ground OFFSET	-6.405 -3.508 -4.586 -3.071 -1.950 -1.825 3.540 4.421 4.728

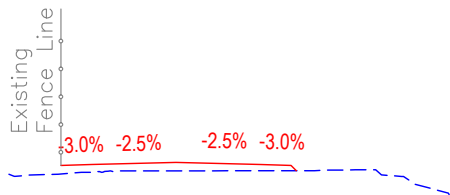
Chainage = 1550.000



Level Datum =1584.000

Design LEVELS	1587.015 1587.727 1587.757 1587.825 1587.757 1586.979
Design OFFSET	-4.462 -3.750 -2.750 0.000 2.750 4.497
Existing Ground LEVELS	1586.924 1587.223 1587.178 1587.064 1587.077 1586.899 1586.888 1586.804 1586.207 1585.954 1585.948
Existing Ground OFFSET	-5.532 -4.631 -3.540 -2.606 -1.633 3.562 4.464 5.711 6.341 8.336 8.368

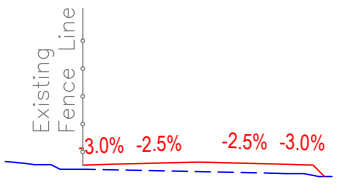
Chainage = 1650.000



Level Datum =1586.000

Design LEVELS	1587.412 1587.662 1587.731 1587.662 1587.443
Design OFFSET	-3.970 -2.750 0.000 2.750 3.939
Existing Ground LEVELS	1587.345 1587.318 1587.409 1587.454 1587.454 1587.456 1587.460 1587.477 1587.490 1587.275 1587.021 1586.686
Existing Ground OFFSET	-5.442 -4.796 -3.080 -2.144 -1.590 0.449 3.889 4.791 5.845 7.352 7.790 8.900

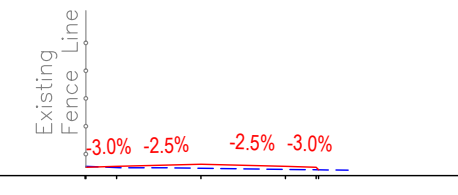
Chainage = 1750.000



Level Datum =1585.000

Design LEVELS	1586.634 1586.869 1586.938 1586.869 1586.618
Design OFFSET	-3.955 -2.750 -0.000 2.750 3.971
Existing Ground LEVELS	1586.856 1586.705 1586.703 1586.574 1586.561 1586.469 1586.469
Existing Ground OFFSET	-5.335 -4.446 -3.666 2.478 3.374 4.328 4.365

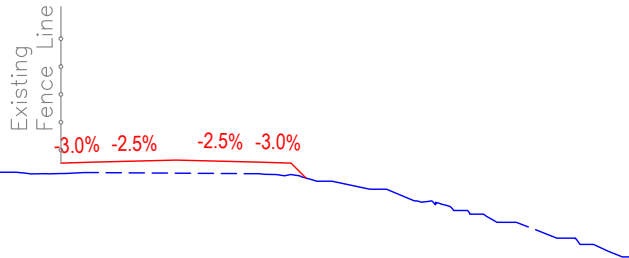
Chainage = 1500.000



Level Datum =1588.000

Design LEVELS	1588.299 1588.300 1588.369 1588.300 1588.191
Design OFFSET	-3.778 -2.750 -0.000 2.750 3.830
Existing Ground LEVELS	1588.388 1588.357 1588.251 1588.252 1588.252 1588.191 1588.173
Existing Ground OFFSET	-5.838 -5.257 -2.560 -1.461 -1.242 3.418 4.742

Chainage = 1600.000



Level Datum =1584.000

Design LEVELS	1586.876 1587.171 1587.239 1587.171 1586.752
Design OFFSET	-4.014 -2.750 -0.000 2.750 4.138
Existing Ground LEVELS	1586.844 1586.795 1586.836 1586.795 1586.746 1586.565 1586.403 1586.293 1585.909 1585.800 1585.530 1585.215 1585.215 1584.697 1584.495 1584.152 1584.084
Existing Ground OFFSET	-5.308 -4.406 -3.002 2.698 3.620 4.555 5.797 6.786 7.769 8.661 9.555 10.458 11.092 12.414 13.454 14.377 15.000

Chainage = 1700.000

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE 1 : 250

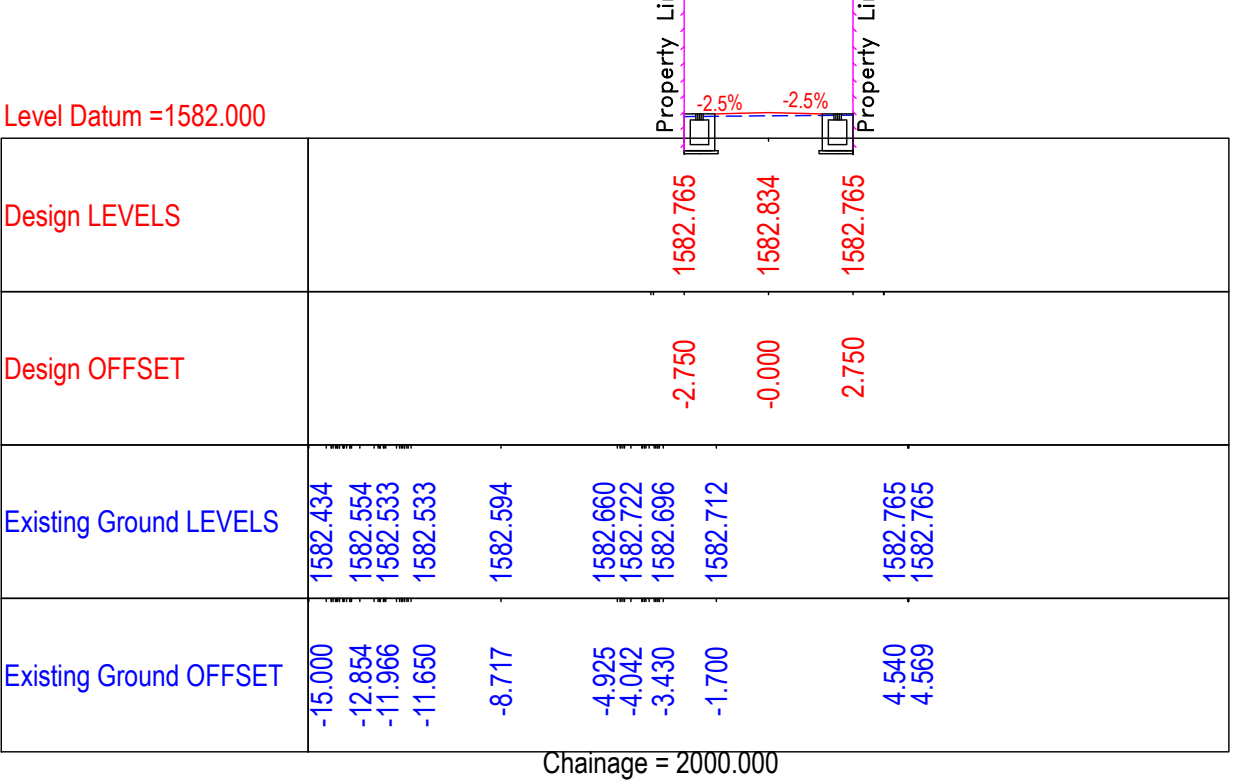
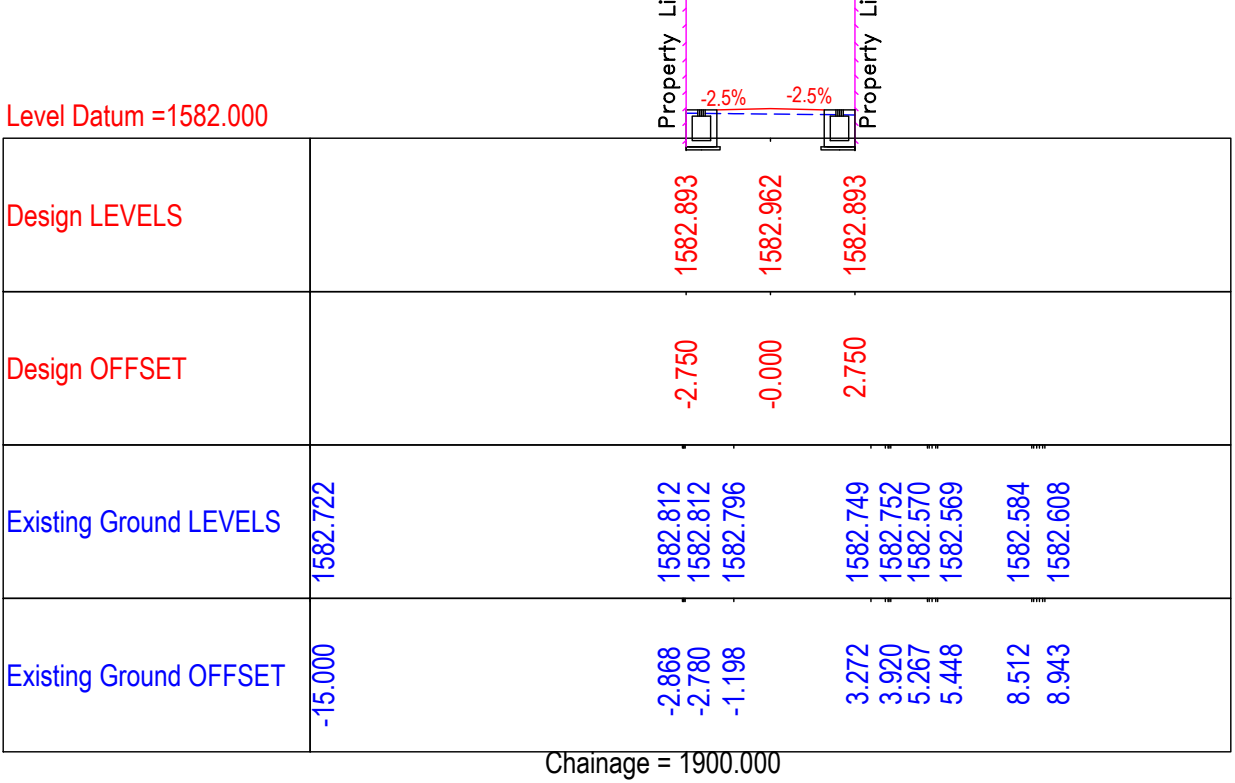
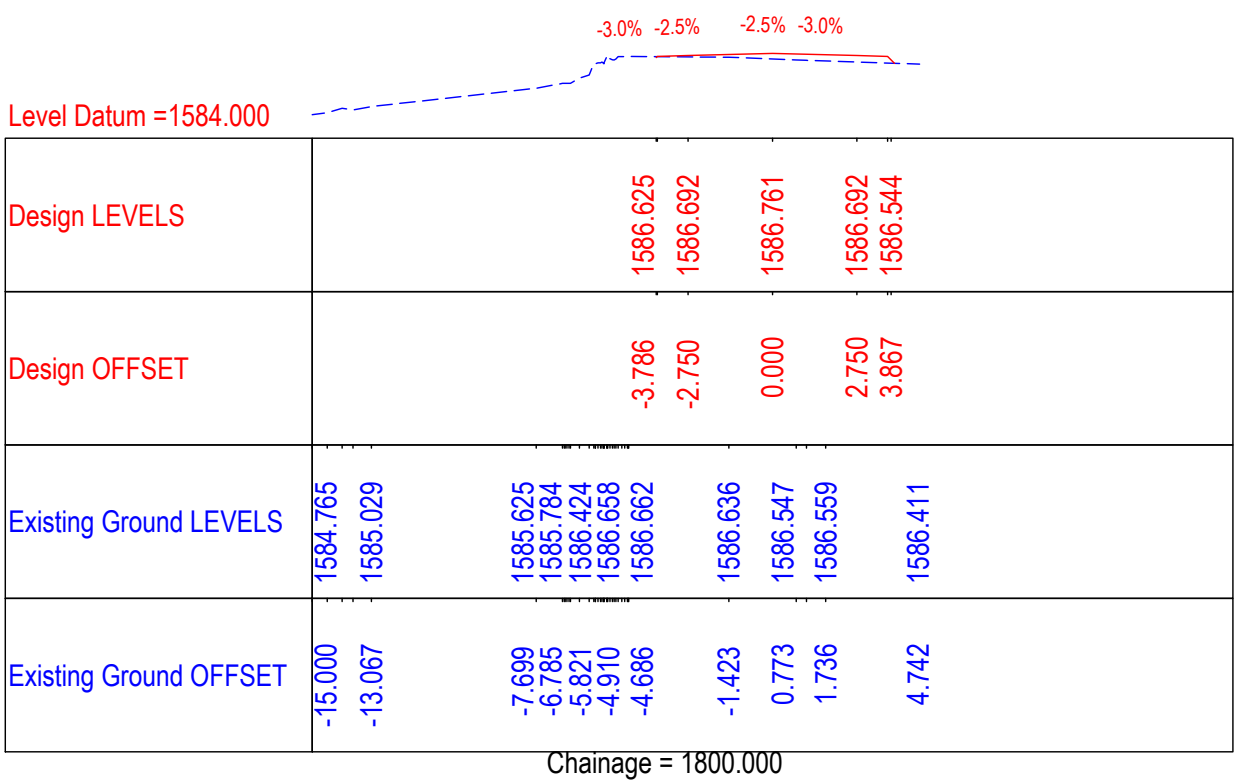
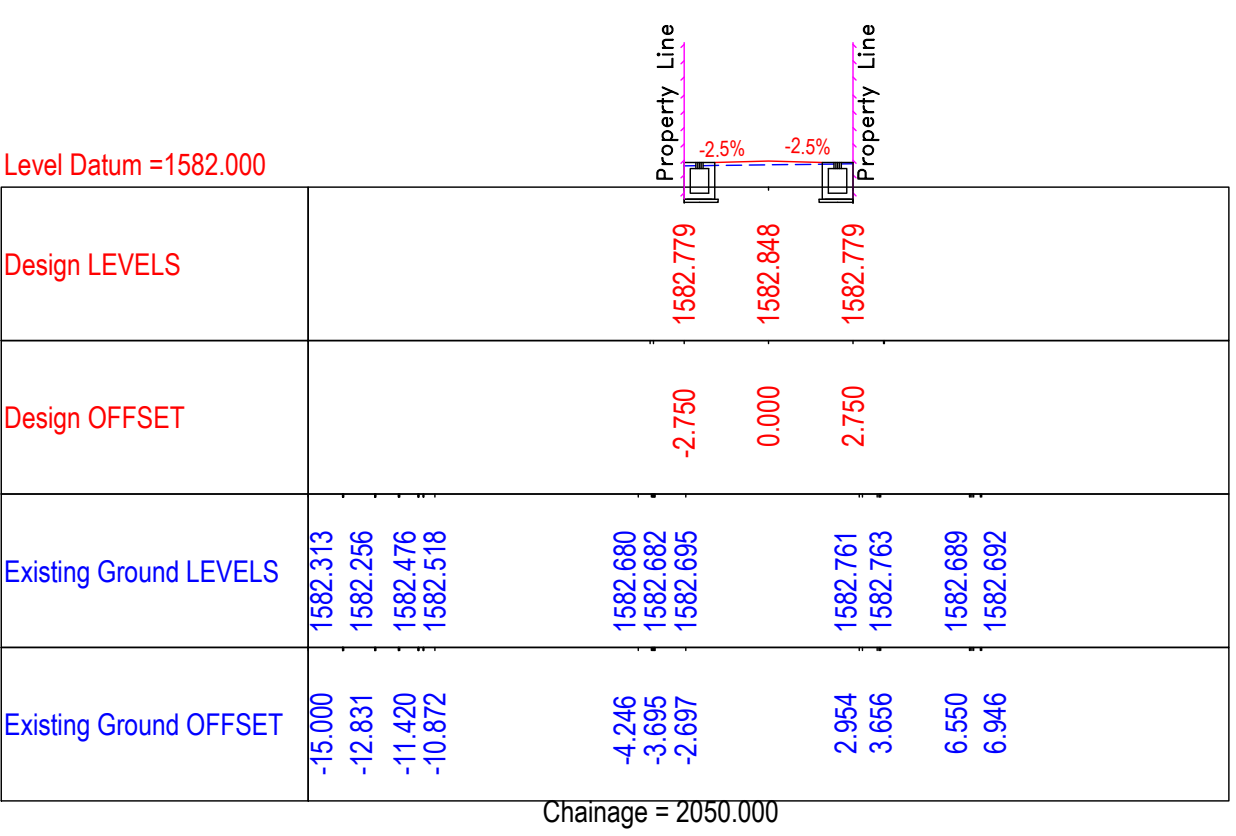
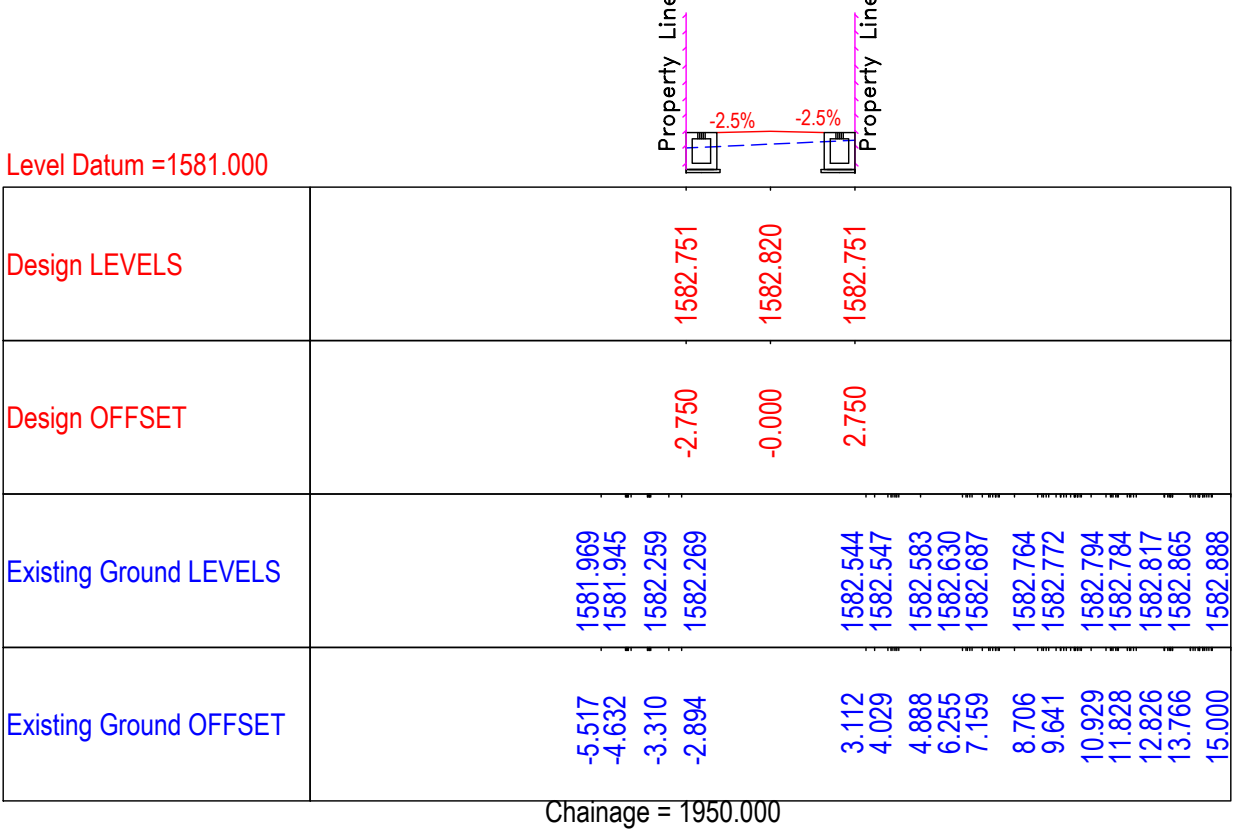
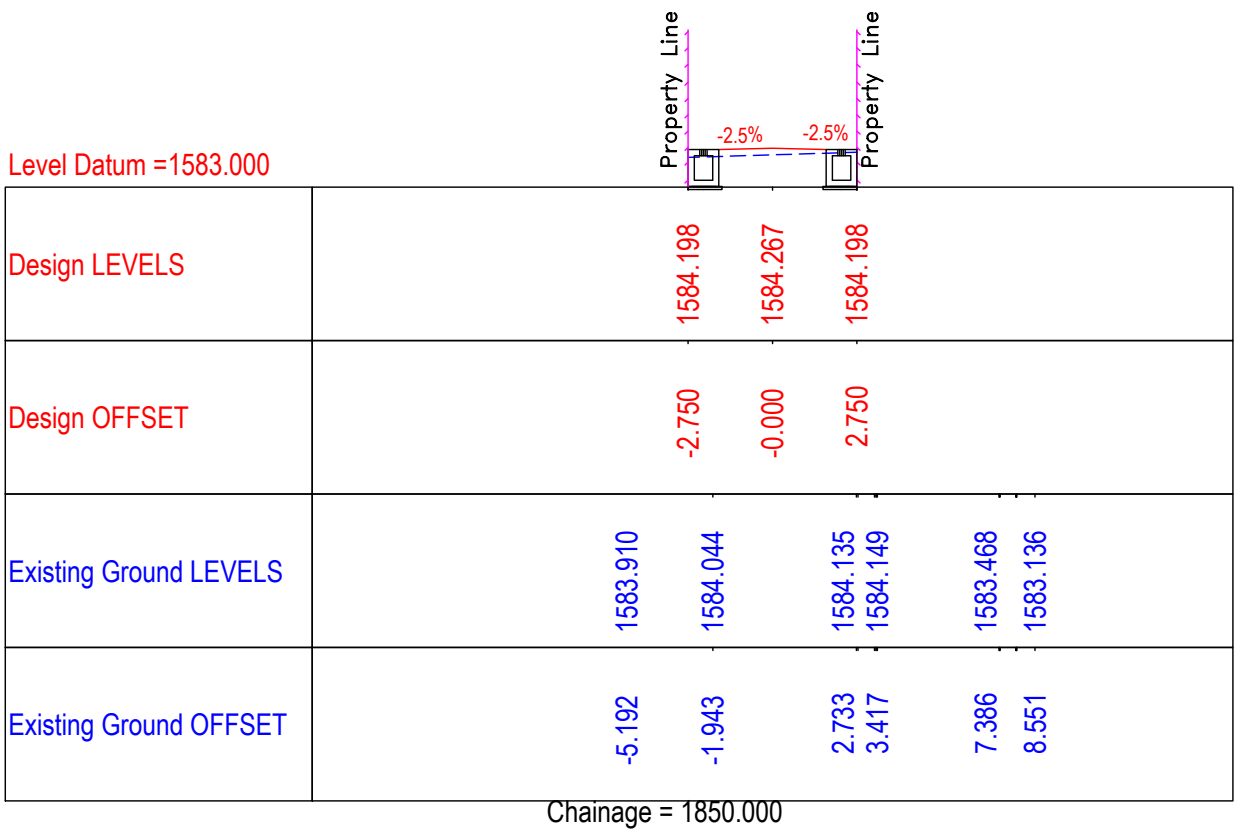
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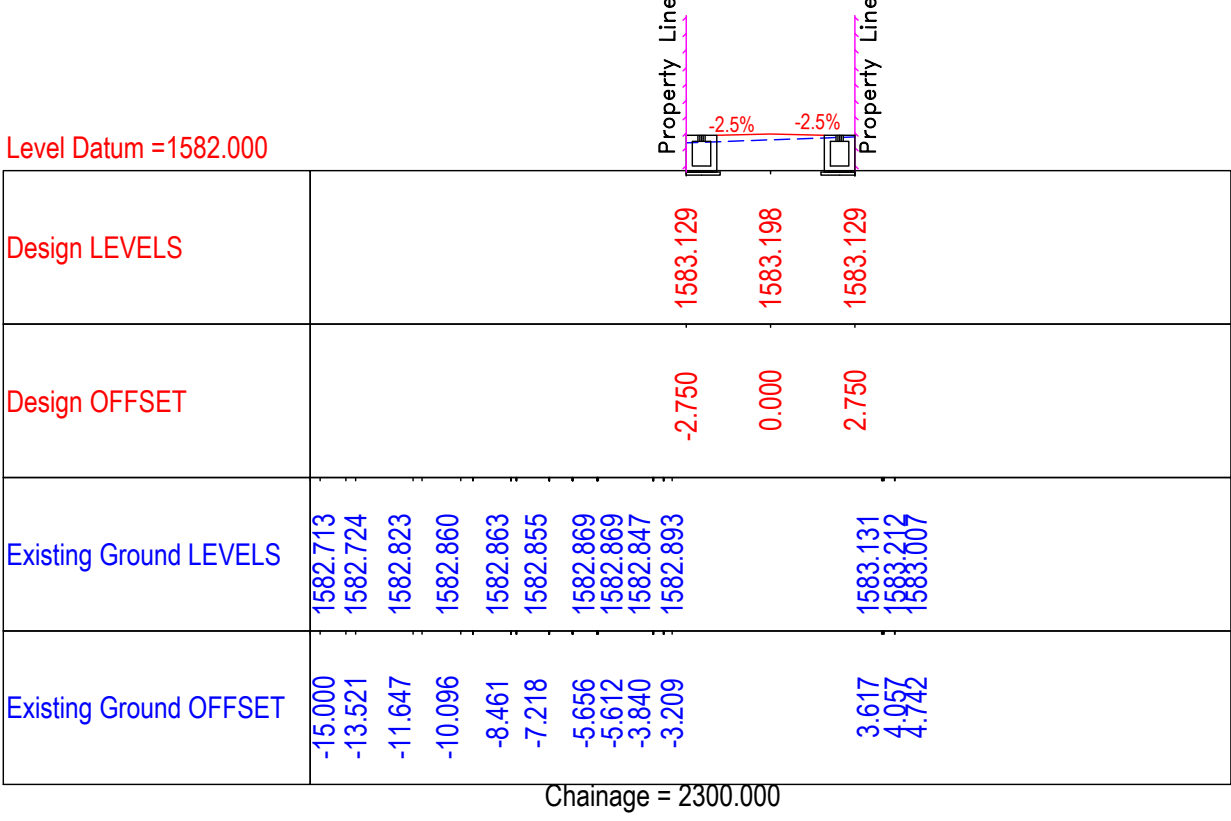
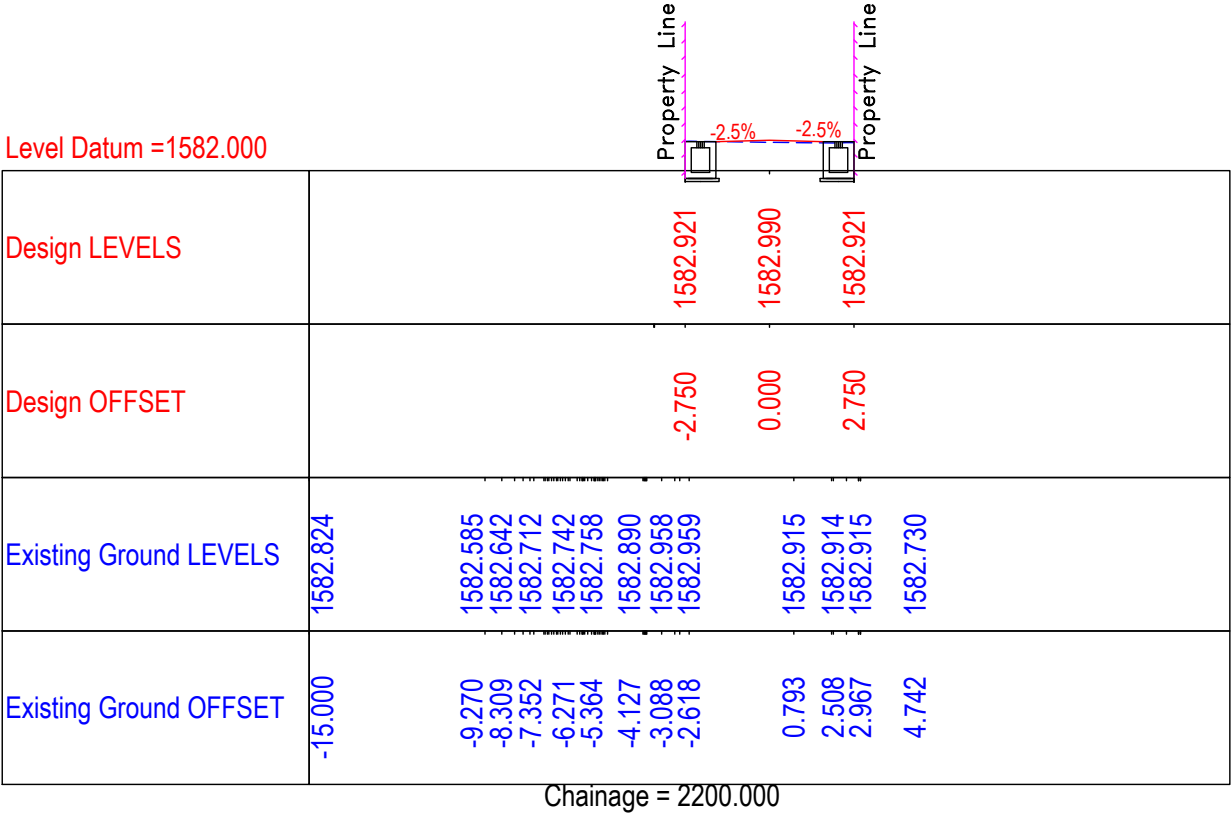
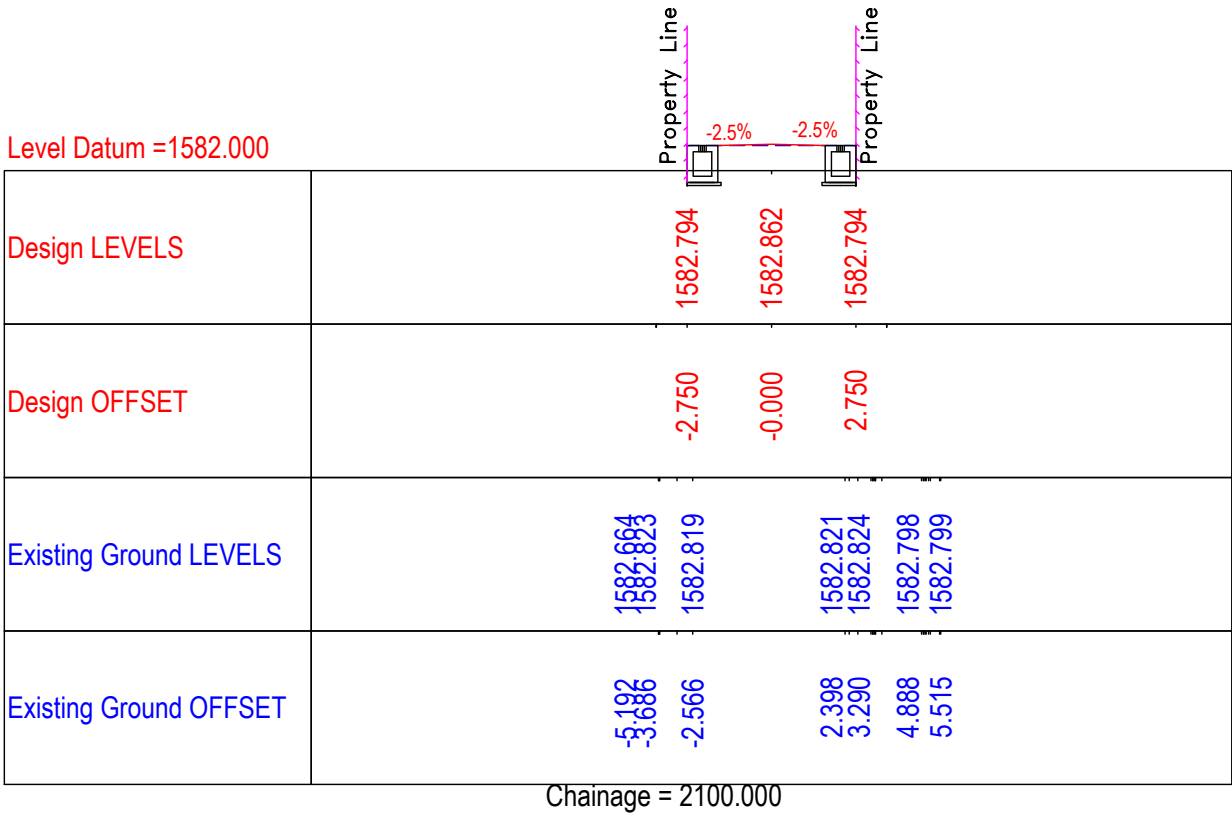
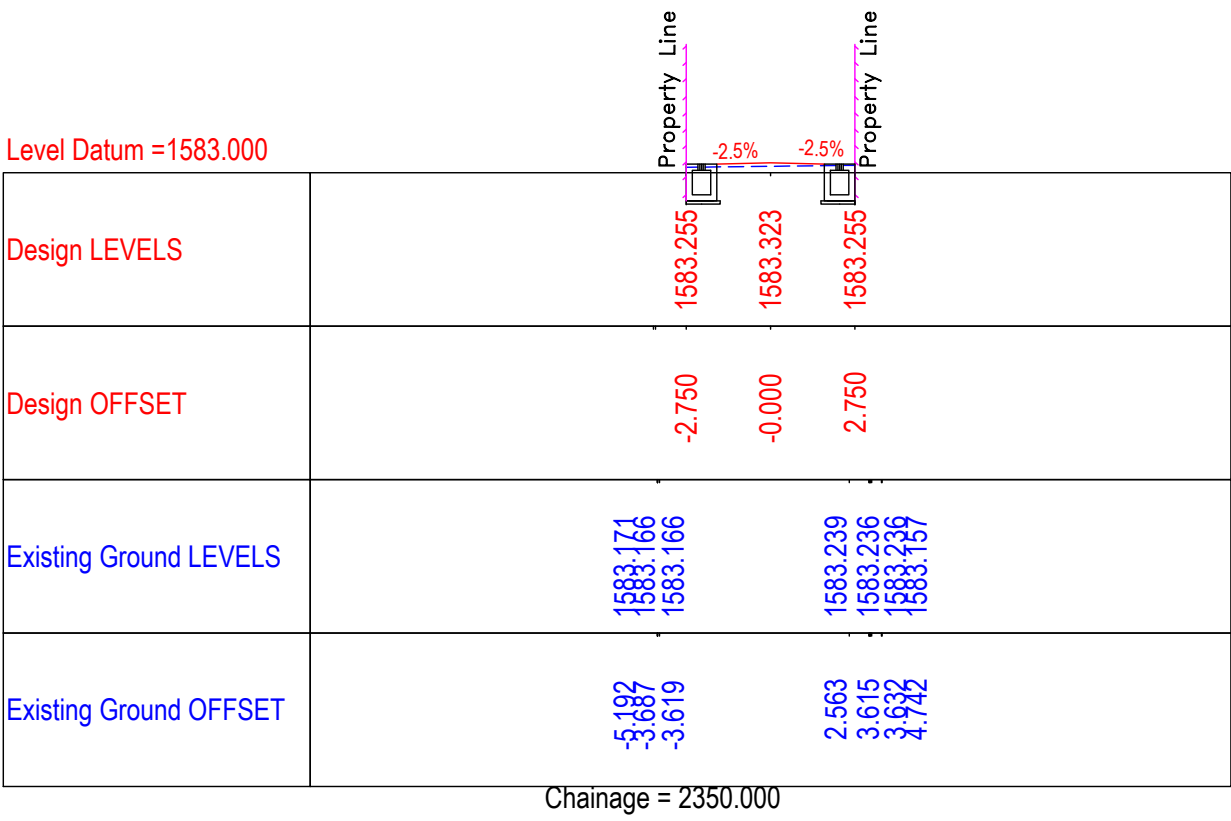
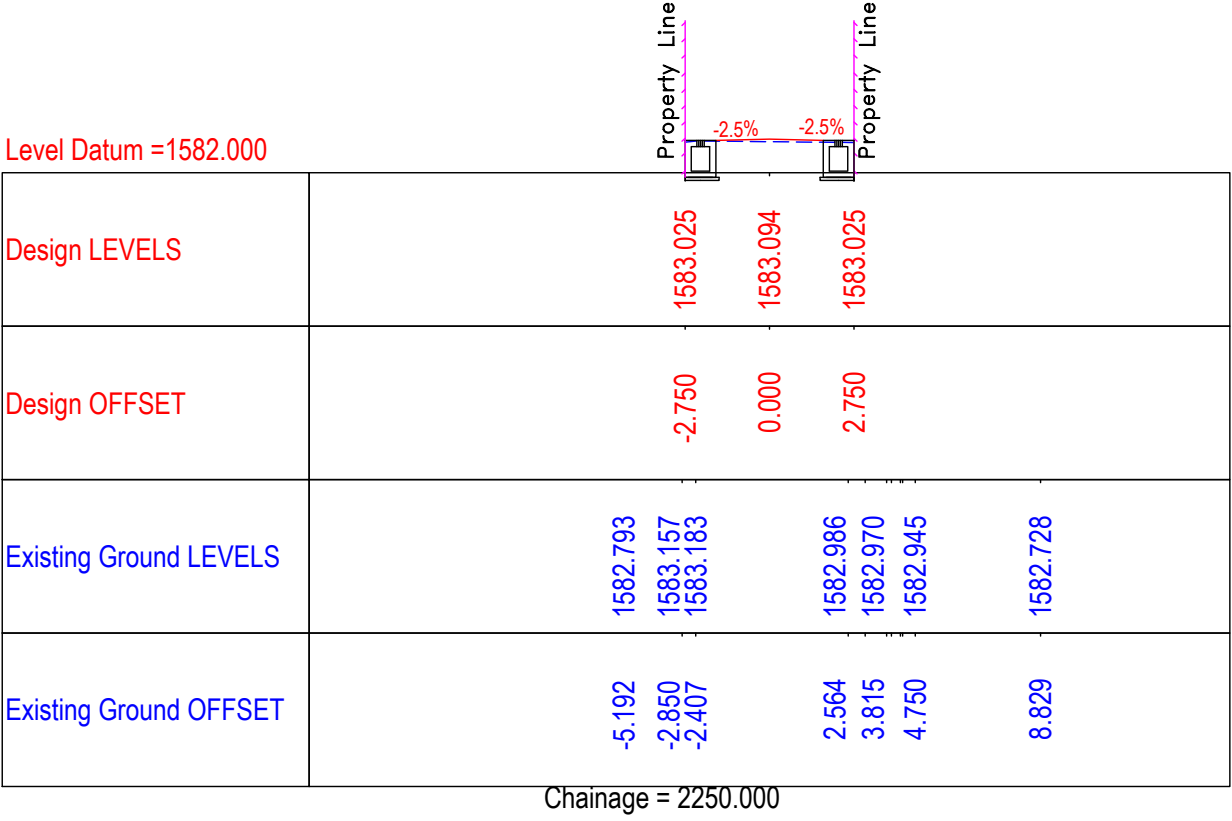
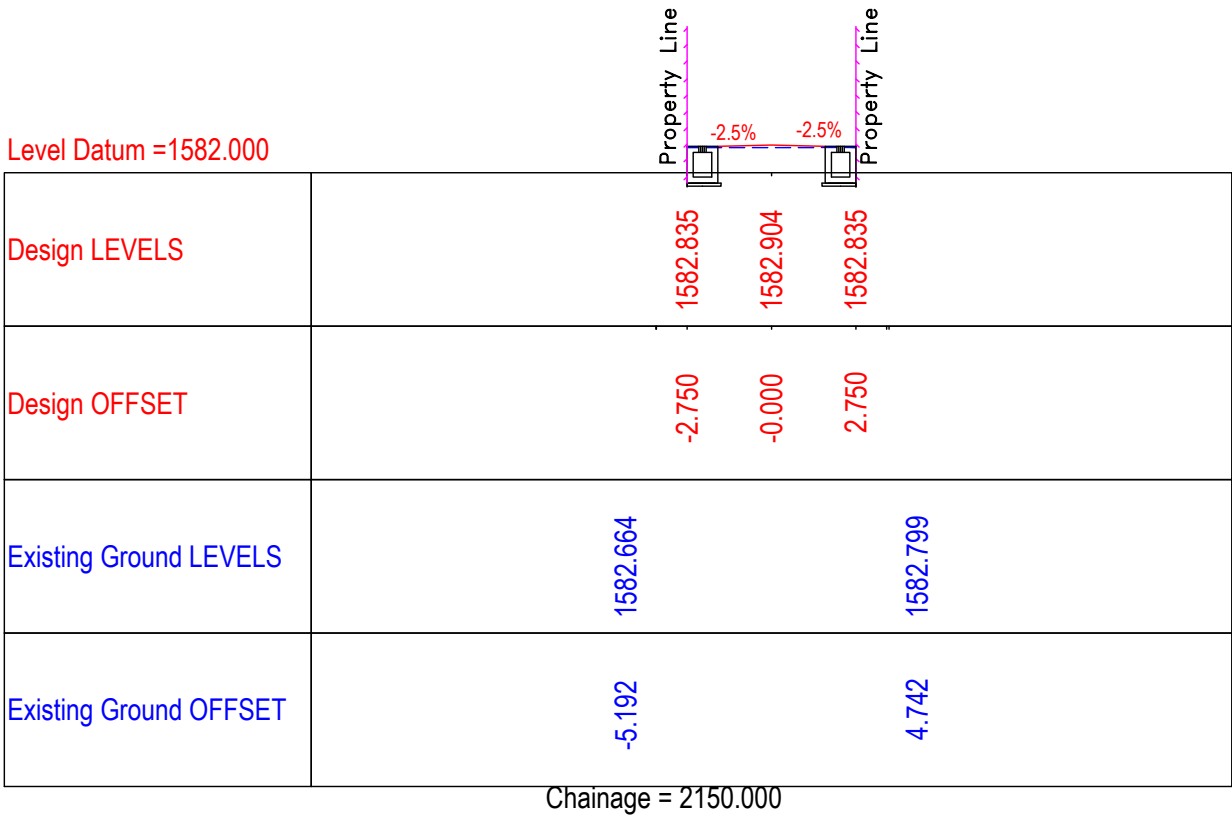
Detailed Cross Section
(Ch.1+500 to Ch.1+750)

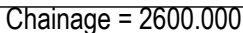
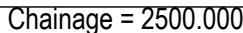
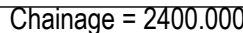
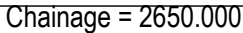
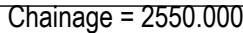
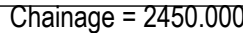
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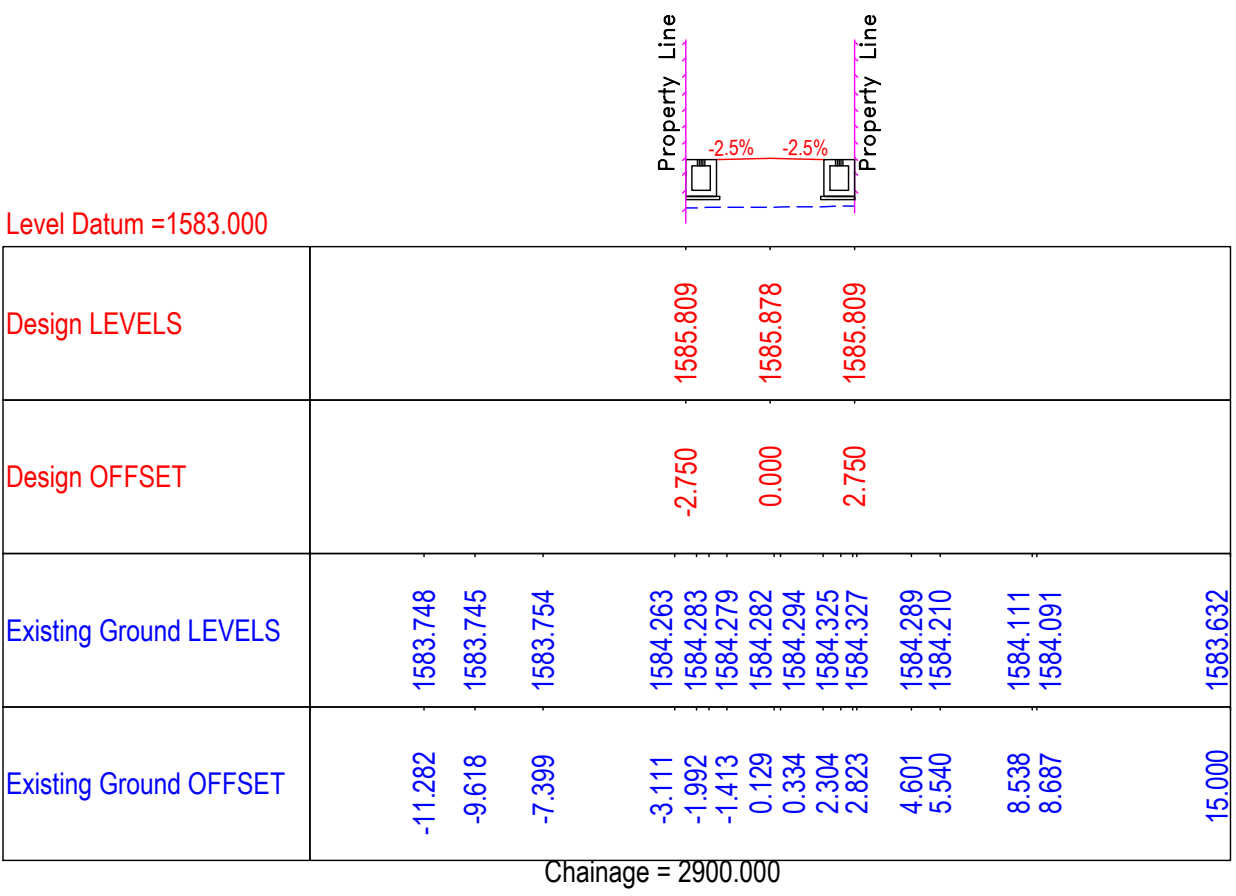
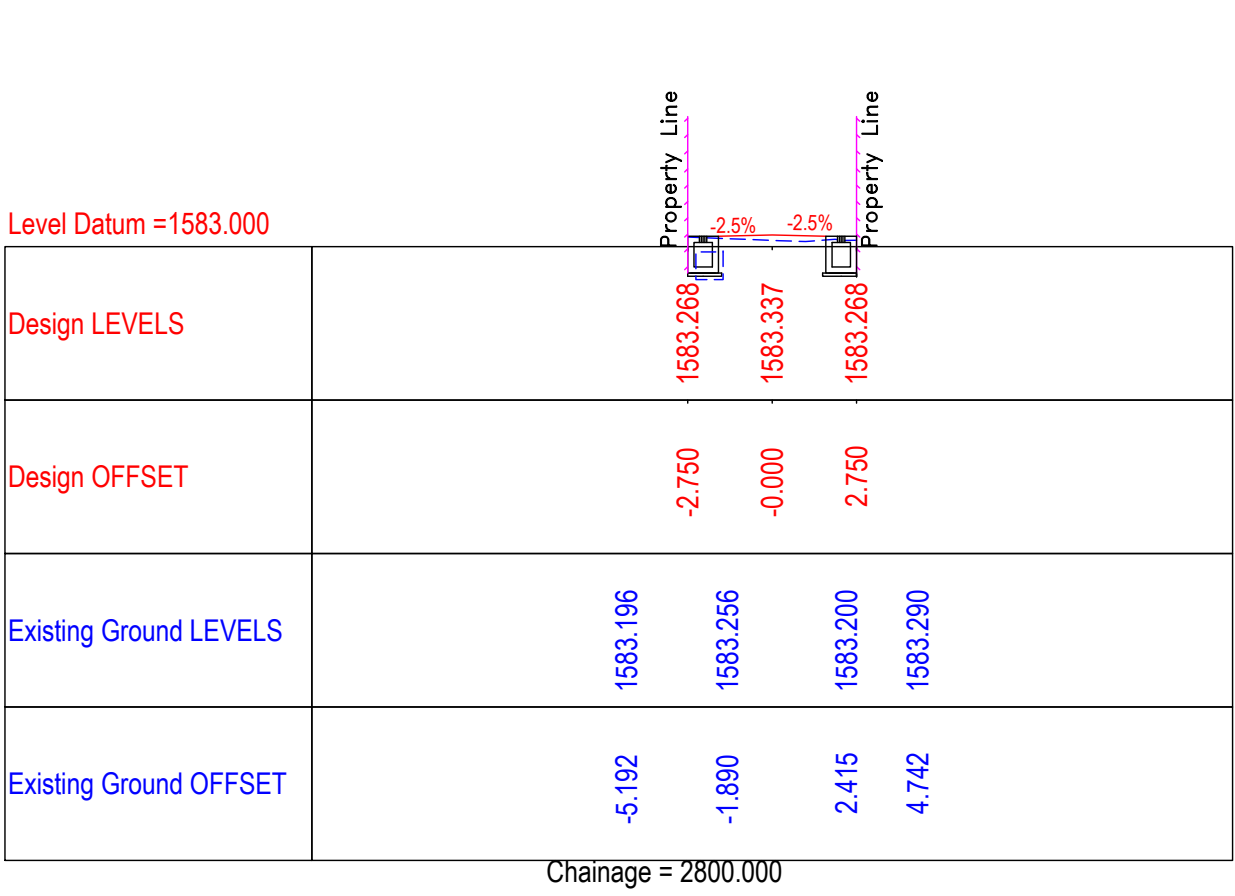
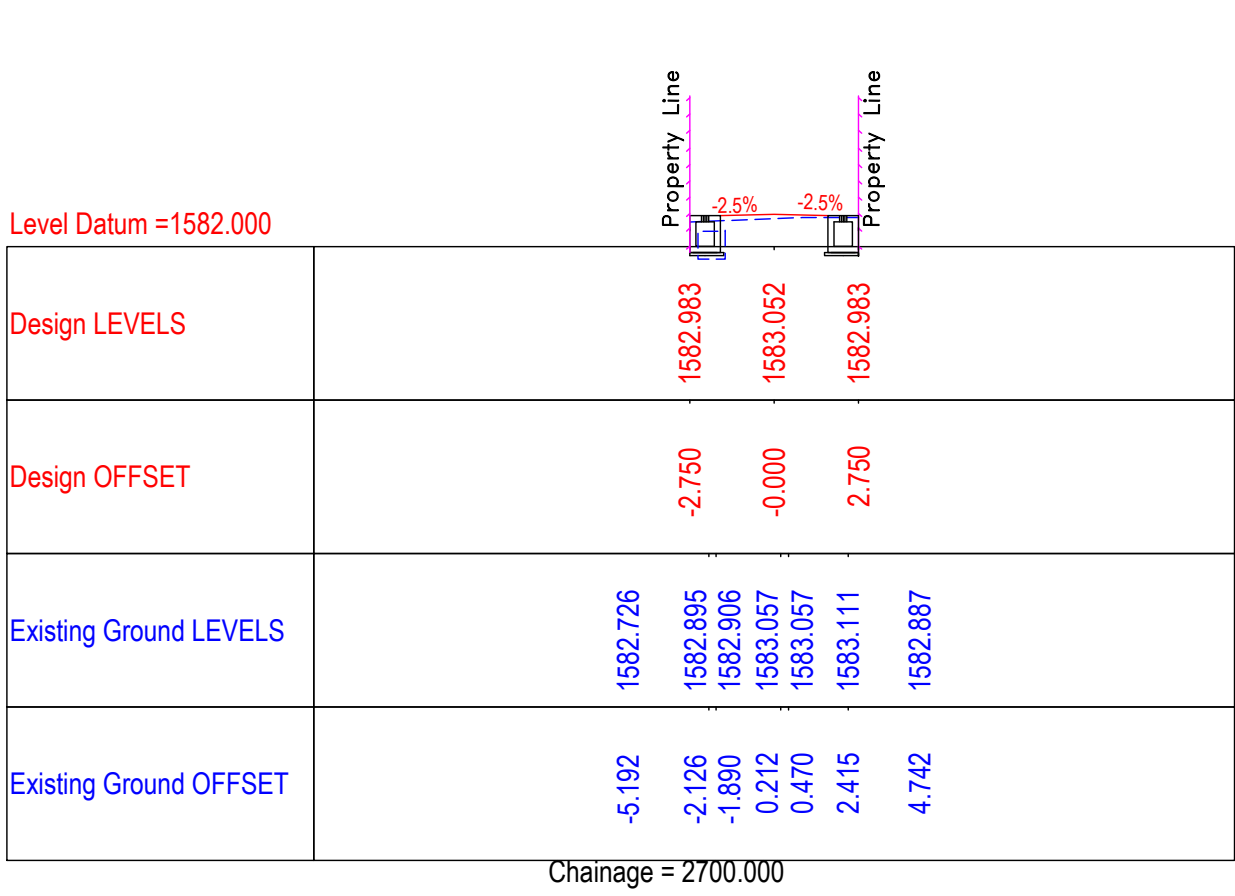
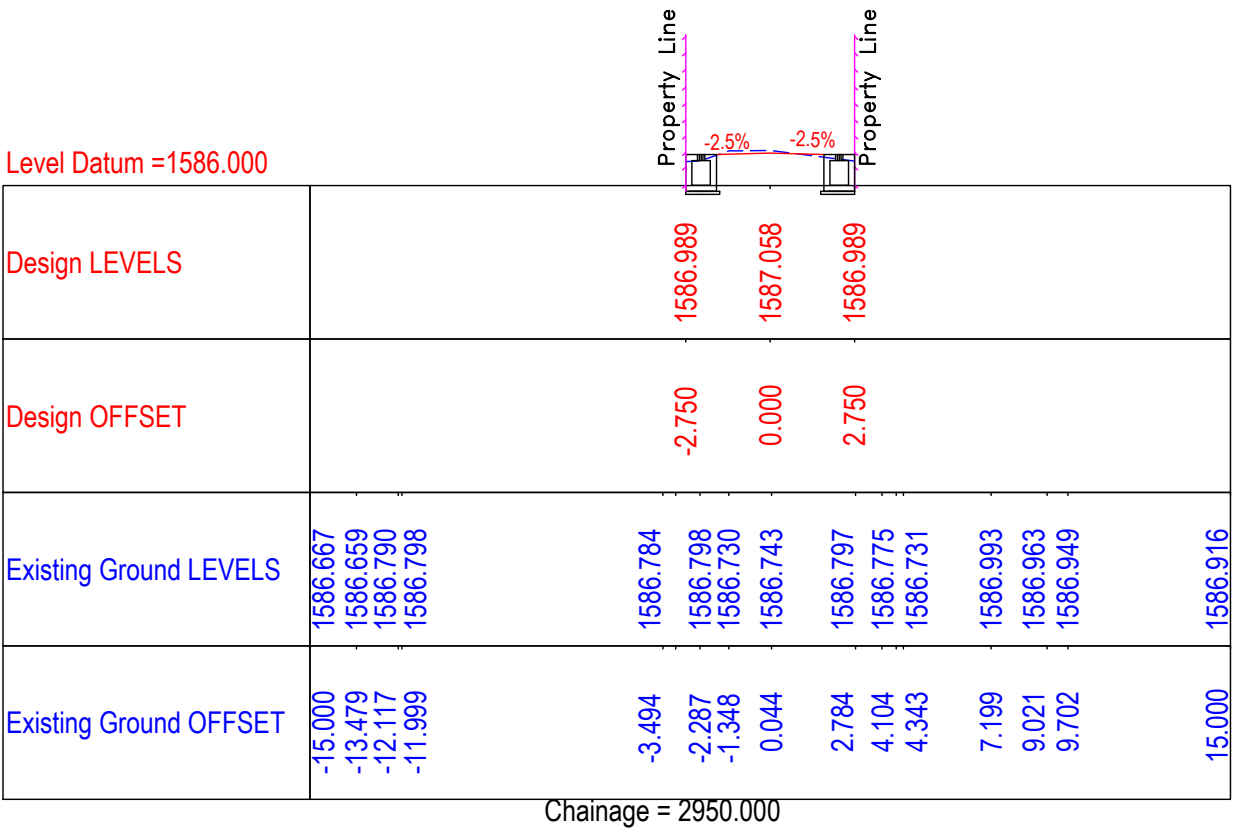
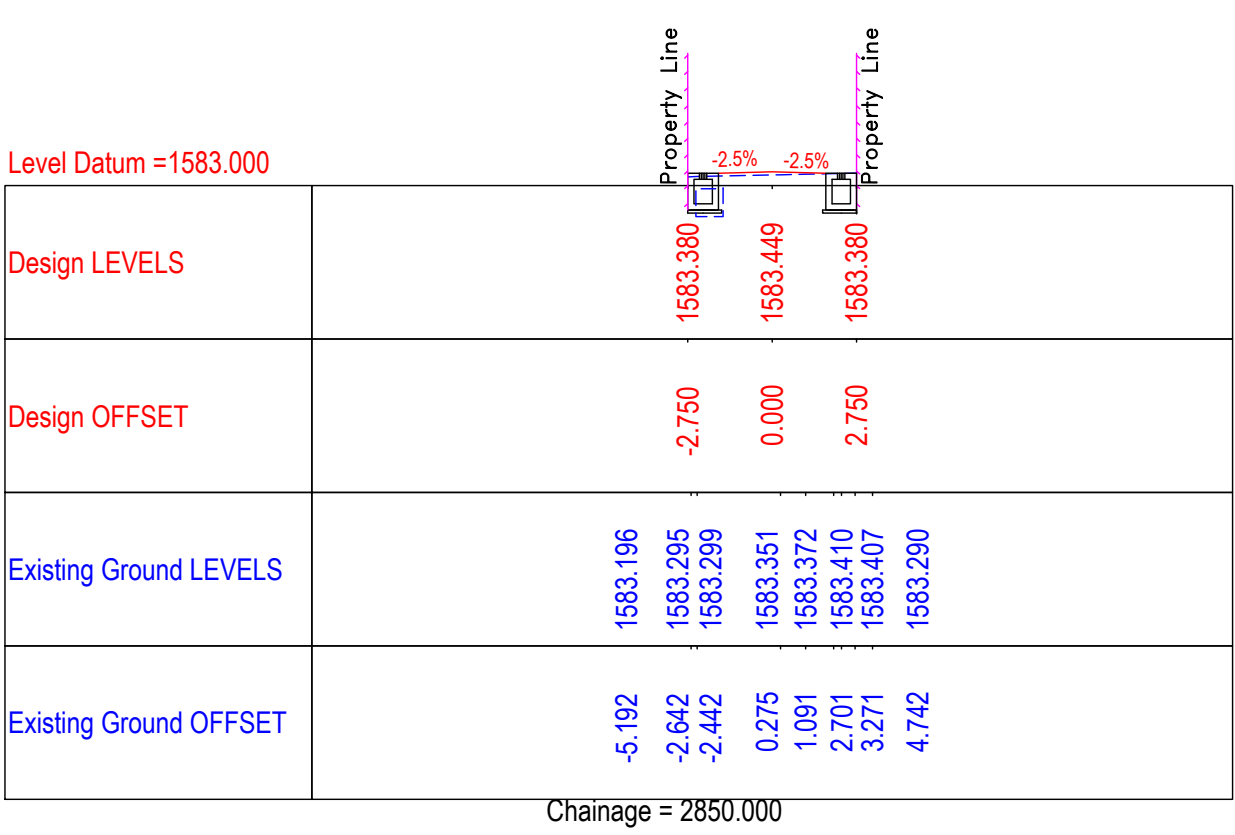
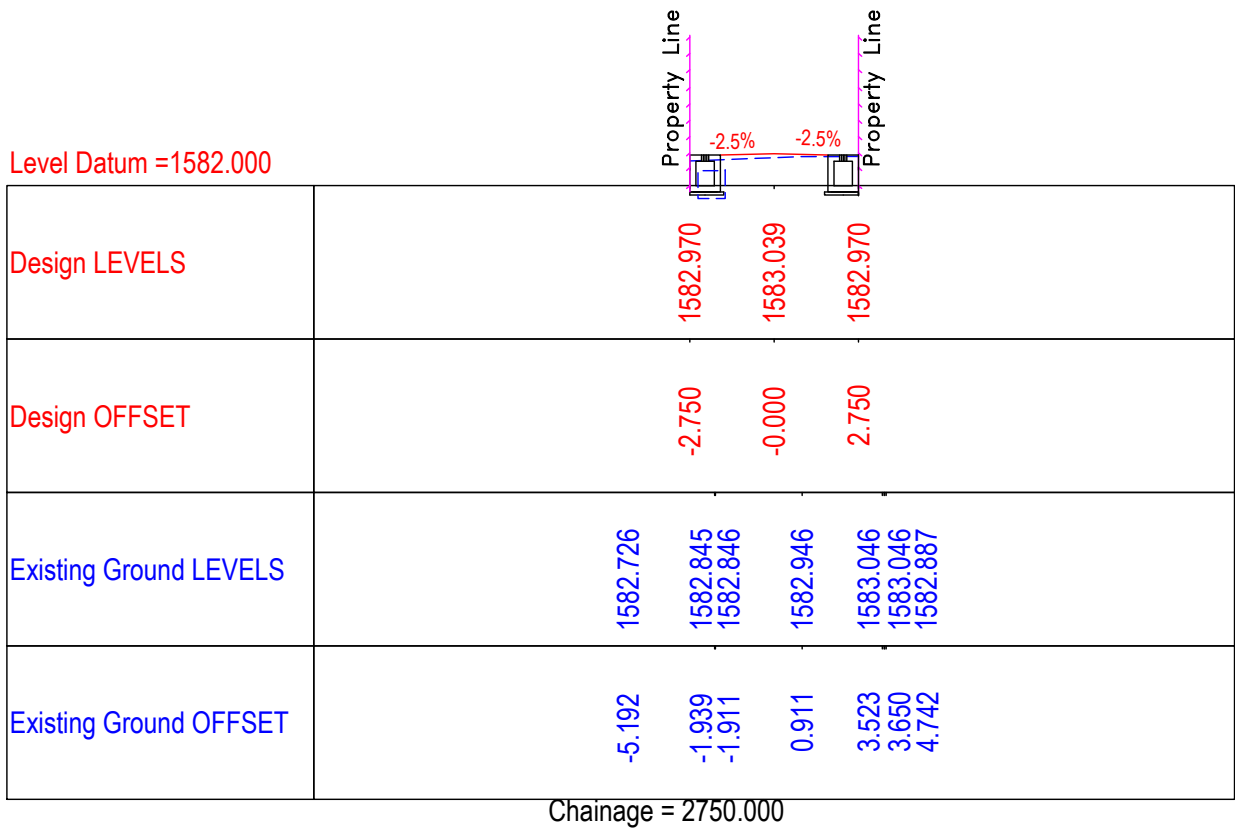
REVISION : R-1

August 2019

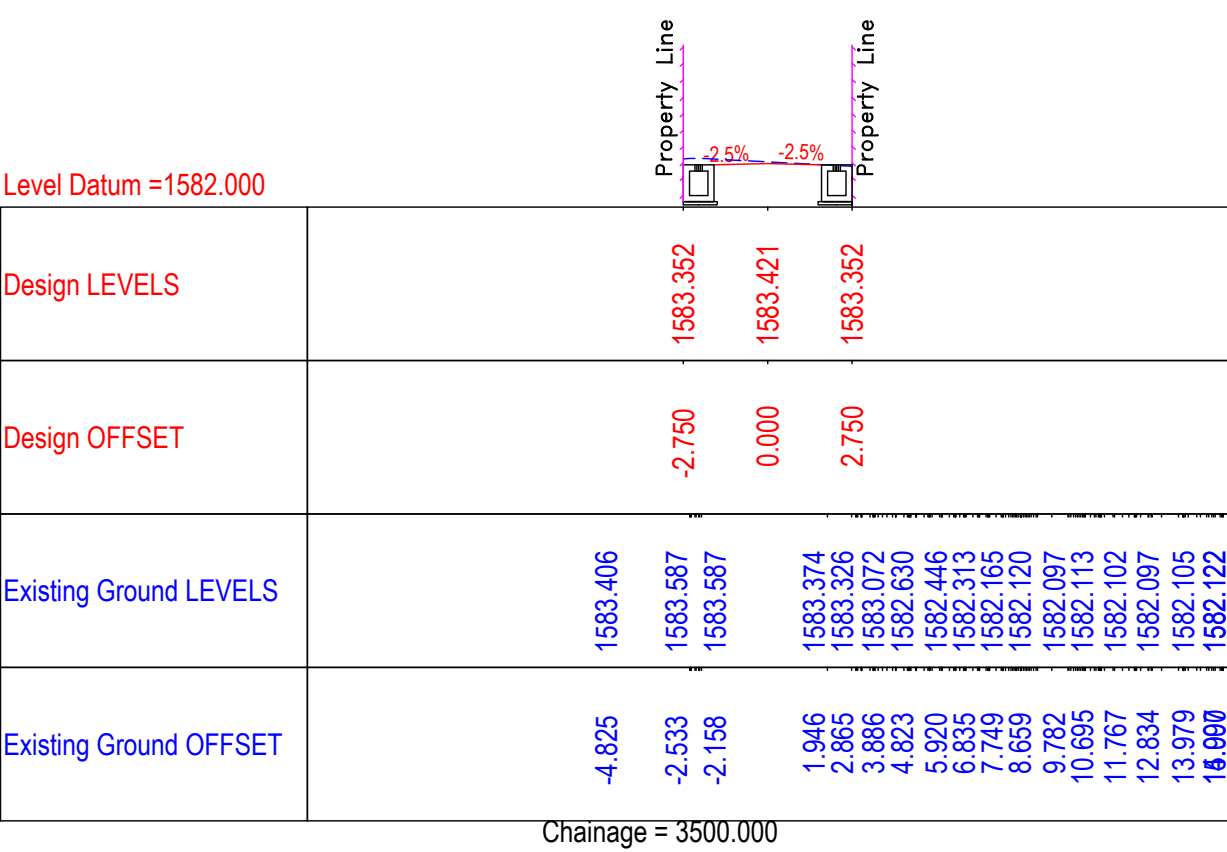
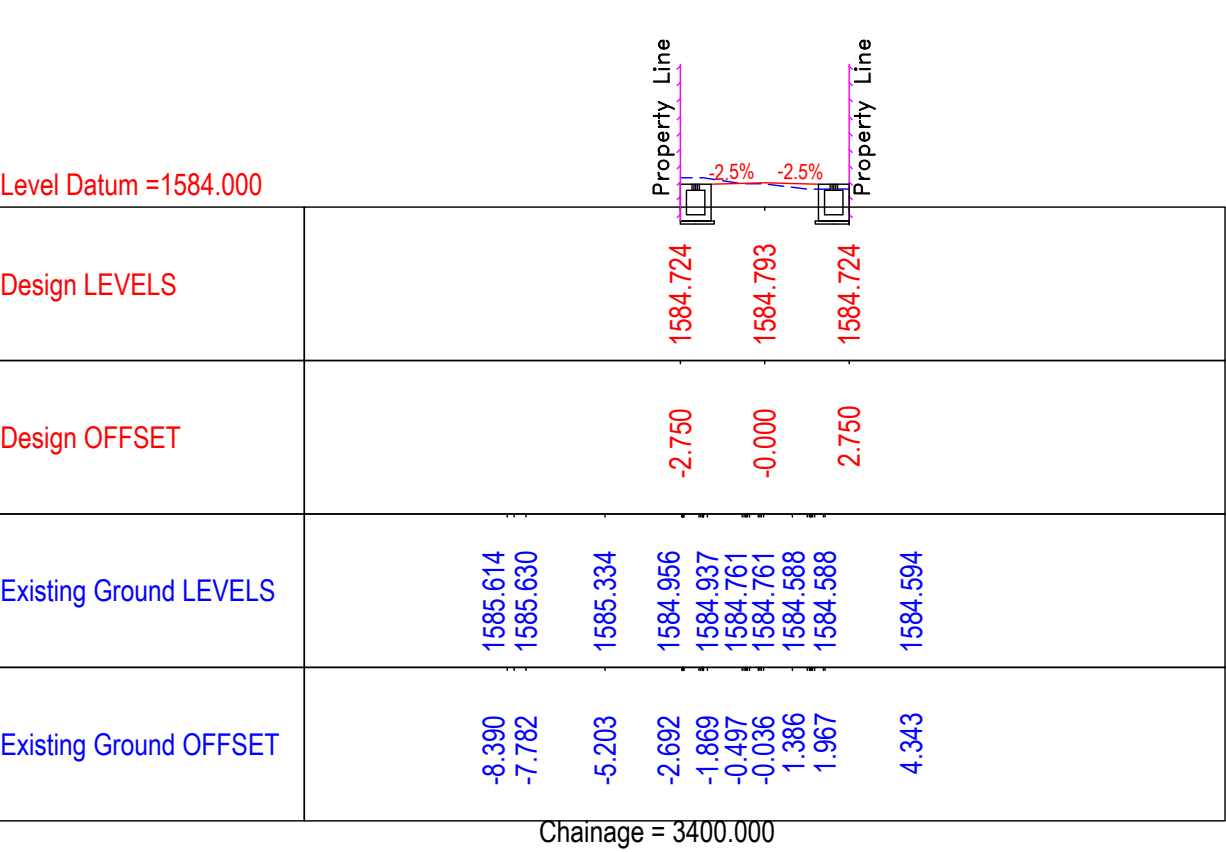
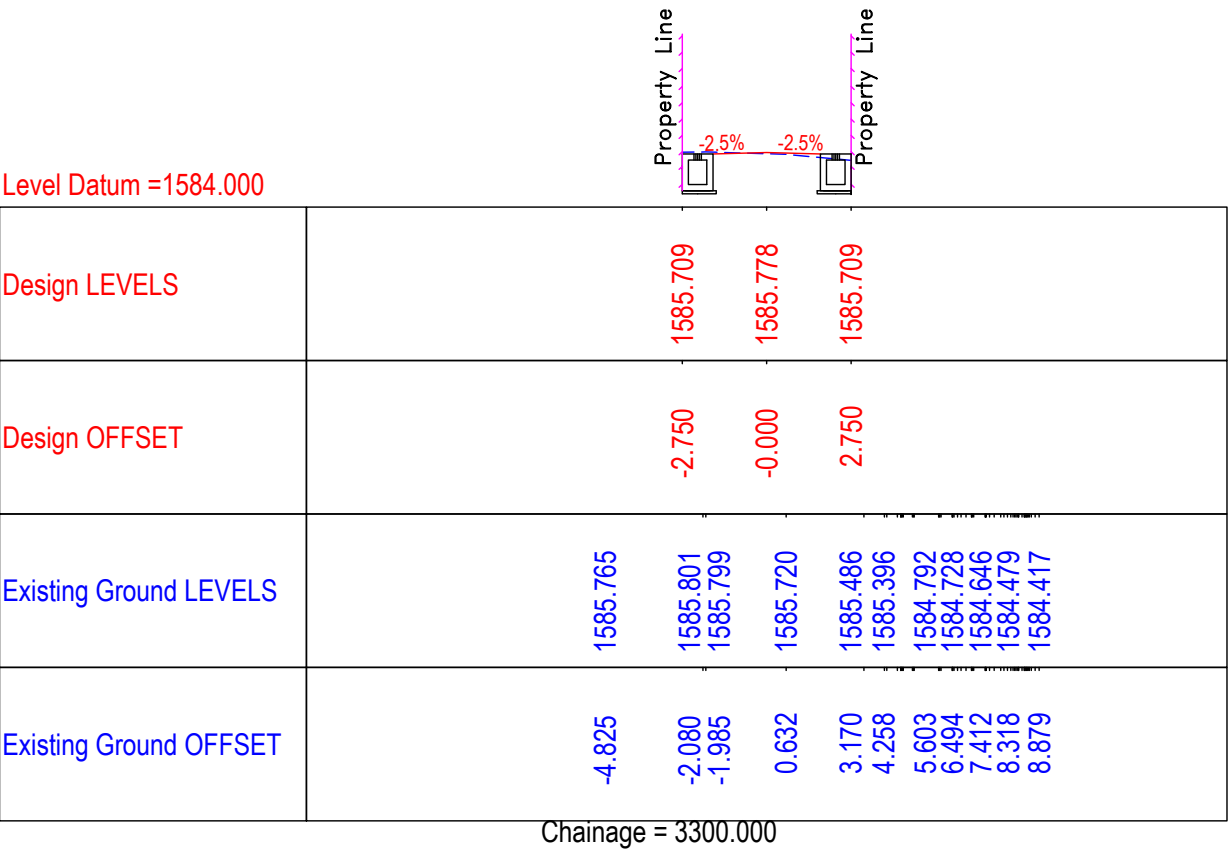
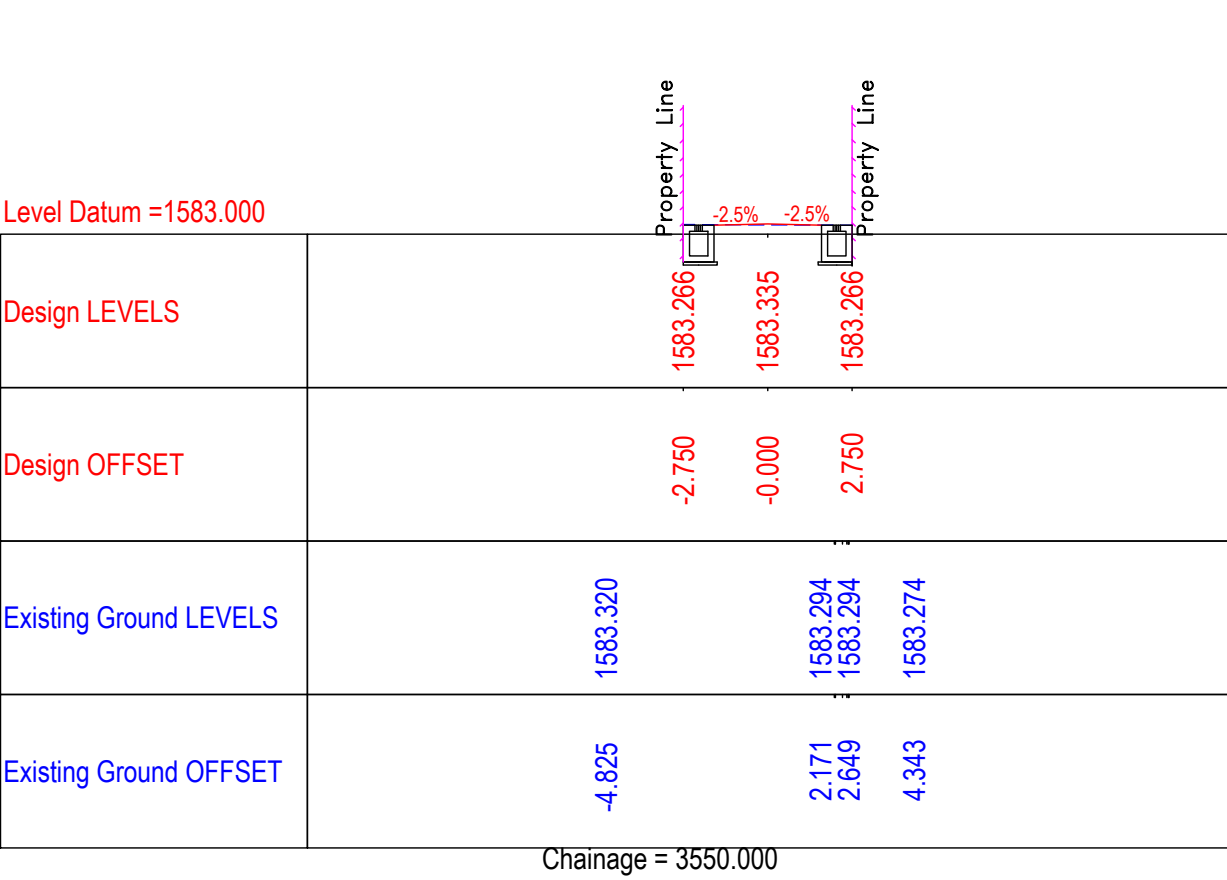
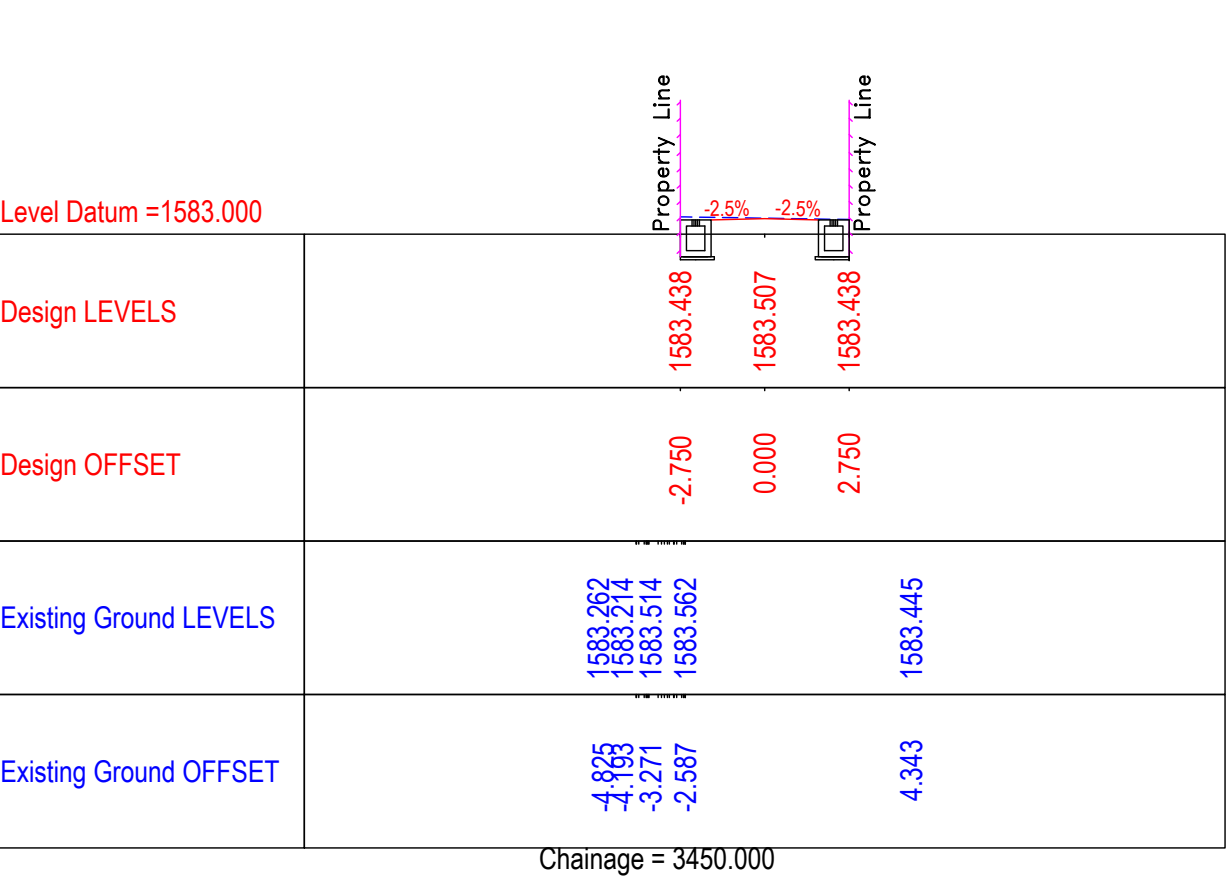
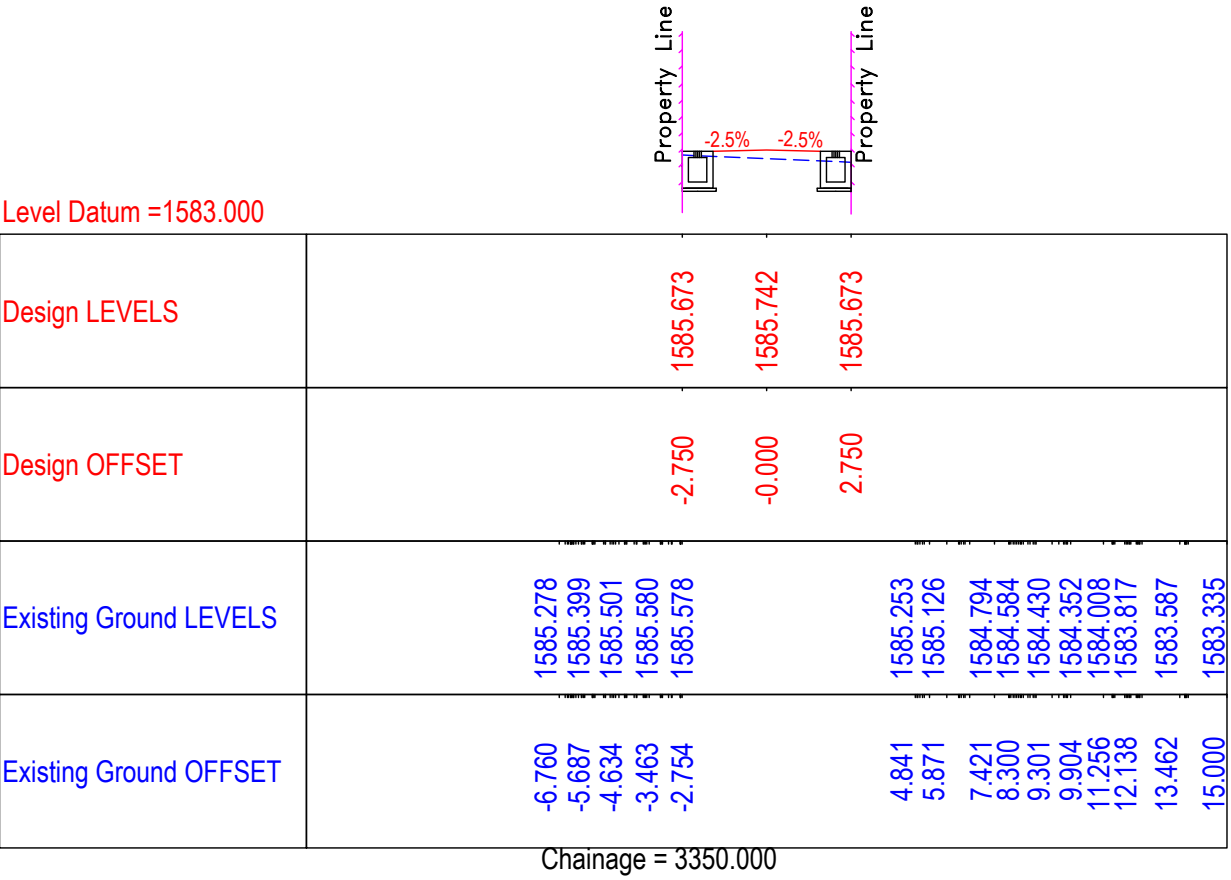


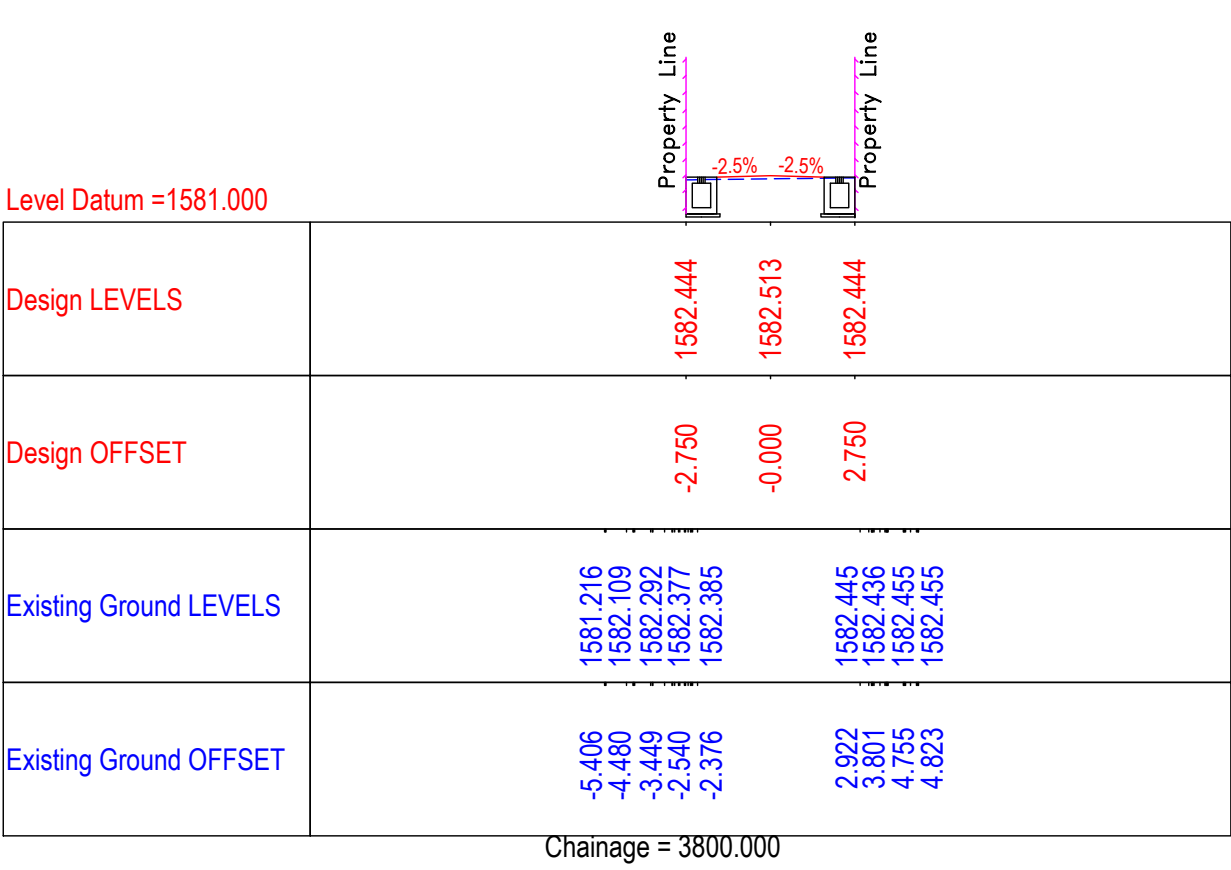
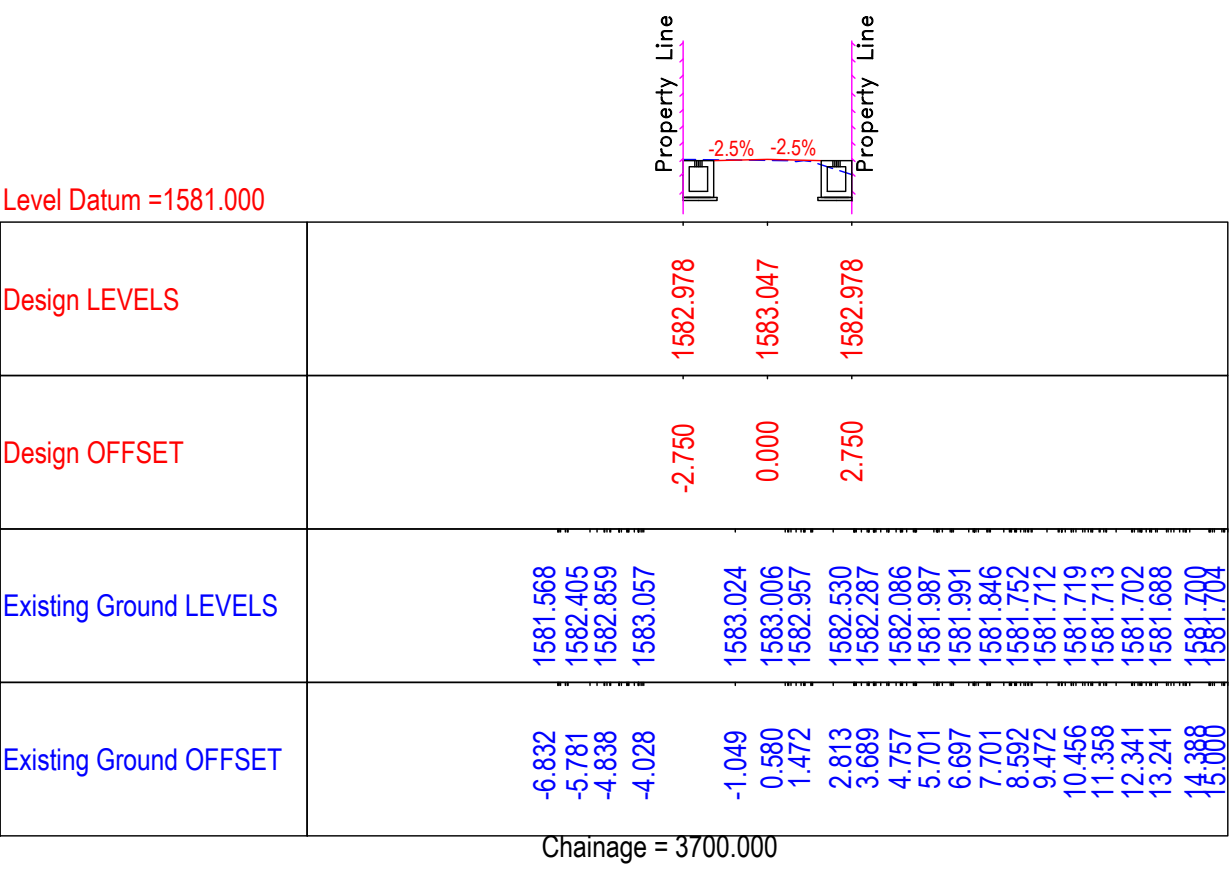
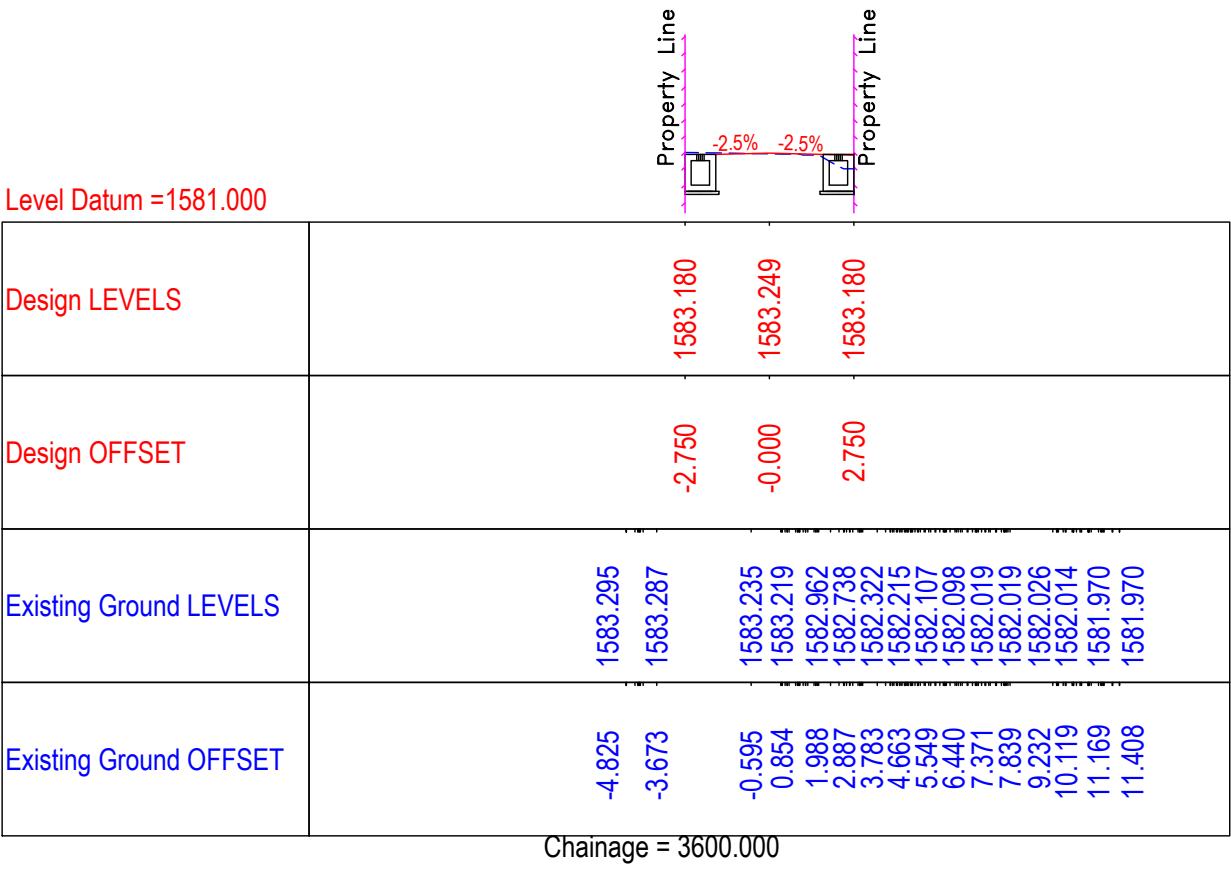
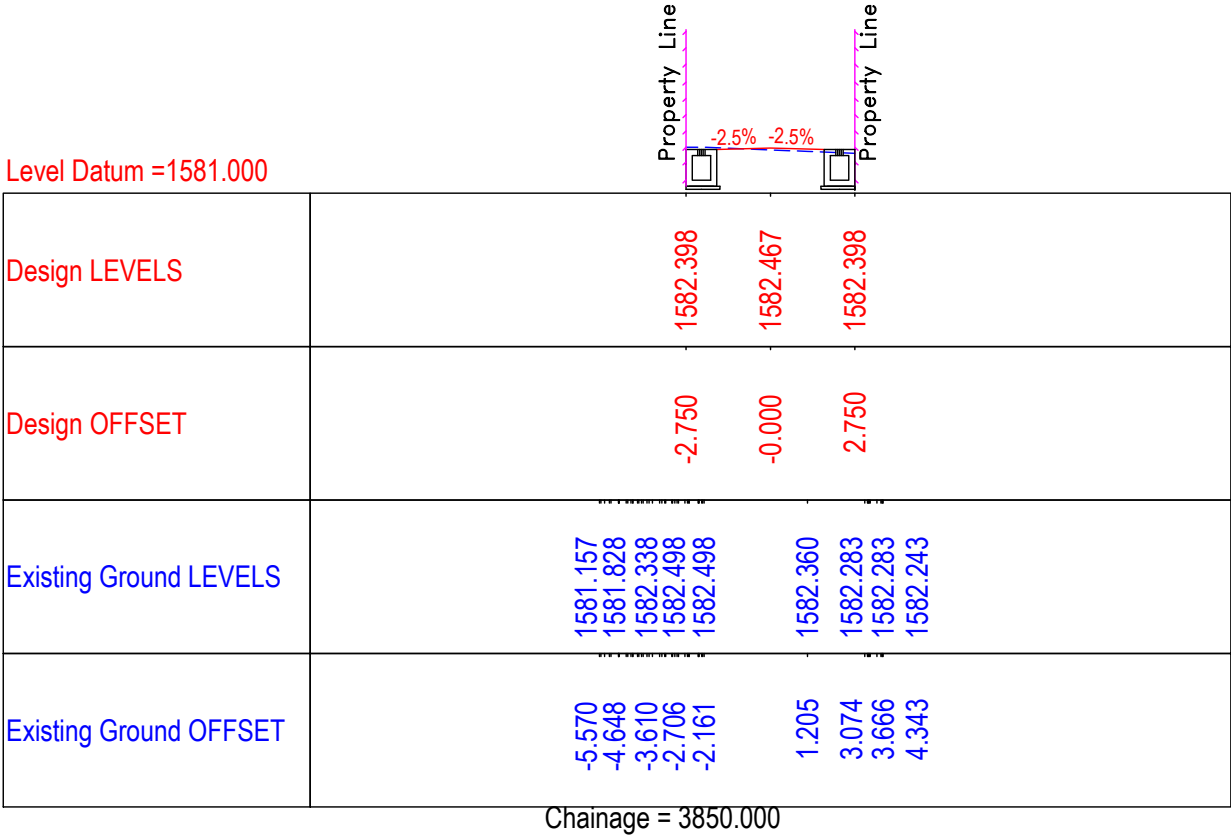
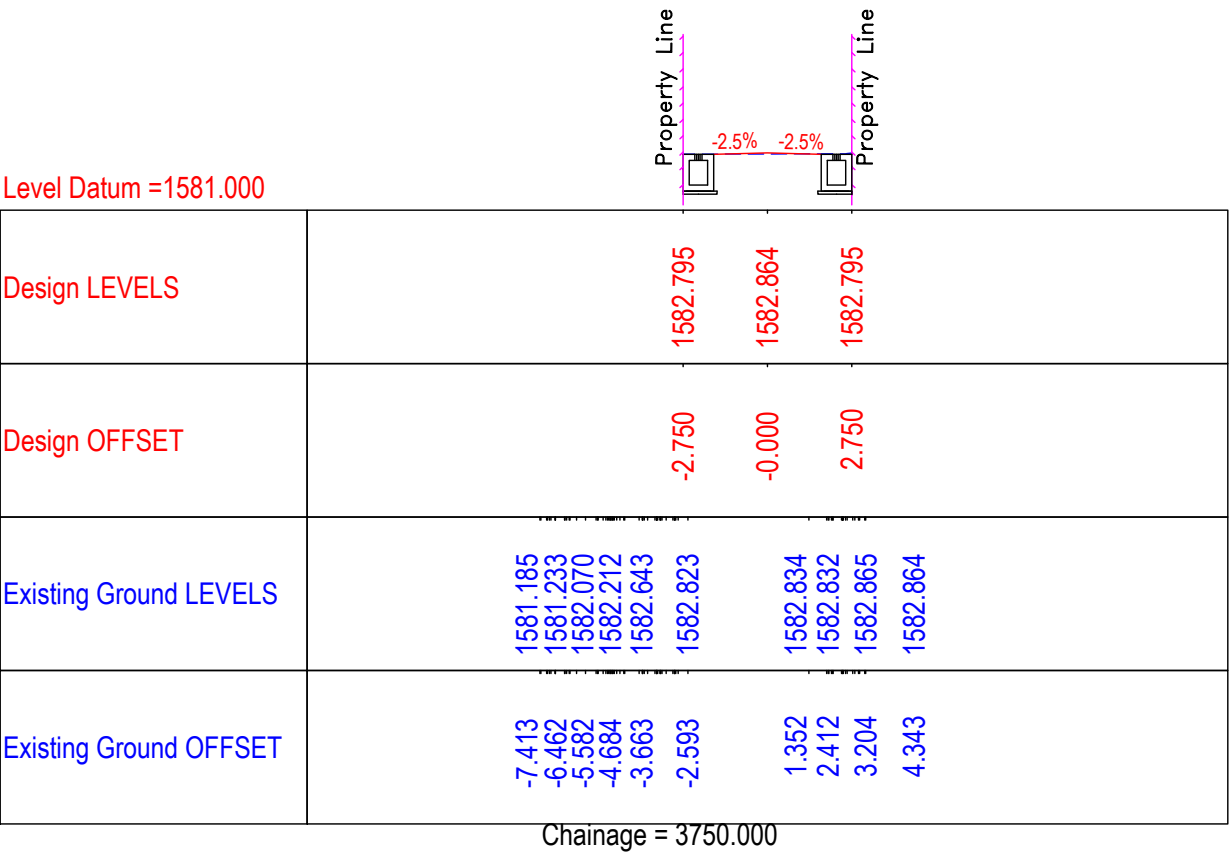
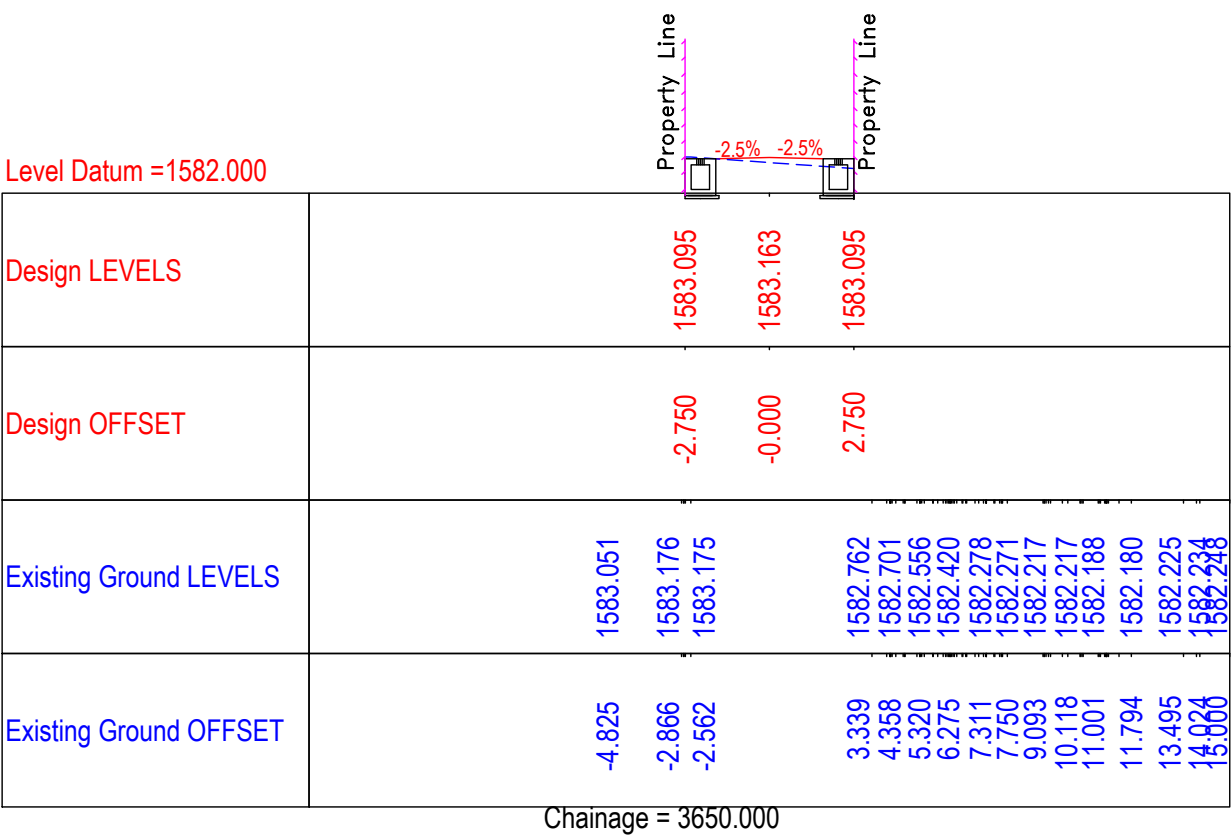


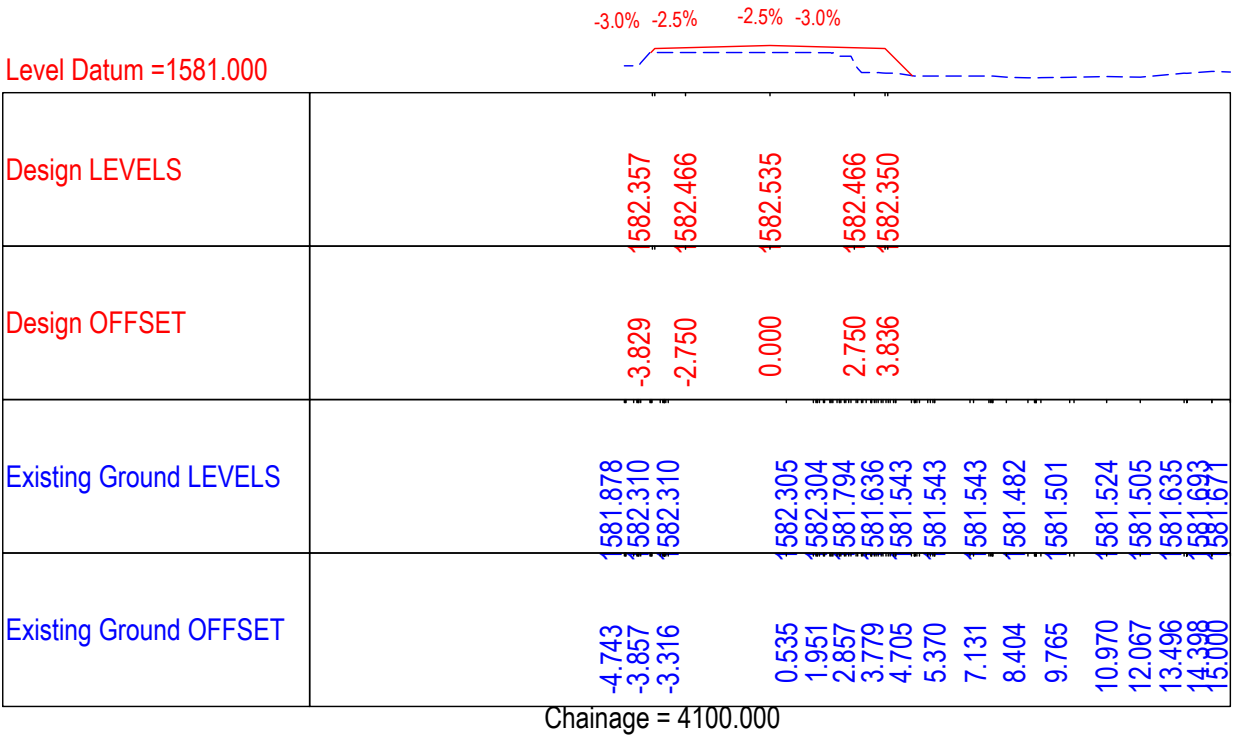
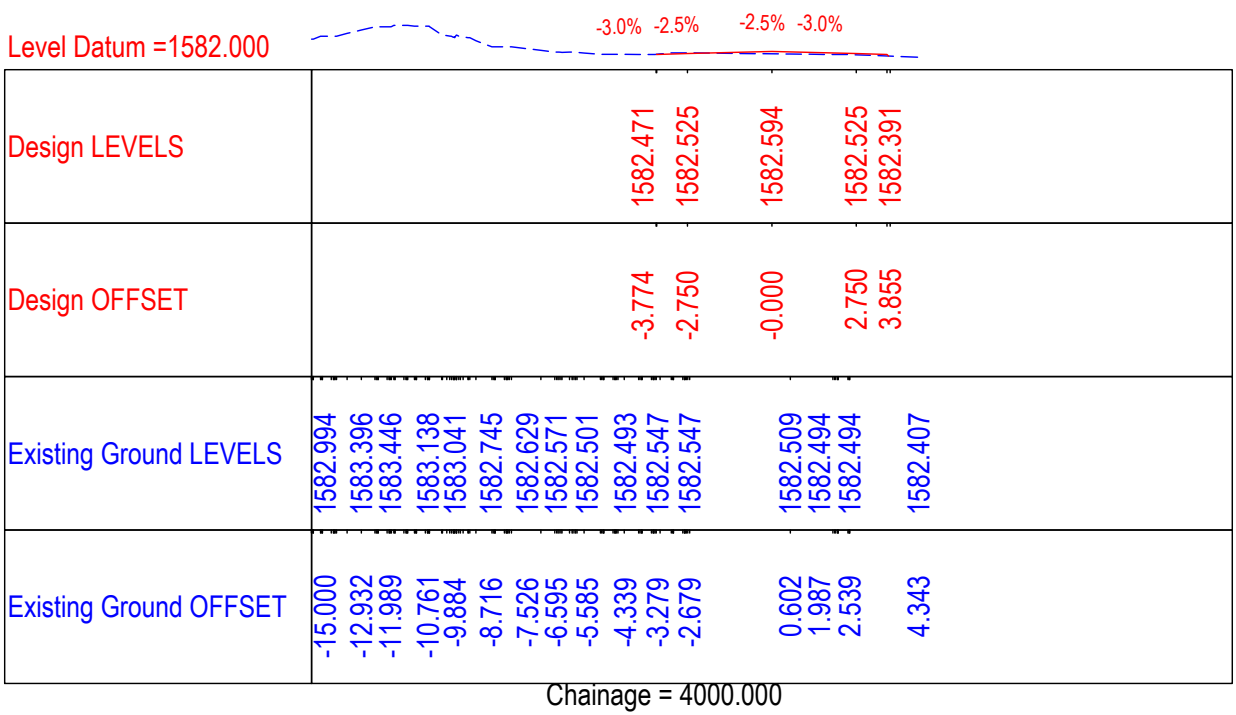
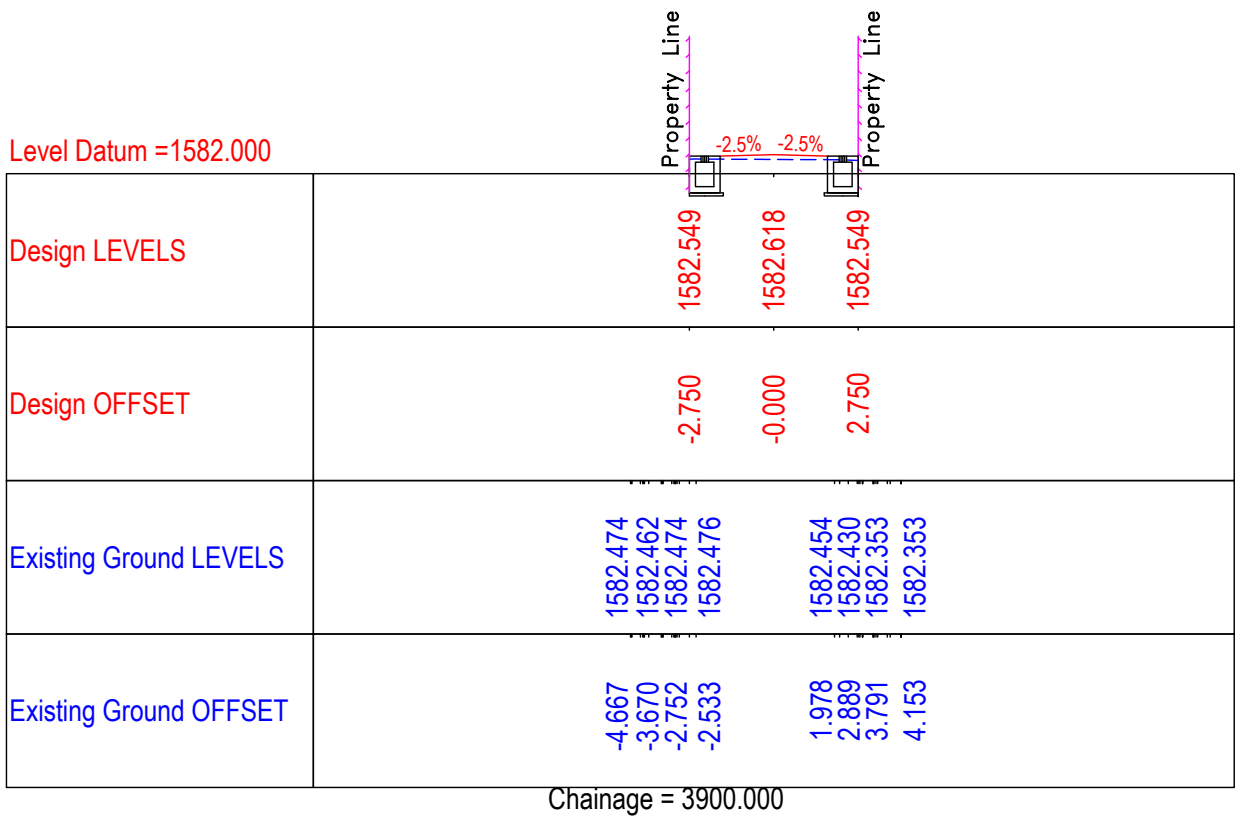
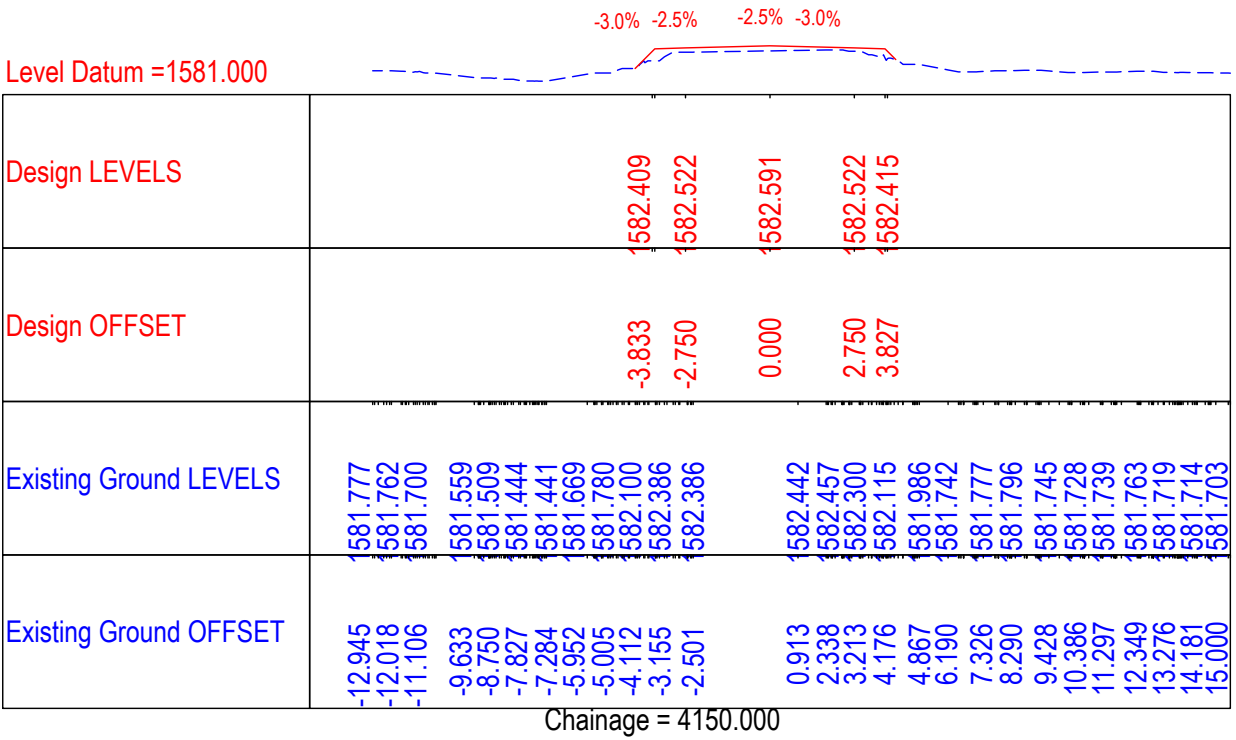
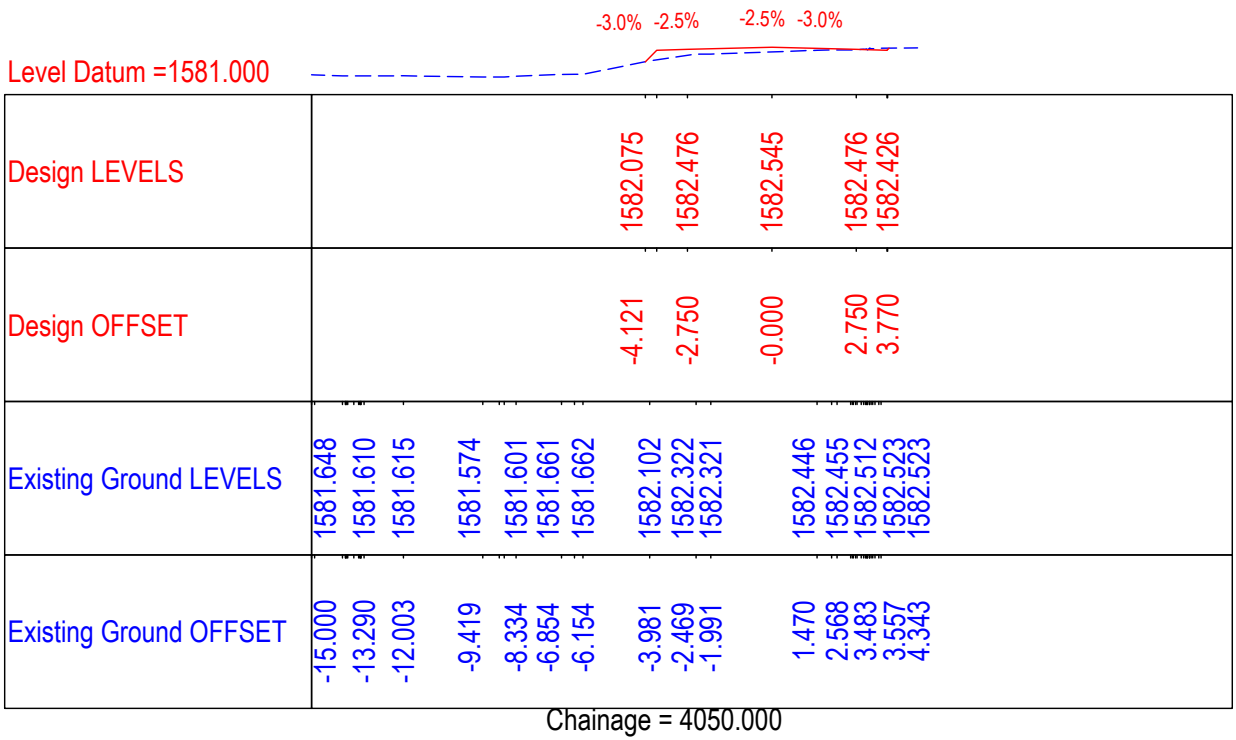
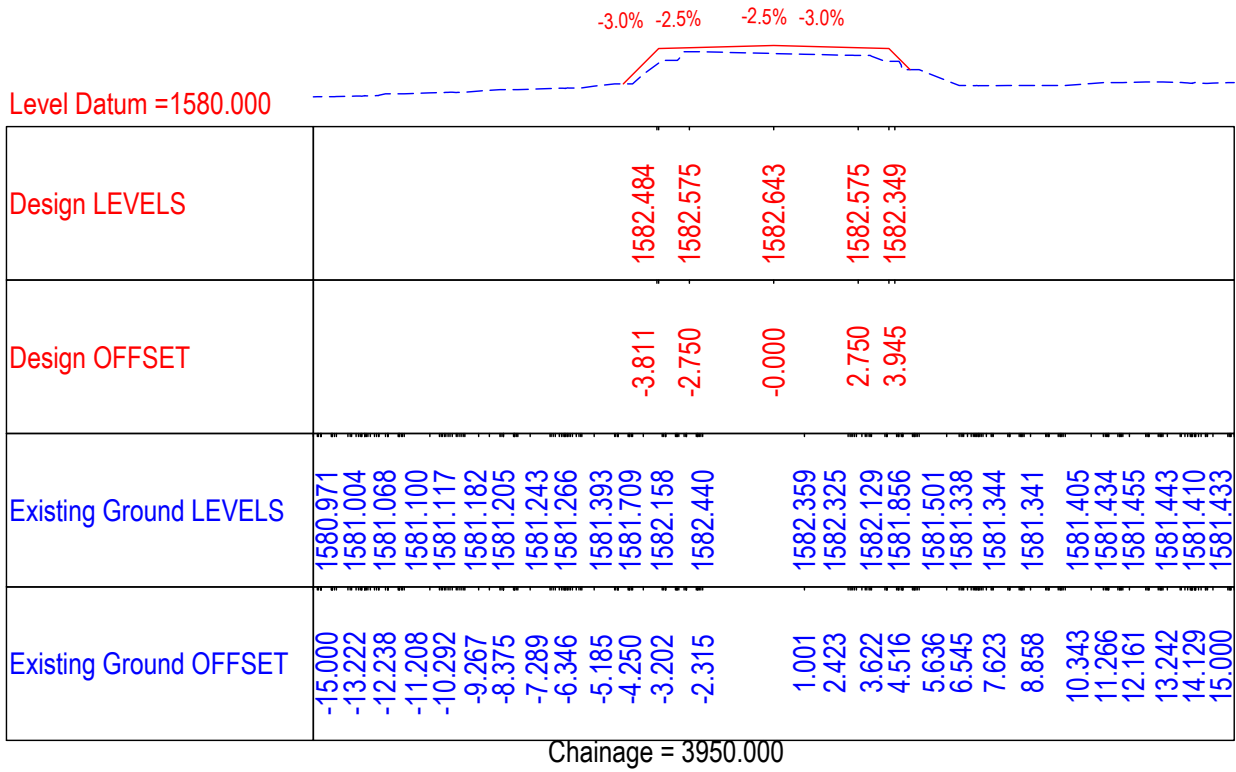


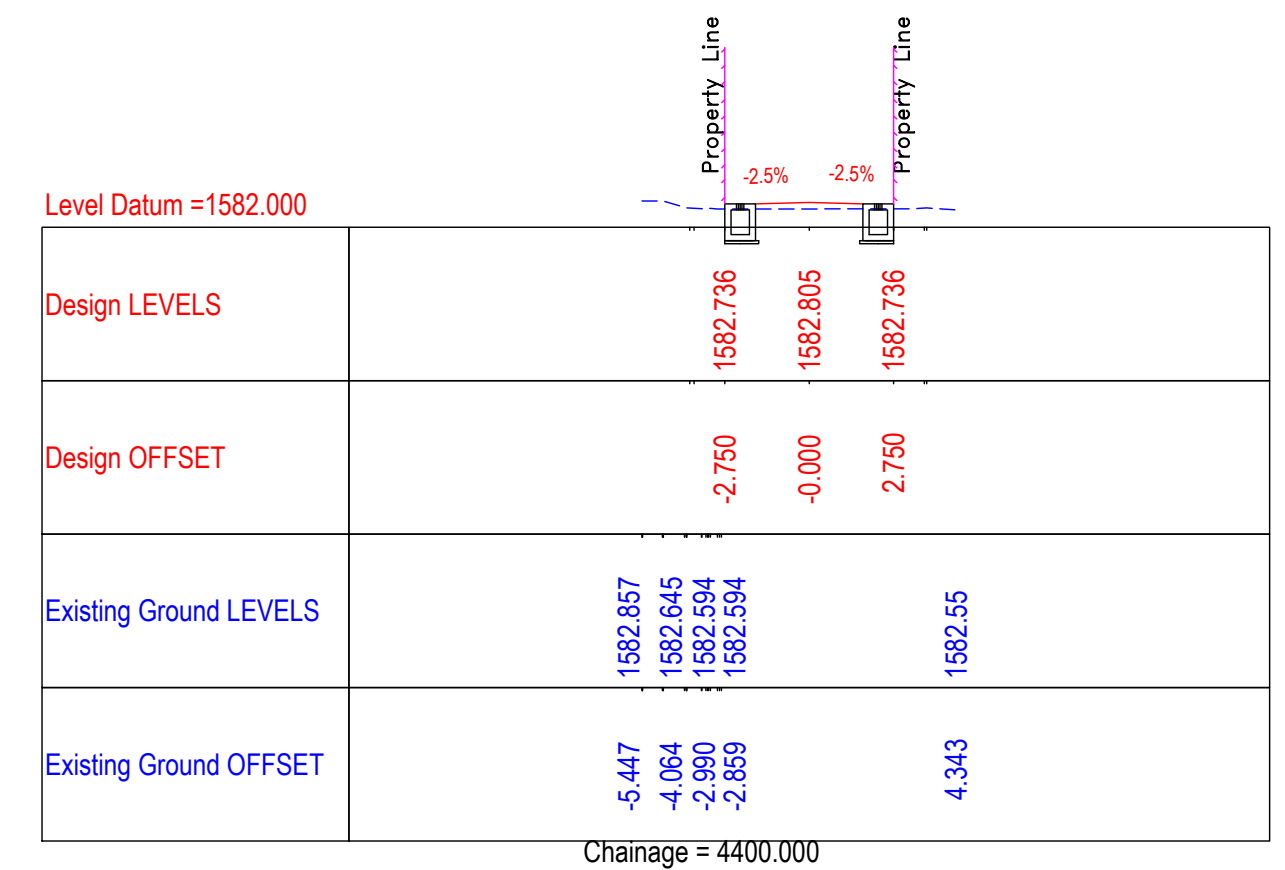
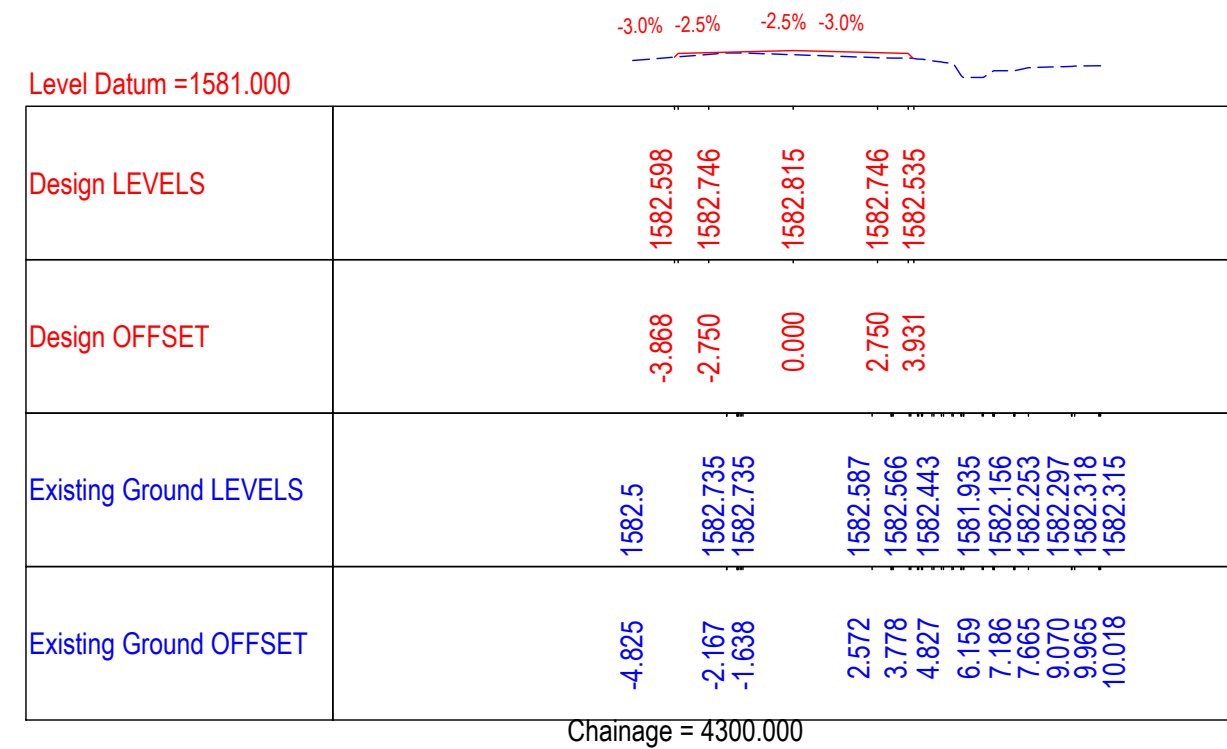
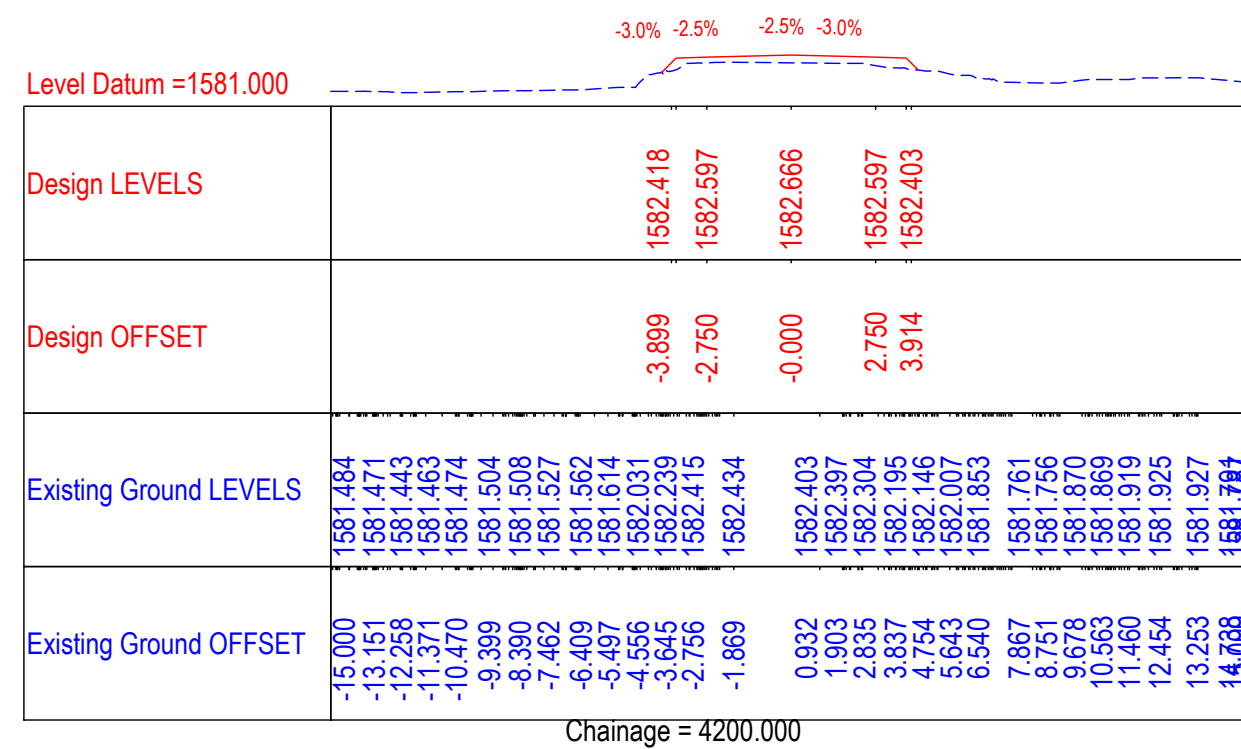


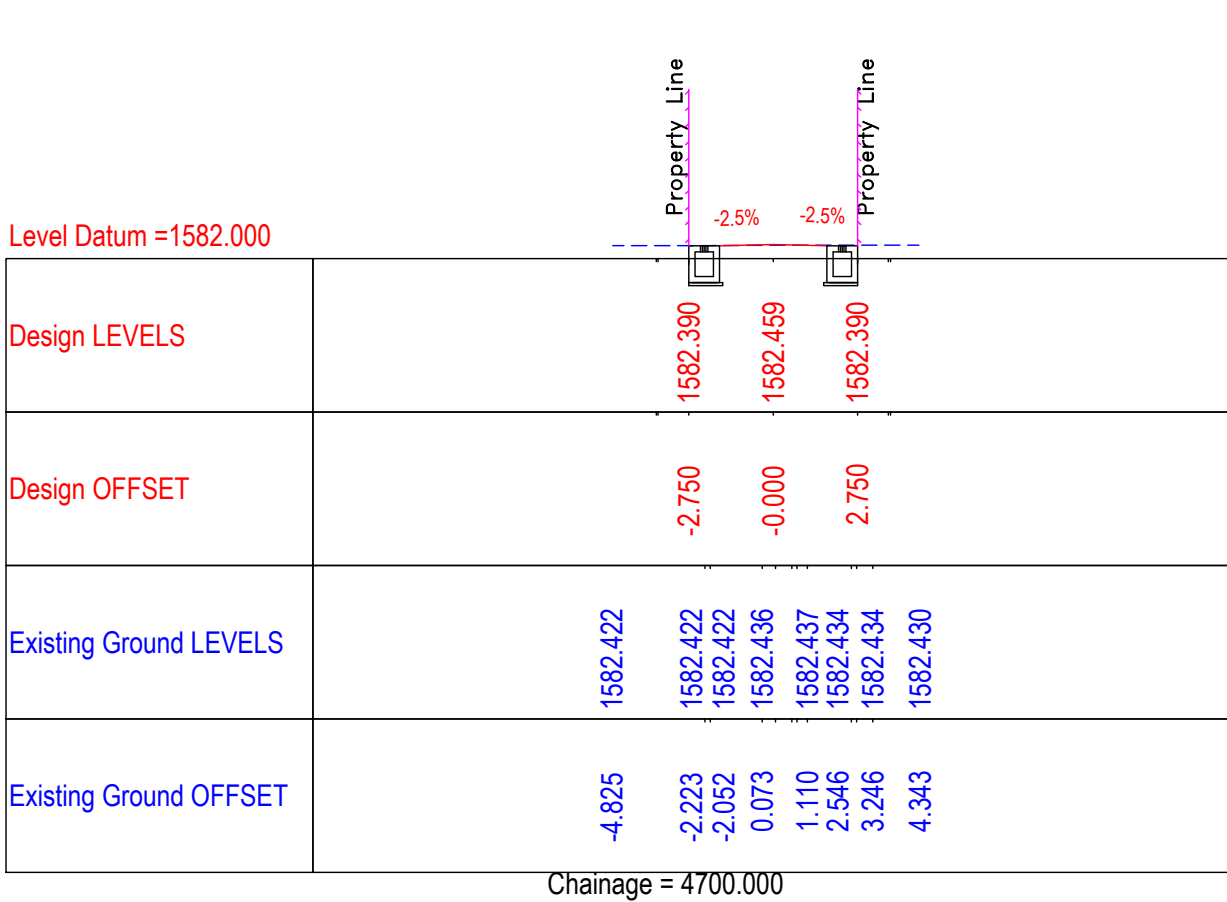
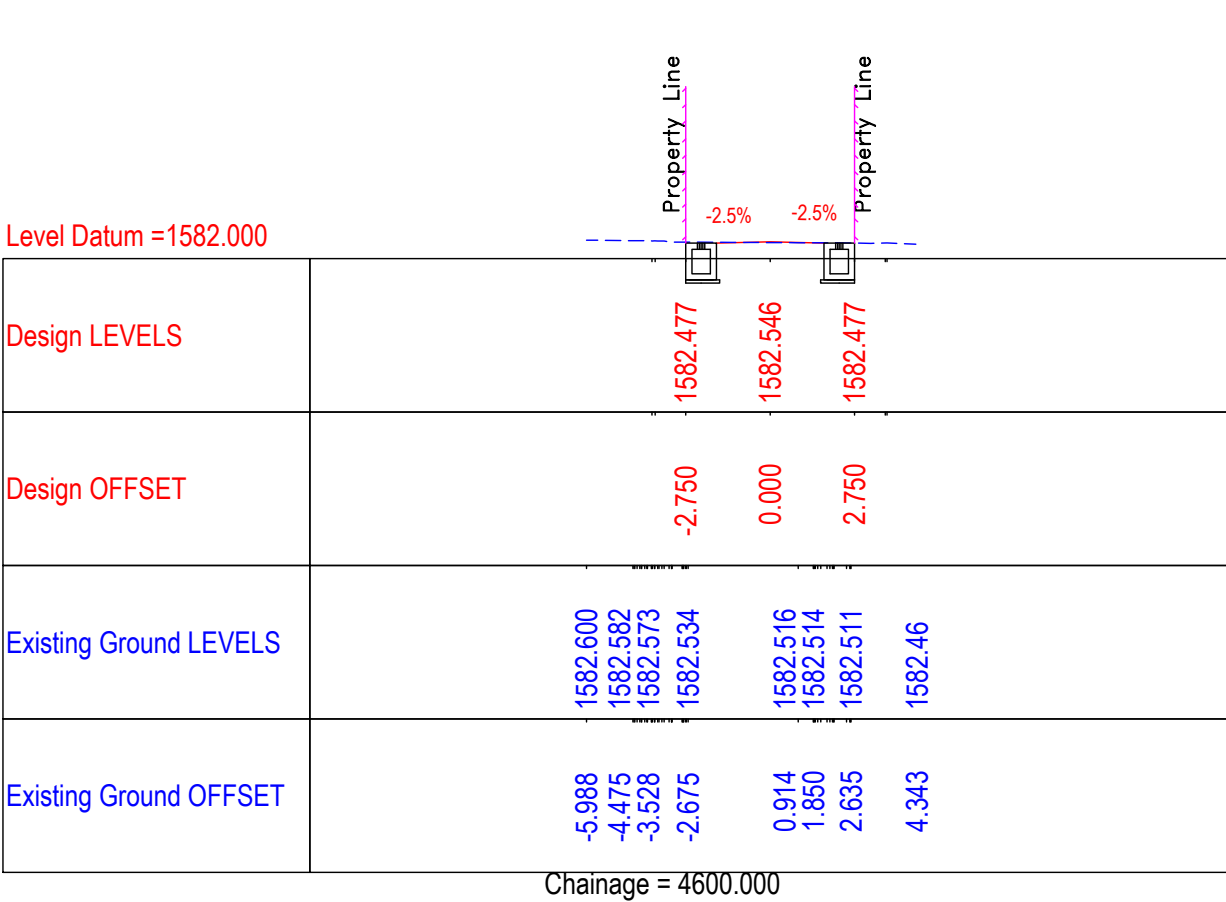
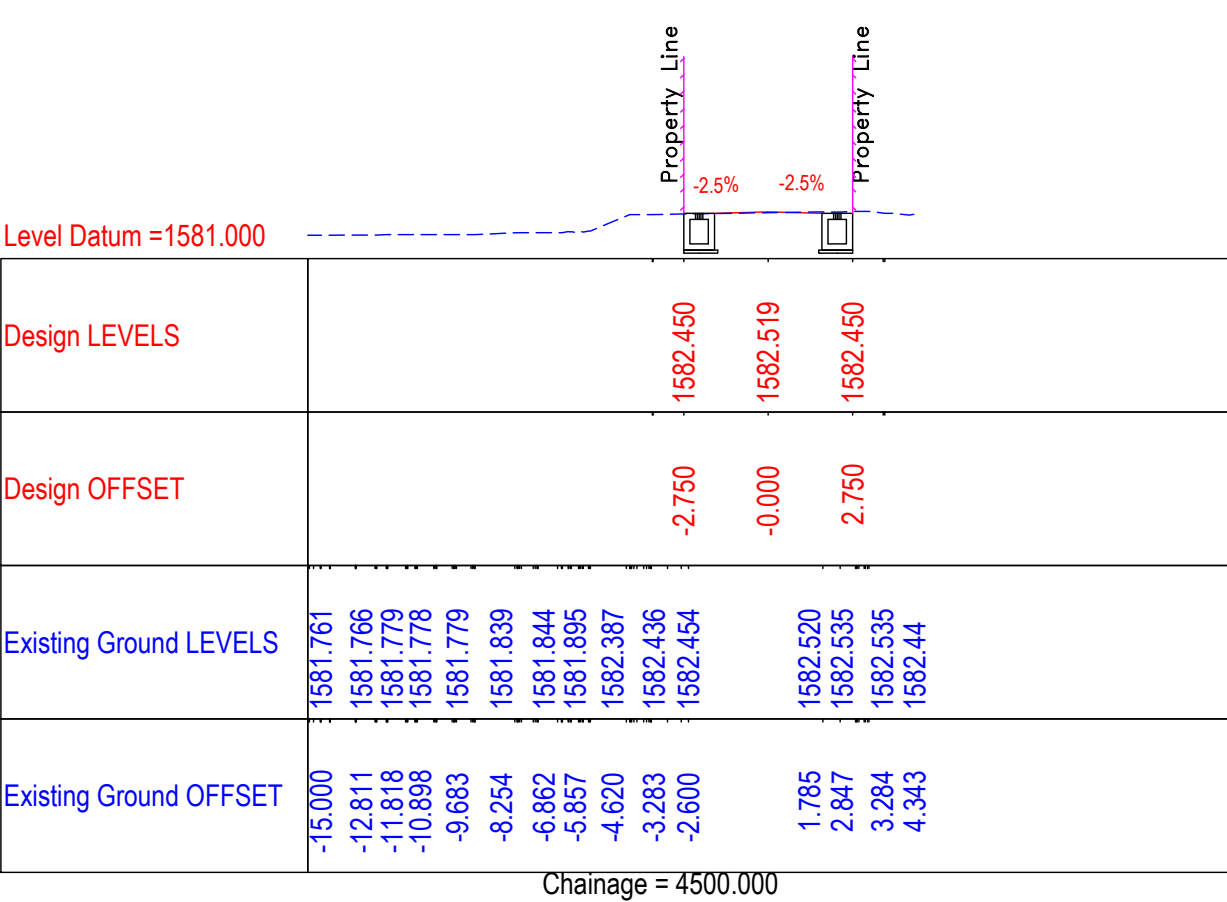
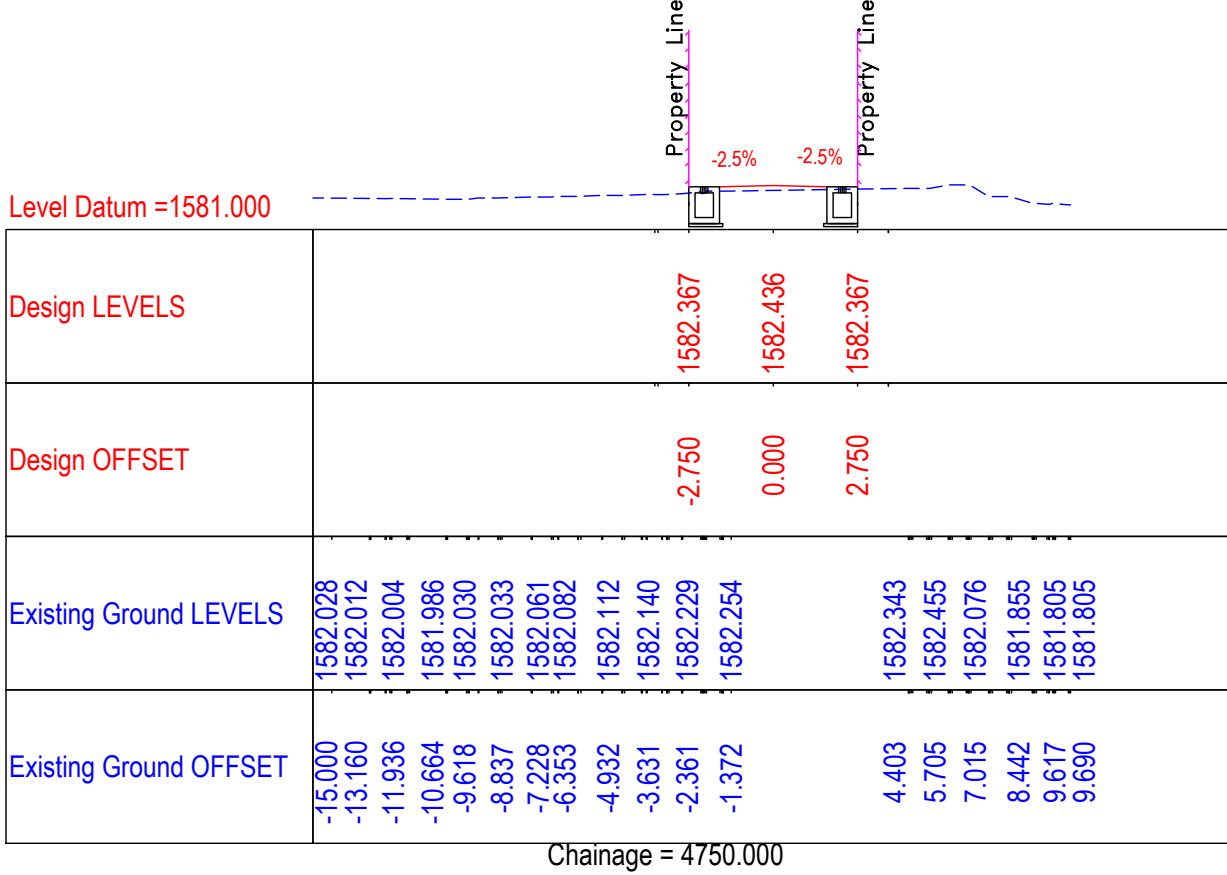
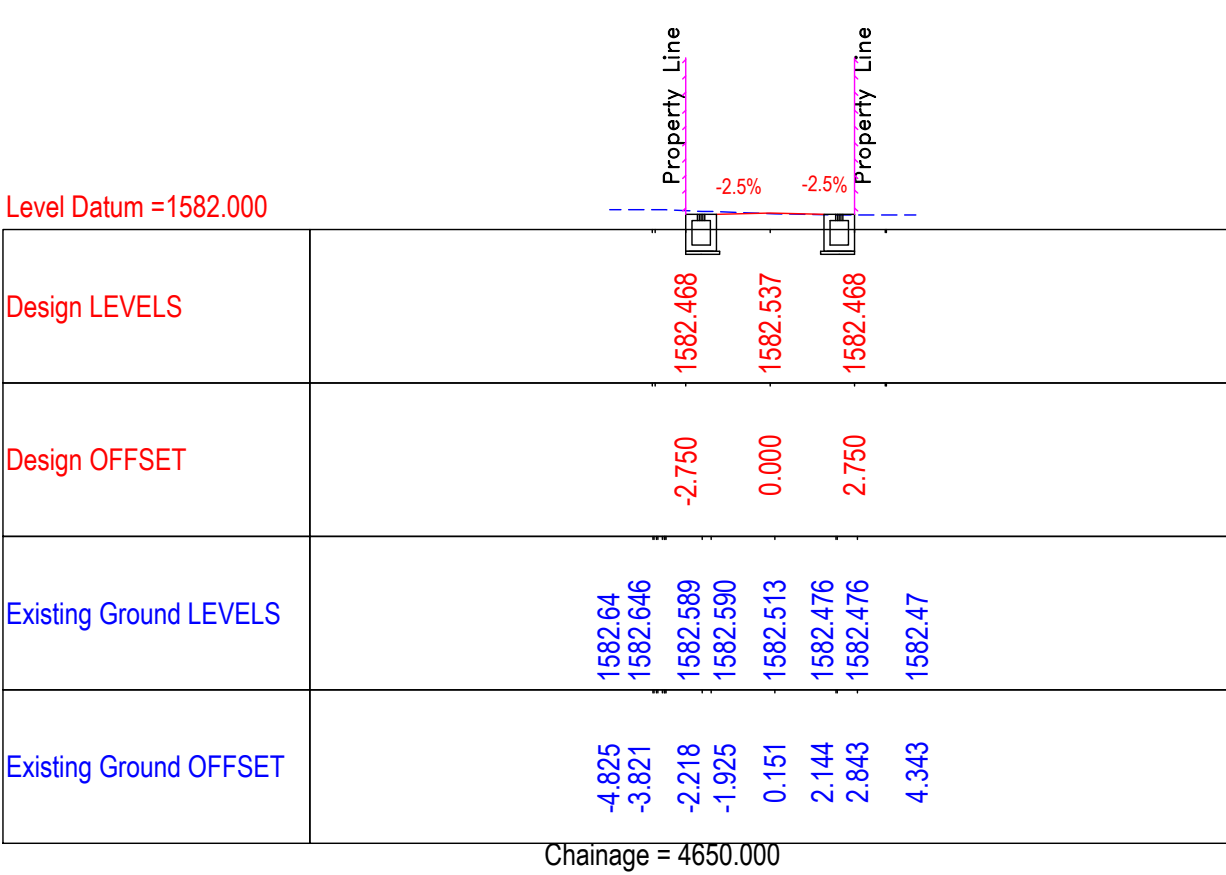
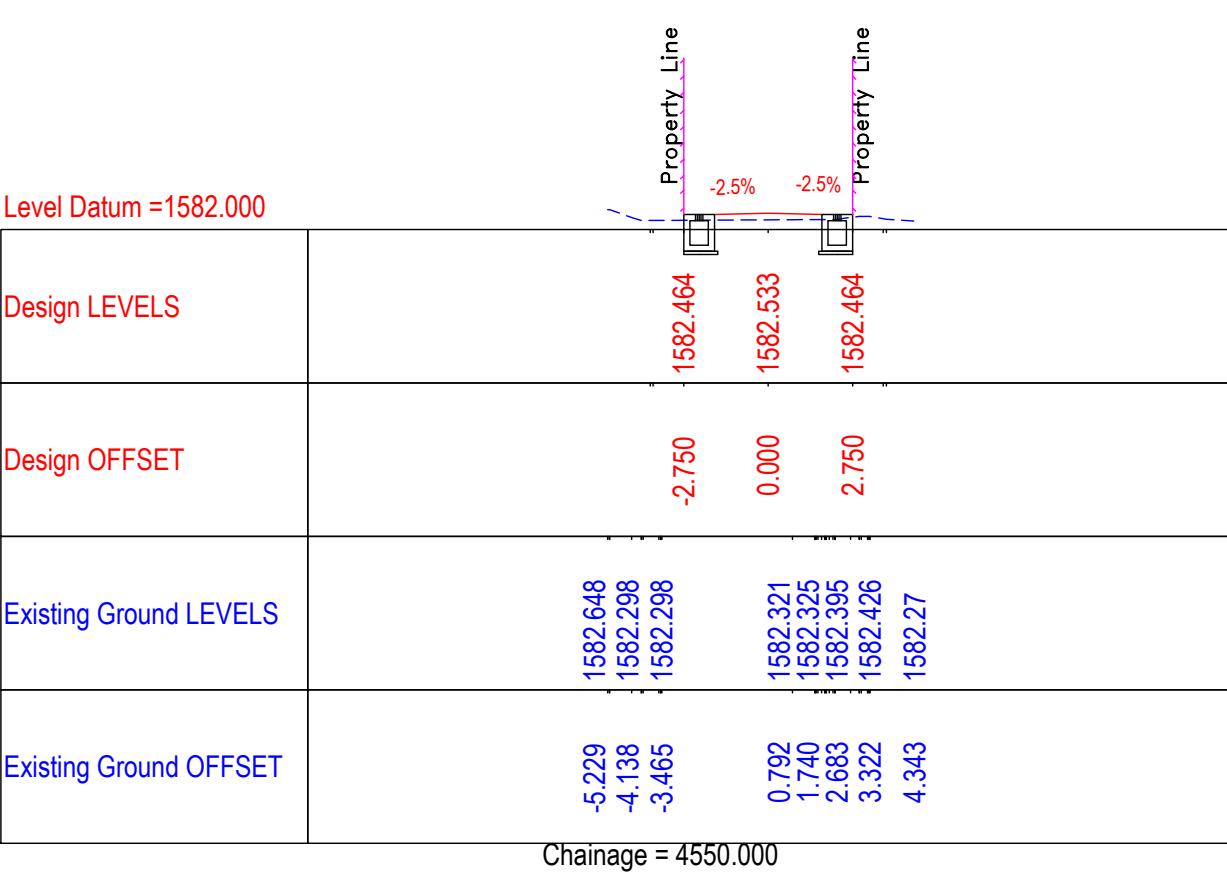


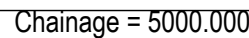
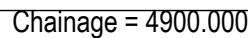
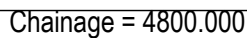
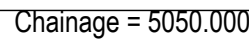
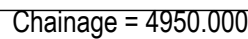
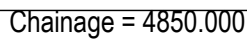


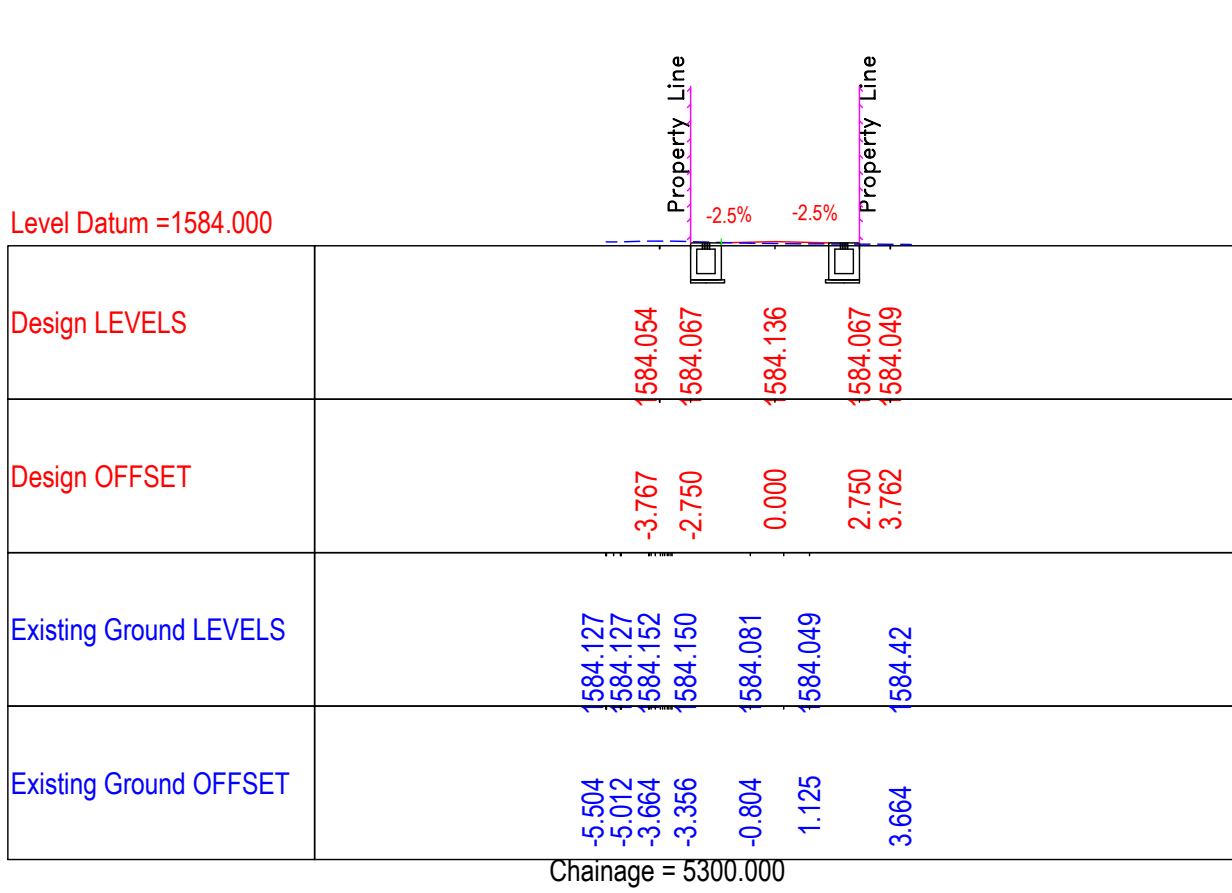
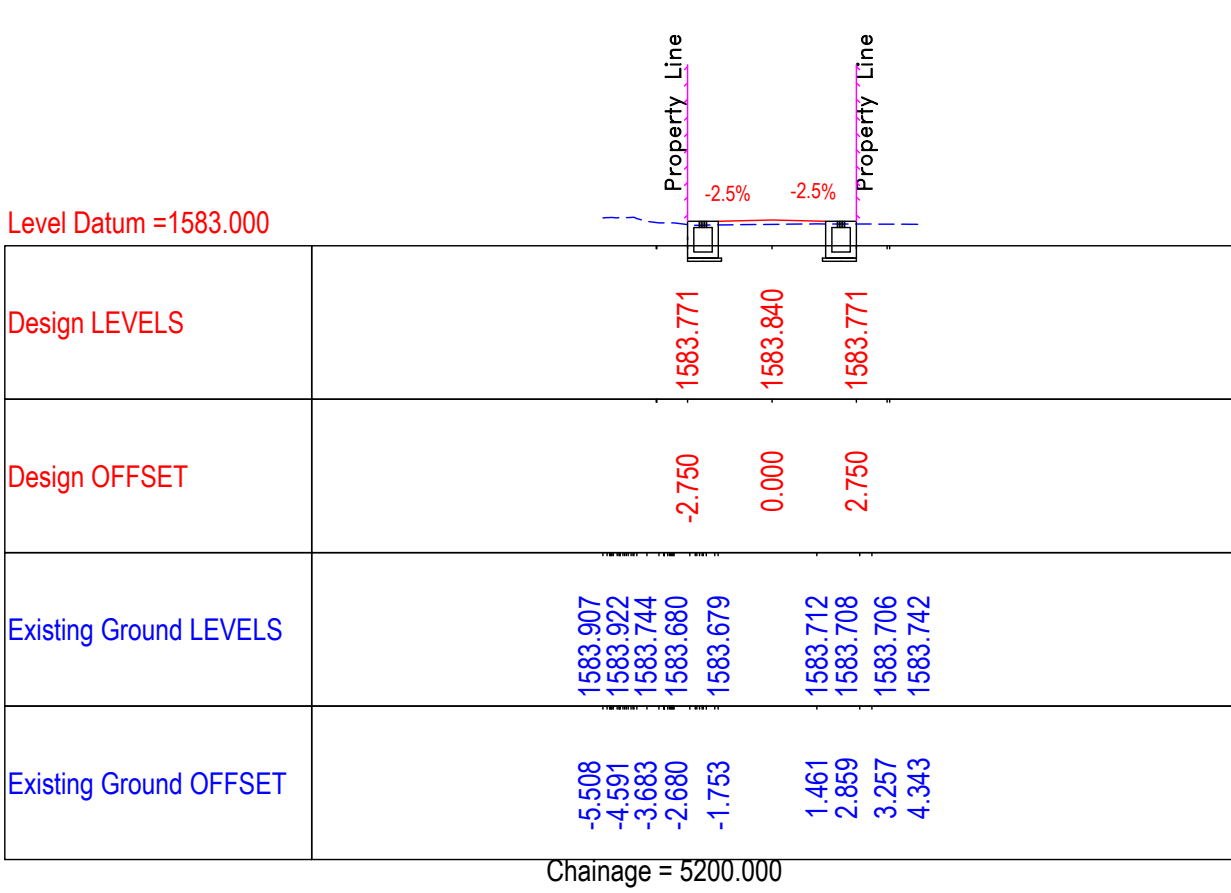
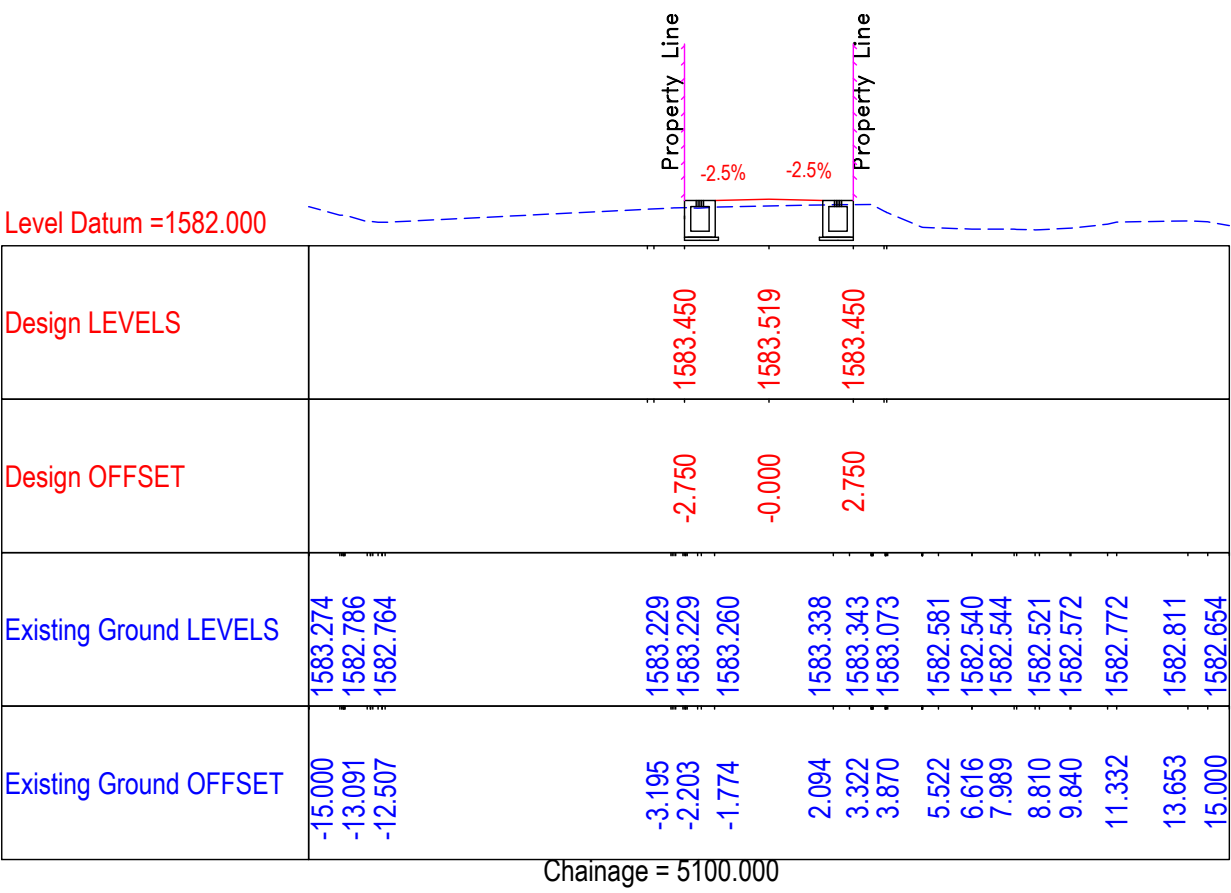
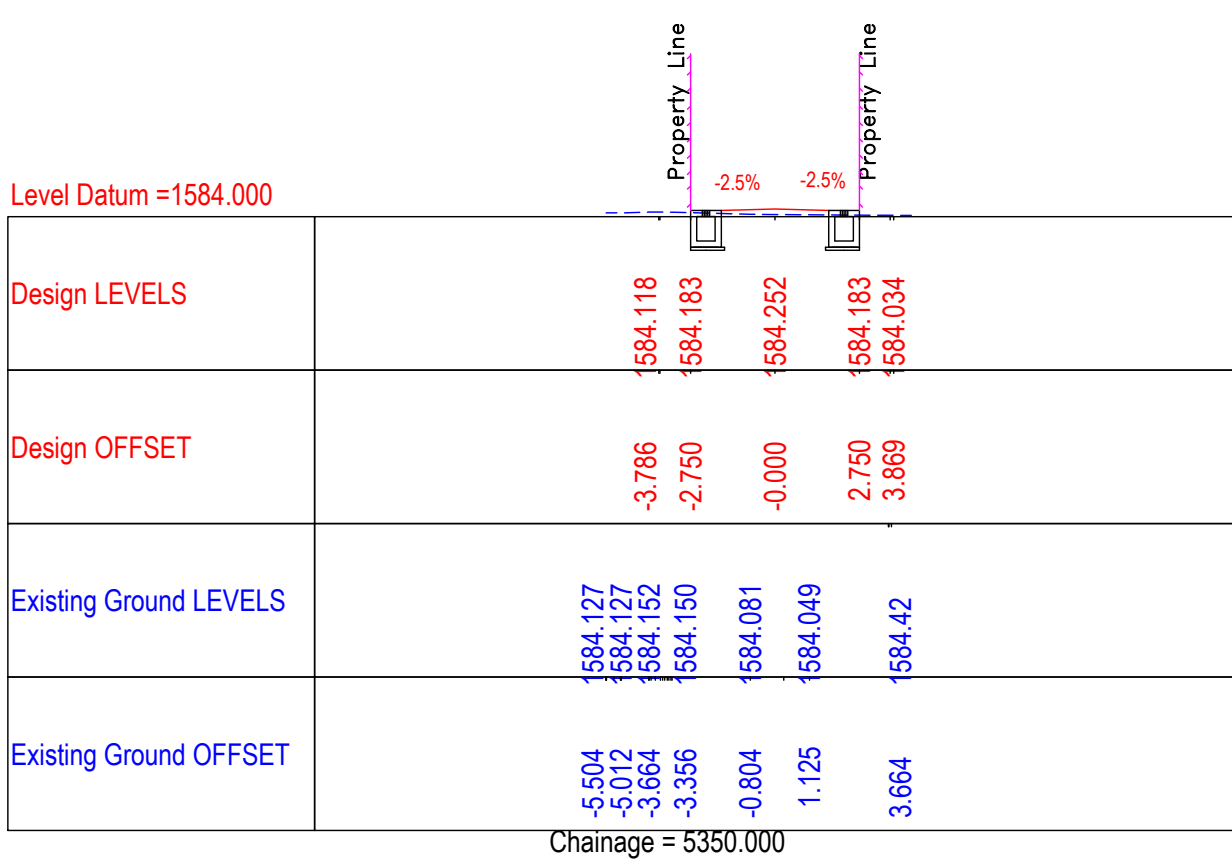
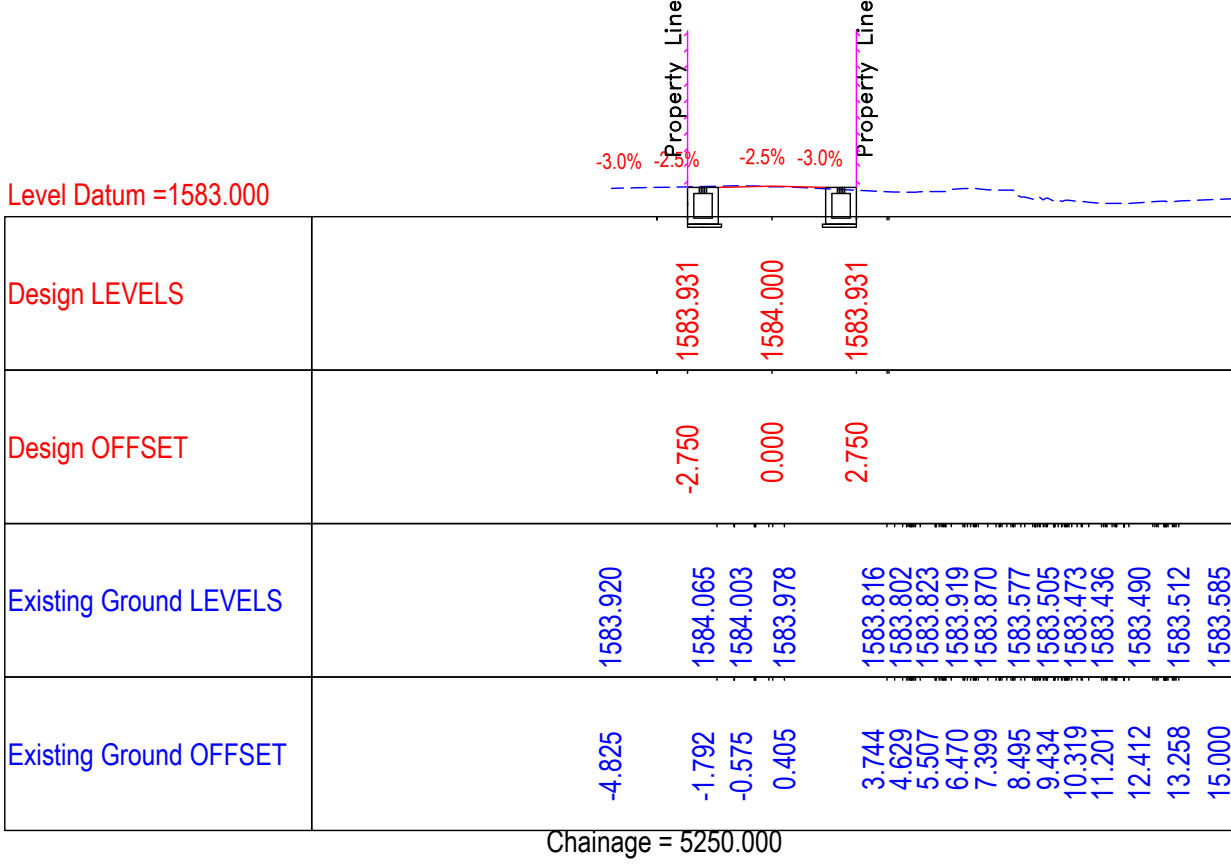
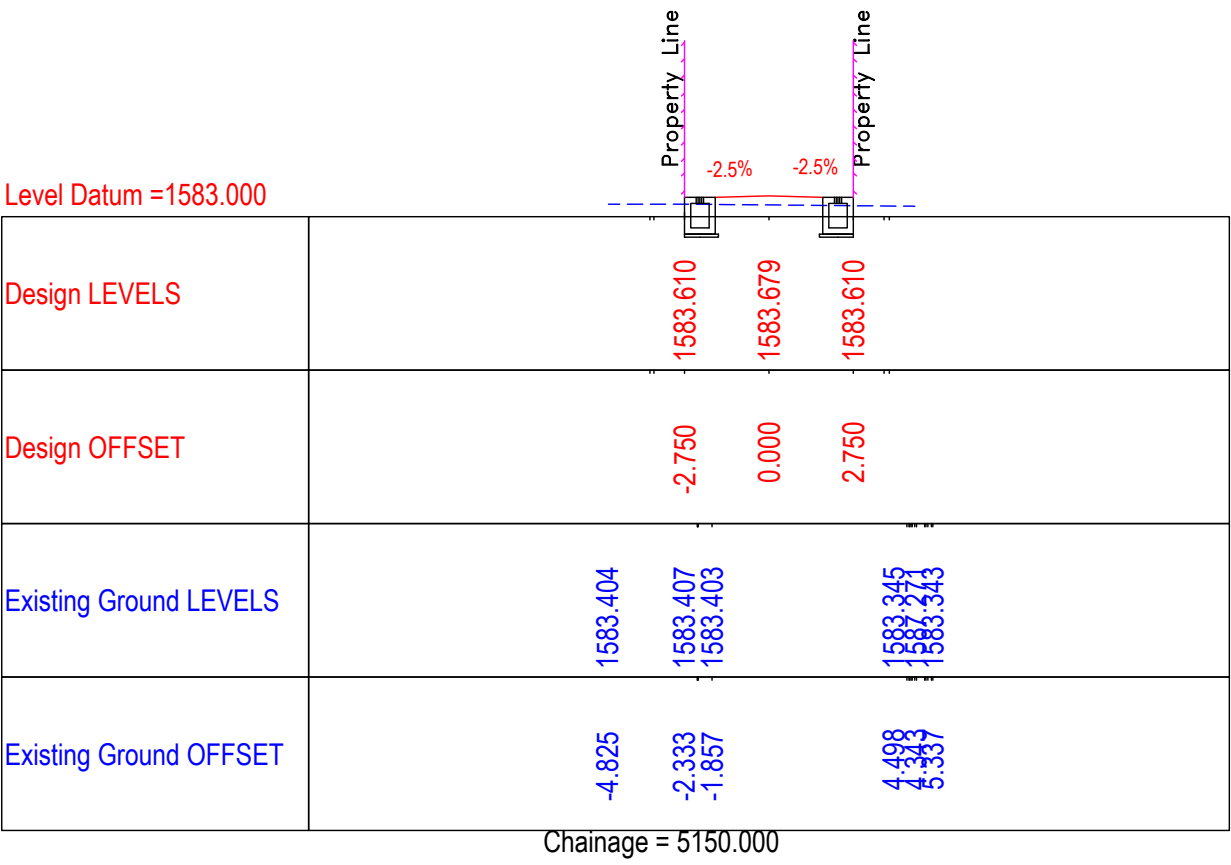














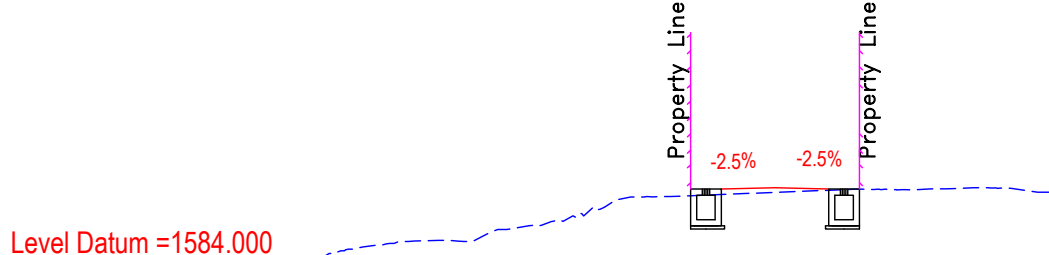
Design LEVELS	1584.447	1584.416	1584.485	1584.416	1584.493
Design OFFSET	-3.811	-2.750	0.000	2.750	3.857
Existing Ground LEVELS	1584.565	1584.565	1584.565	1584.599	1584.604
Existing Ground OFFSET	-4.395	-2.464	-2.356	2.106	2.750

Chainage = 5450.000



Design LEVELS	1586.378	1586.337	1586.406	1586.337	1586.404
Design OFFSET	-3.821	-2.750	0.000	2.750	3.847
Existing Ground LEVELS	1586.380	1586.385	1586.427	1586.430	1586.424
Existing Ground OFFSET	-4.060	-2.969	0.631	1.810	2.053

Chainage = 5550.000



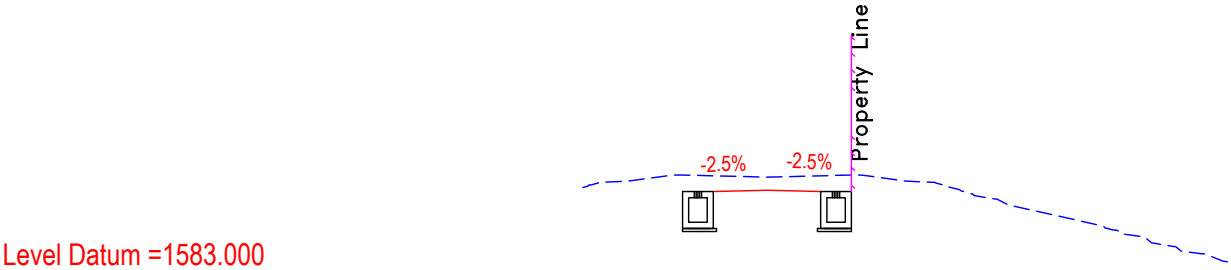
Design LEVELS	1586.243	1586.442	1586.511	1586.442	1586.494
Design OFFSET	-3.919	-2.750	-0.000	2.750	3.832
Existing Ground LEVELS	1584.079	1584.638	1584.759	1584.794	1584.759
Existing Ground OFFSET	-15.000	-12.997	-12.068	-10.965	-10.079

Chainage = 5650.000



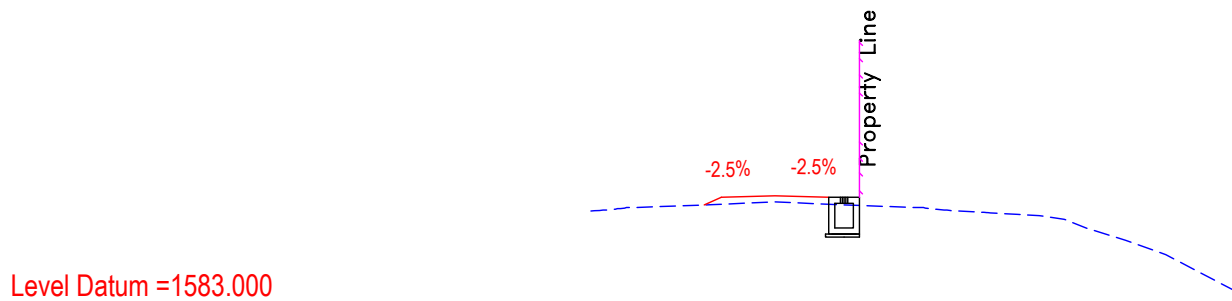
Design LEVELS	1584.355	1584.300	1584.368	1584.300	1584.336
Design OFFSET	-3.835	-2.750	0.000	2.750	3.816
Existing Ground LEVELS	1584.565	1584.565	1584.565	1584.599	1584.604
Existing Ground OFFSET	-4.395	-2.464	-2.356	2.106	2.750

Chainage = 5400.000



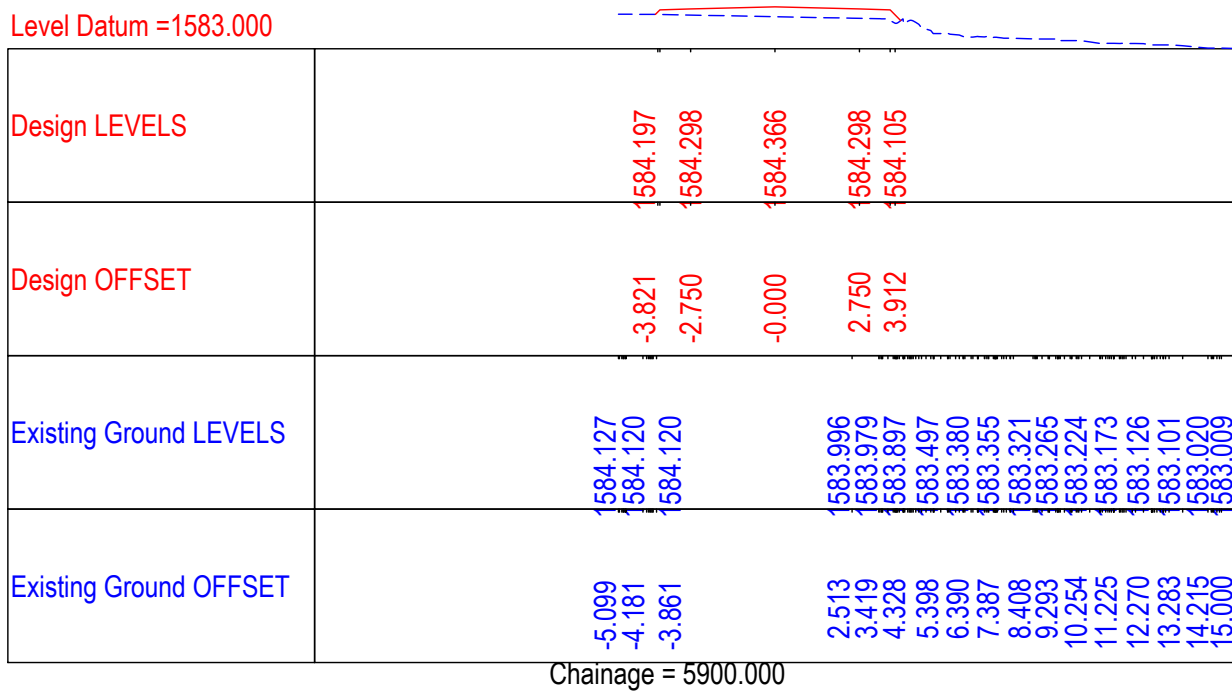
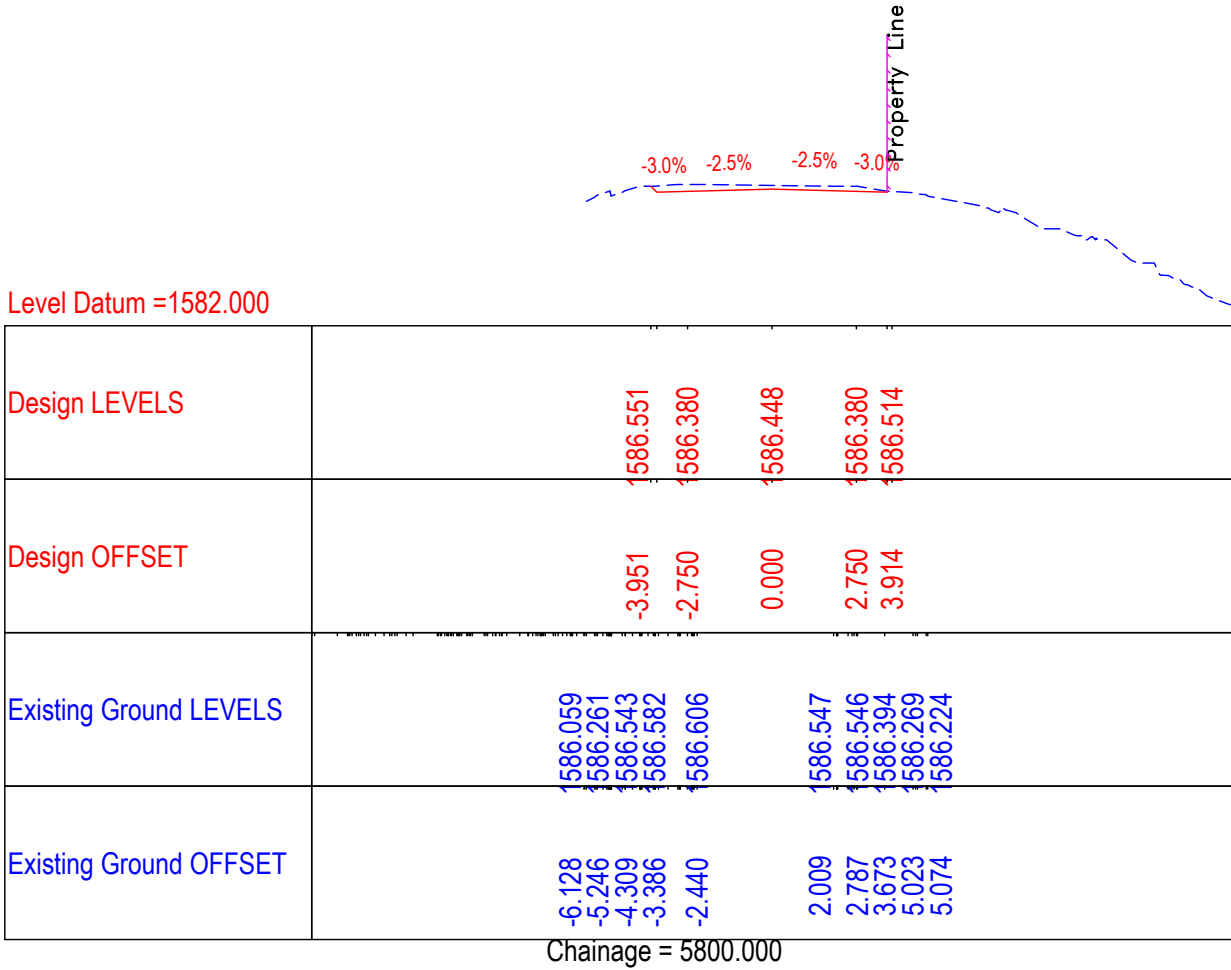
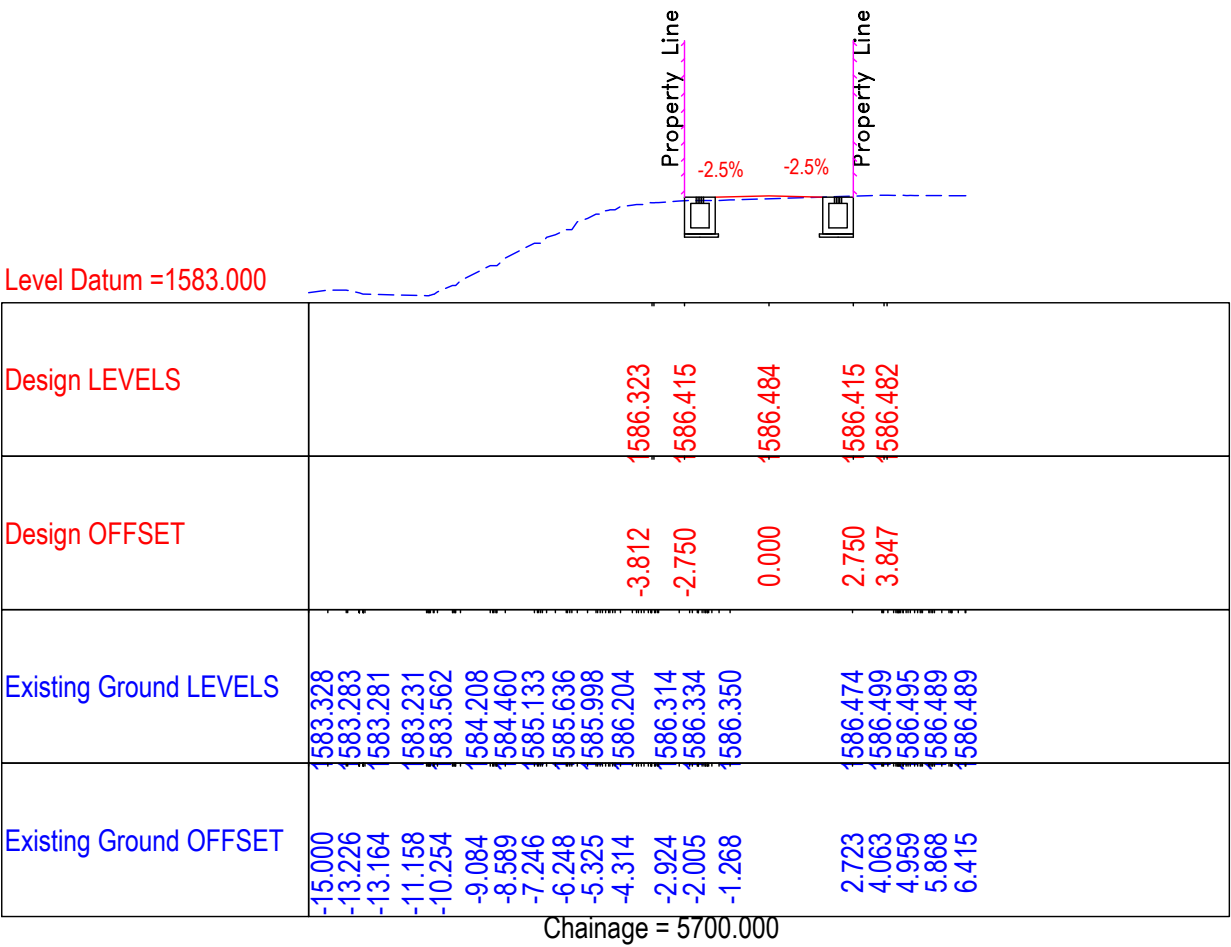
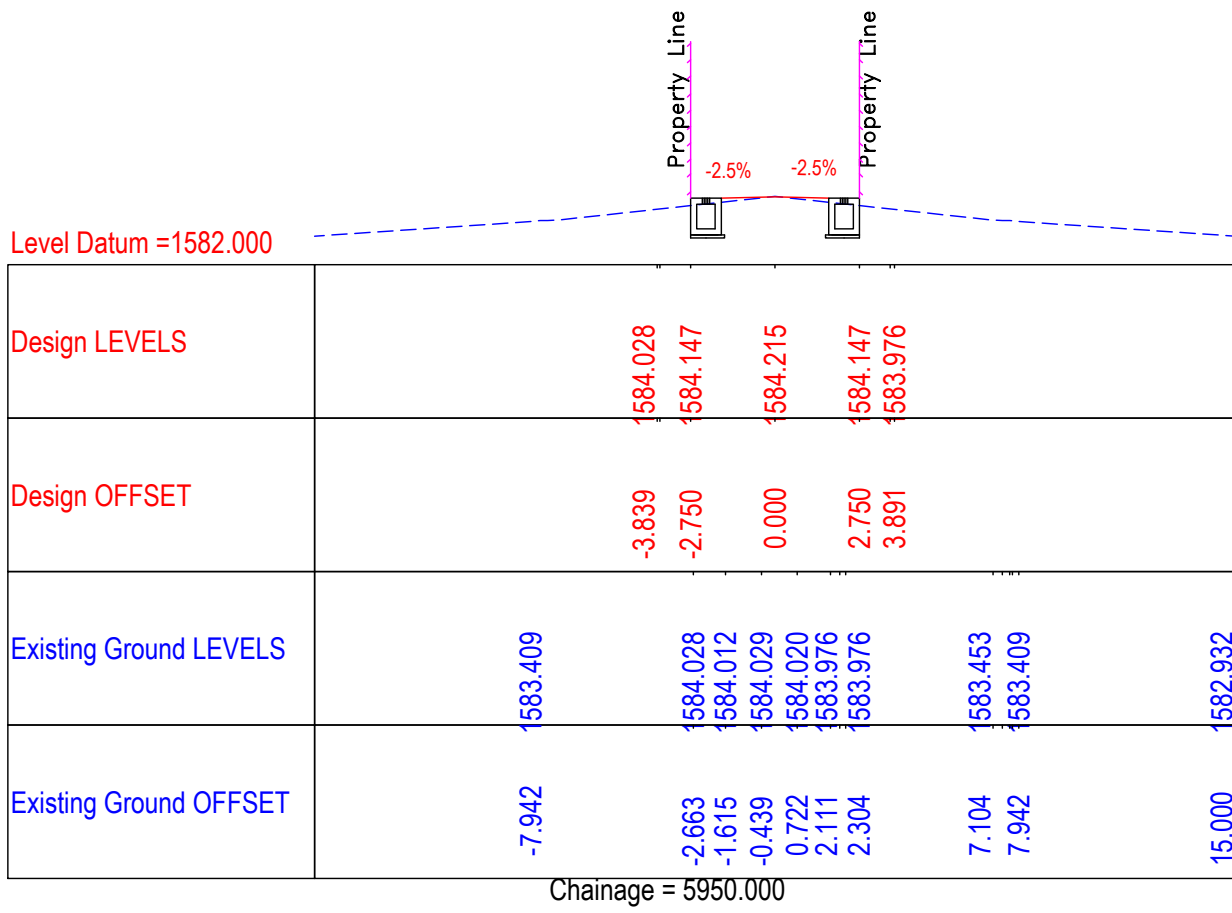
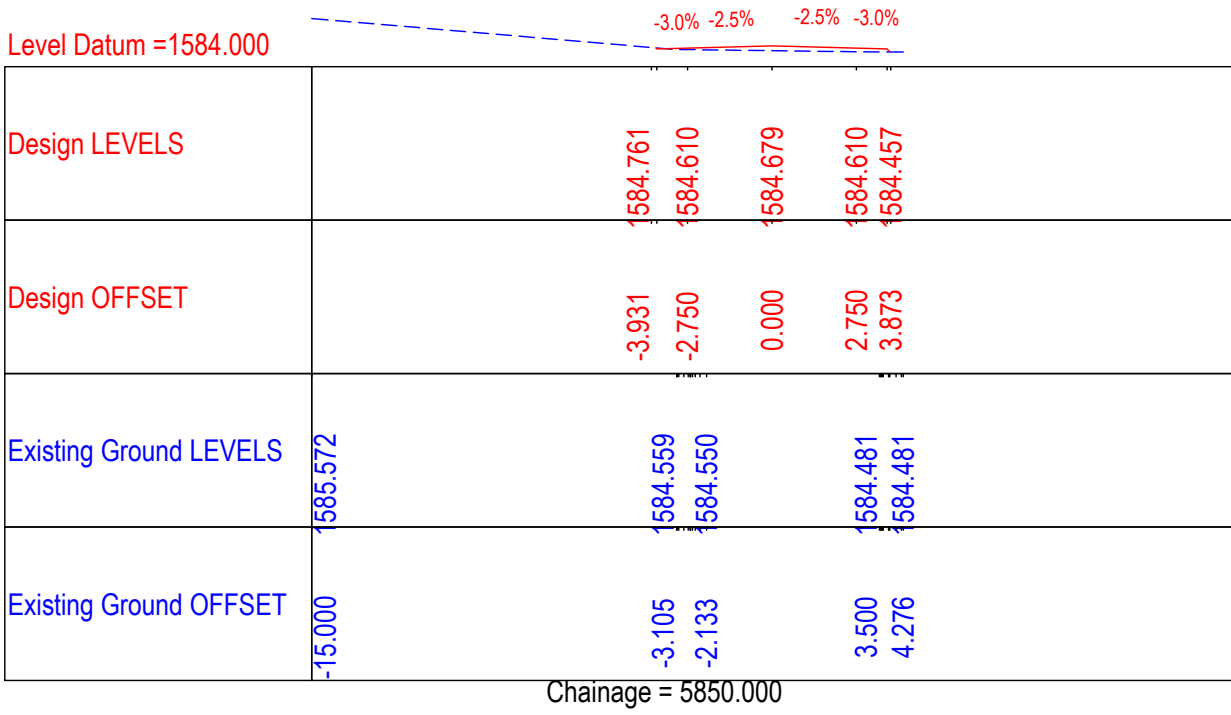
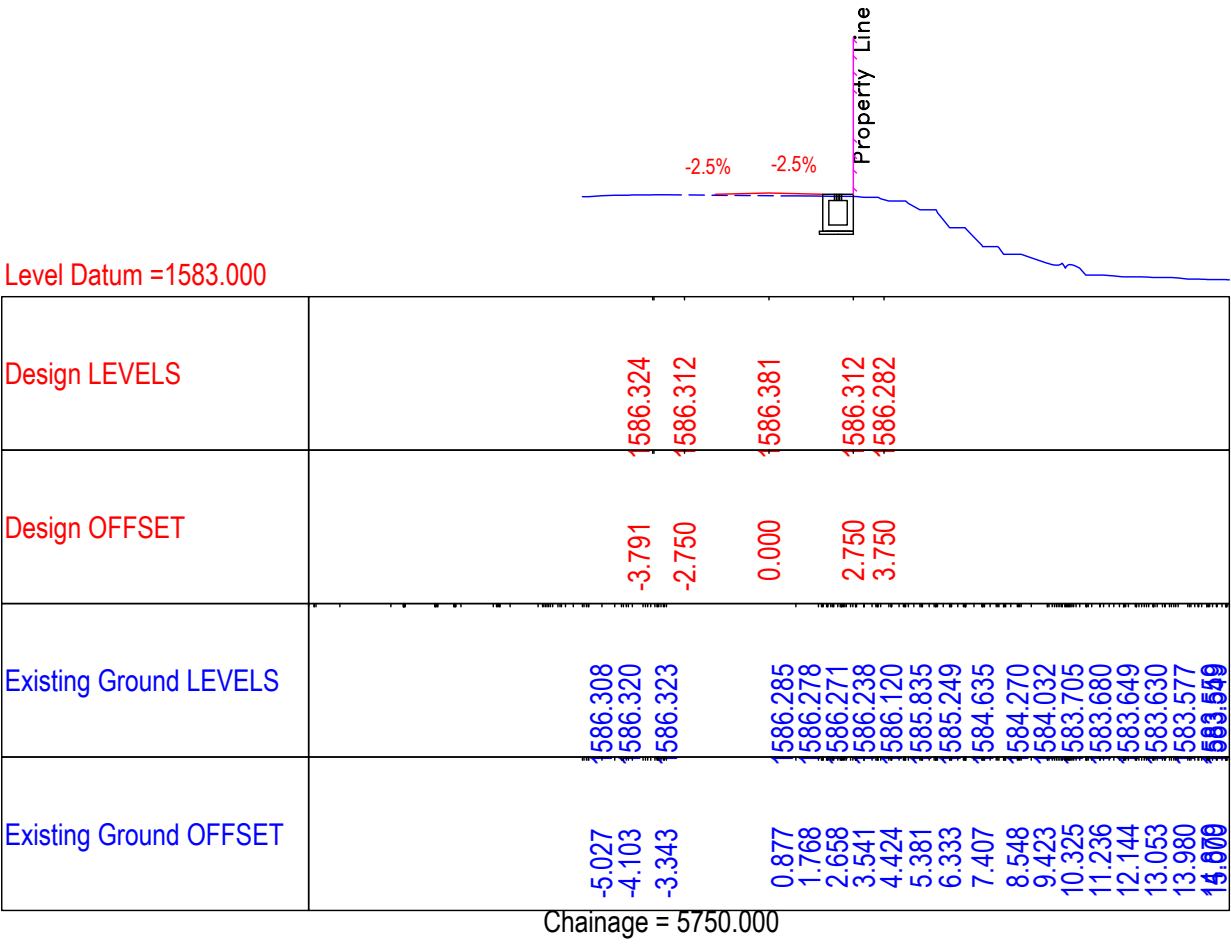
Design LEVELS	1585.852	1585.783	1585.852	1585.783	1586.106
Design OFFSET	-4.338	-3.750	-0.000	2.750	4.103
Existing Ground LEVELS	1585.983	1586.145	1586.154	1586.349	1586.253
Existing Ground OFFSET	-5.843	-4.643	-4.487	-2.824	1.088

Chainage = 5500.000



Design LEVELS	1586.374	1586.610	1586.679	1586.610	1586.539
Design OFFSET	-3.957	-2.750	0.000	2.750	3.791
Existing Ground LEVELS	1586.240	1586.298	1586.392	1586.548	1586.548
Existing Ground OFFSET	-5.260	-4.614	-2.019	1.394	2.271

Chainage = 5600.000



CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:

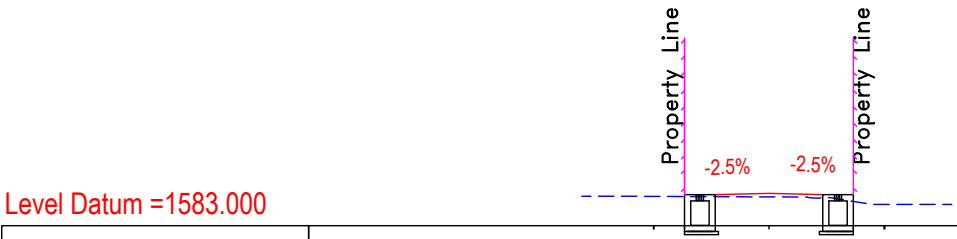


Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

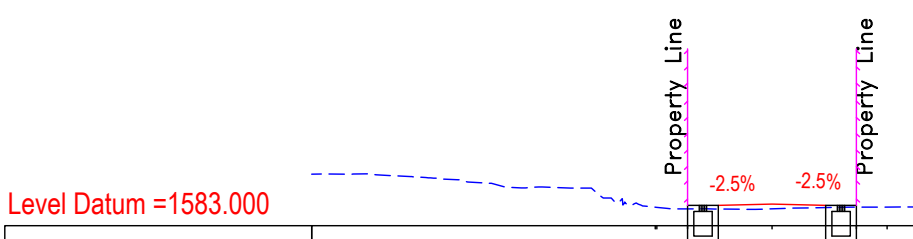
DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE	1 : 250

TITLE :	Detailed Cross Section (Ch.5+700 to Ch.5+950)
DRG. NO. :	EPTISA/JTRP/DPR/J&K/DCS/20
REVISION : R-1	August 2019



Design LEVELS	1583.971 1583.988
Design OFFSET	-3.763 -2.750 0.000 2.750 3.776
Existing Ground LEVELS	1583.962 1583.961 1583.956
Existing Ground OFFSET	-6.093 -5.176 -4.575 -3.415 0.901 1.998 3.339 3.793 5.176

Chainage = 6050.000



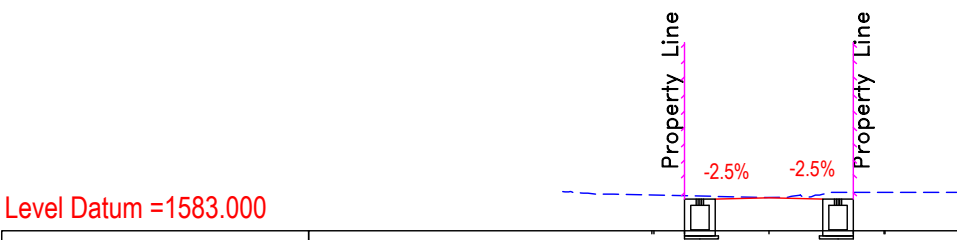
Design LEVELS	1583.640 1583.709
Design OFFSET	-2.750 -0.000 2.750
Existing Ground LEVELS	1584.682 1584.693 1584.601 1584.523 1584.425 1584.268 1584.262 1584.228 1583.949 1583.689 1583.603 1583.550 1583.547 1583.533 1583.572 1583.604 1583.606 1583.631
Existing Ground OFFSET	-15.000 -13.238 -11.784 -10.845 -9.915 -8.722 -7.796 -6.562 -5.557 -4.670 -3.786 -2.797 -1.867 -0.536 0.556 2.228 2.410 4.343

Chainage = 6150.000



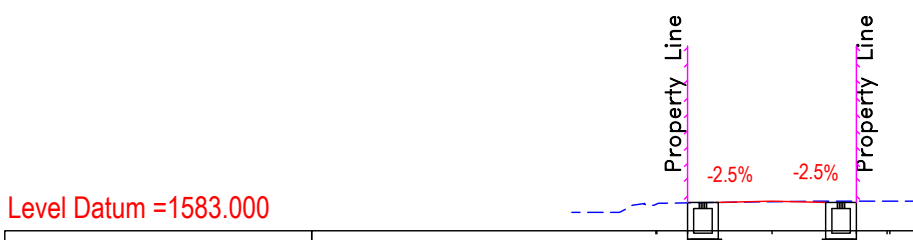
Design LEVELS	1583.775 1583.844
Design OFFSET	-2.750 -0.000 2.750
Existing Ground LEVELS	1583.797 1583.722 1583.712 1583.756 1583.764 1583.764 1583.764
Existing Ground OFFSET	-4.634 -3.756 -2.843 1.509 2.457 3.059 4.343

Chainage = 6250.000



Design LEVELS	1584.044 1584.075
Design OFFSET	-3.817 -2.750 0.000 2.750 3.780
Existing Ground LEVELS	1584.277 1584.184 1584.194 1584.083 1584.159 1584.254 1584.254 1584.25 1584.25
Existing Ground OFFSET	-6.718 -5.548 -5.058 -0.062 1.002 1.962 2.533 5.058

Chainage = 6000.000



Design LEVELS	1583.902 1583.967
Design OFFSET	-3.784 -2.750 0.000 2.750 3.838
Existing Ground LEVELS	1583.601 1583.598 1583.819 1583.899 1583.899 1583.923 1583.964 1583.964 1583.963
Existing Ground OFFSET	-6.523 -5.631 -4.585 -3.693 -3.484 -1.746 1.227 1.892 -4.585

Chainage = 6100.000



Design LEVELS	1583.613 1583.681
Design OFFSET	-2.750 -0.000 2.750
Existing Ground LEVELS	1583.648 1583.644 1583.626 1583.600 1583.597 1583.836 1583.951
Existing Ground OFFSET	-5.778 -4.874 -3.947 -2.910 -2.075 2.164 4.255

Chainage = 6200.000

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:

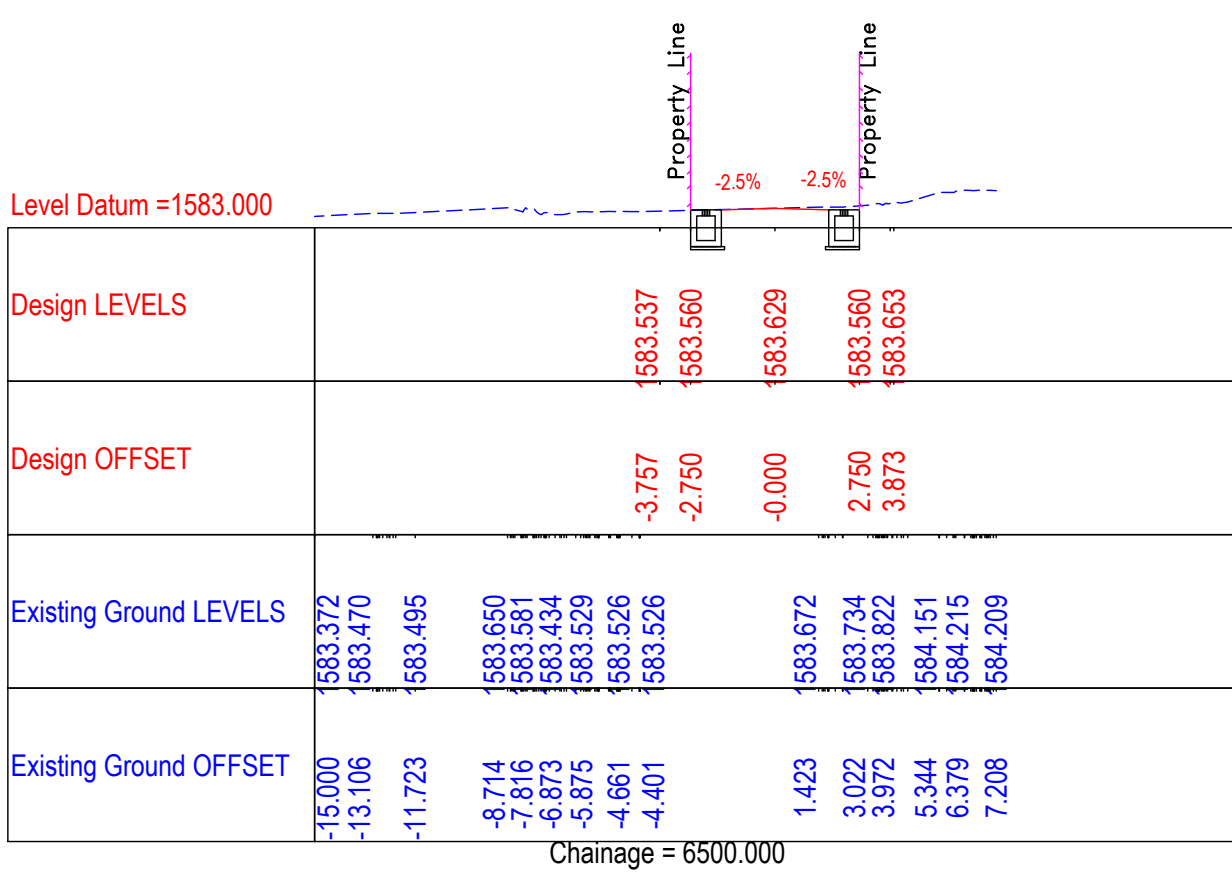
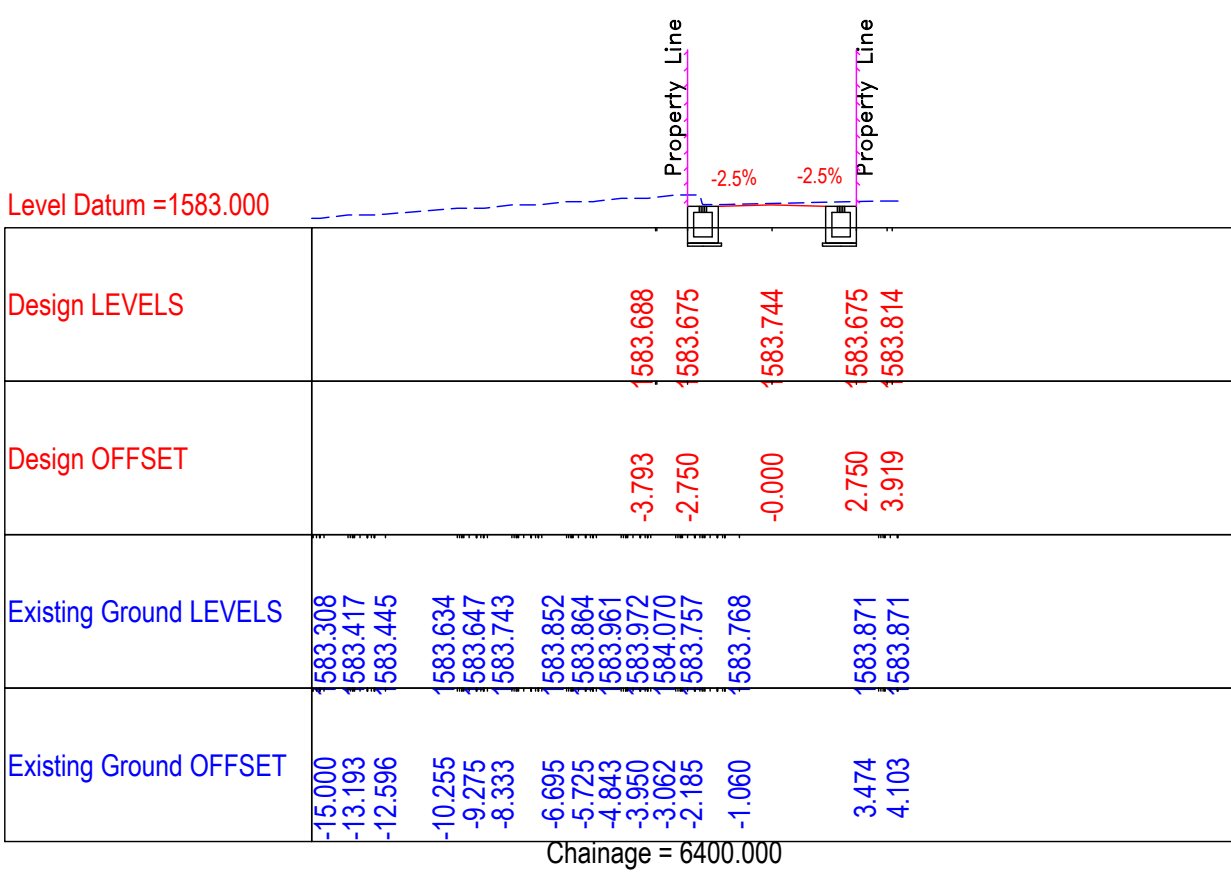
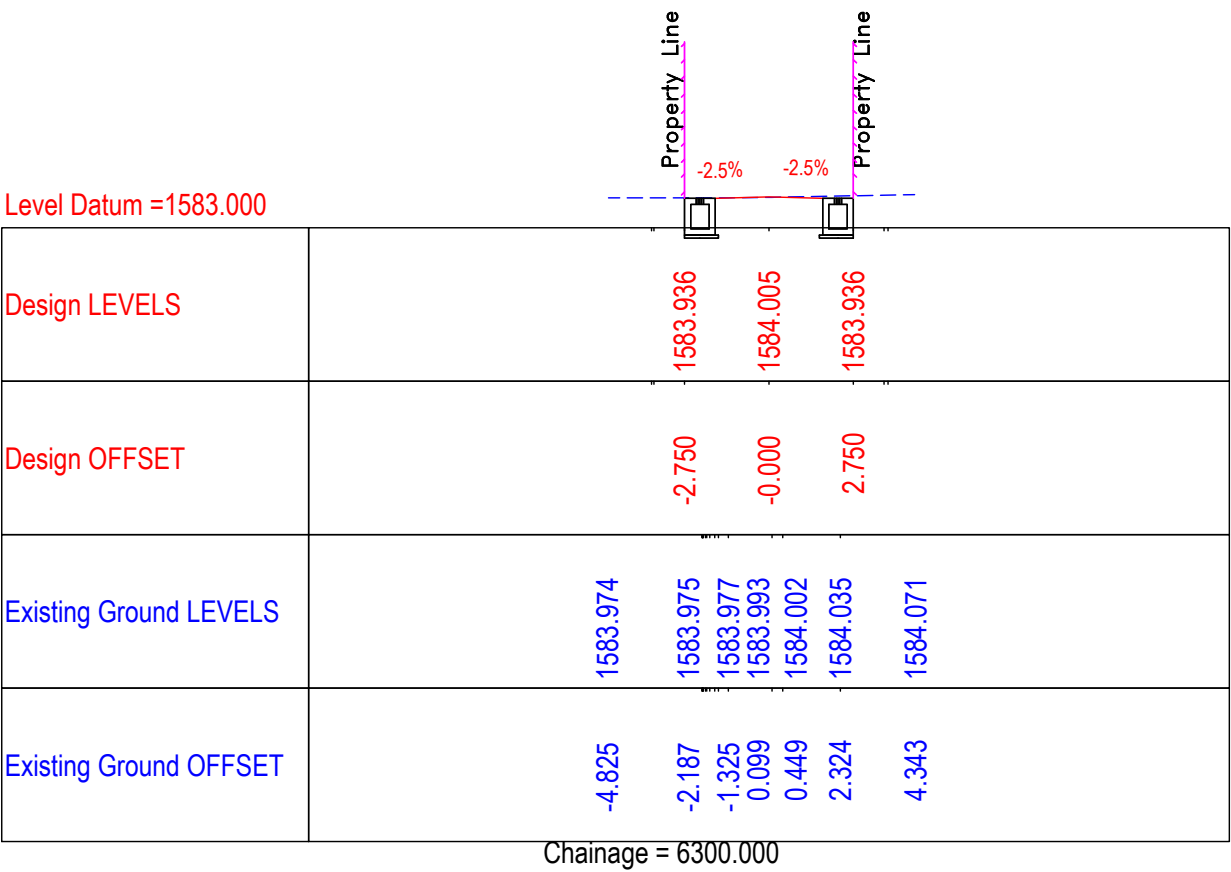
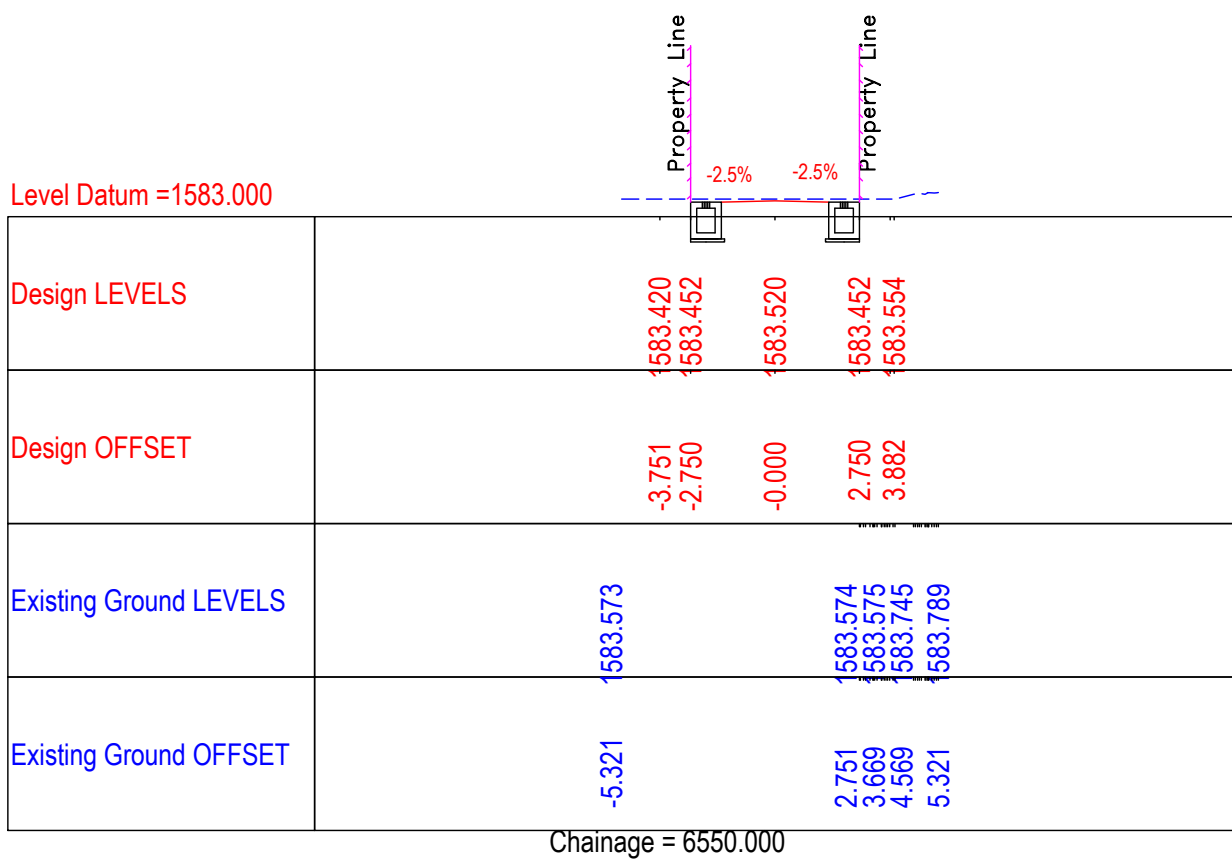
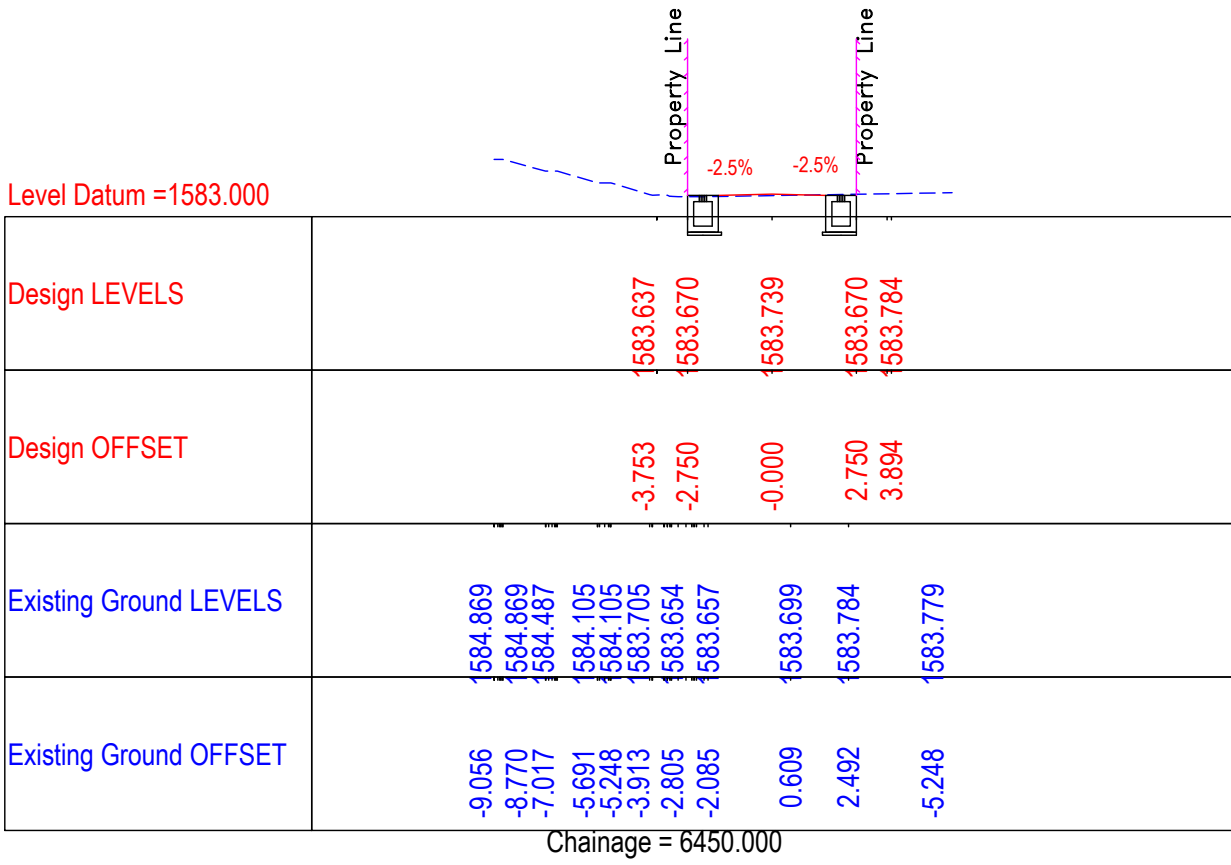
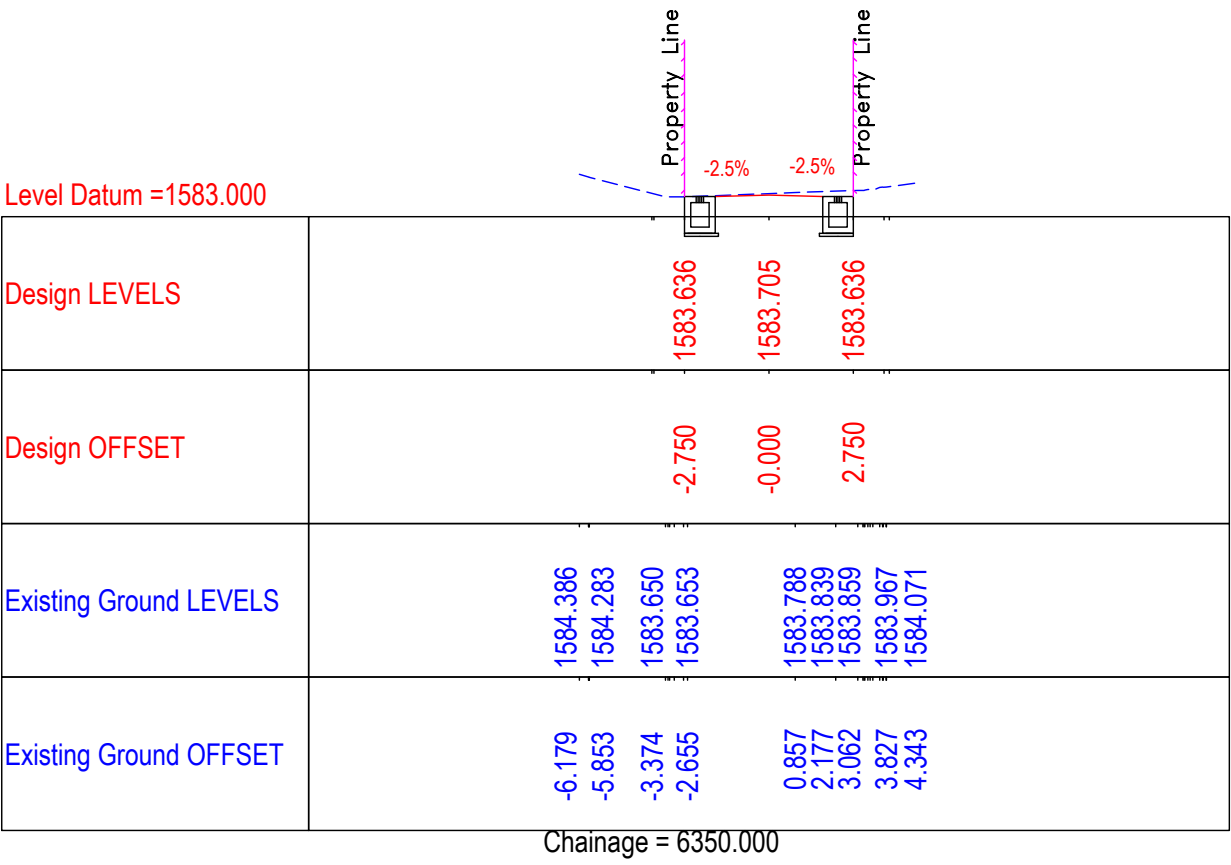


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West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE	1 : 250

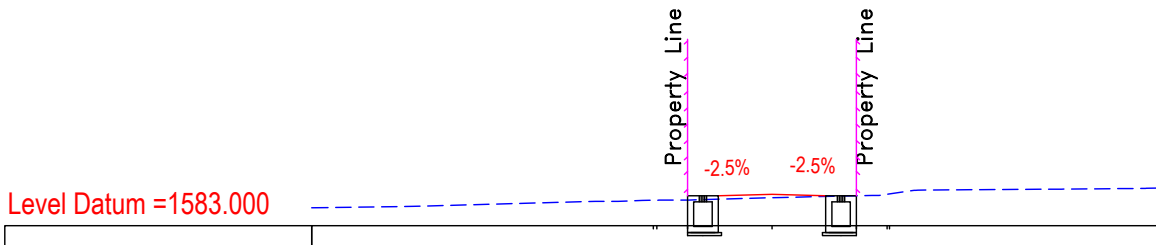
TITLE :	Detailed Cross Section (Ch.6+000 to Ch.6+250)
DRG. NO. :	EPTISA/JTRP/DPR/J&K/DCS/21
REVISION : R-1	August 2019





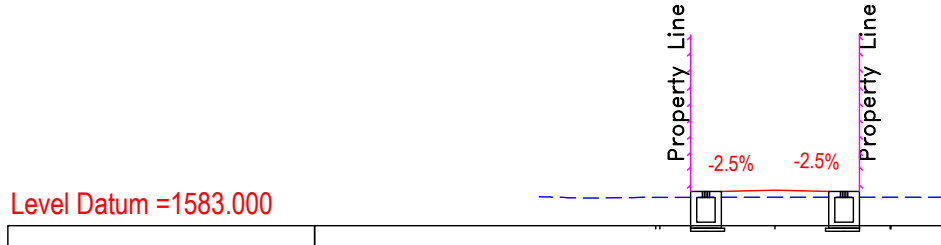
Design LEVELS	1583.757	1583.753	1583.822	1583.753	1583.867
Design OFFSET	-3.784	-2.750	0.000	2.750	3.894
Existing Ground LEVELS	1583.778	1583.727	1583.726	1583.927	1584.275
Existing Ground OFFSET	-5.143	-1.830	-0.828	4.047	5.143

Chainage = 6650.000



Design LEVELS	1583.809	1583.954	1584.022	1583.954	1584.001
Design OFFSET	-3.864	-2.750	-0.000	2.750	3.827
Existing Ground LEVELS	1583.884	1583.832	1583.798	1583.988	1584.154
Existing Ground OFFSET	-15.000	-11.685	-5.752	3.254	4.633

Chainage = 6750.000



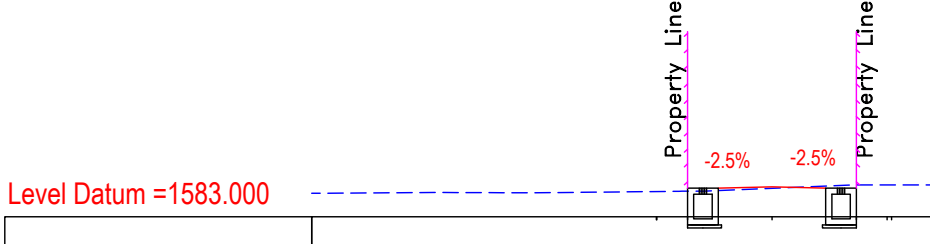
Design LEVELS	1583.929	1584.094	1584.162	1584.094	1584.093
Design OFFSET	-3.884	-2.750	-0.000	2.750	3.779
Existing Ground LEVELS	1583.947	1583.912	1583.910	1583.929	1583.963
Existing Ground OFFSET	-7.683	-6.740	-5.551	4.658	4.658

Chainage = 6850.000



Design LEVELS	1583.491	1583.551	1583.620	1583.551	1583.562
Design OFFSET	-3.780	-2.750	0.000	2.750	3.791
Existing Ground LEVELS	1583.481	1583.530	1583.522	1583.577	1583.582
Existing Ground OFFSET	4.592	-2.368	-1.351	2.716	3.596

Chainage = 6600.000



Design LEVELS	1583.858	1583.908	1583.977	1583.908	1584.023
Design OFFSET	-3.770	-2.750	0.000	2.750	3.895
Existing Ground LEVELS	1583.764	1583.792	1583.780	1583.958	1584.040
Existing Ground OFFSET	-15.000	-10.922	-7.954	0.744	2.667

Chainage = 6700.000



Design LEVELS	1583.810	1583.946	1584.014	1583.946	1584.006
Design OFFSET	-3.856	-2.750	0.000	2.750	3.841
Existing Ground LEVELS	1583.753	1583.800	1583.805	1584.009	1584.023
Existing Ground OFFSET	-4.739	-3.409	-2.527	2.162	2.974

Chainage = 6800.000

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

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Consultancy Services for Preparing Detailed Project Report
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DESIGN CONSULTANT:

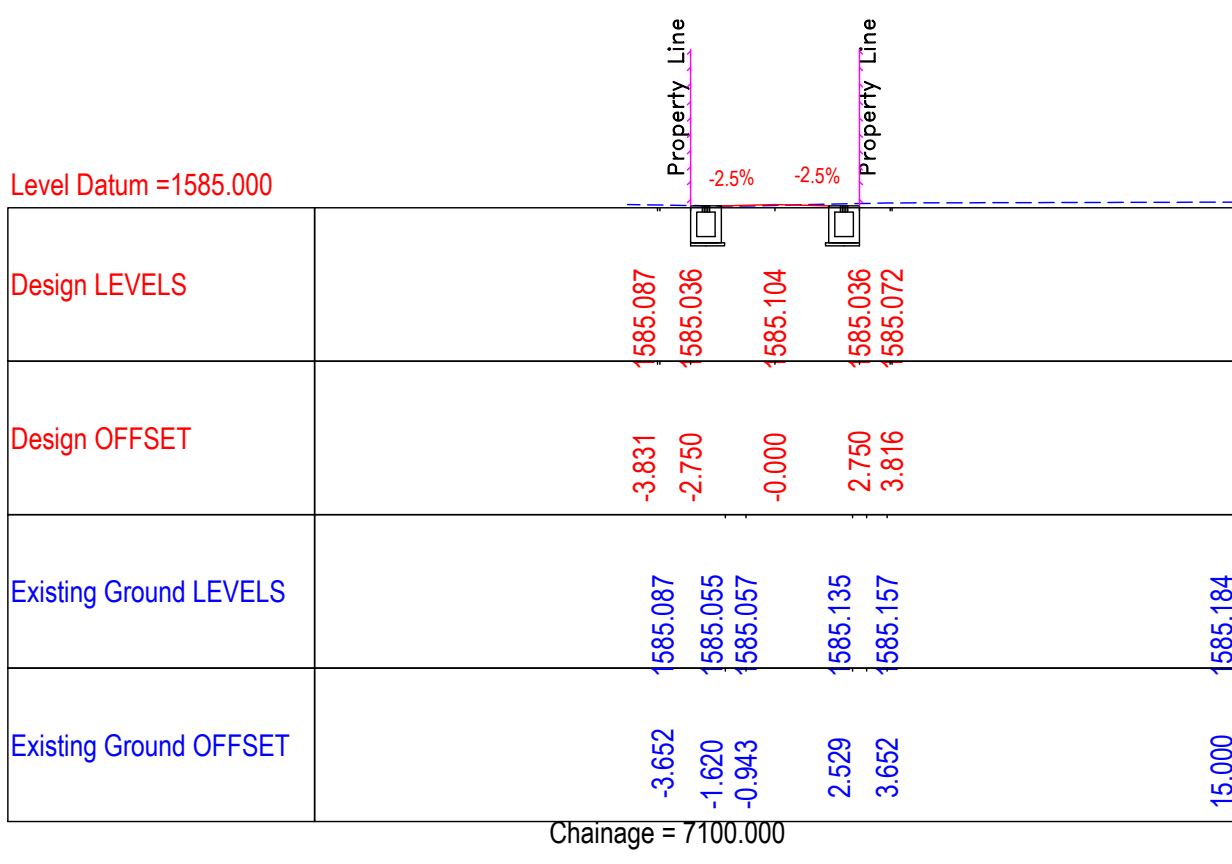
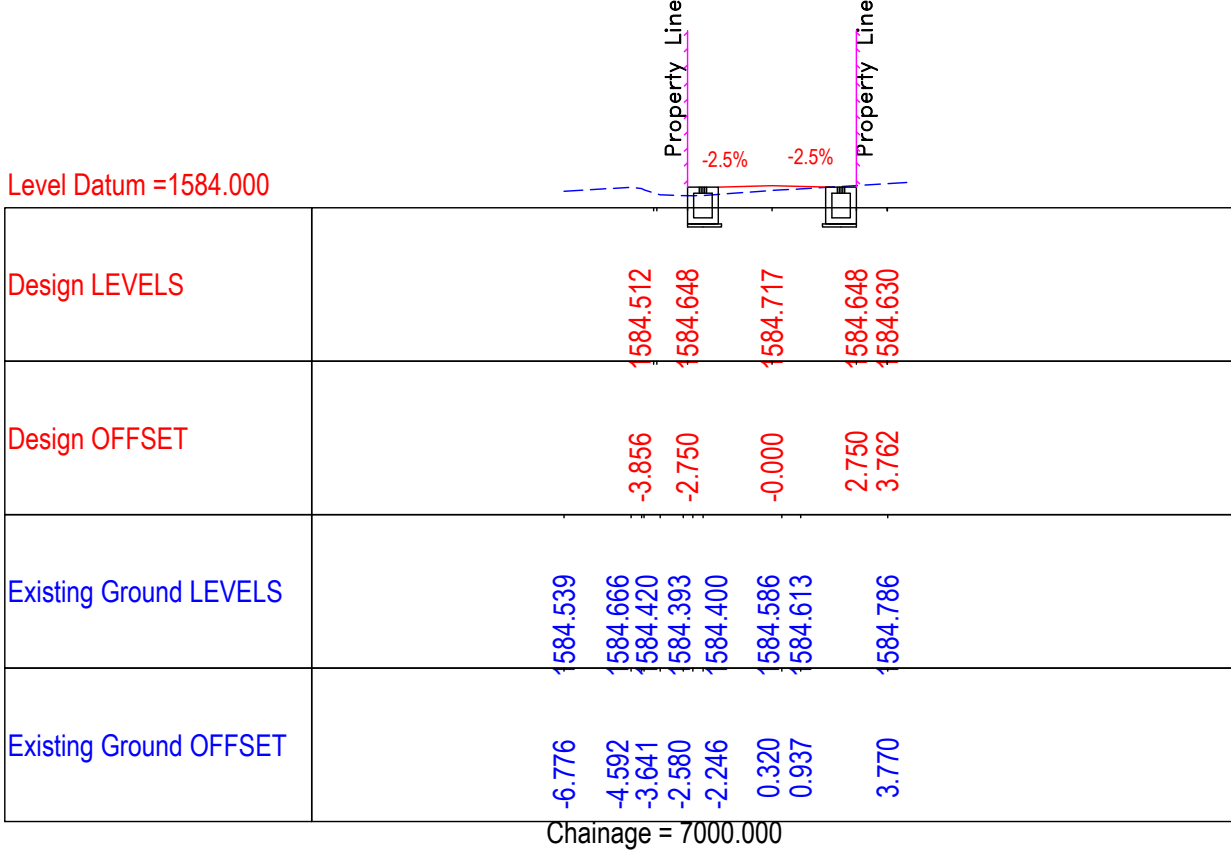
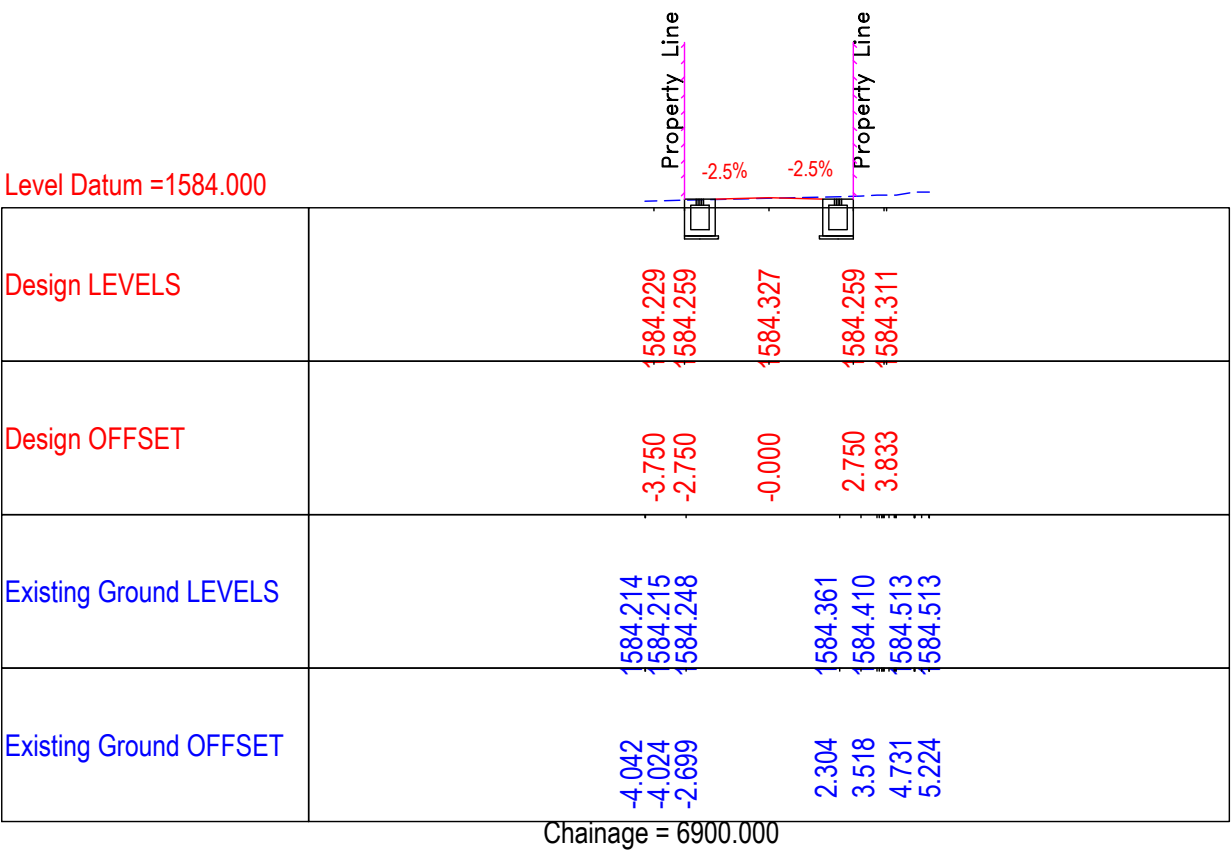
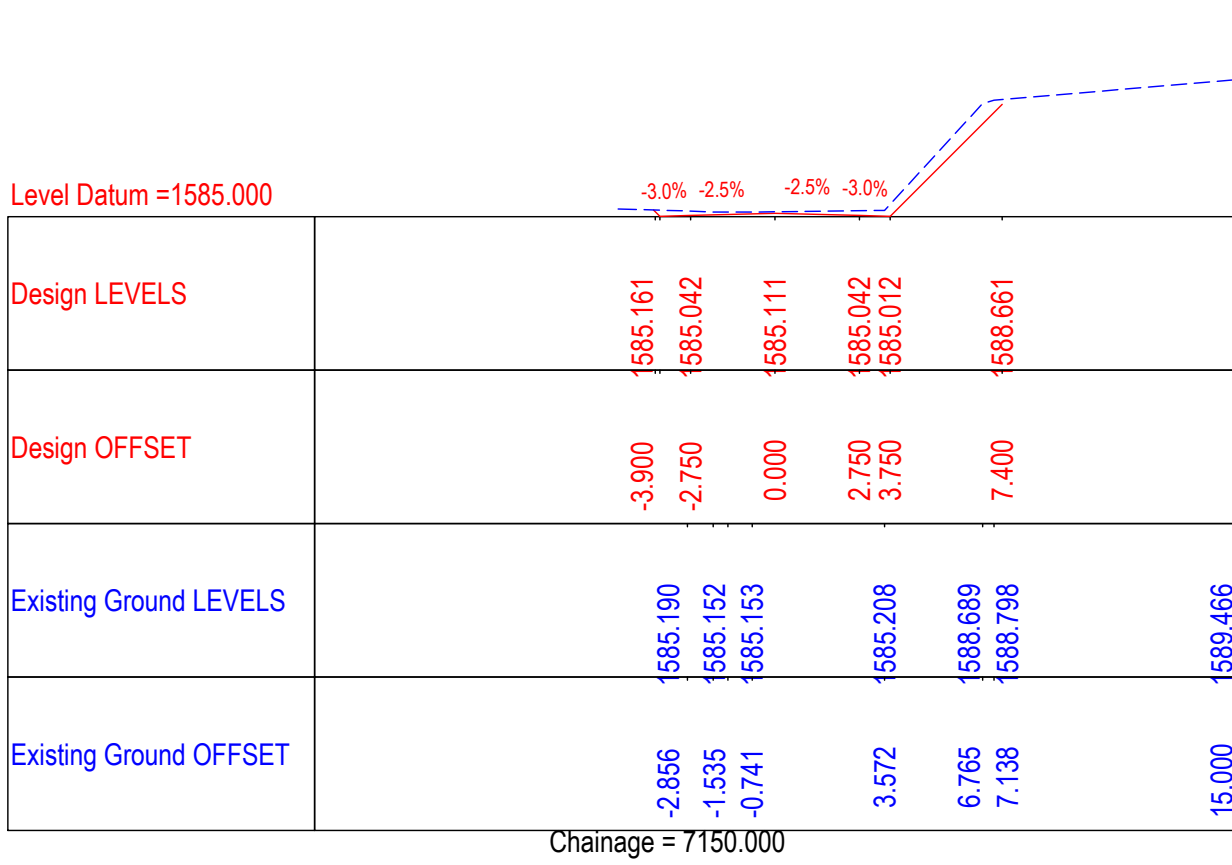
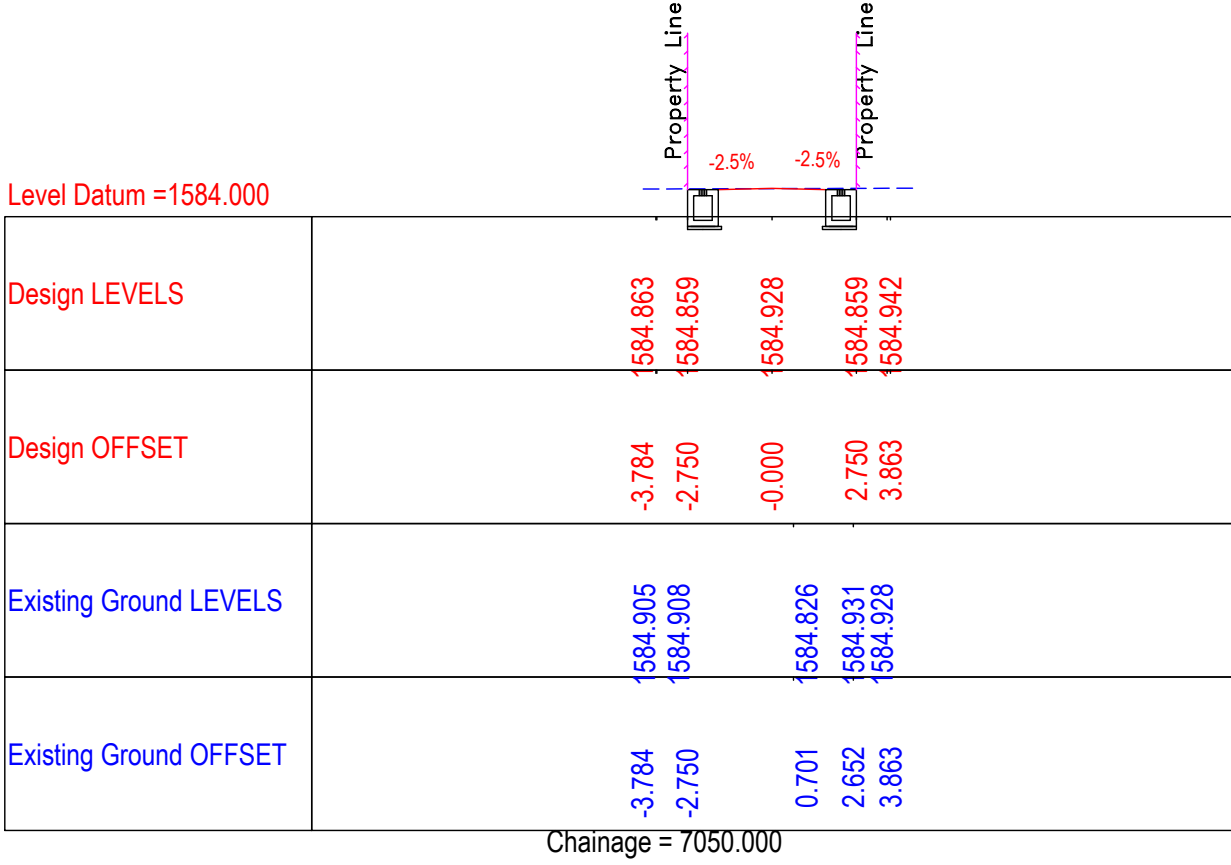
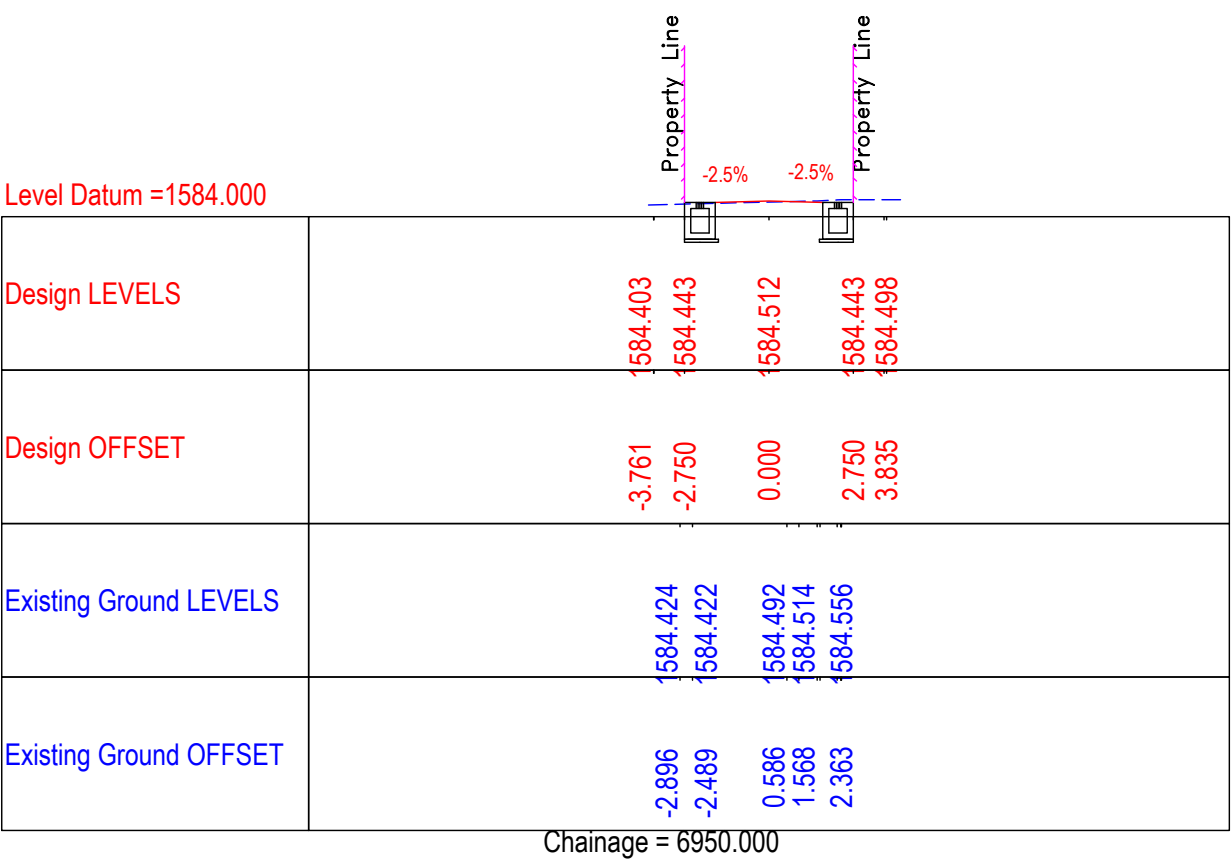


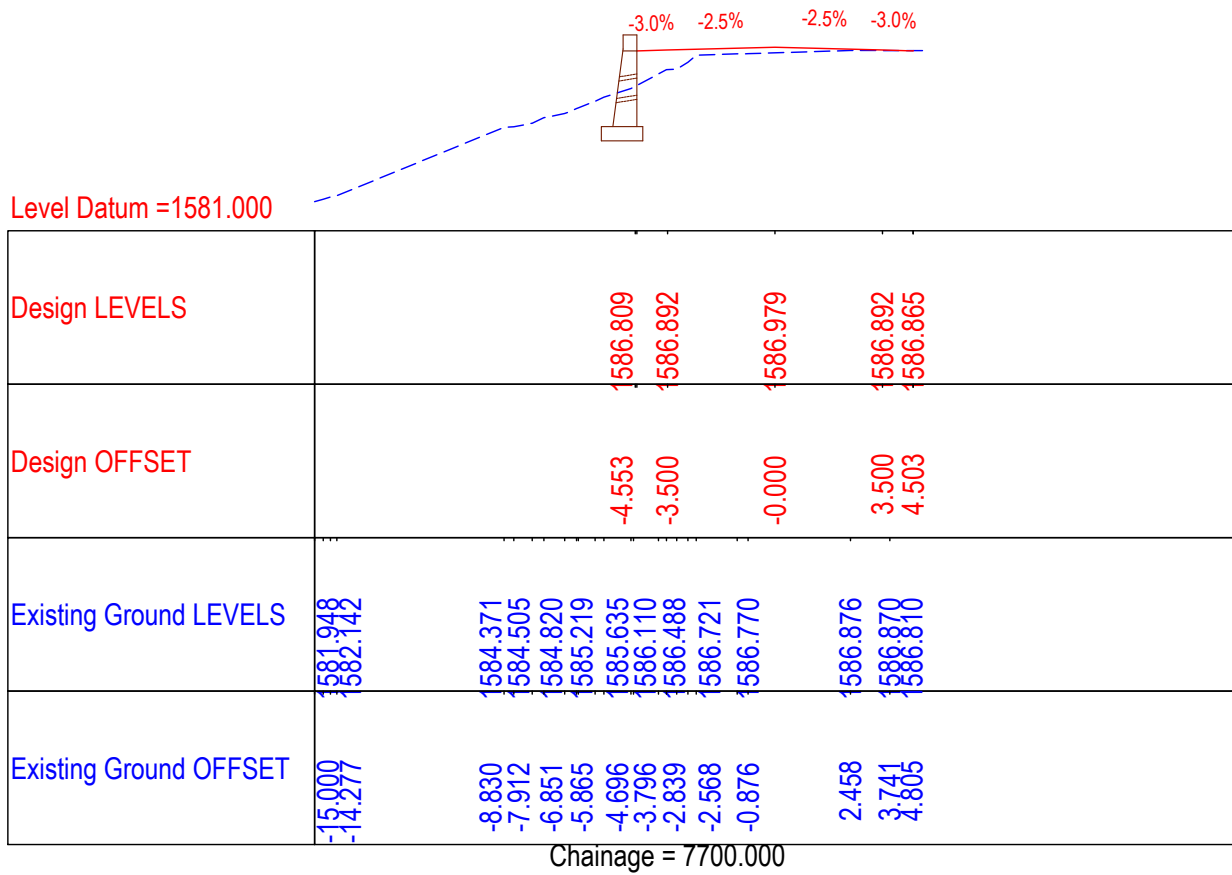
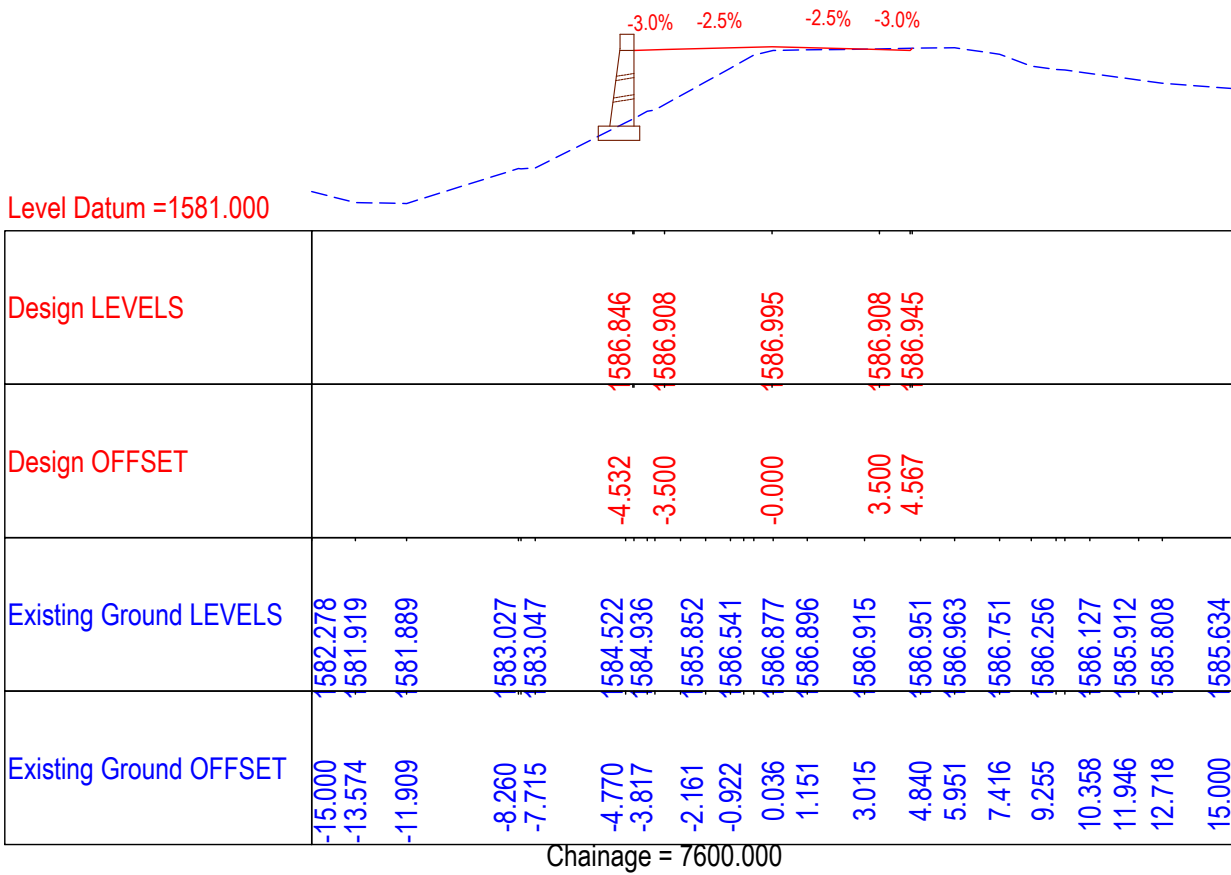
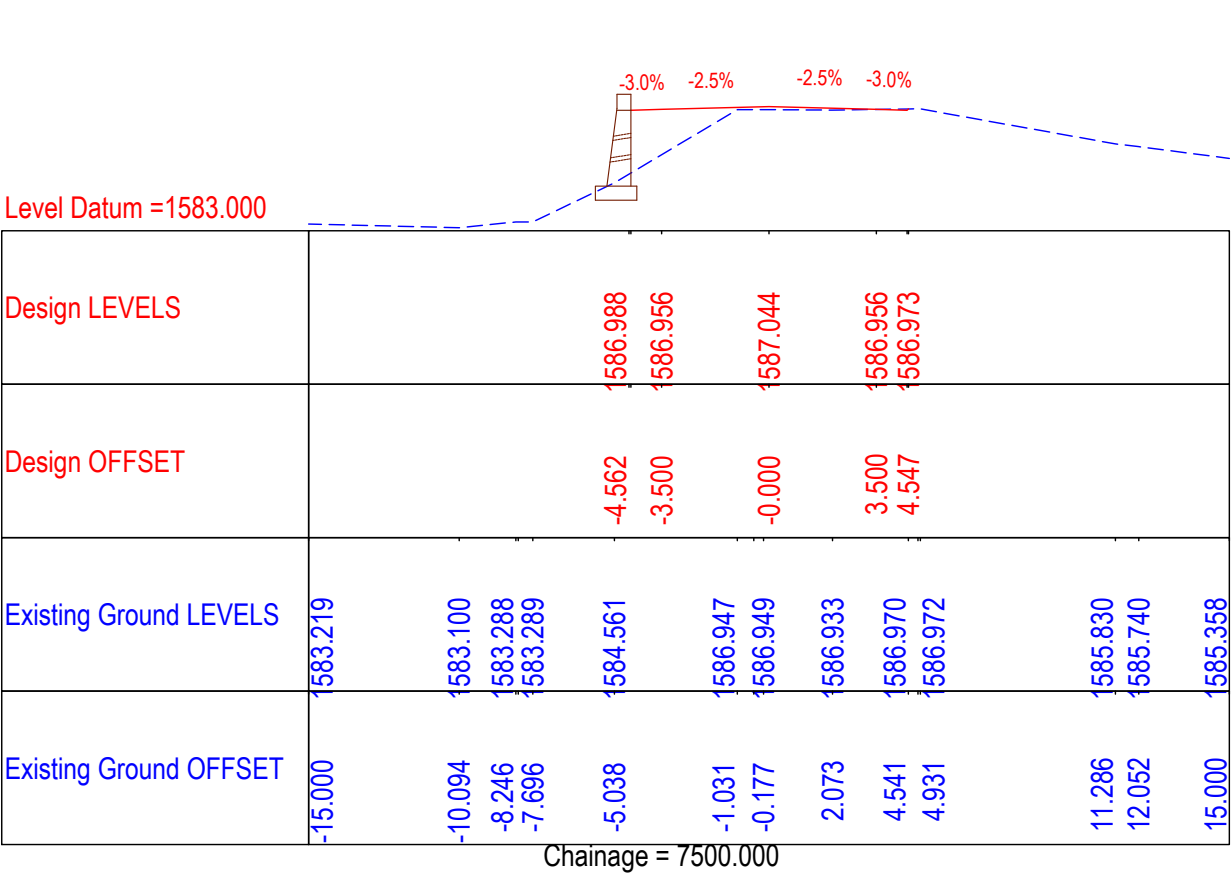
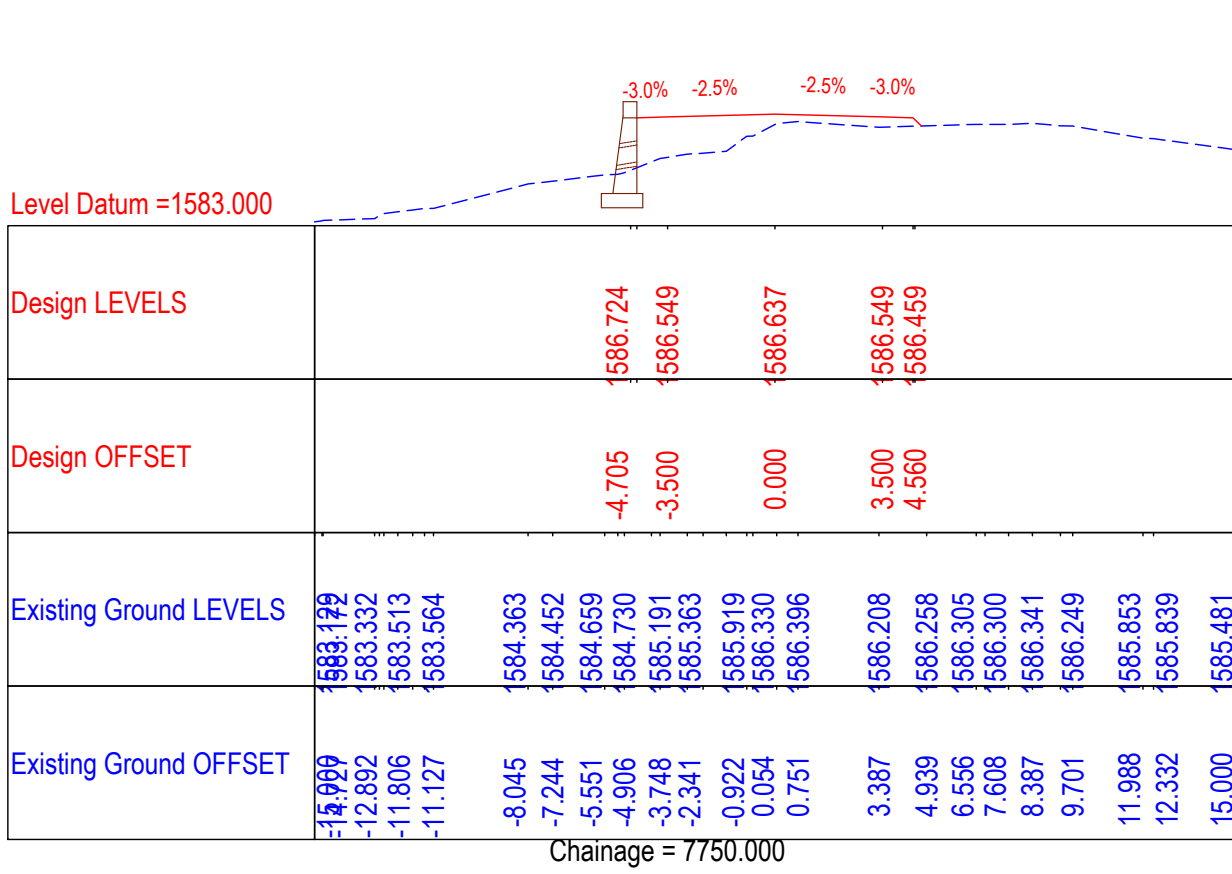
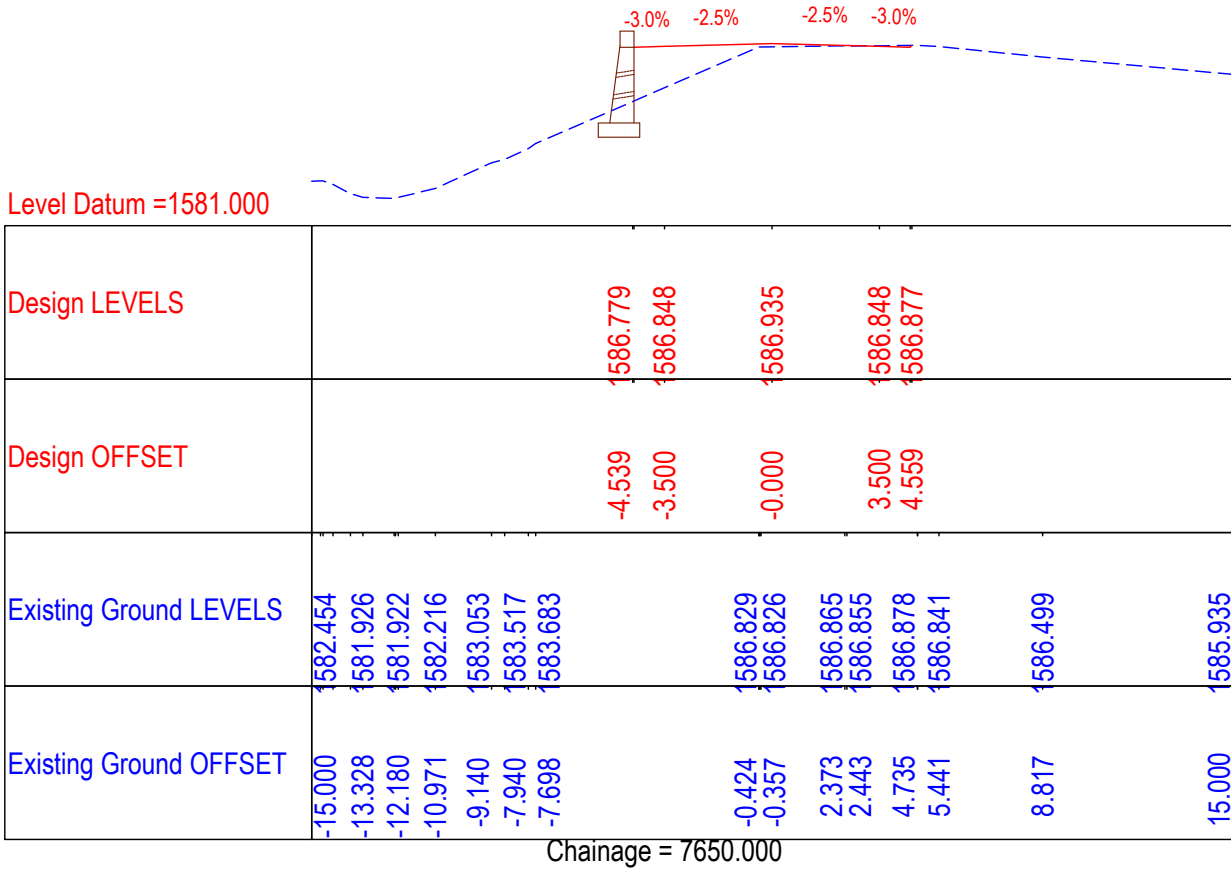
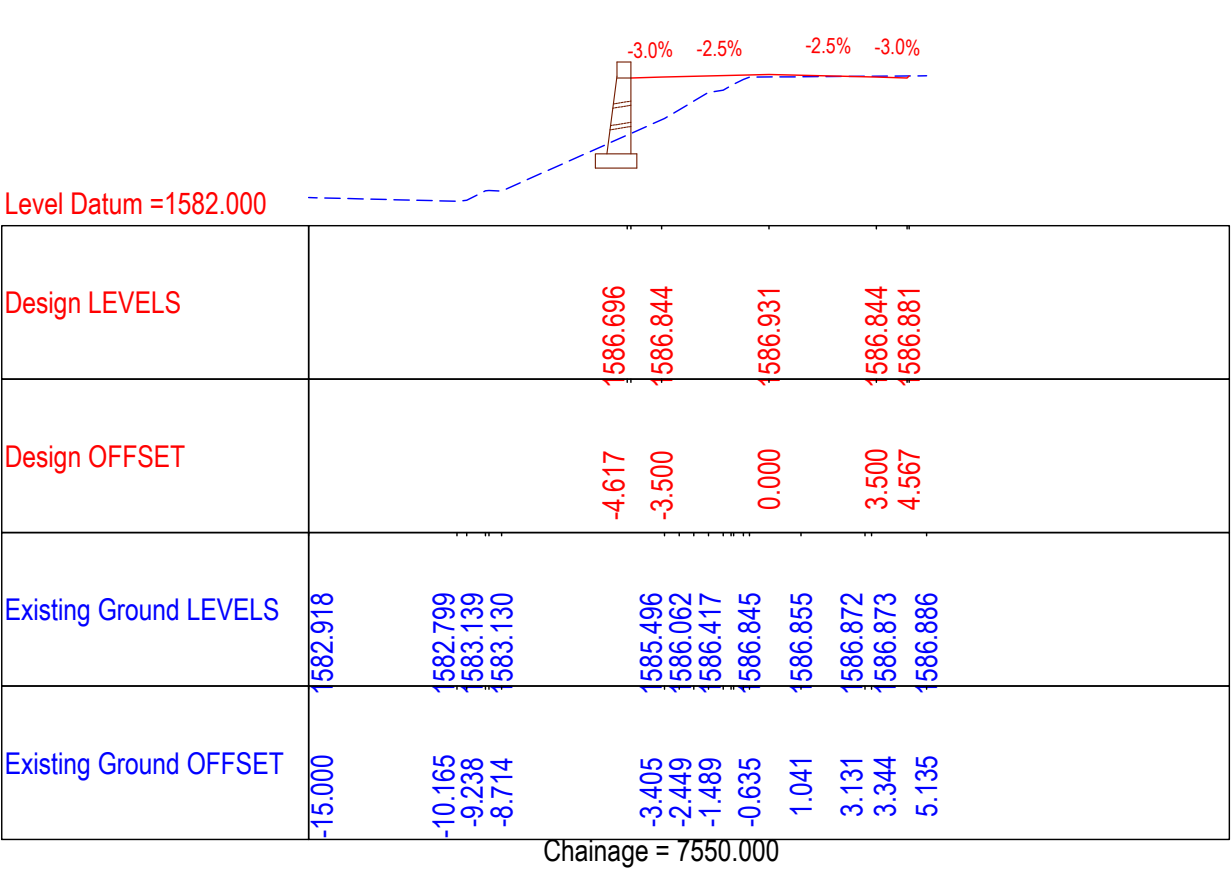
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Sector v, Salt Lake Kolkata - 700091,
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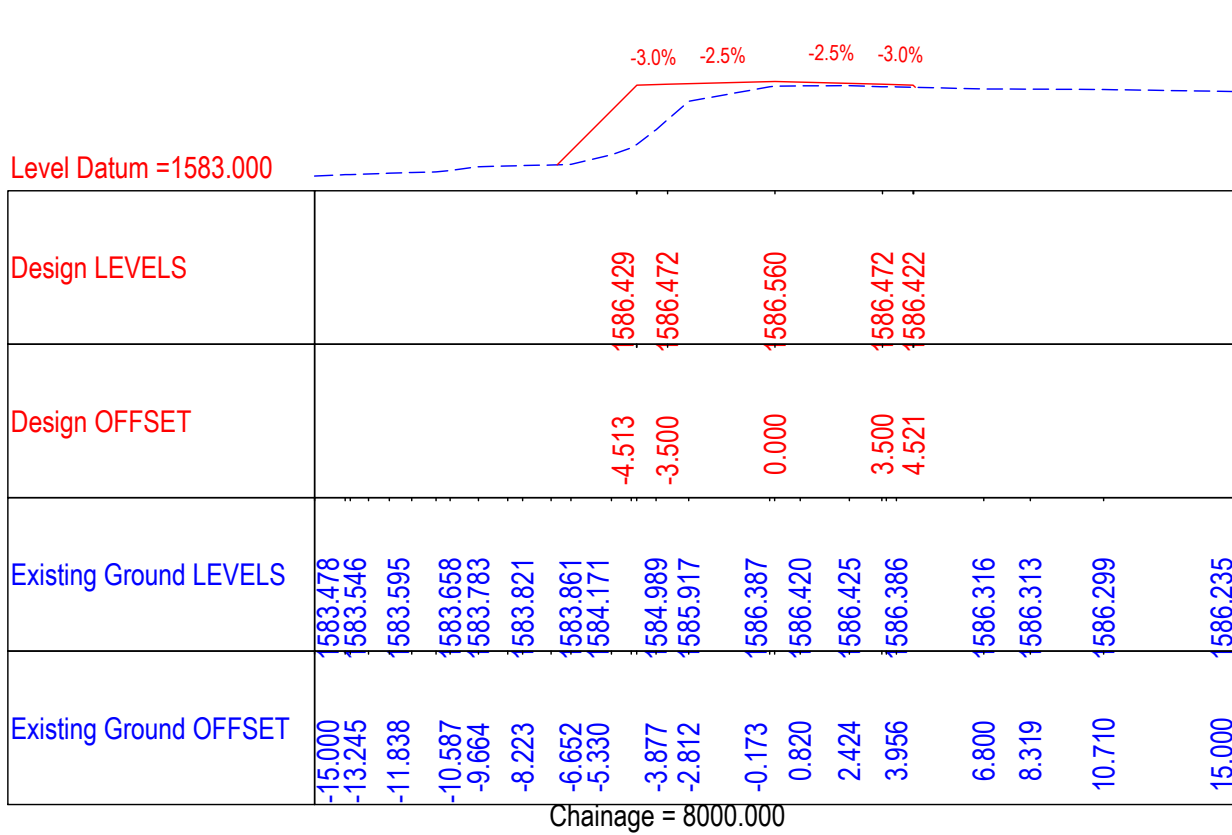
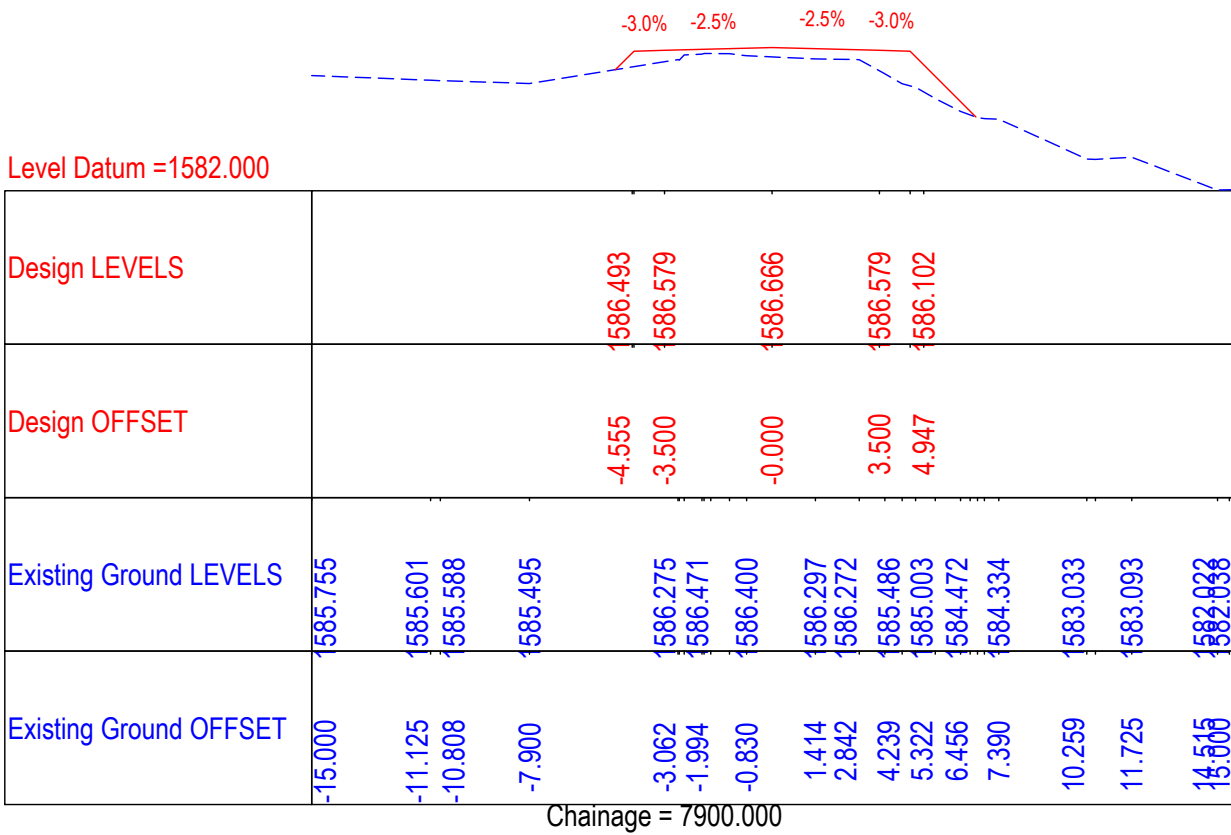
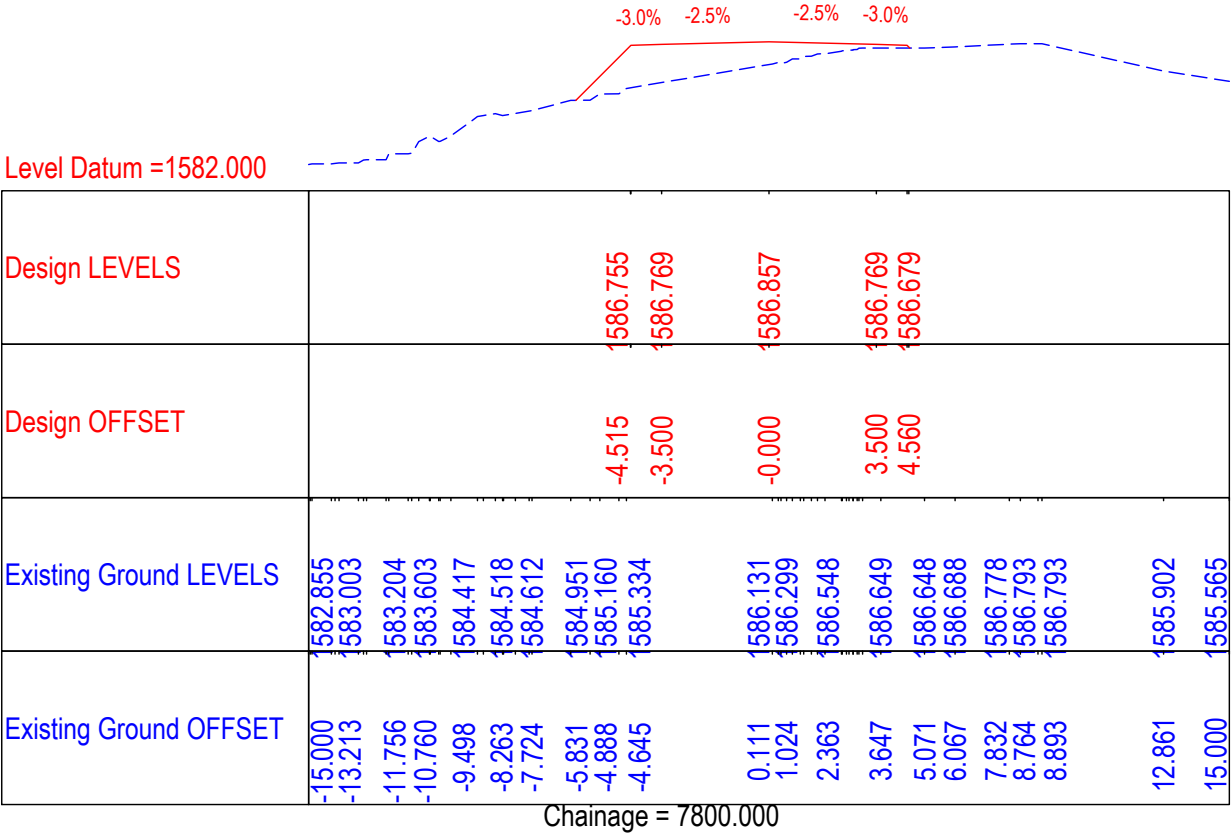
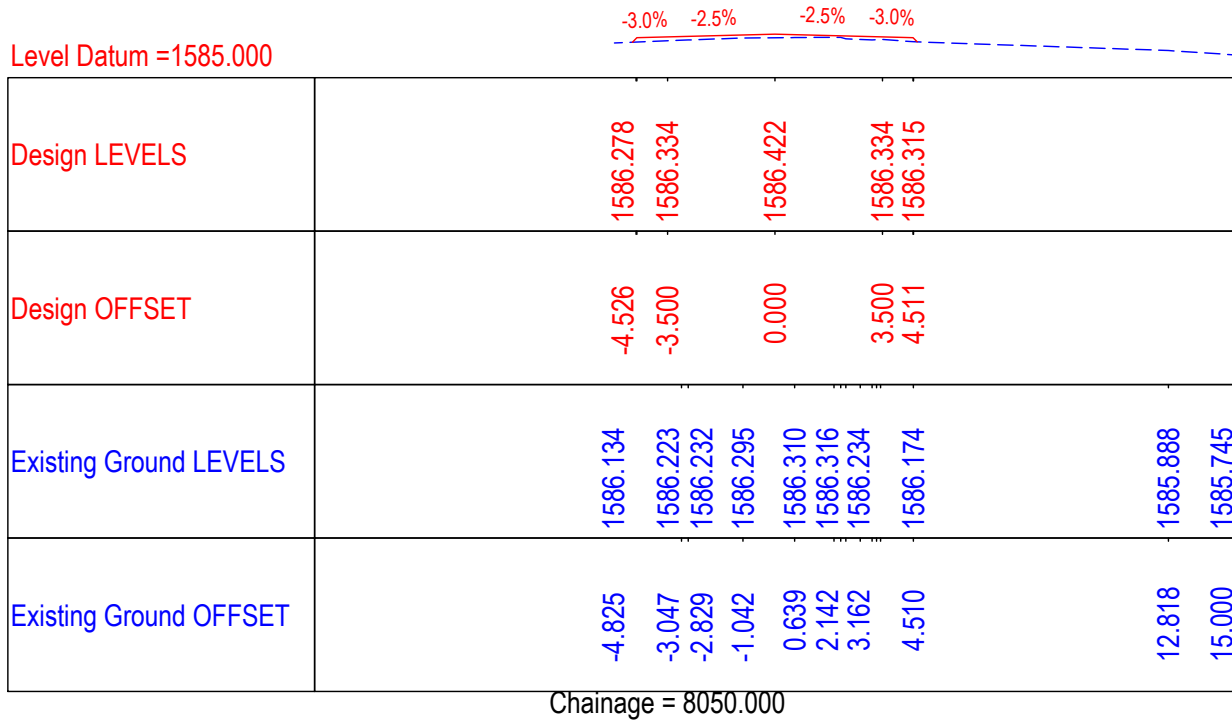
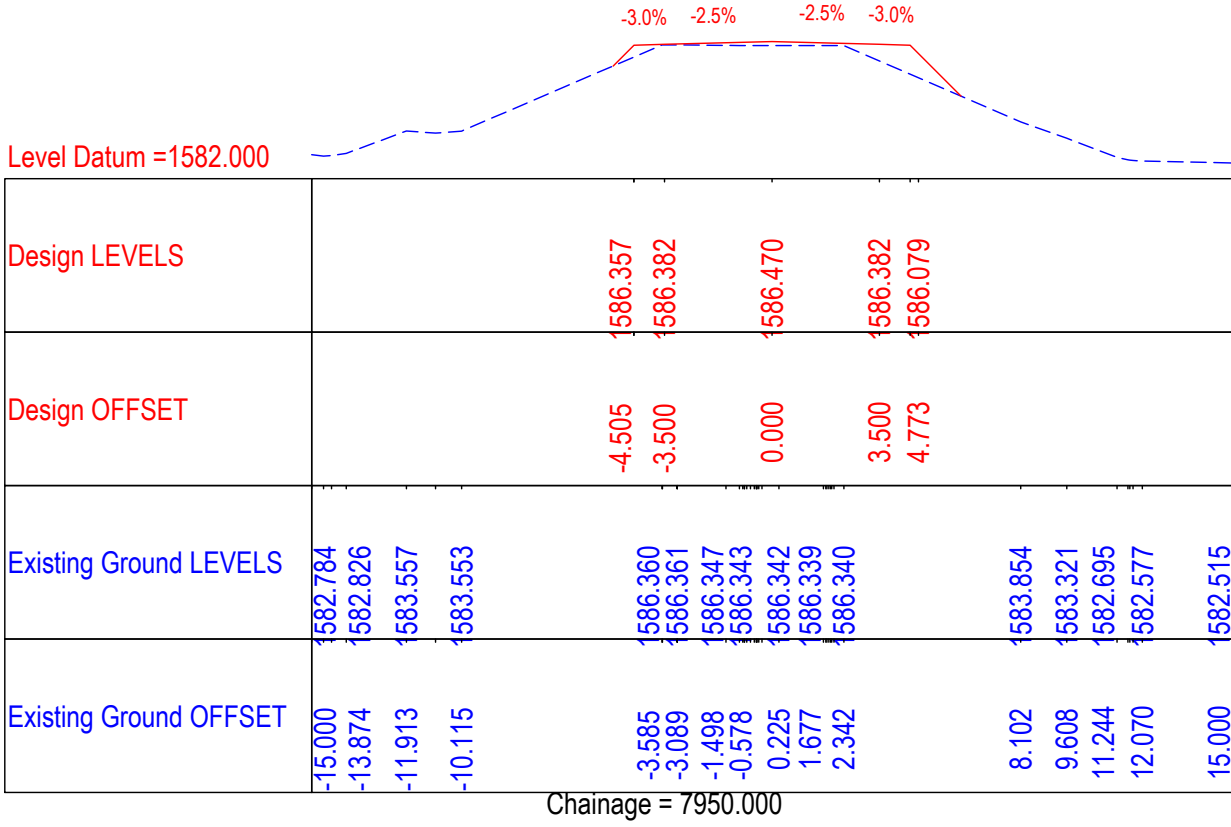
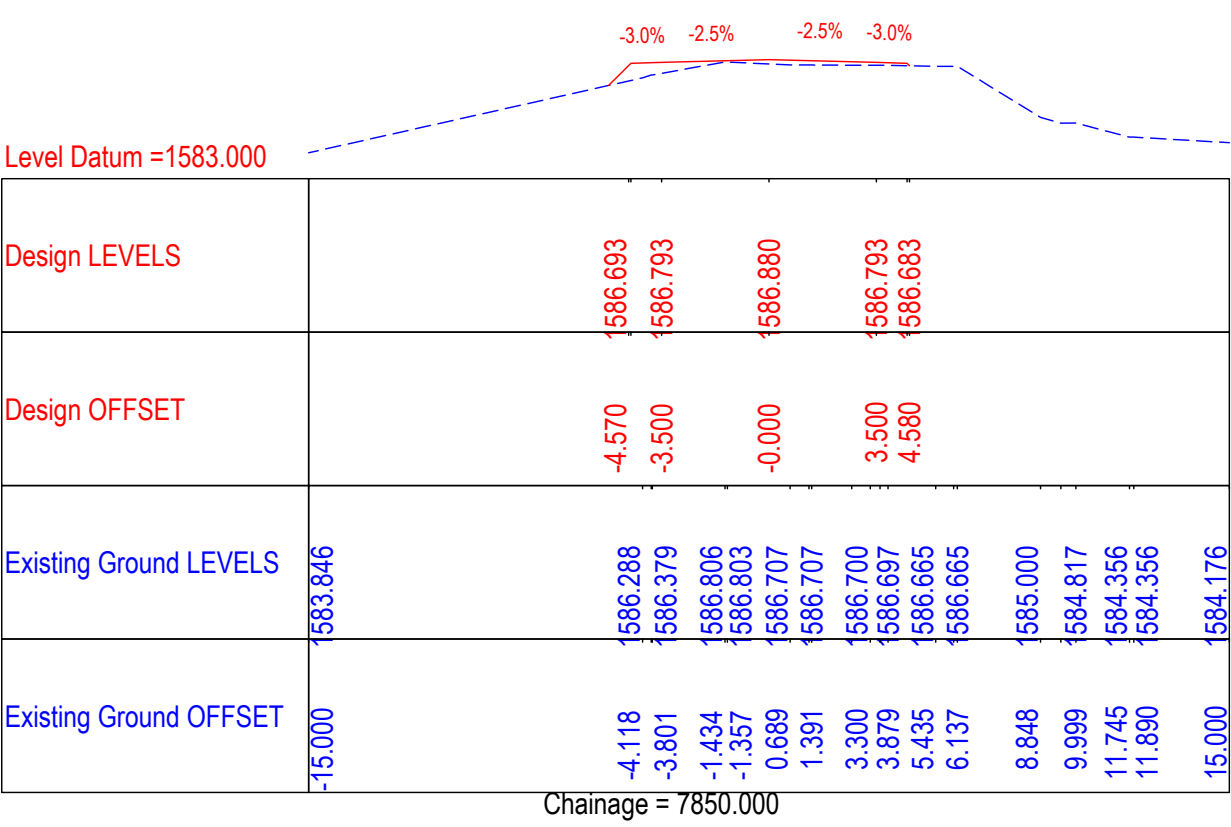
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE	1 : 250

TITLE :	Detailed Cross Section (Ch.6+600 to Ch.6+850)
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/DCS/23
REVISION : R-1	August 2019







CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE	1 : 250

TITLE :	Detailed Cross Section (Ch.7+800 to Ch.8+050)
DRG. NO. :	EPTISA/JTFRP/DPR/J&K/DCS/27
REVISION : R-1	August 2019

Level Datum =1585.000

Design LEVELS	1585.482	1585.563	1585.650	1585.563	1585.533
Design OFFSET	-4.551	-3.500	0.000	3.500	4.500
Existing Ground LEVELS	1585.425	1585.527	1585.526		1585.481
Existing Ground OFFSET	-5.195	-1.861	-1.426		6.084

Chainage = 8150.000

Level Datum =1583.000

Design LEVELS	1585.330	1585.525	1585.613	1585.525	1584.783
Design OFFSET	-4.666	-3.500	0.000	3.500	5.213
Existing Ground LEVELS	1583.019	1583.611	1583.589	1583.564	1583.671
Existing Ground OFFSET	-15.000	-12.052	-10.666	-9.467	-8.487

Chainage = 8250.000

Level Datum =1582.000

Design LEVELS	1585.802	1585.803	1585.891	1585.803	1585.820
Design OFFSET	-4.528	-3.500	0.000	3.500	4.547
Existing Ground LEVELS	1582.612	1582.640	1582.914	1583.179	1583.200
Existing Ground OFFSET	-15.000	-13.419	-11.784	-10.365	-10.212

Chainage = 8350.000

Level Datum =1581.000

Design LEVELS	1585.717	1585.828	1585.916	1585.828	1585.696
Design OFFSET	-4.581	-3.500	-0.000	3.500	4.602
Existing Ground LEVELS	1585.557	1585.760	1585.754	1585.277	1584.532
Existing Ground OFFSET	-5.195	-3.663	-2.665	1.060	2.351

Chainage = 8100.000

Level Datum =1583.000

Design LEVELS	1585.320	1585.420	1585.508	1585.420	1585.325
Design OFFSET	-4.570	-3.500	0.000	3.500	4.565
Existing Ground LEVELS	1583.014	1584.317	1584.449	1584.721	1585.067
Existing Ground OFFSET	-15.000	-8.932	-7.805	-6.578	-5.026

Chainage = 8200.000

Level Datum =1585.000

Design LEVELS	1585.719	1585.691	1585.778	1585.691	1585.727
Design OFFSET	-4.558	-3.500	0.000	3.500	4.566
Existing Ground LEVELS	1585.491	1585.721	1585.673	1585.728	1585.729
Existing Ground OFFSET	-5.195	-2.138	0.621	3.838	6.223

Chainage = 8300.000

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:

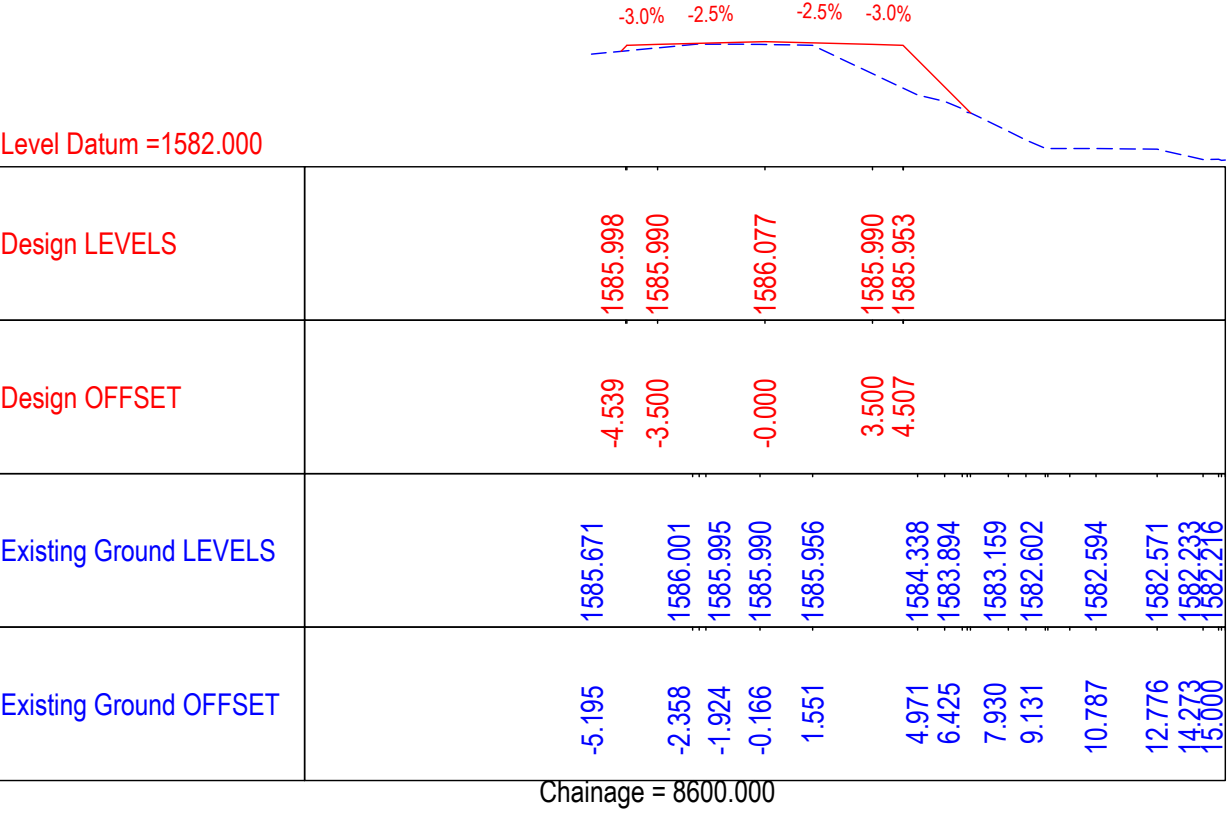
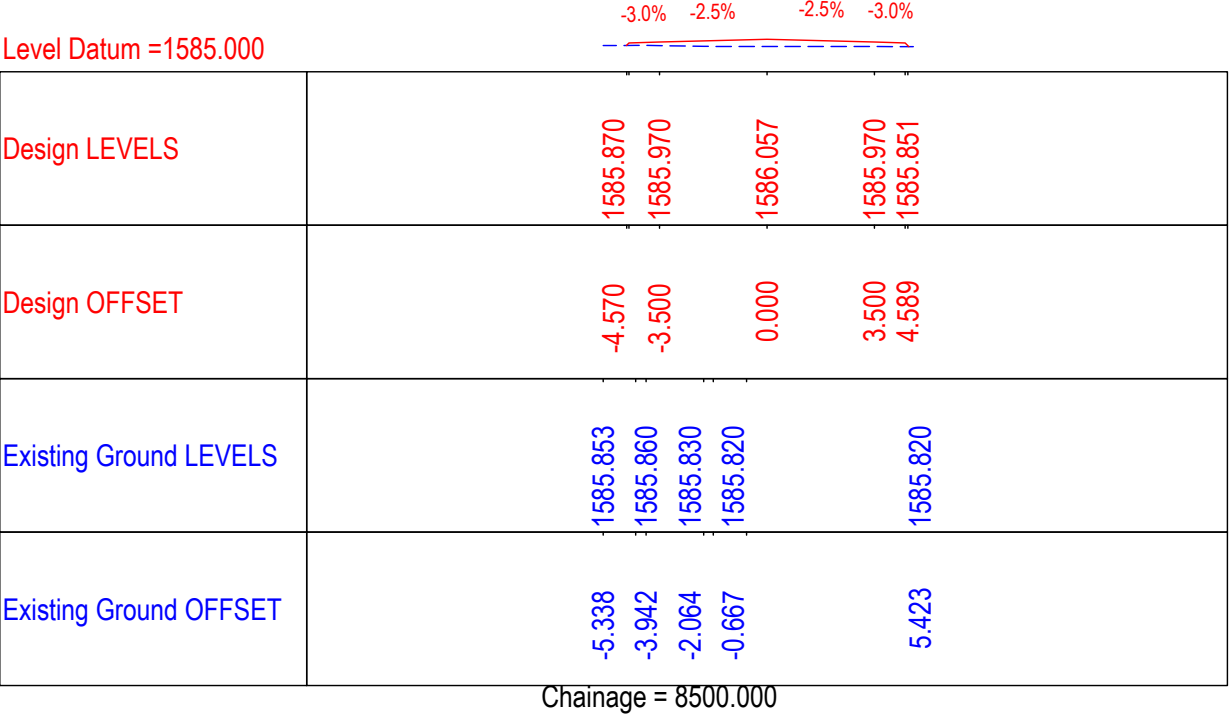
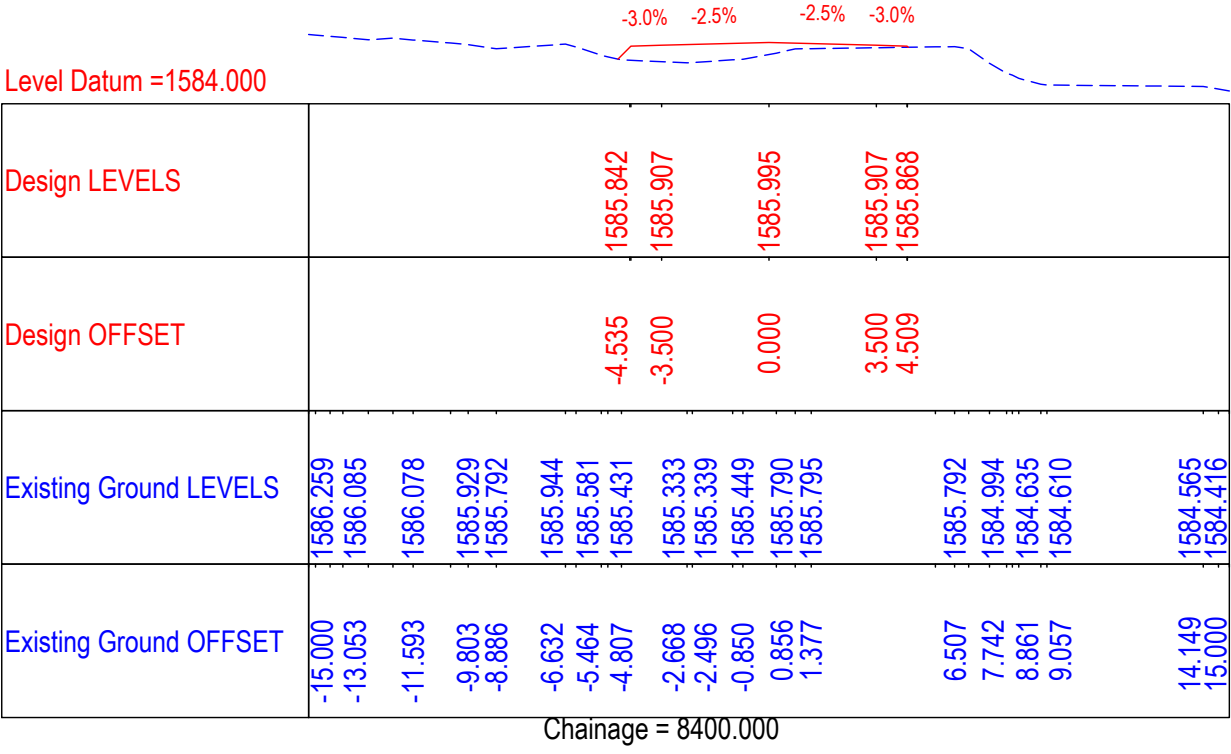
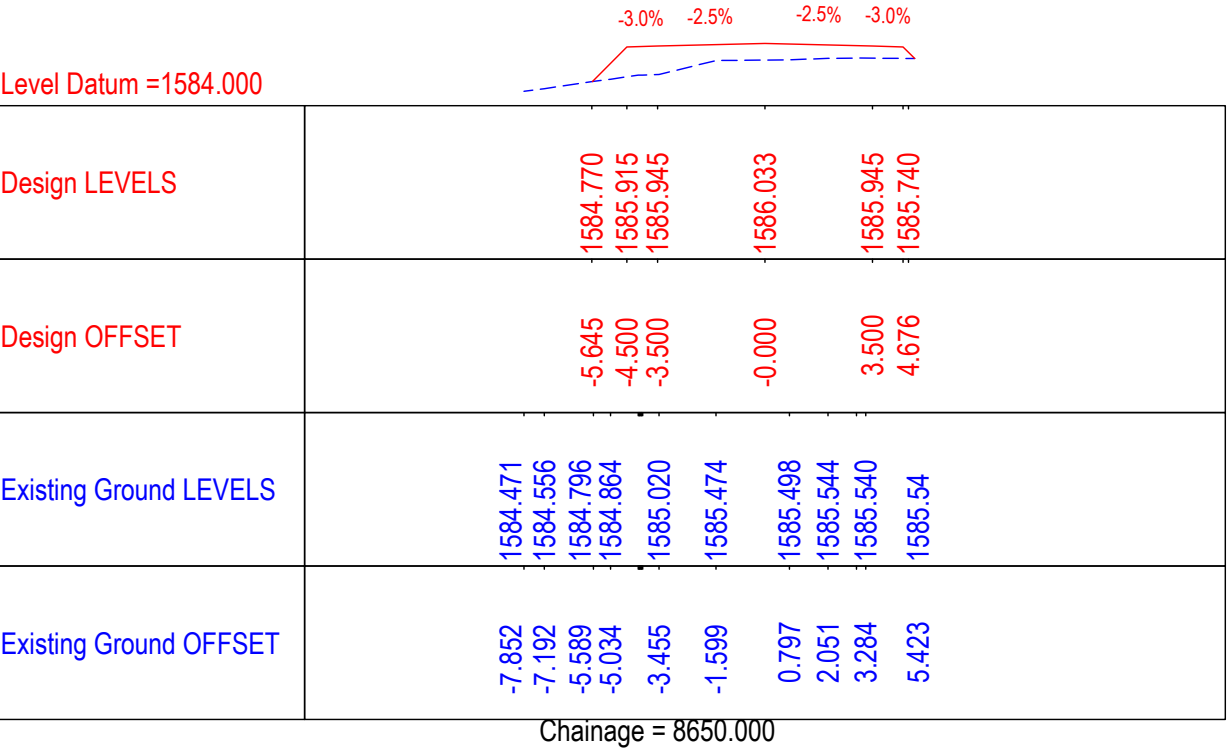
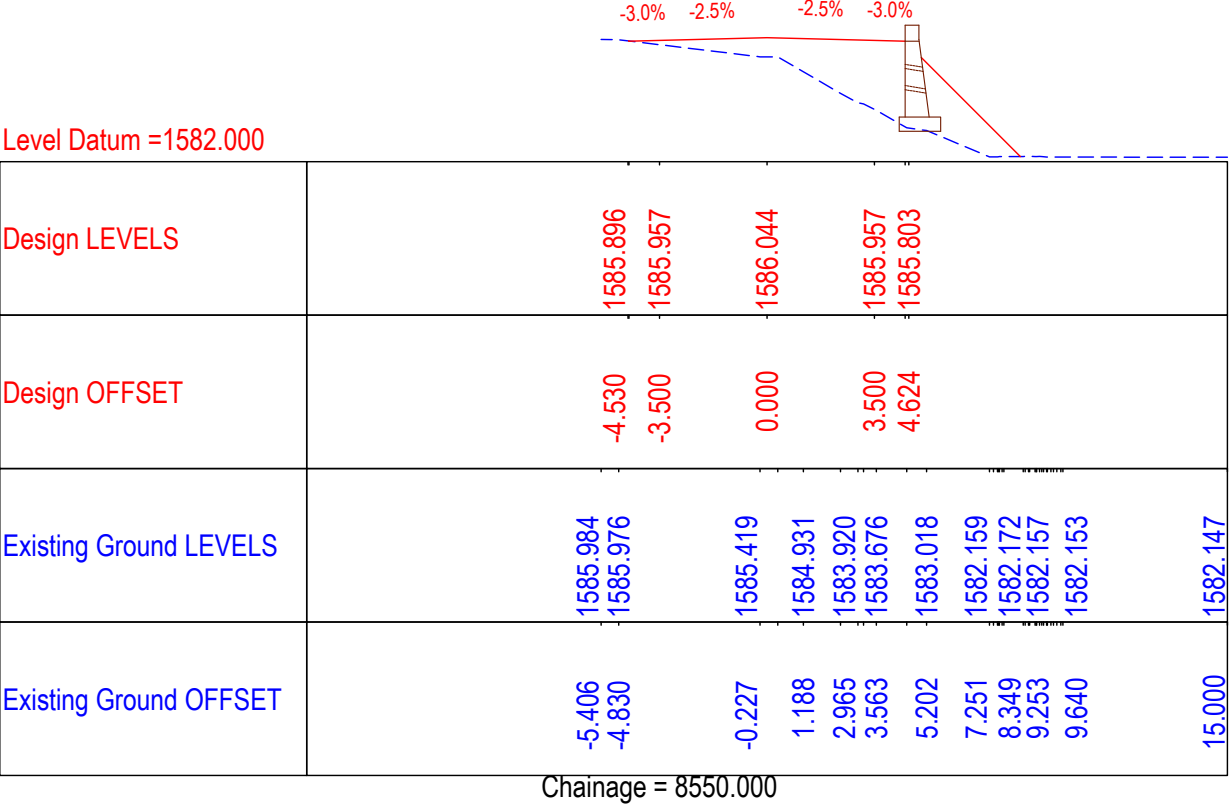
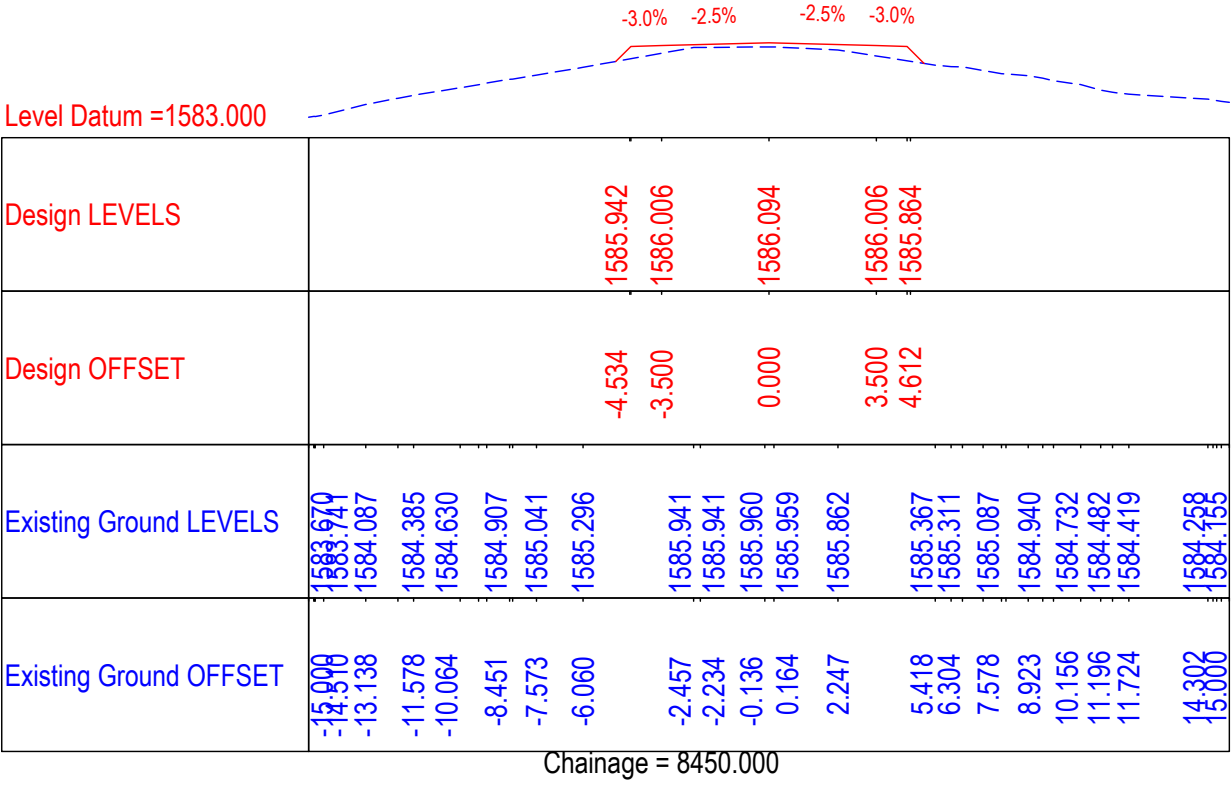


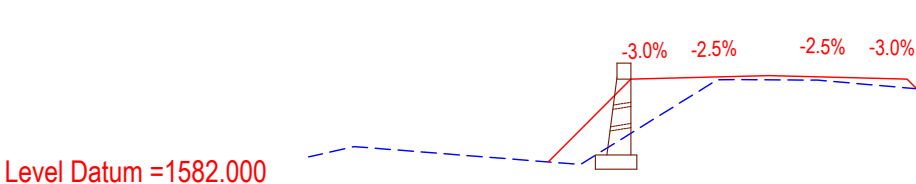
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Ph: 033-40347200
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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE	1 : 250

TITLE : Detailed Cross Section (Ch.8+100 to Ch.8+350)	
DRG. NO. : EPTISA/JTRFP/DPR/J&K/DCS/28	
REVISION : R-1	August 2019





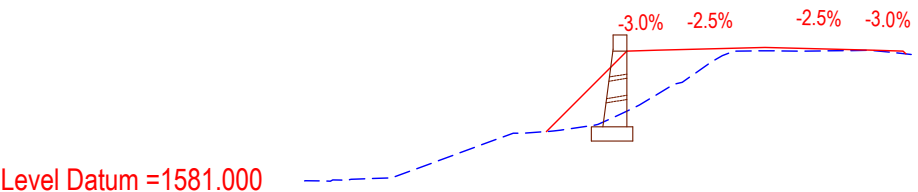
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Design OFFSET			-4.519	-3.500	-0.000	3.500	4.510
Existing Ground LEVELS	1583.201 1583.537		1582.959 1582.975	1585.715 1585.721	1585.703 1585.704	1585.426	
Existing Ground OFFSET	-15.000 -13.526		-6.207 -6.110	-1.684 -1.116	1.587 1.677	5.423	

Chainage = 8750.000



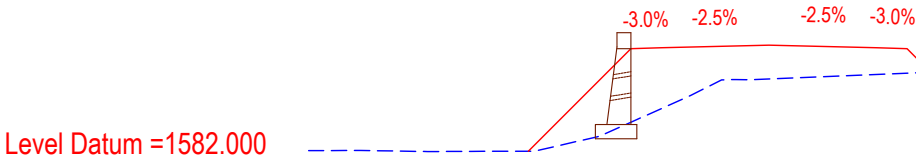
Design LEVELS			1585.766	1585.544	1585.631	1585.544	1585.779
Design OFFSET			-4.747	-3.500	-0.000	3.500	4.765
Existing Ground LEVELS		1585.326		1585.609 1585.608		1585.719	
Existing Ground OFFSET		-5.195		1.454 1.972		5.636	

Chainage = 8850.000



Design LEVELS			1585.900	1585.941	1586.029	1585.941	1585.898
Design OFFSET			-4.511	-3.500	0.000	3.500	4.513
Existing Ground LEVELS	1581.683 1581.733 1581.781		1583.237 1583.306 1583.493	1584.018 1584.825	1585.541 1585.907 1585.922	1585.936 1585.940	1585.801
Existing Ground OFFSET	-15.000 -13.487 -12.151		-8.206 -6.887 -5.562	-4.365 -2.982	-1.770 -1.024 -0.065	3.452 3.725	5.423

Chainage = 8950.000



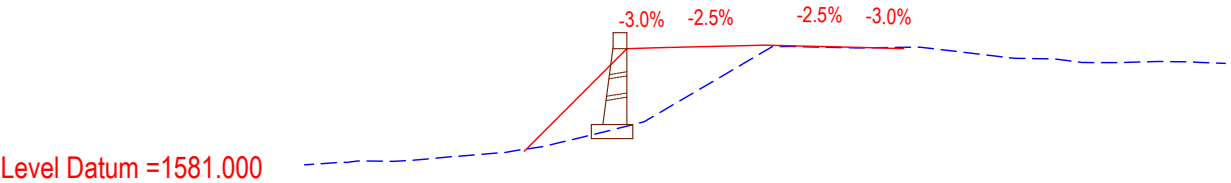
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Design OFFSET			-4.516	-3.500	-0.000	3.500	4.509
Existing Ground LEVELS	1582.525 1582.532 1582.496		1582.506 1582.970 1582.995	1584.318 1584.844 1584.835		1585.062 1585.062	
Existing Ground OFFSET	-15.000 -13.307 -11.124		-7.651 -5.622 -5.519	-2.560 -1.074 -0.635		3.974 5.423	

Chainage = 8700.000



Design LEVELS			1585.655	1585.636	1585.723	1585.636	1585.685
Design OFFSET			-4.549	-3.500	-0.000	3.500	4.579
Existing Ground LEVELS		1585.490		1585.679		1585.735 1585.740	
Existing Ground OFFSET		-5.195		1.692		4.150 4.471	

Chainage = 8800.000



Design LEVELS			1585.695	1585.660	1585.747	1585.660	1585.671
Design OFFSET			-4.565	-3.500	-0.000	3.500	4.541
Existing Ground LEVELS	1581.844 1581.970 1581.990		1582.109 1582.231 1582.427	1582.603 1582.934 1583.247		1585.696 1585.702	1585.315
Existing Ground OFFSET	-15.000 -13.278 -11.506		-8.698 -7.300 -6.543	-5.181 -3.944	0.236 0.882	2.944 3.110	8.125 9.438

Chainage = 8900.000

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:

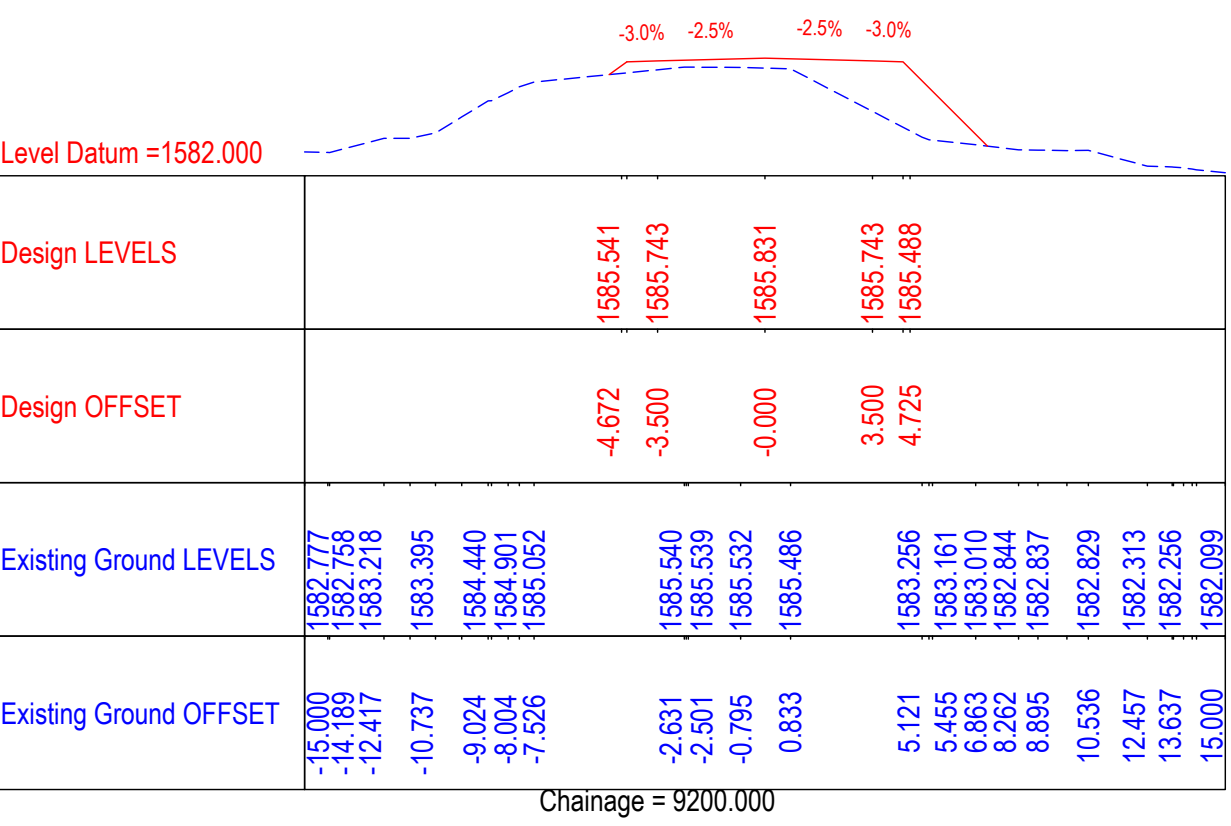
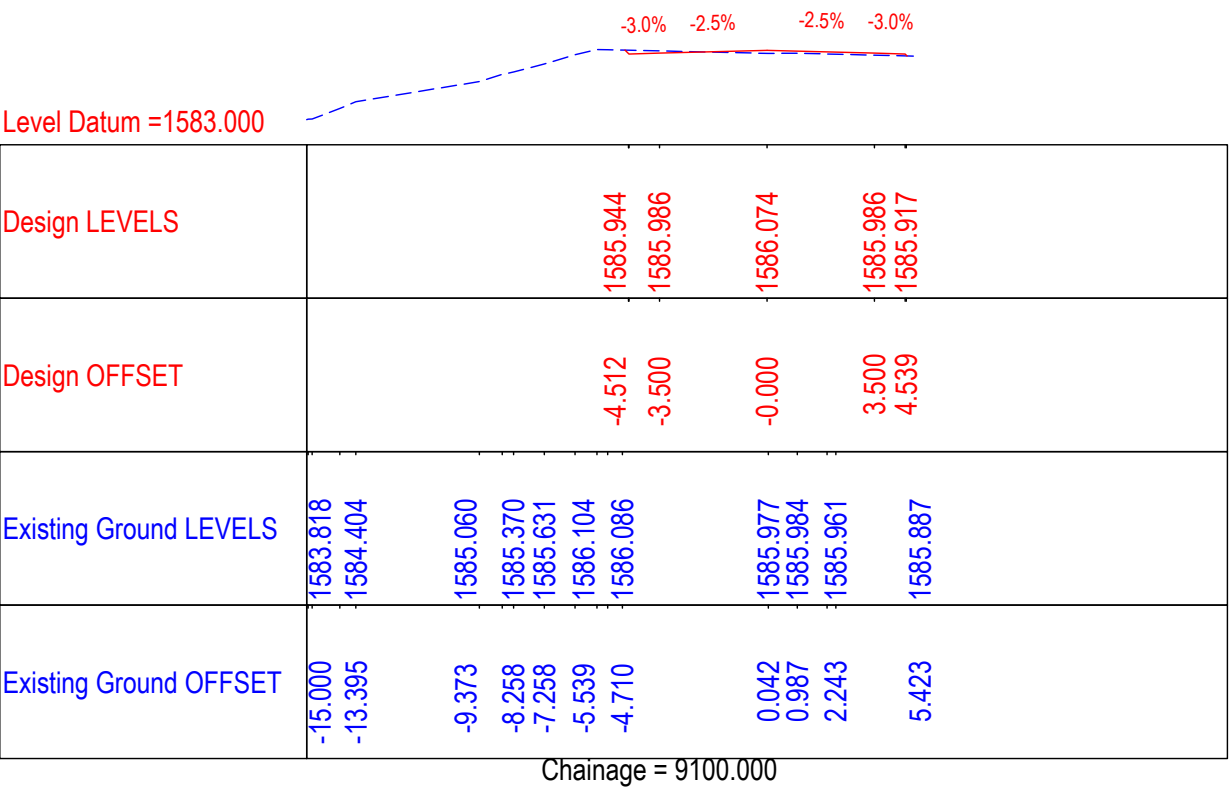
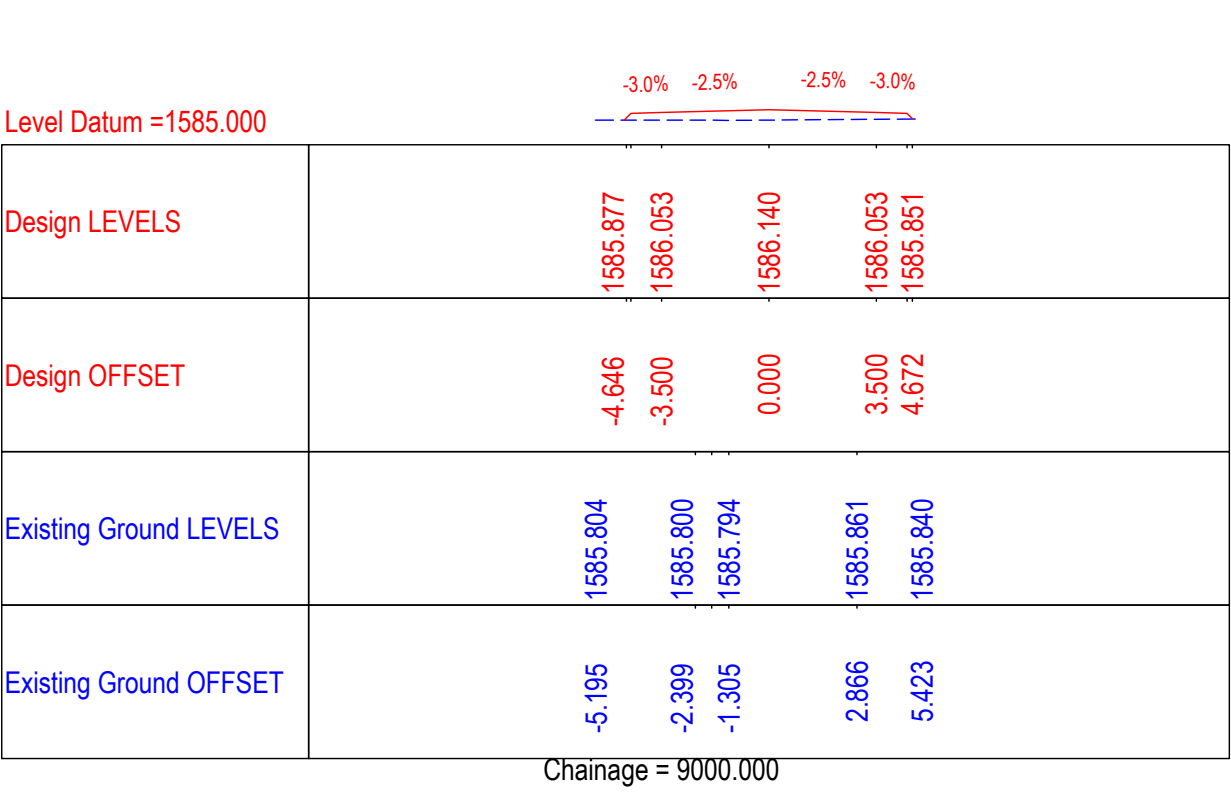
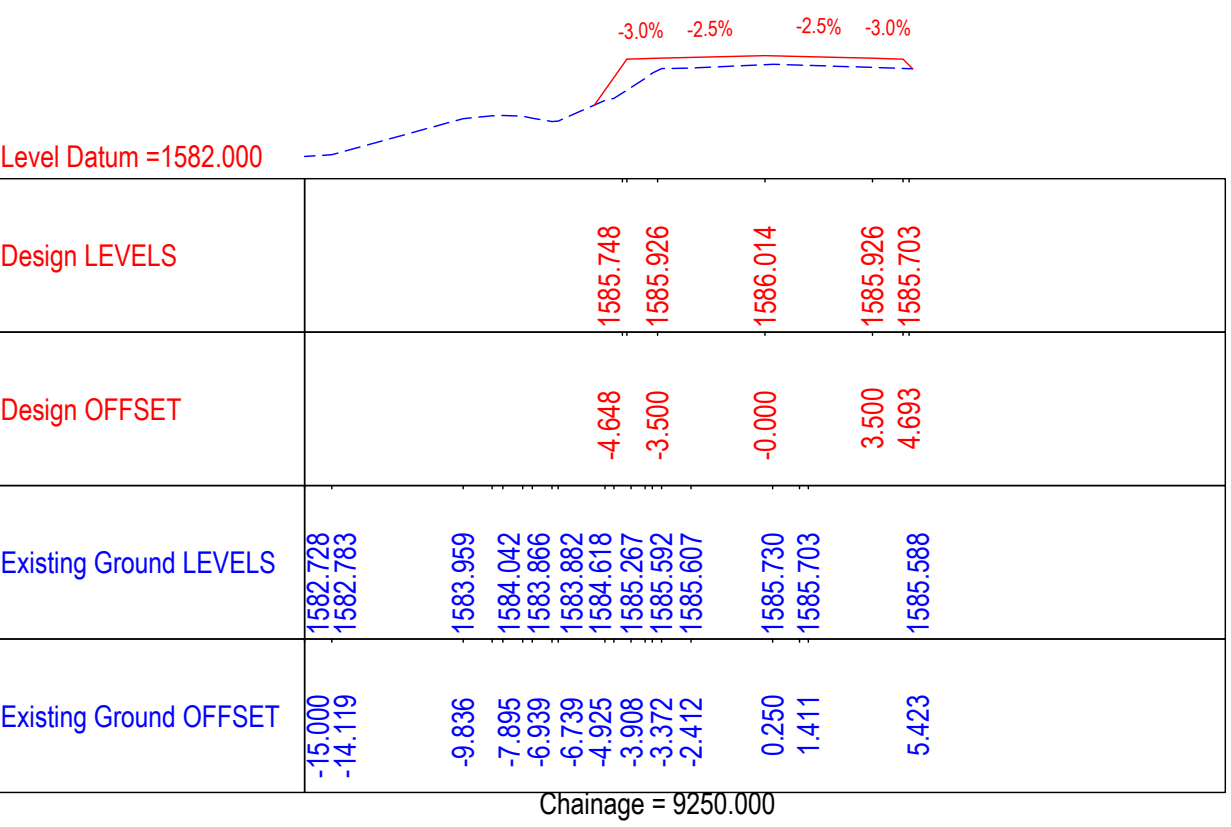
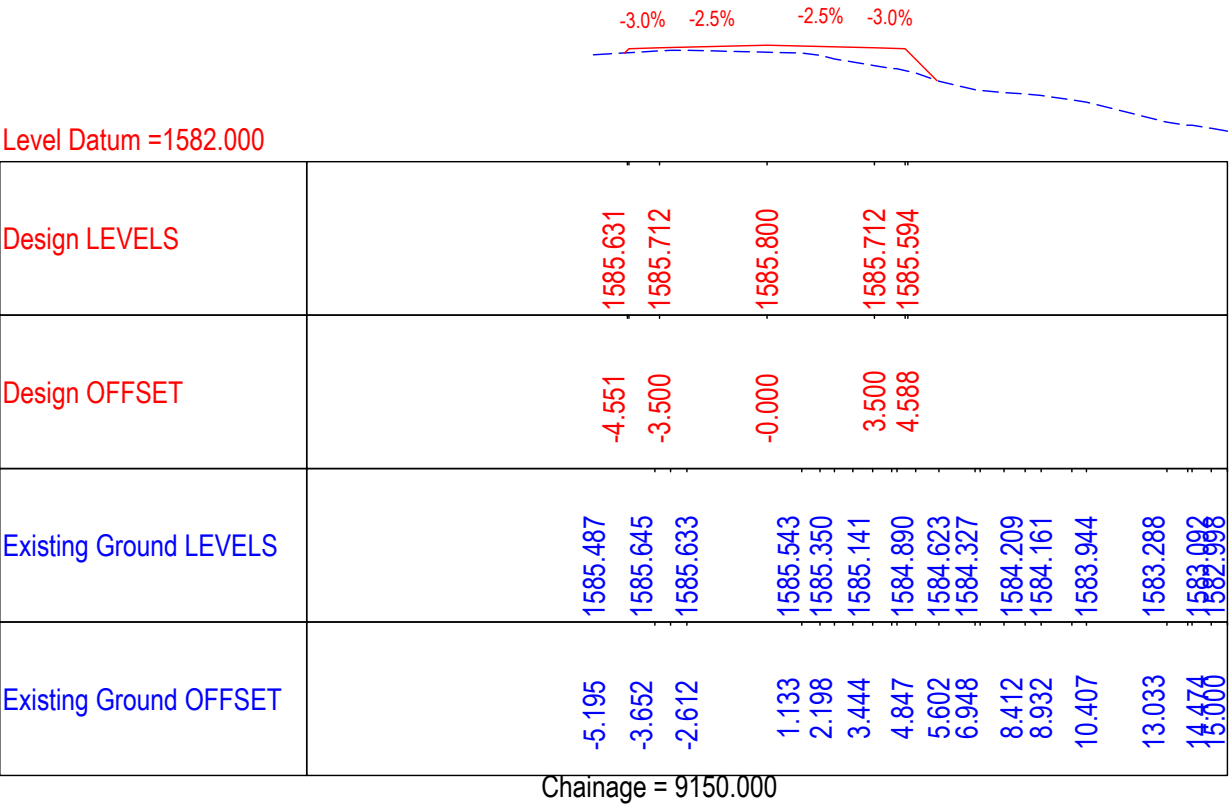
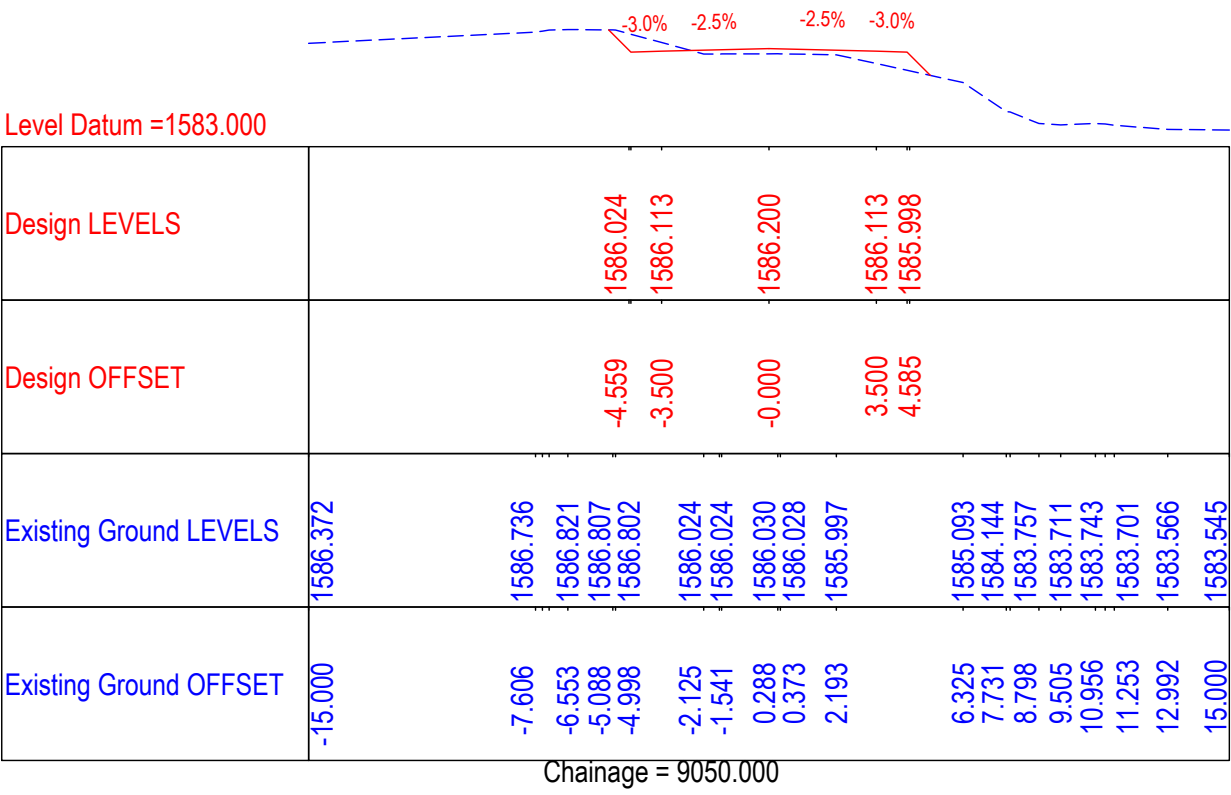


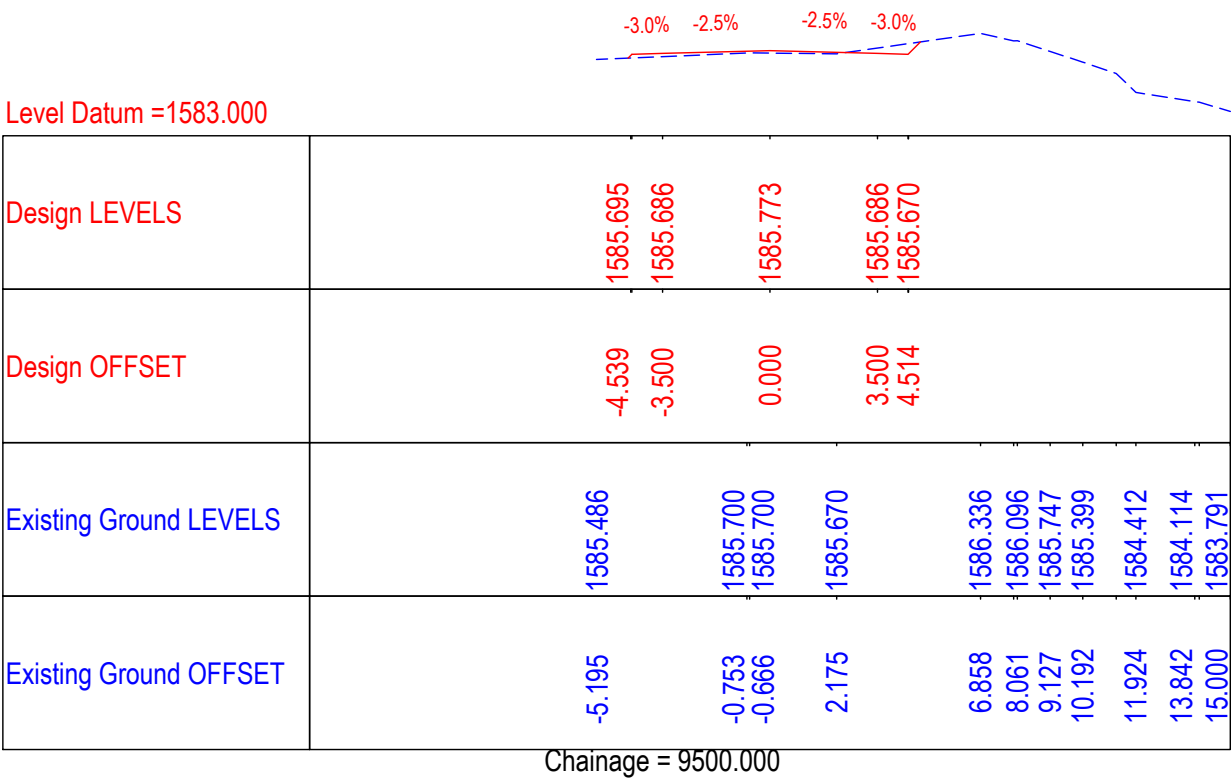
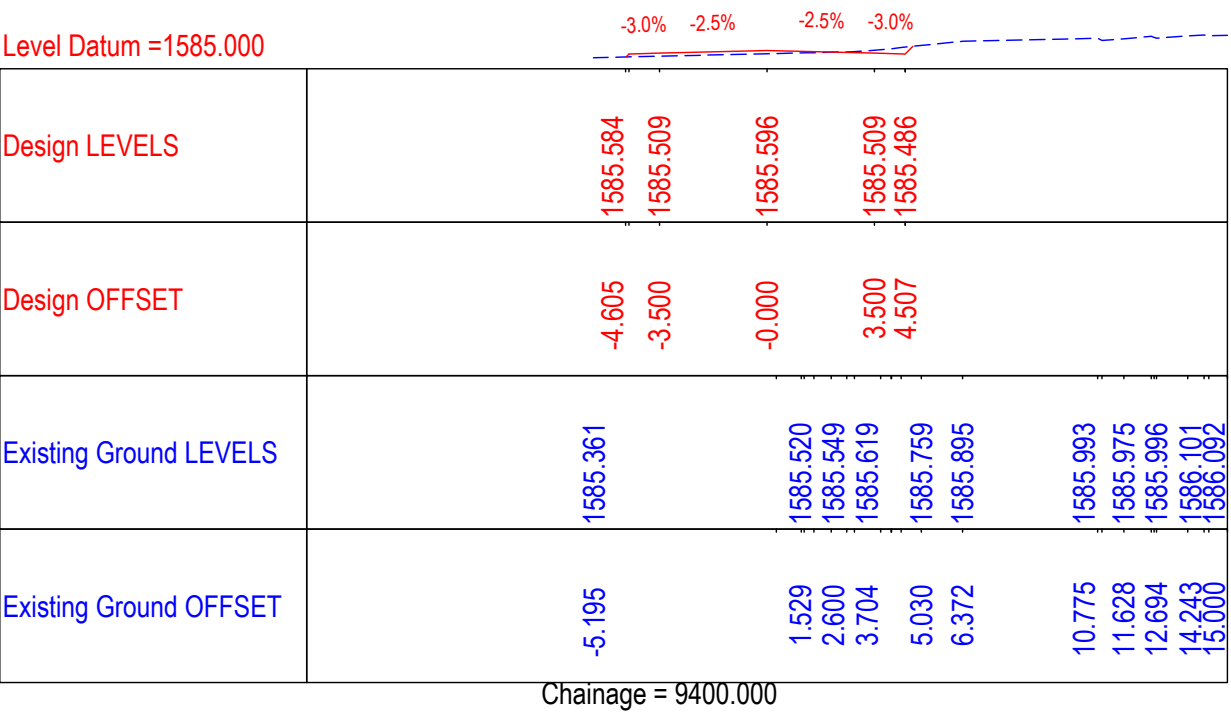
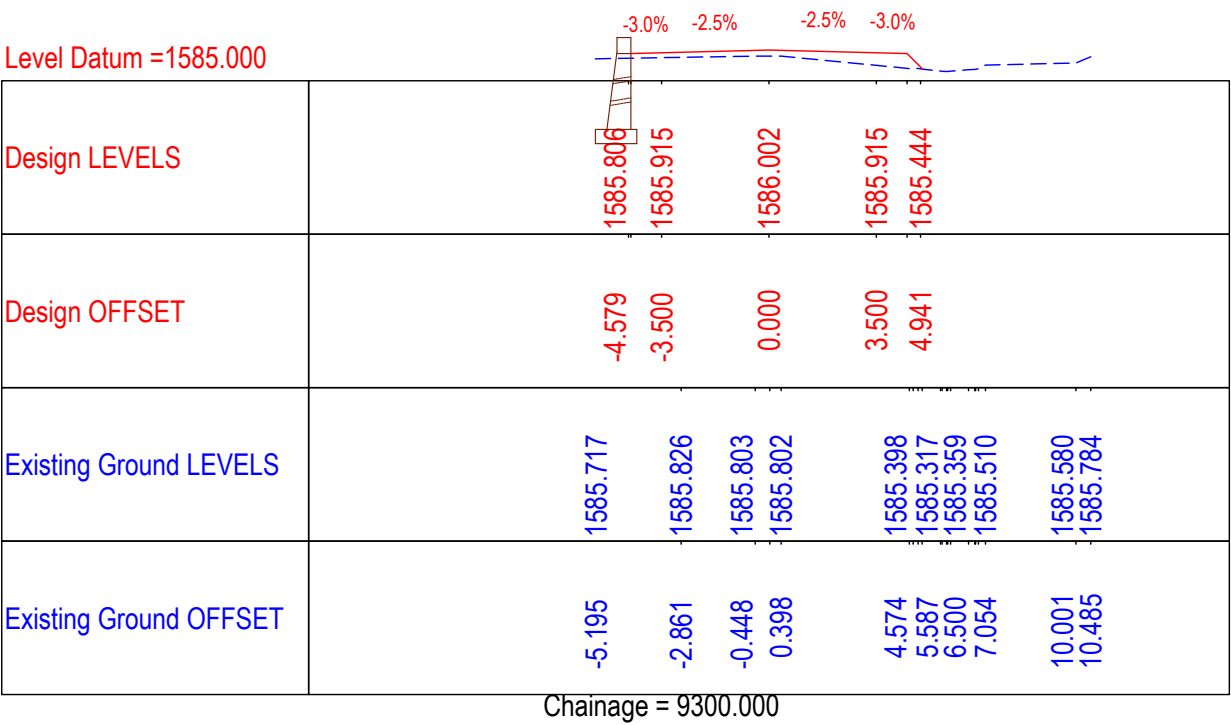
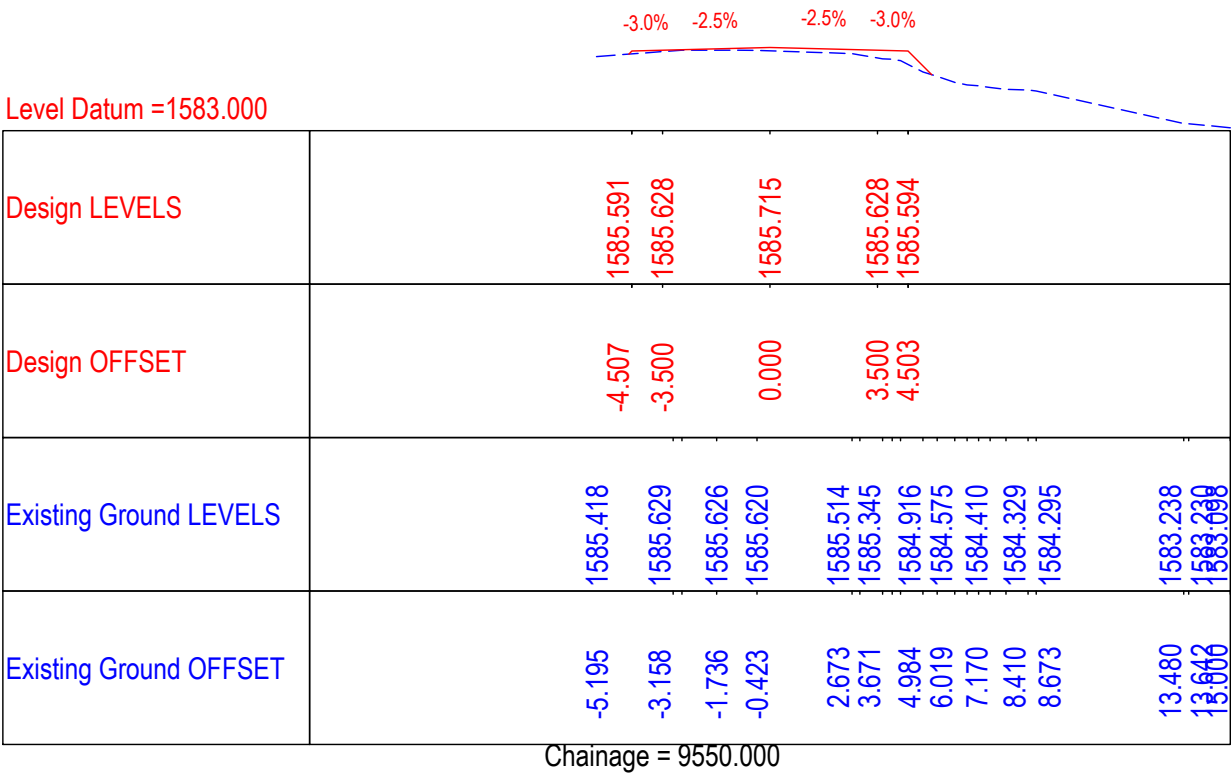
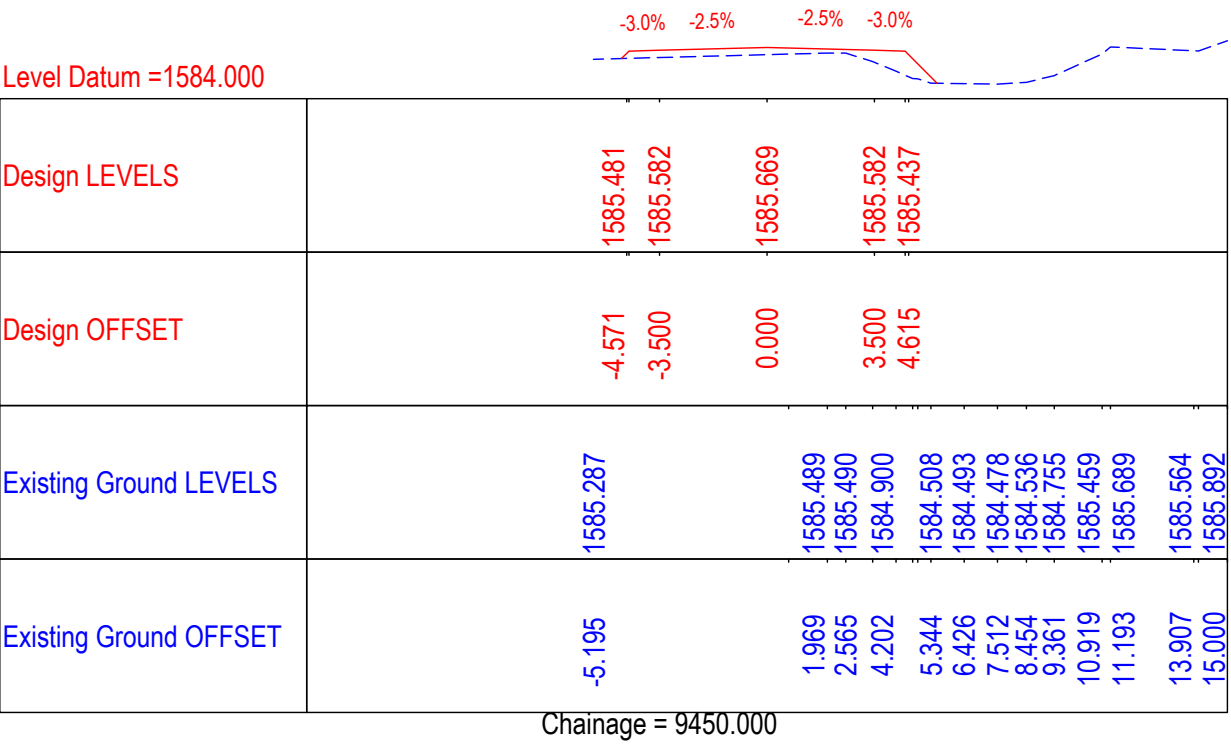
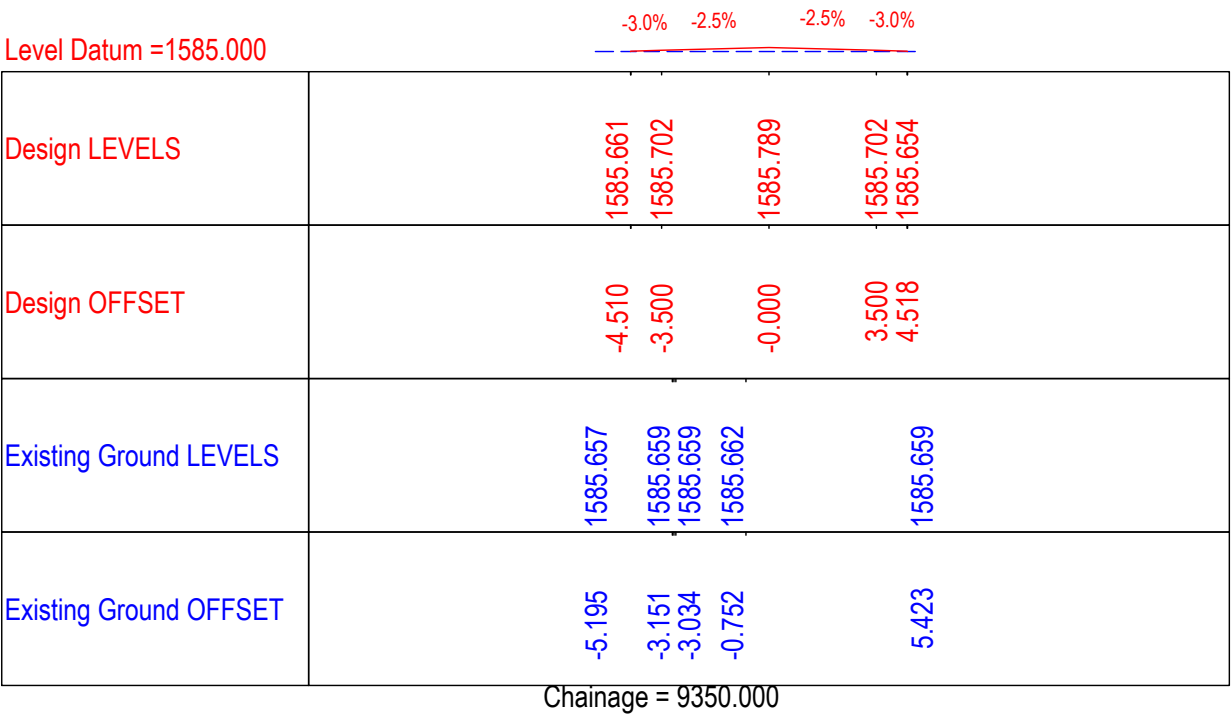
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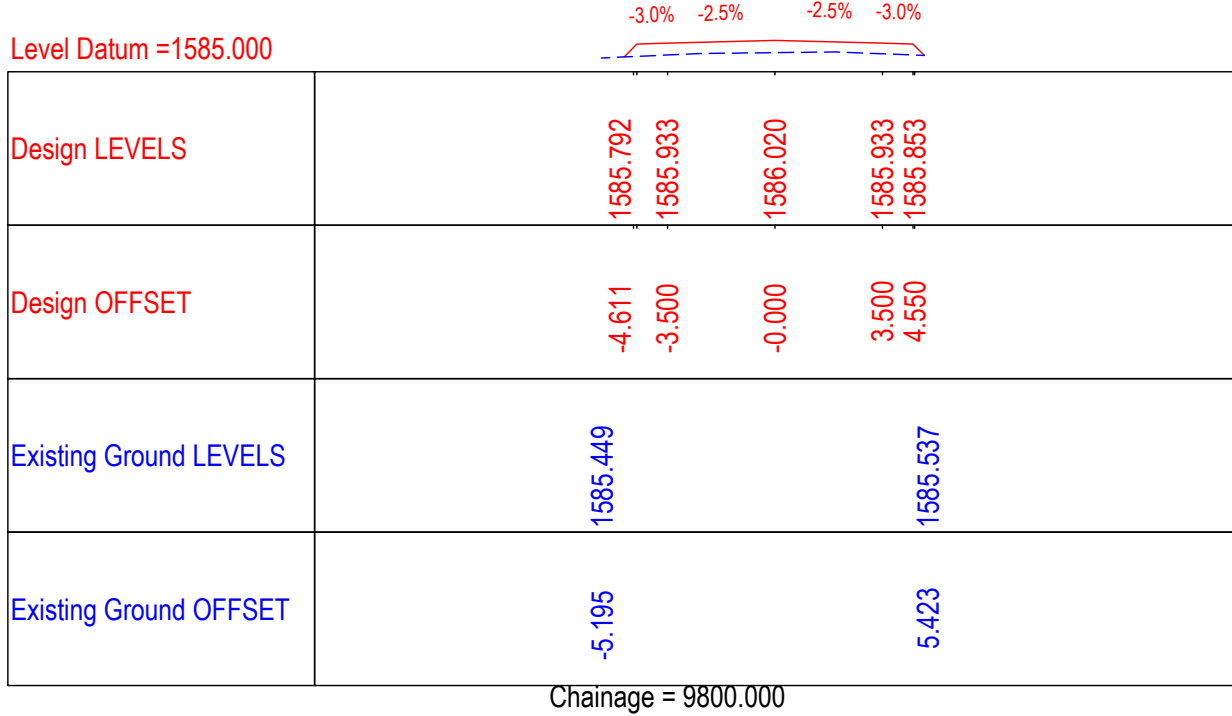
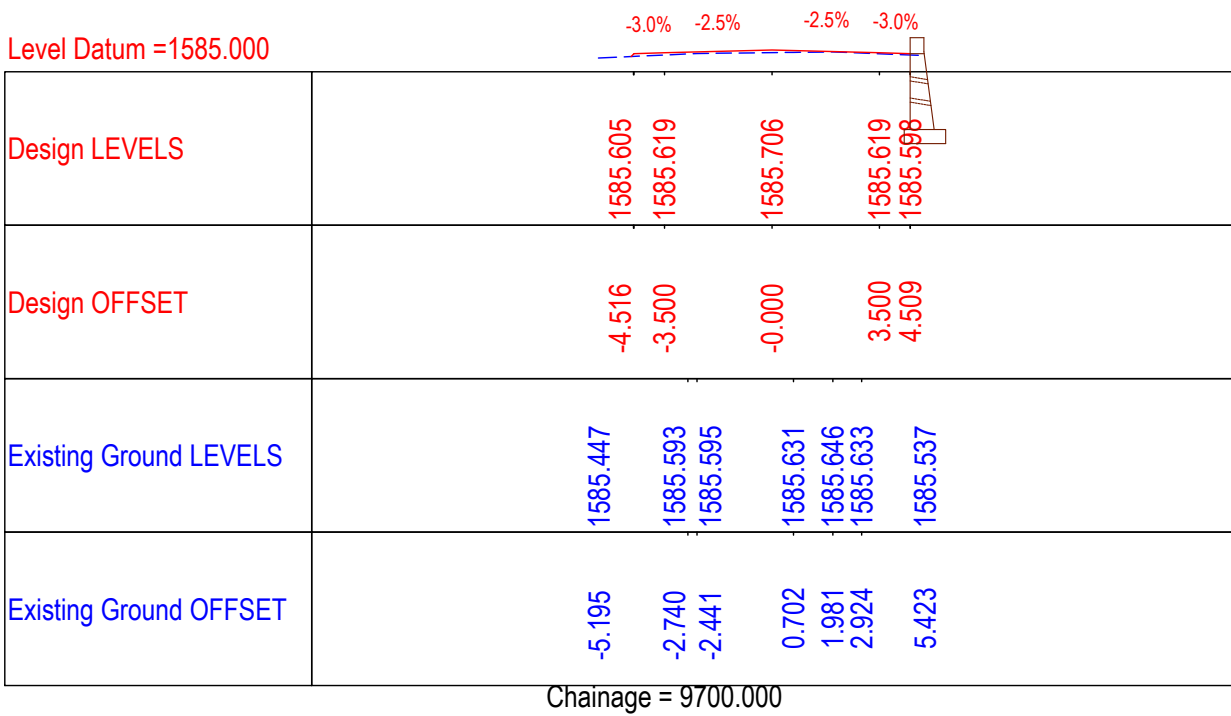
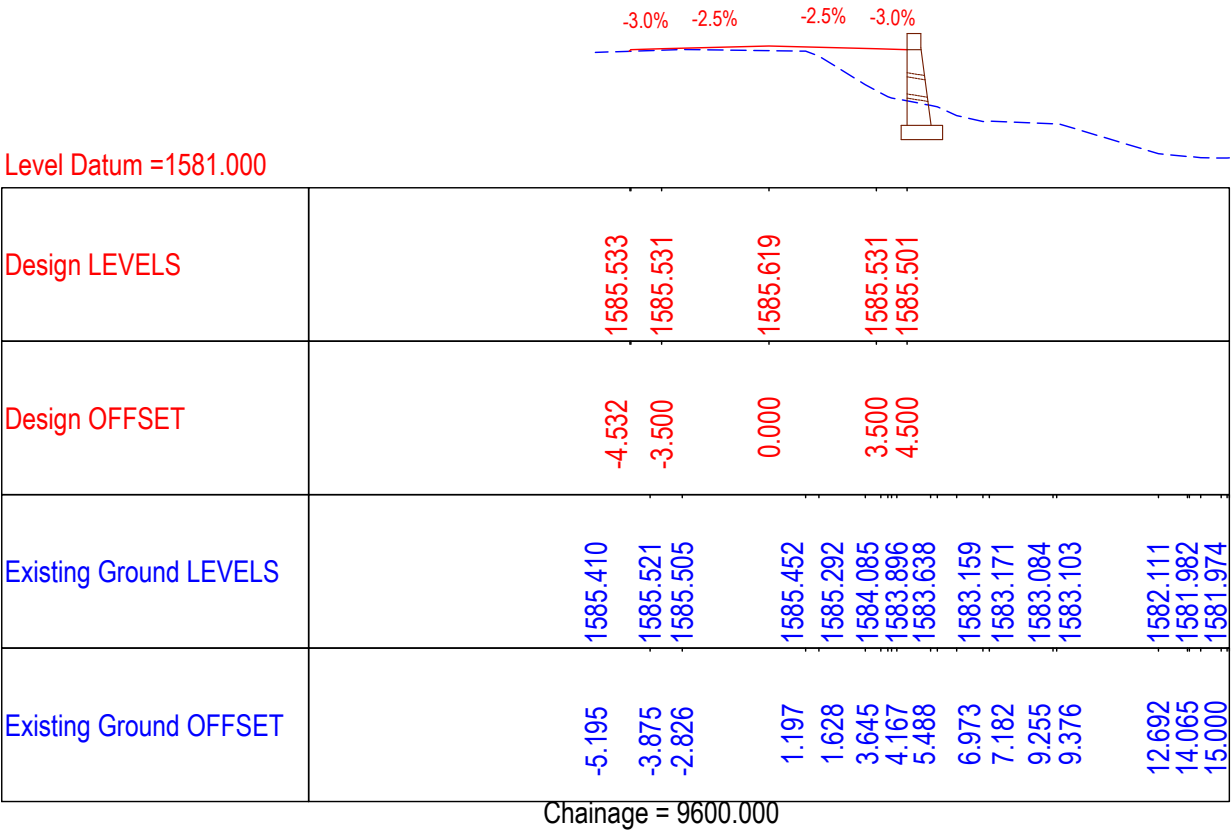
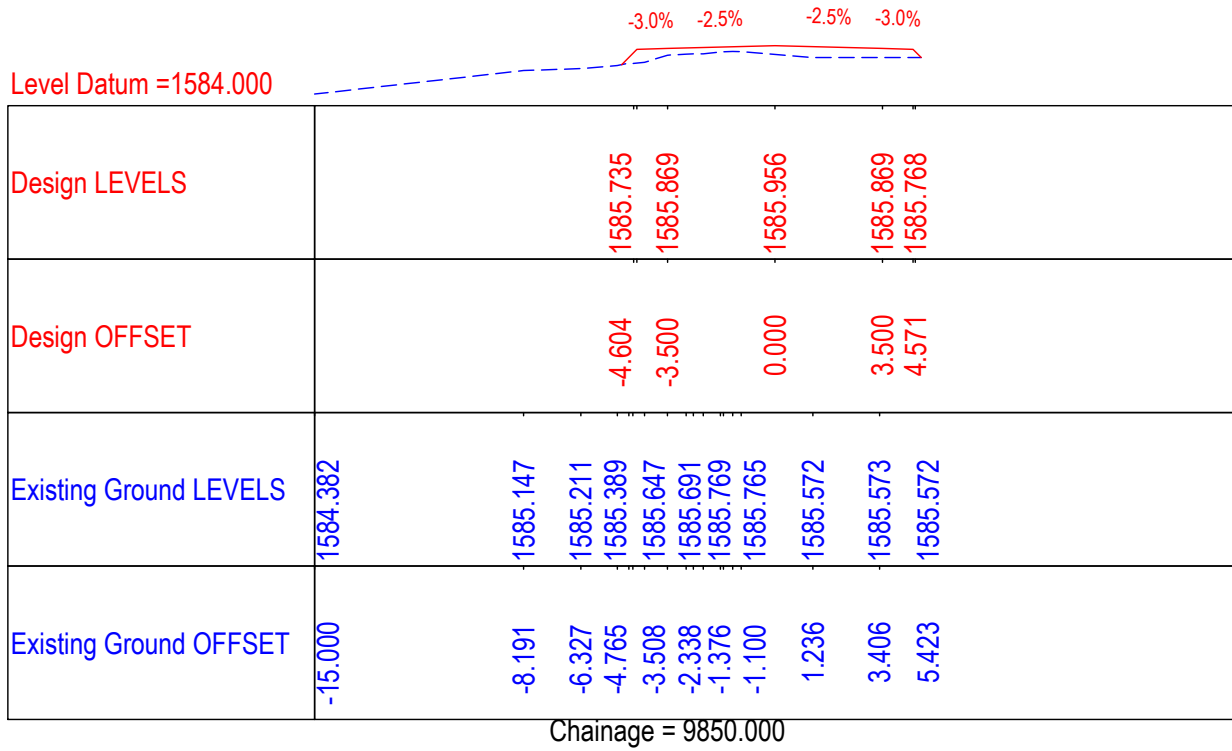
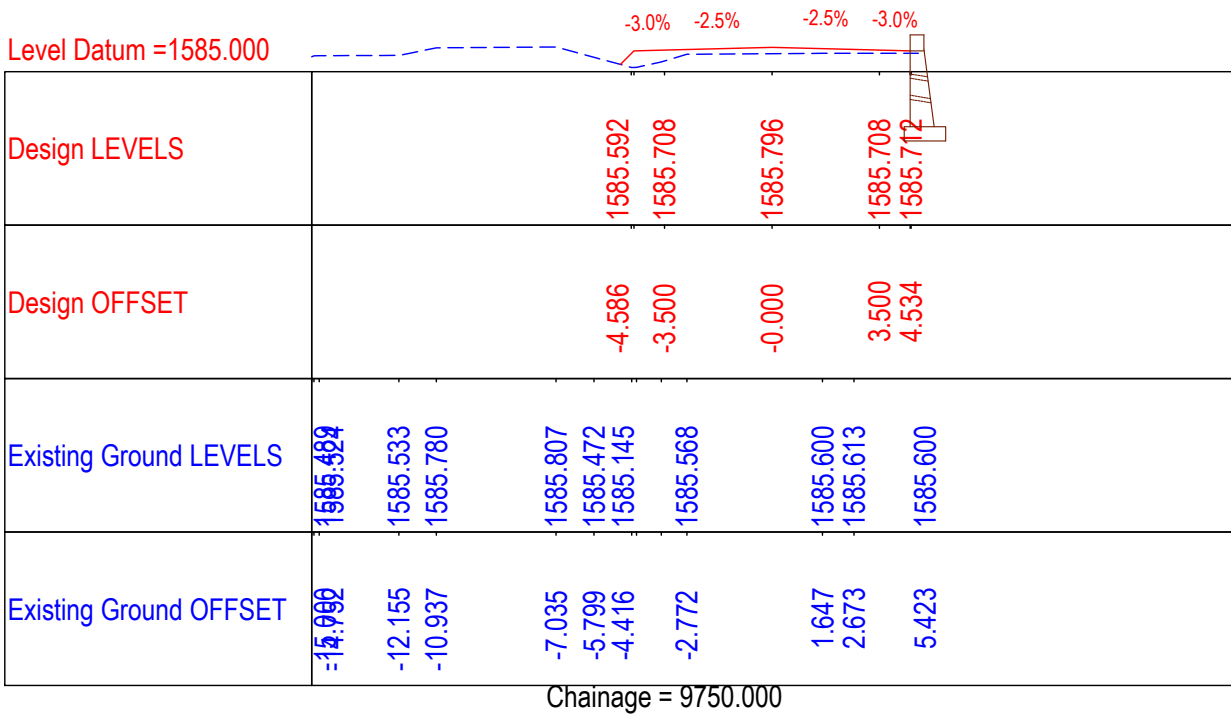
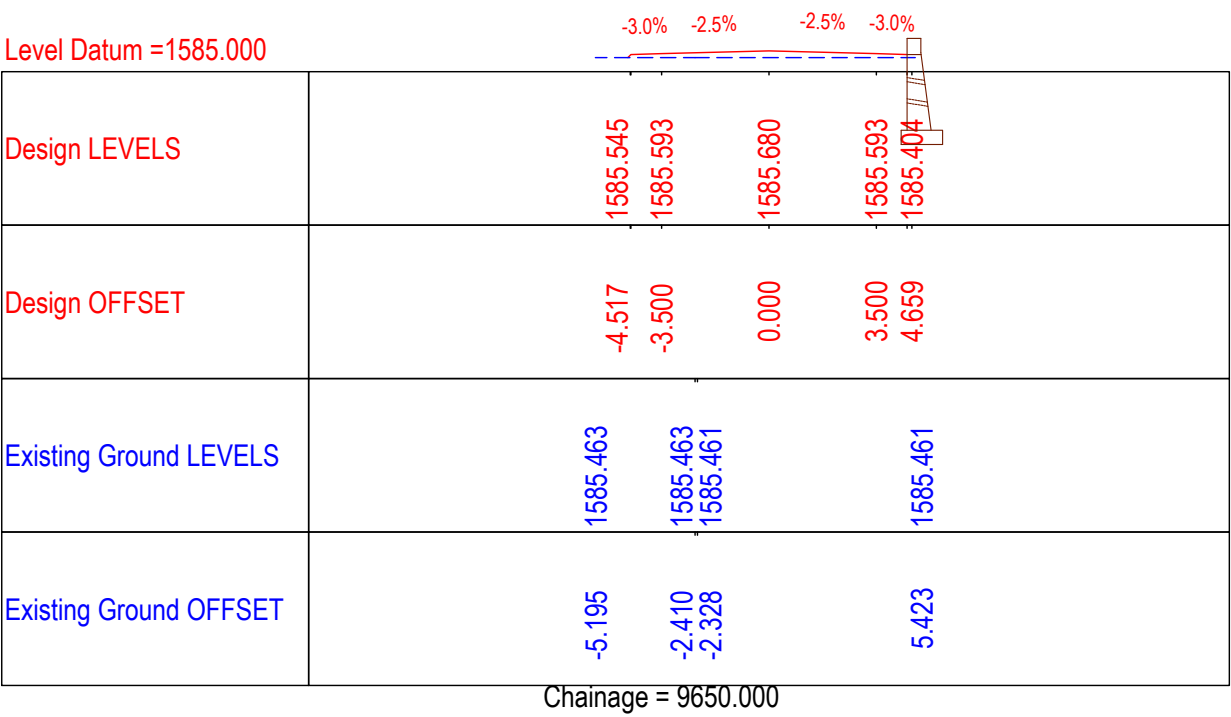
REV.	DATE	DESCRIPTION

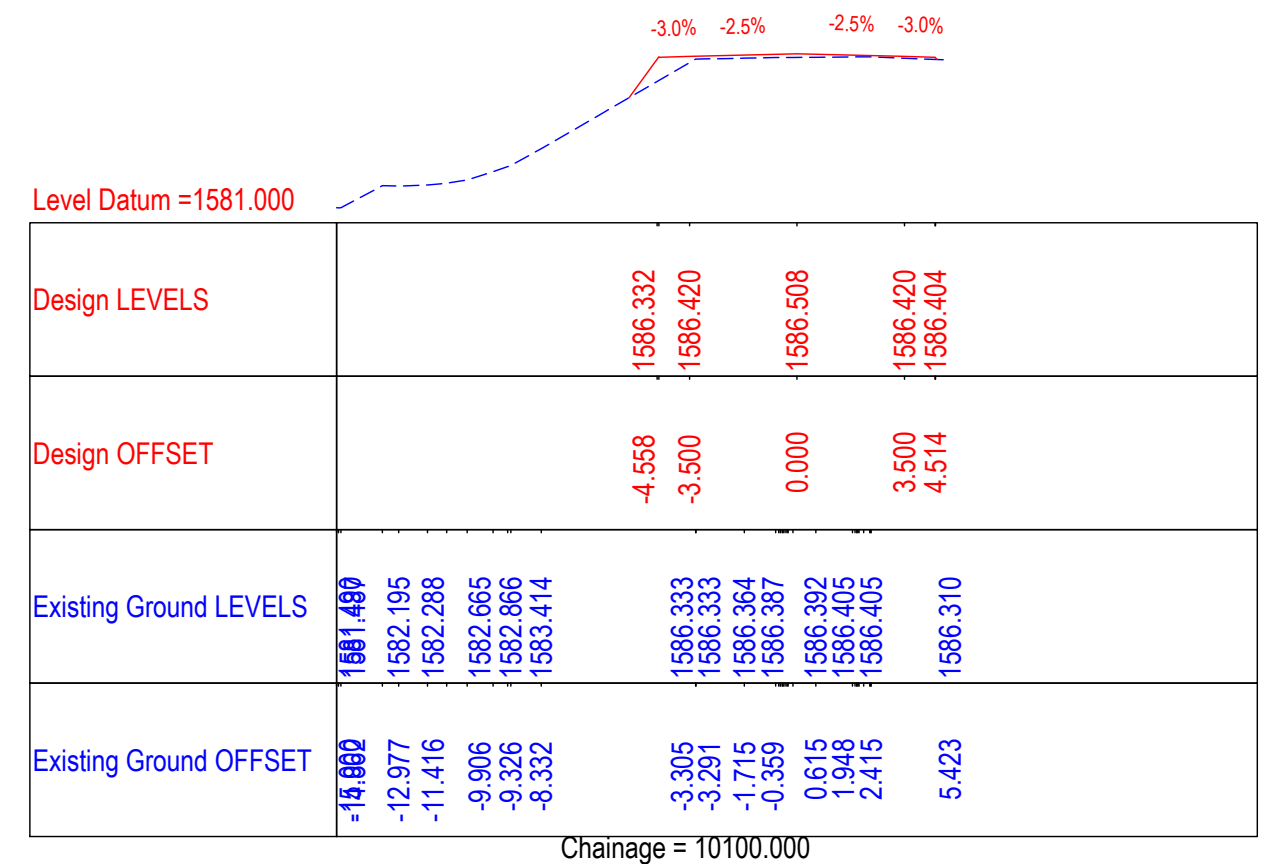
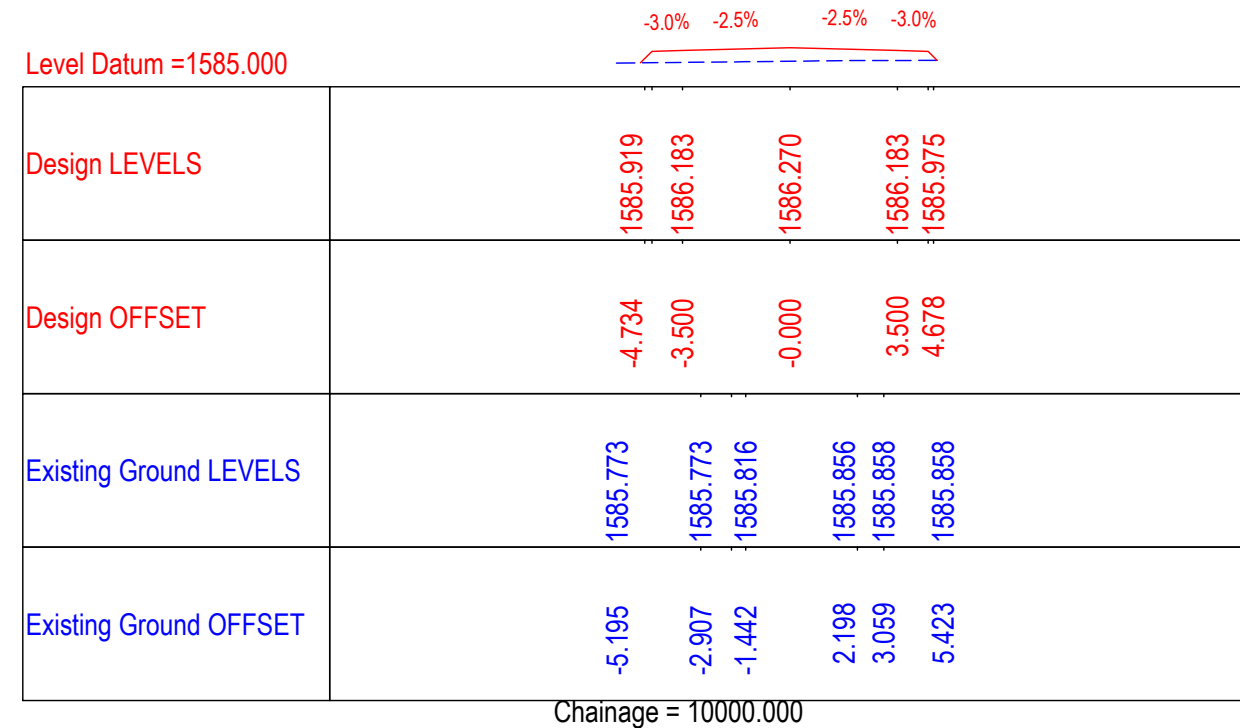
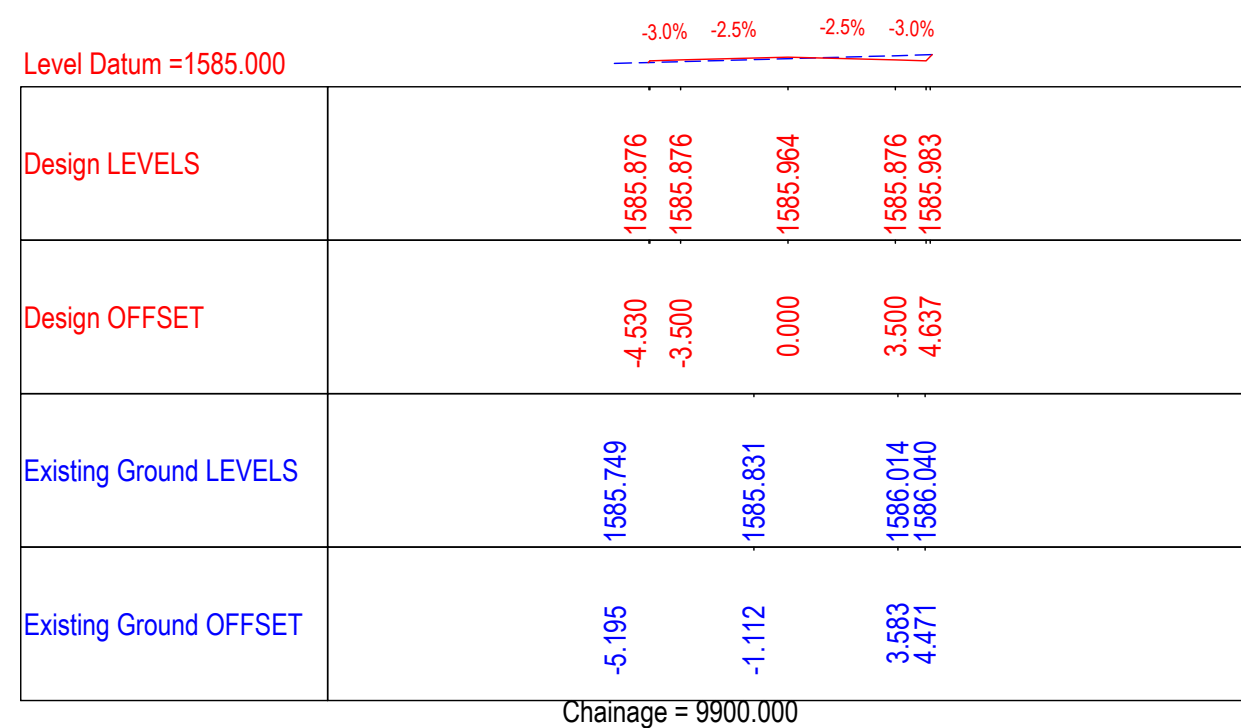
DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE	1 : 250

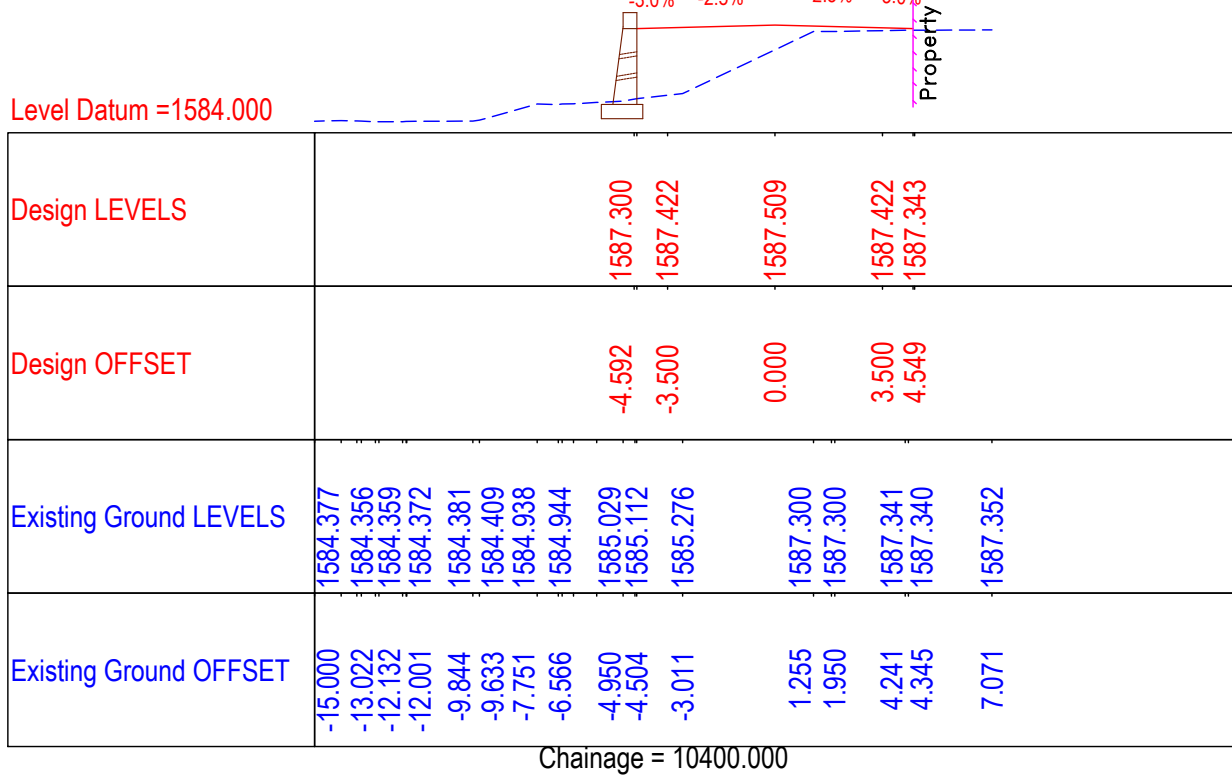
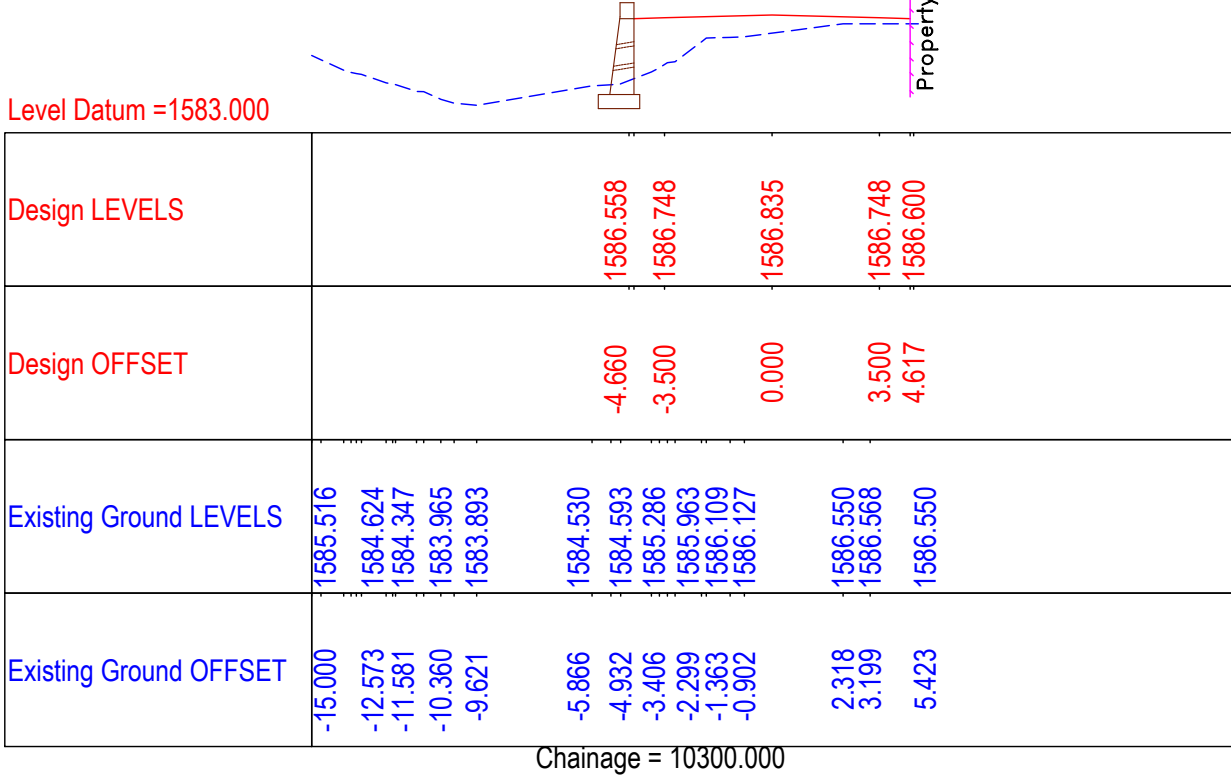
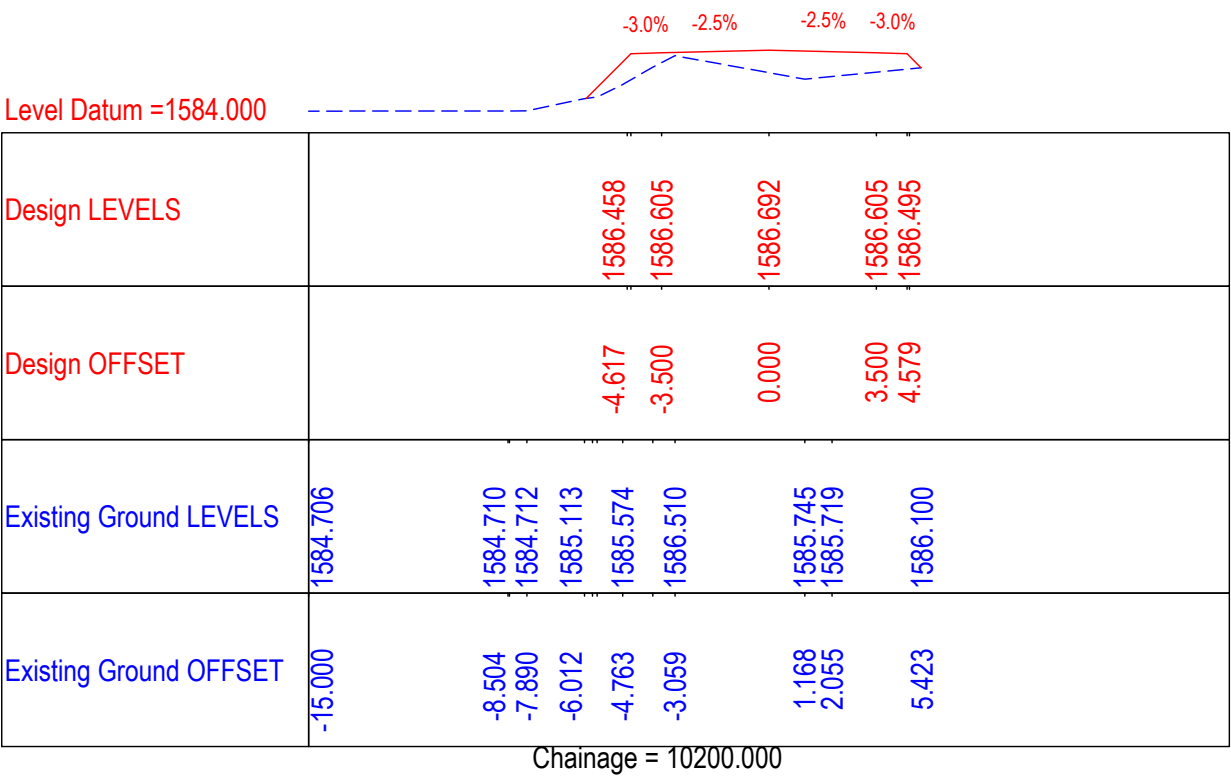
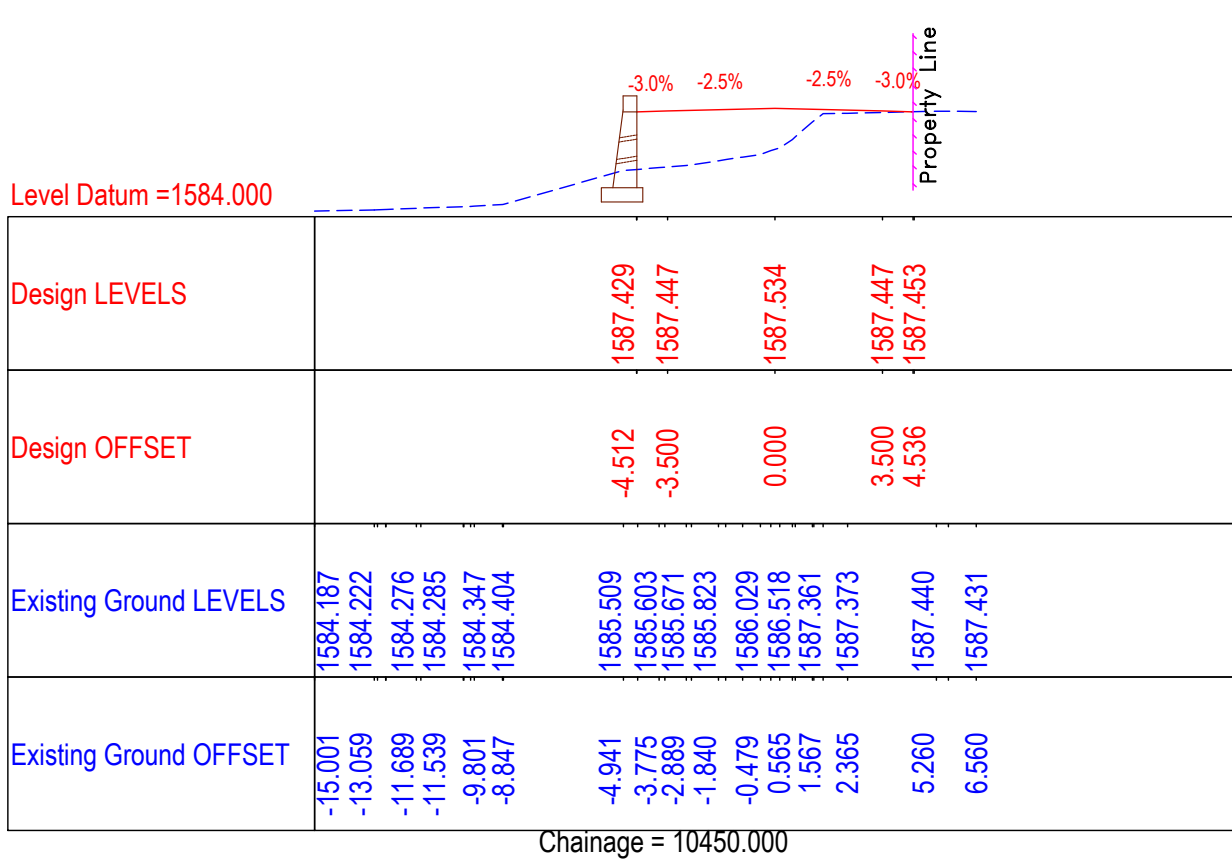
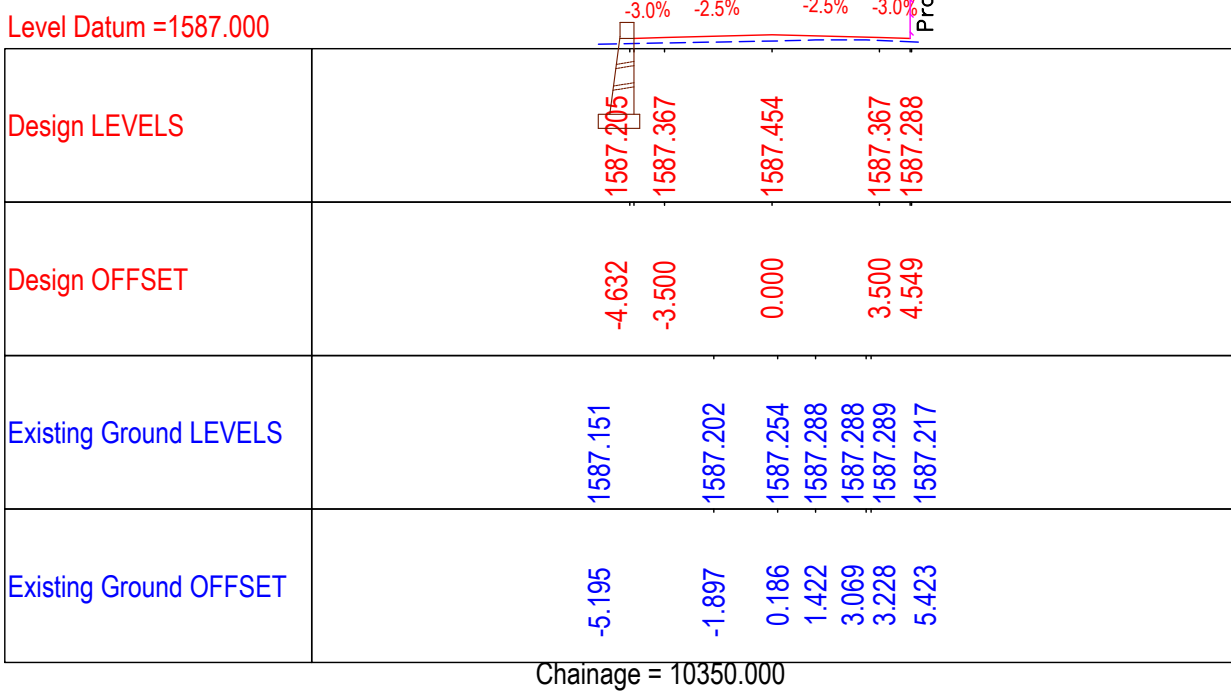
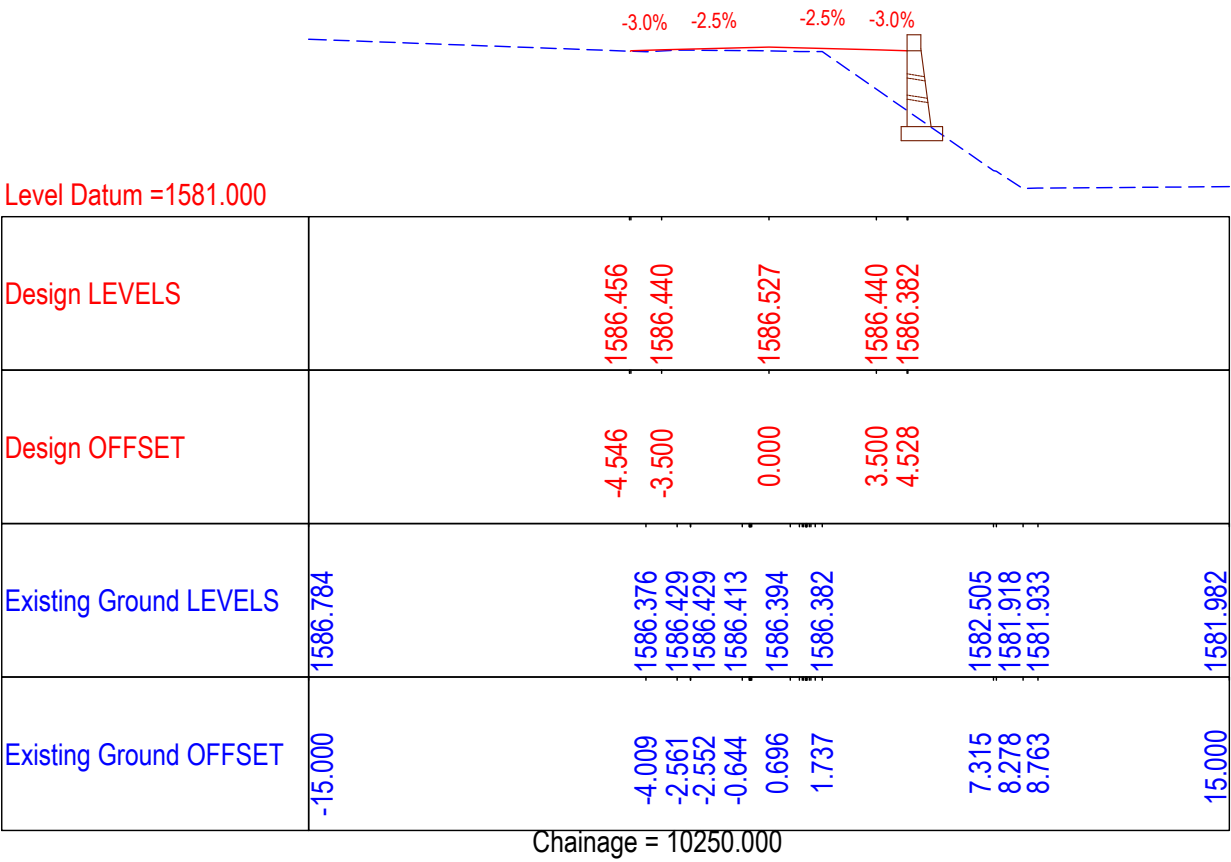
TITLE :	Detailed Cross Section (Ch.8+700 to Ch.8+950)
DRG. NO. :	EPTISA/JTRP/DPR/J&K/DCS/30
REVISION : R-1	August 2019

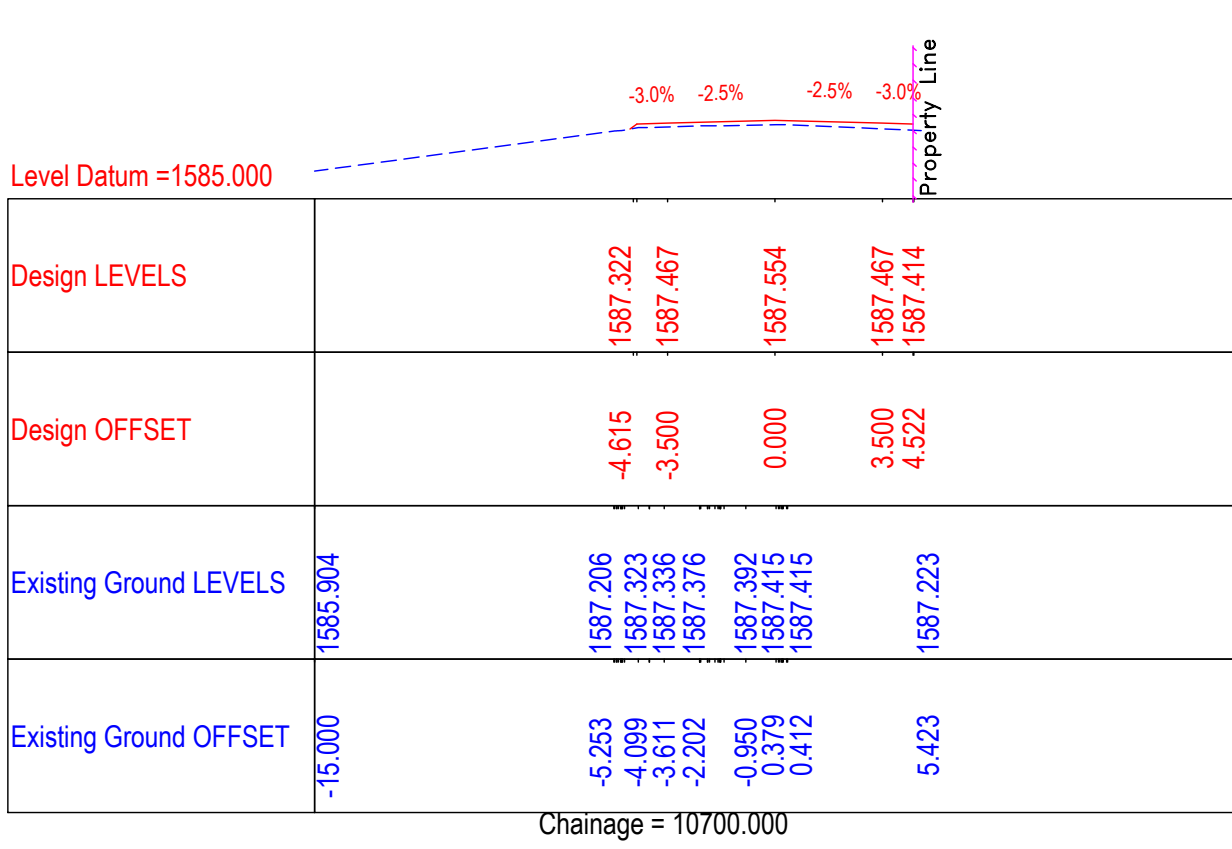
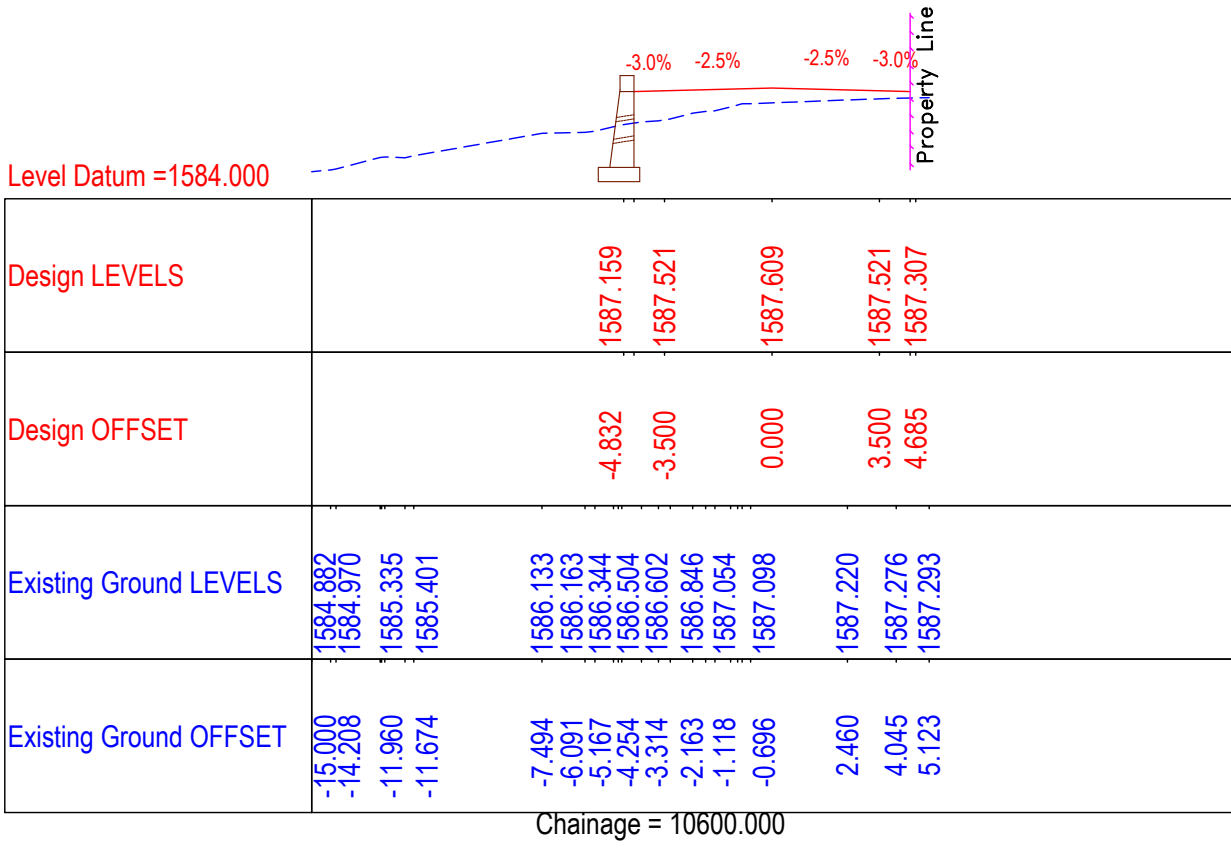
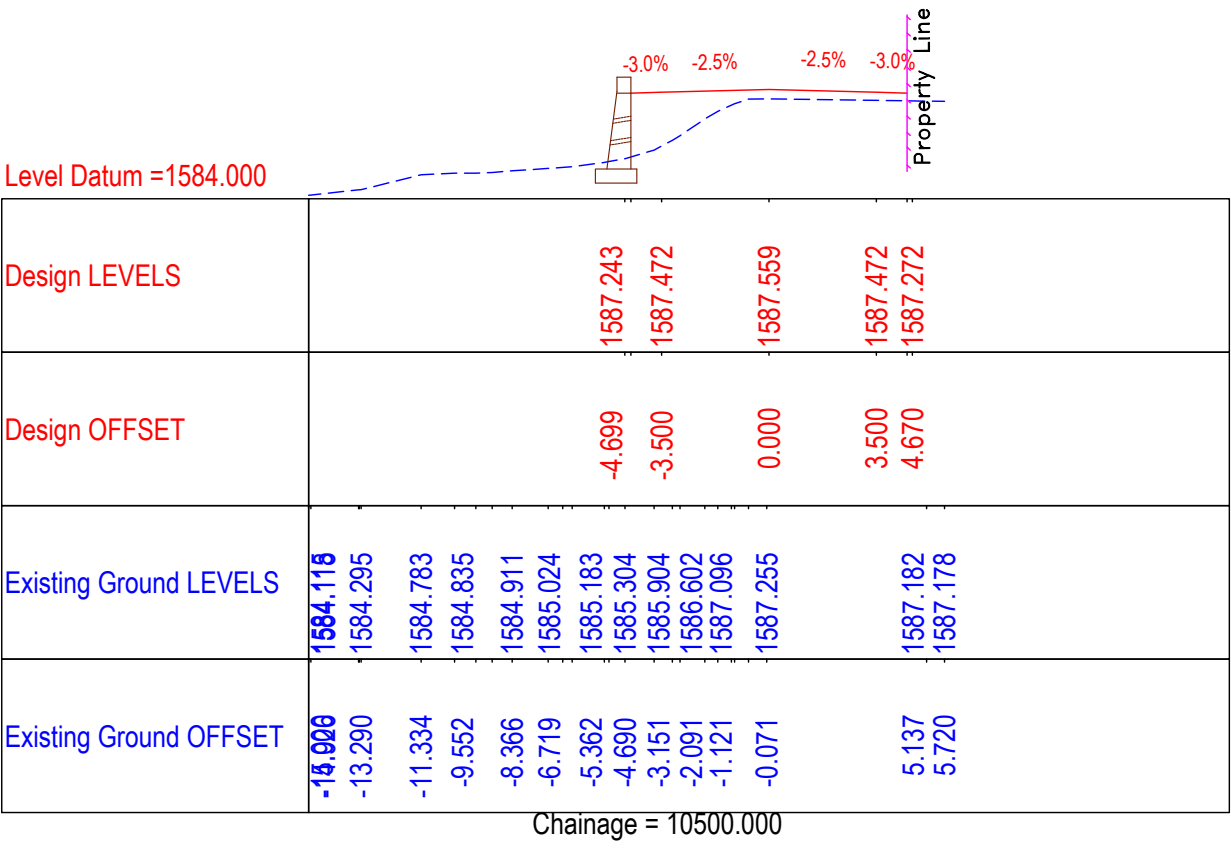
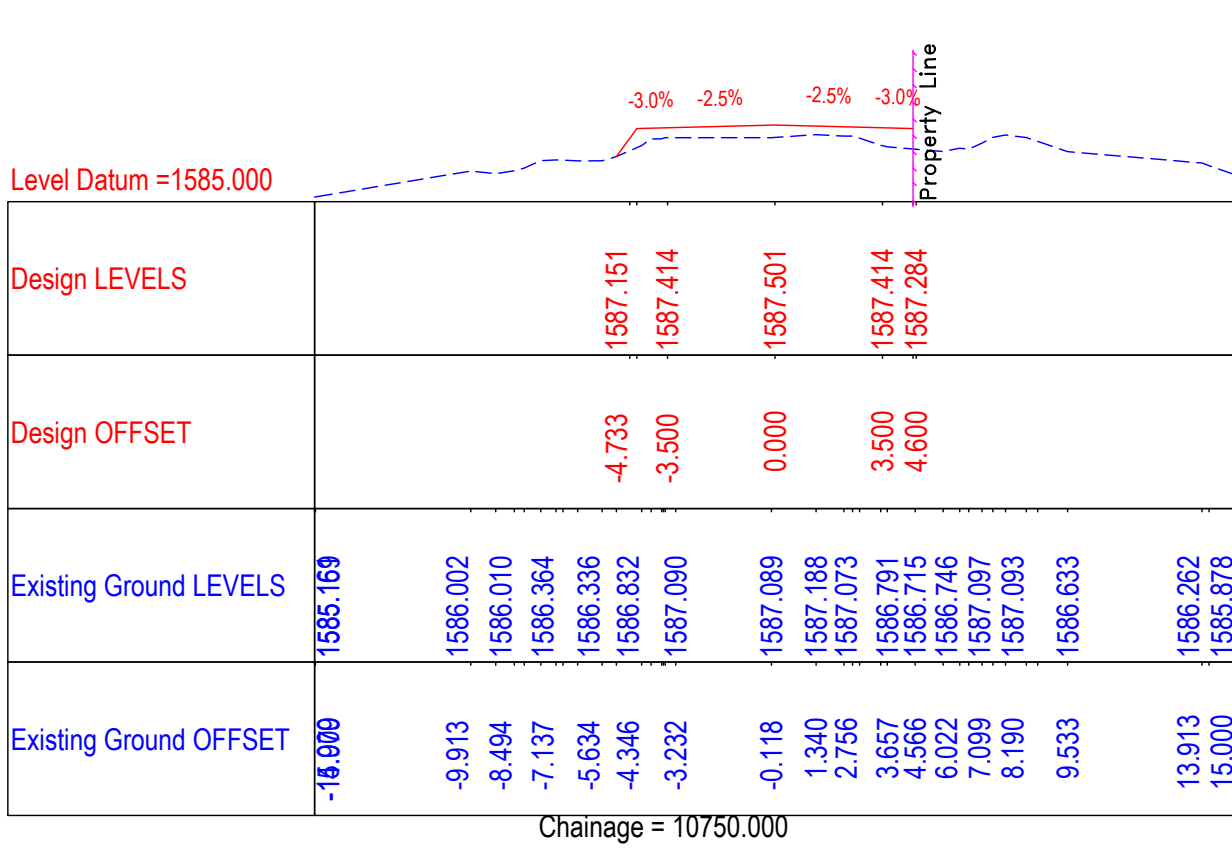
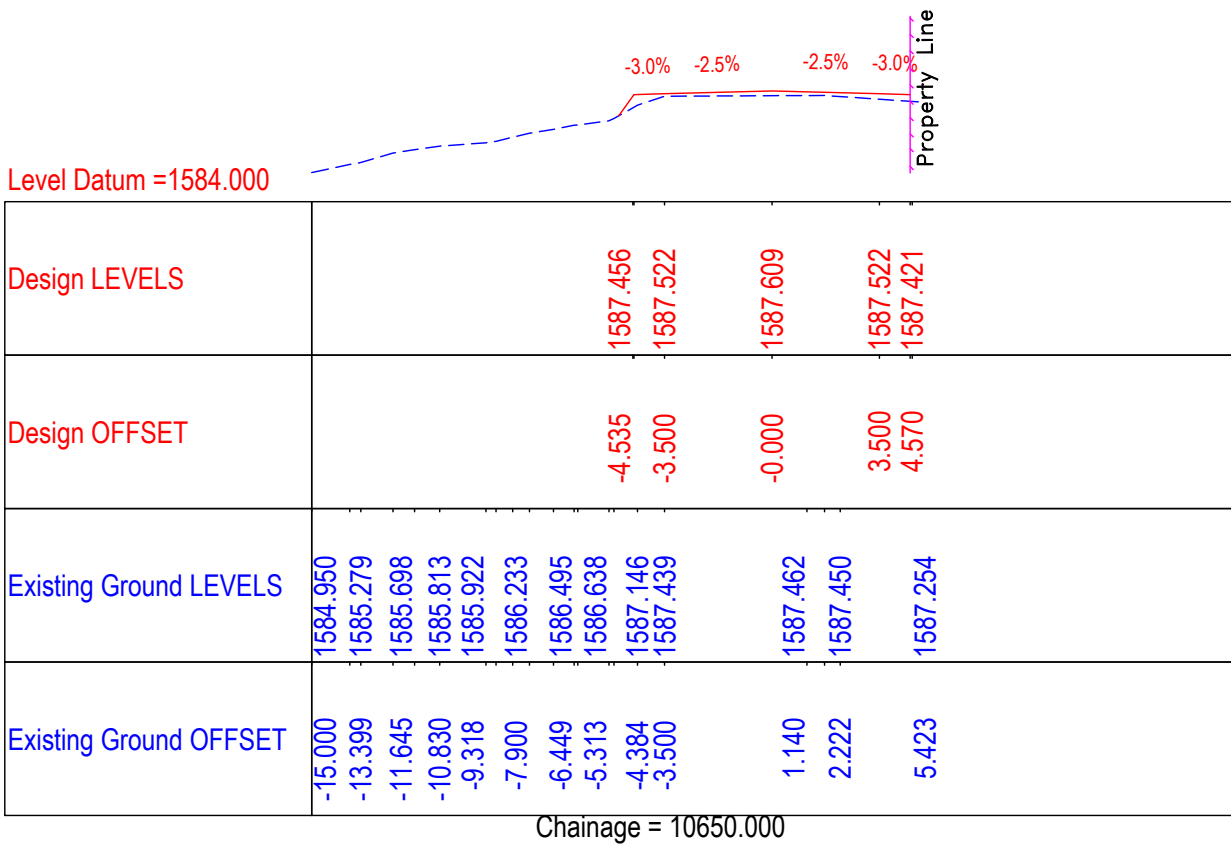
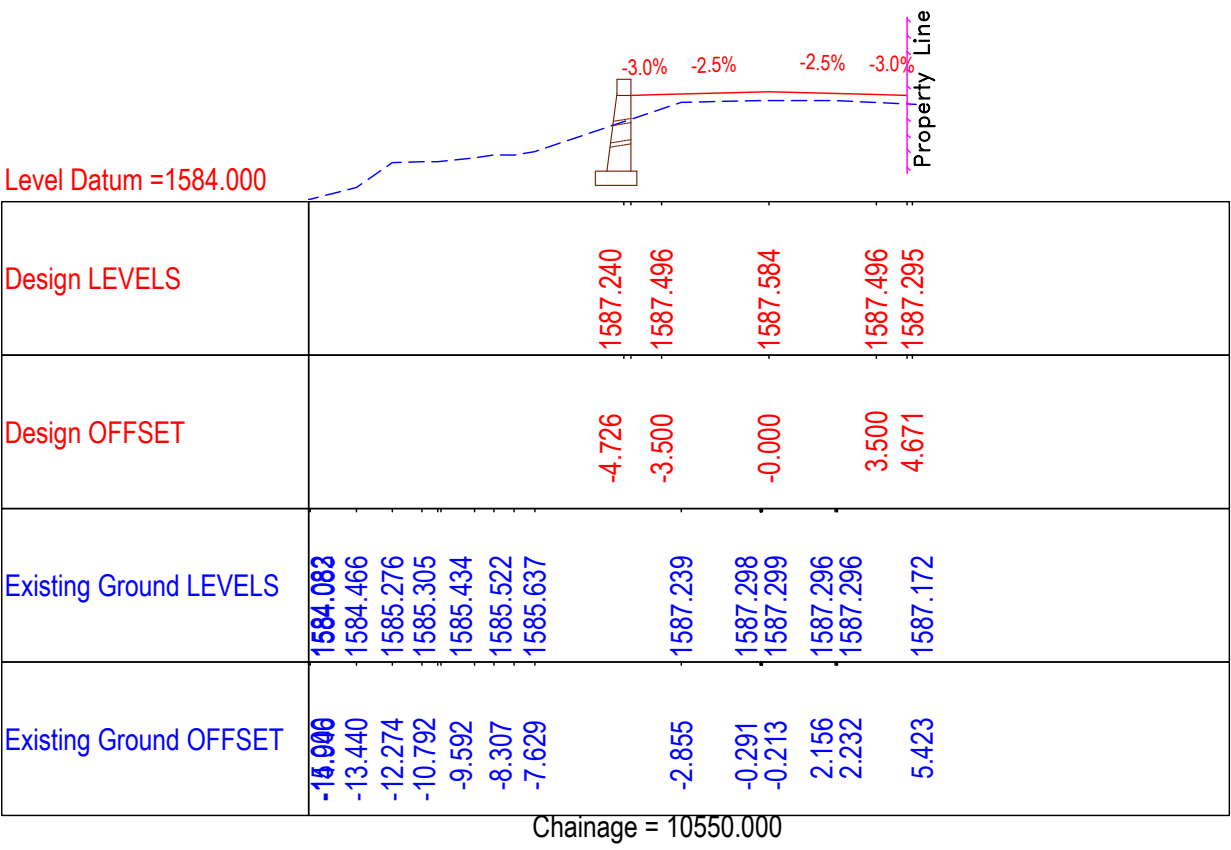


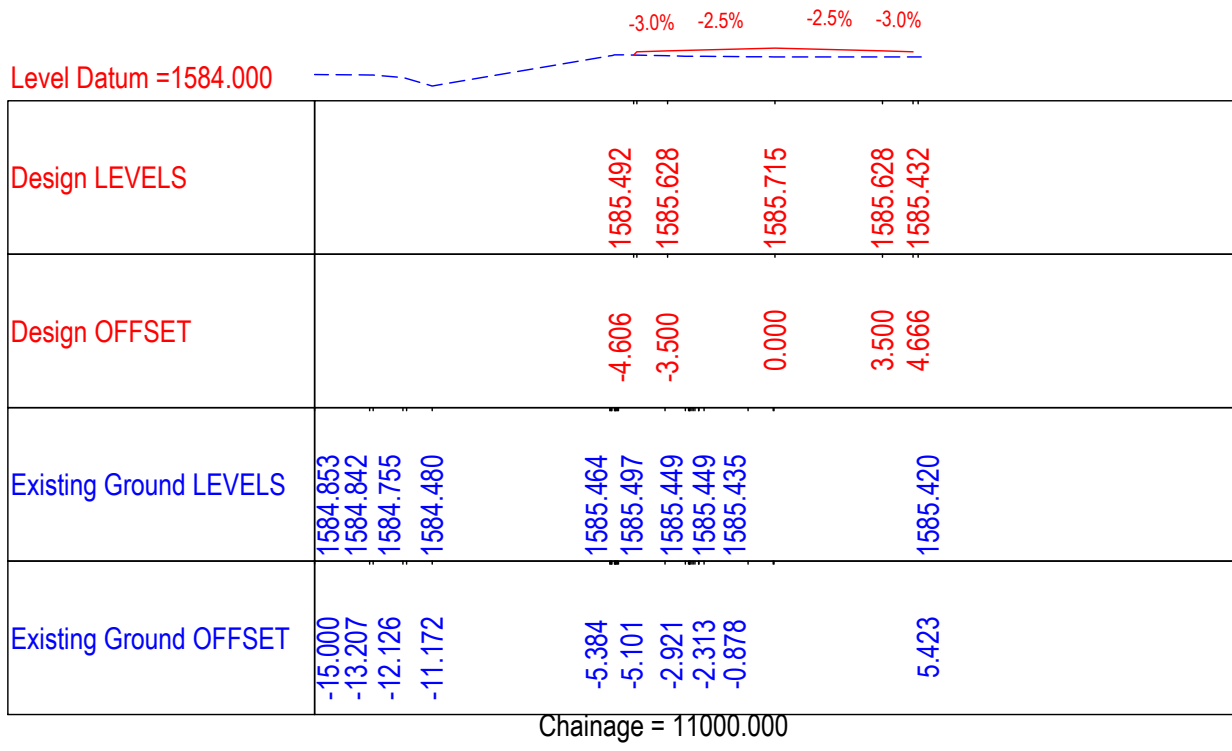
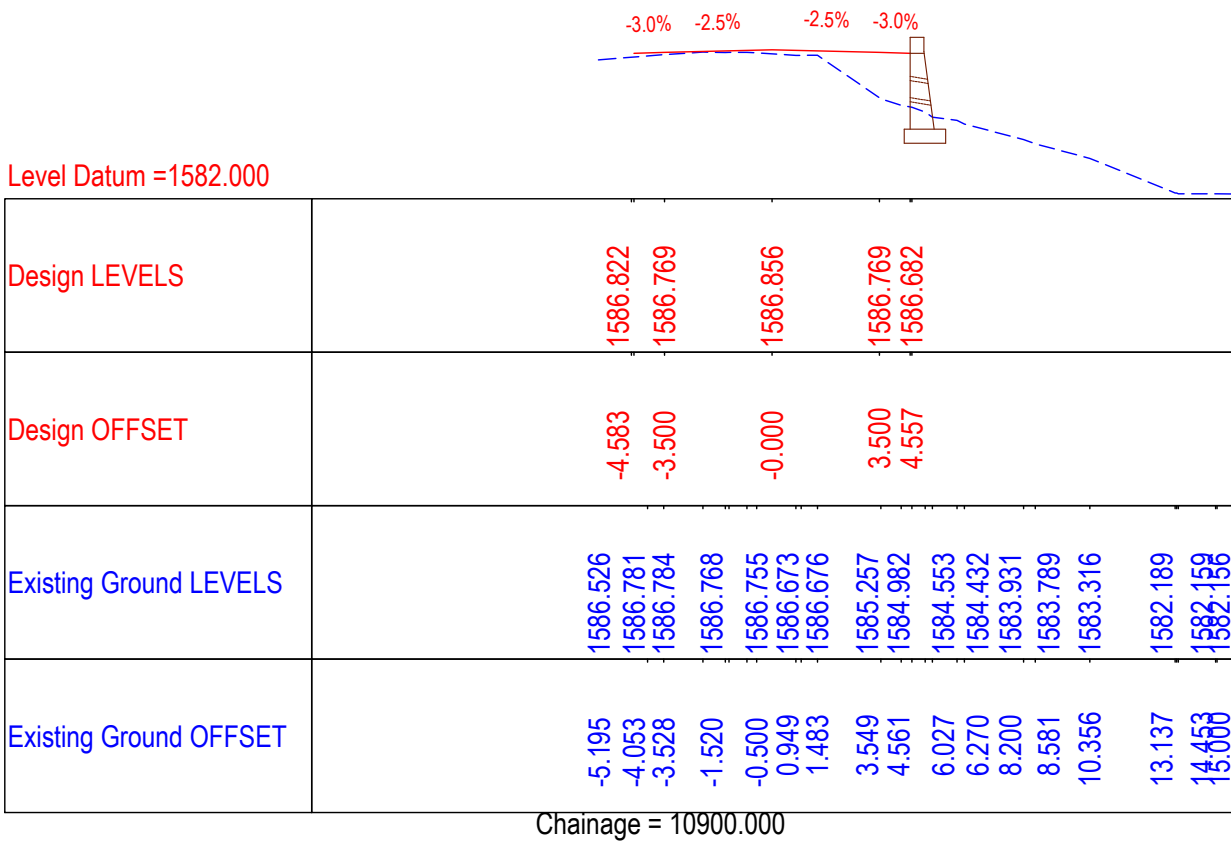
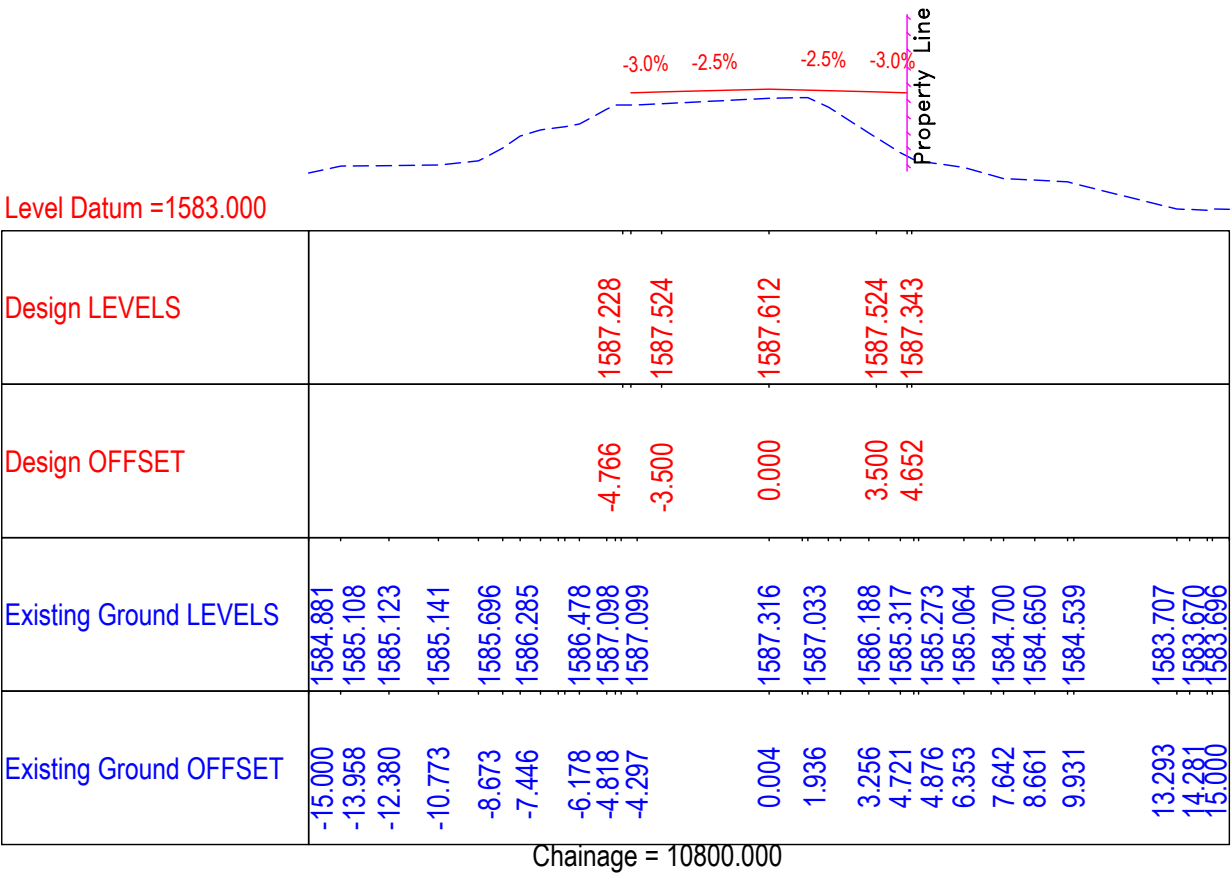
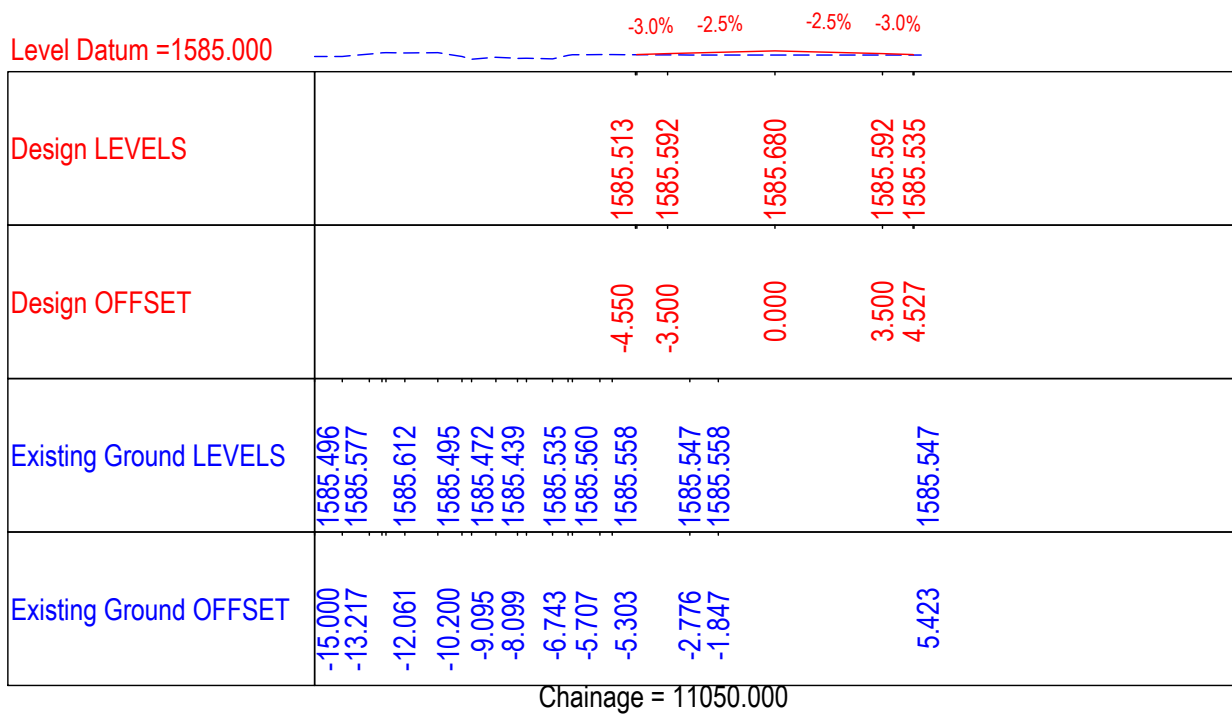
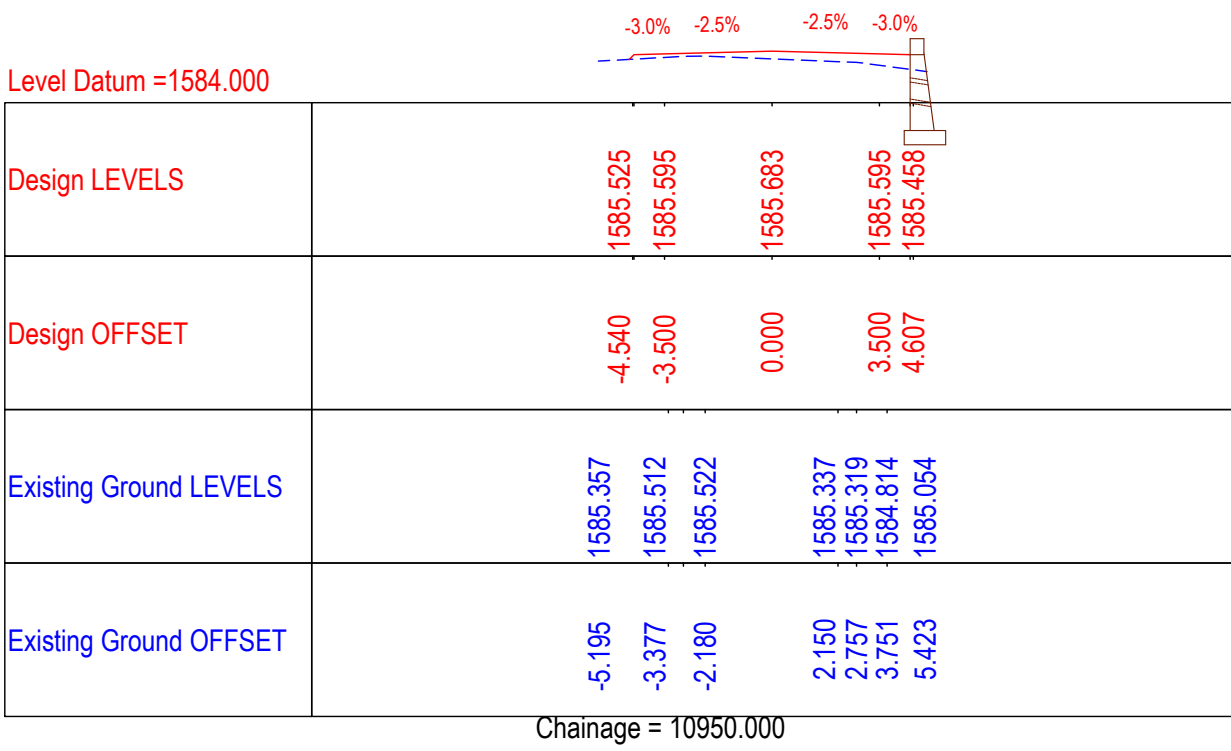
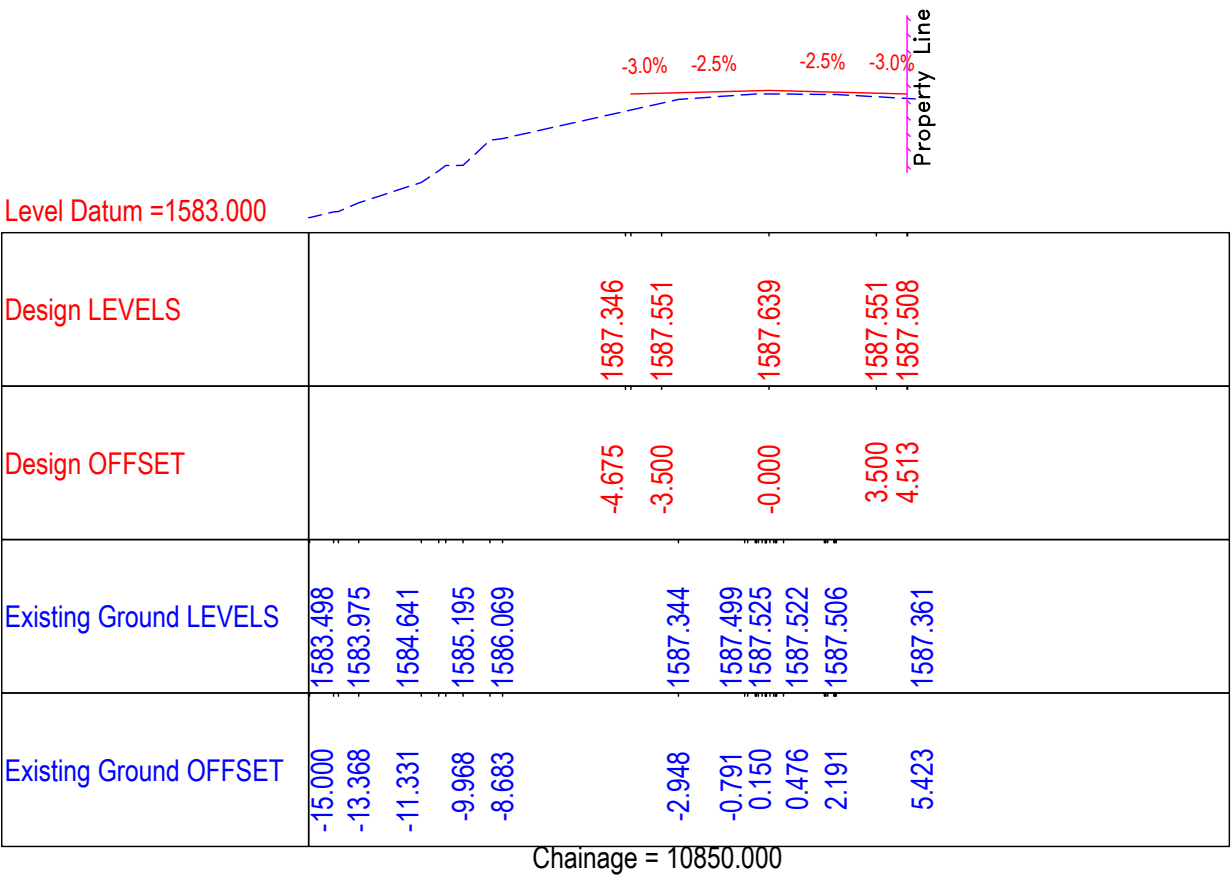


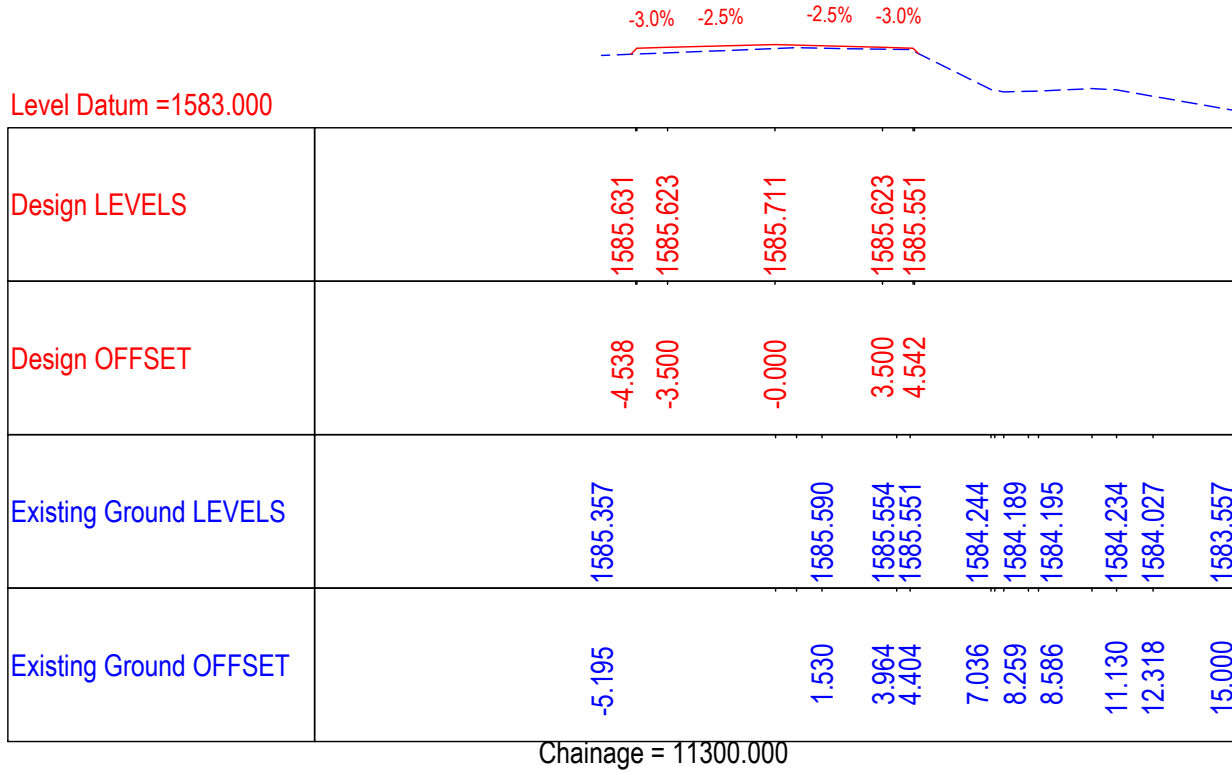
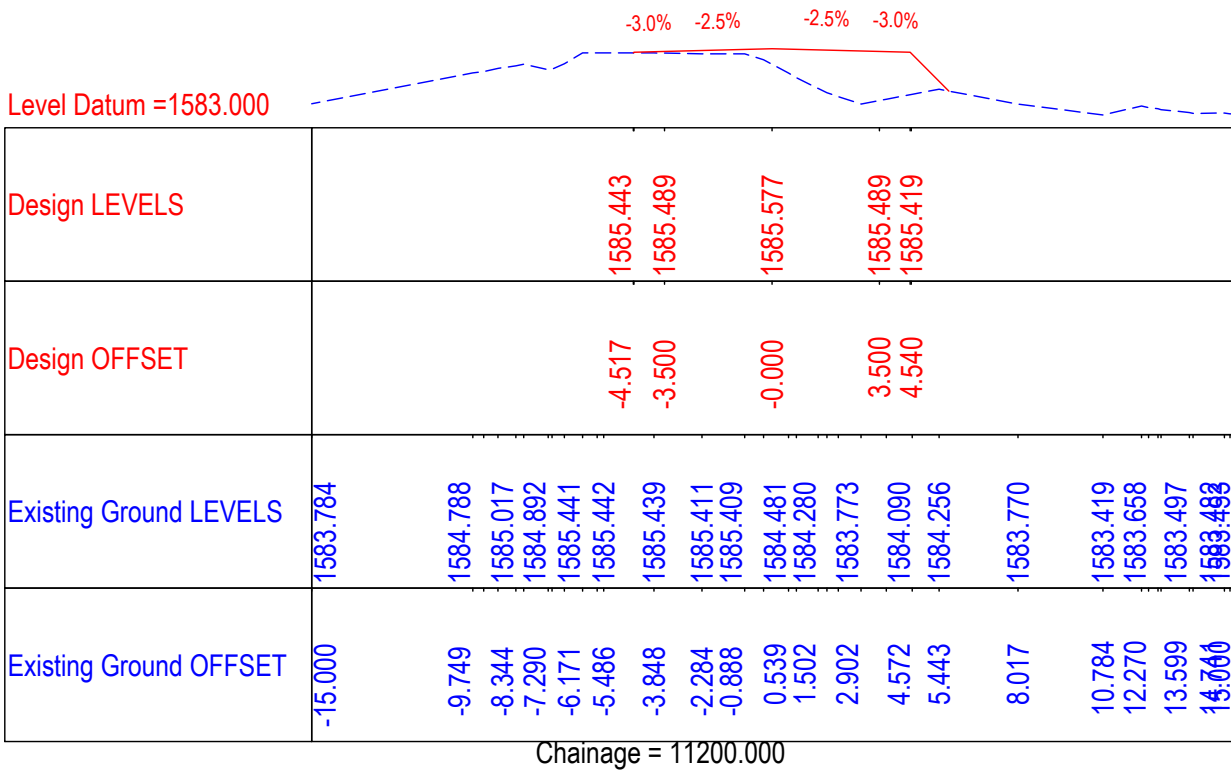
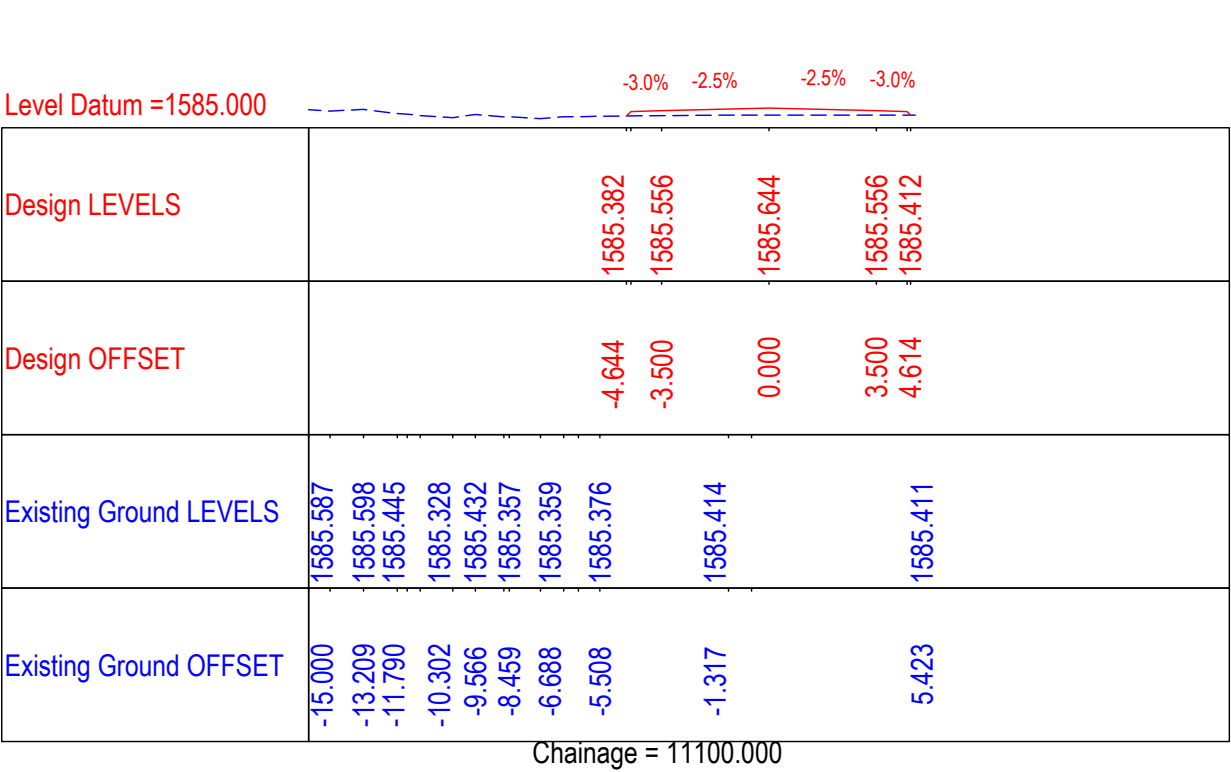
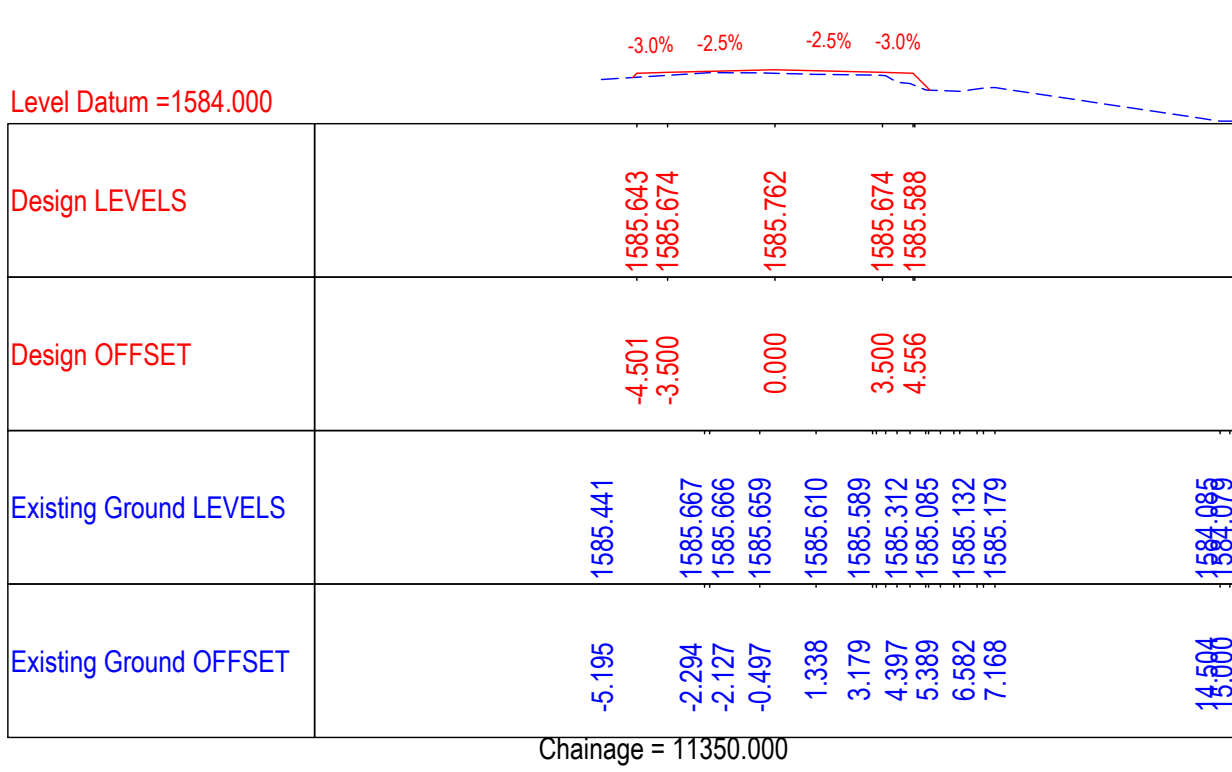
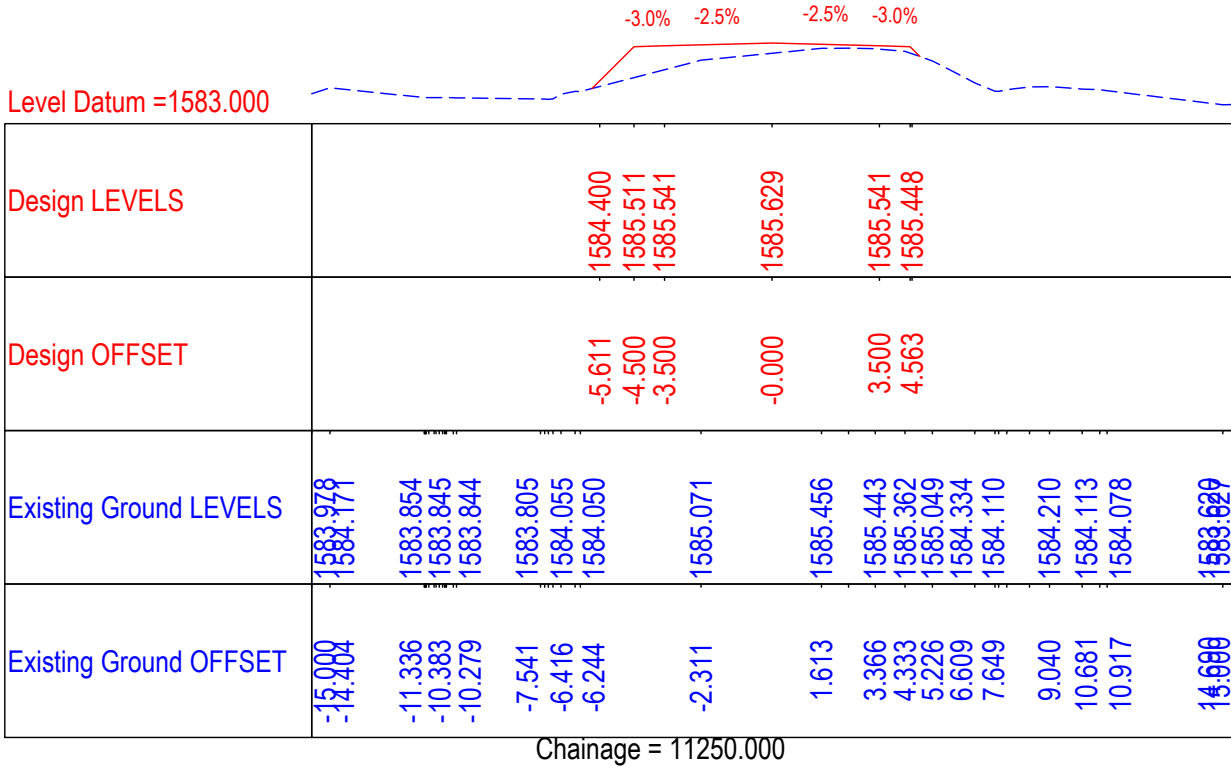
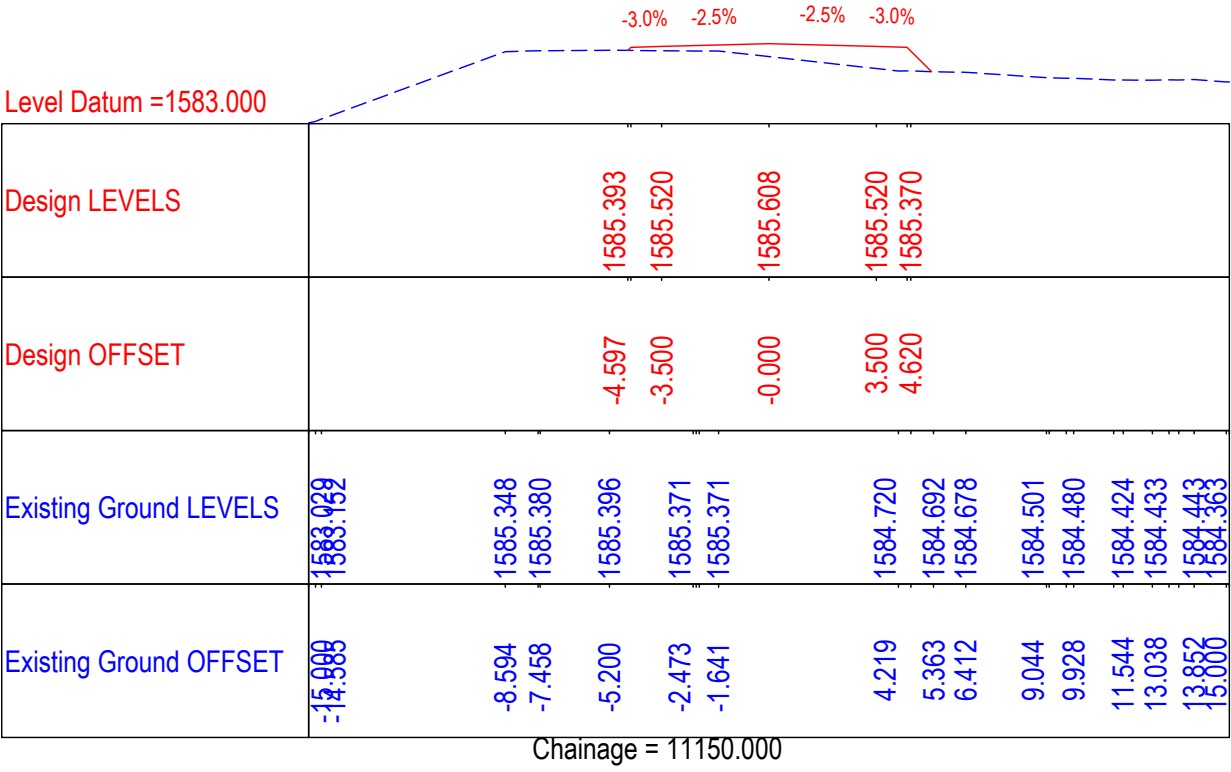


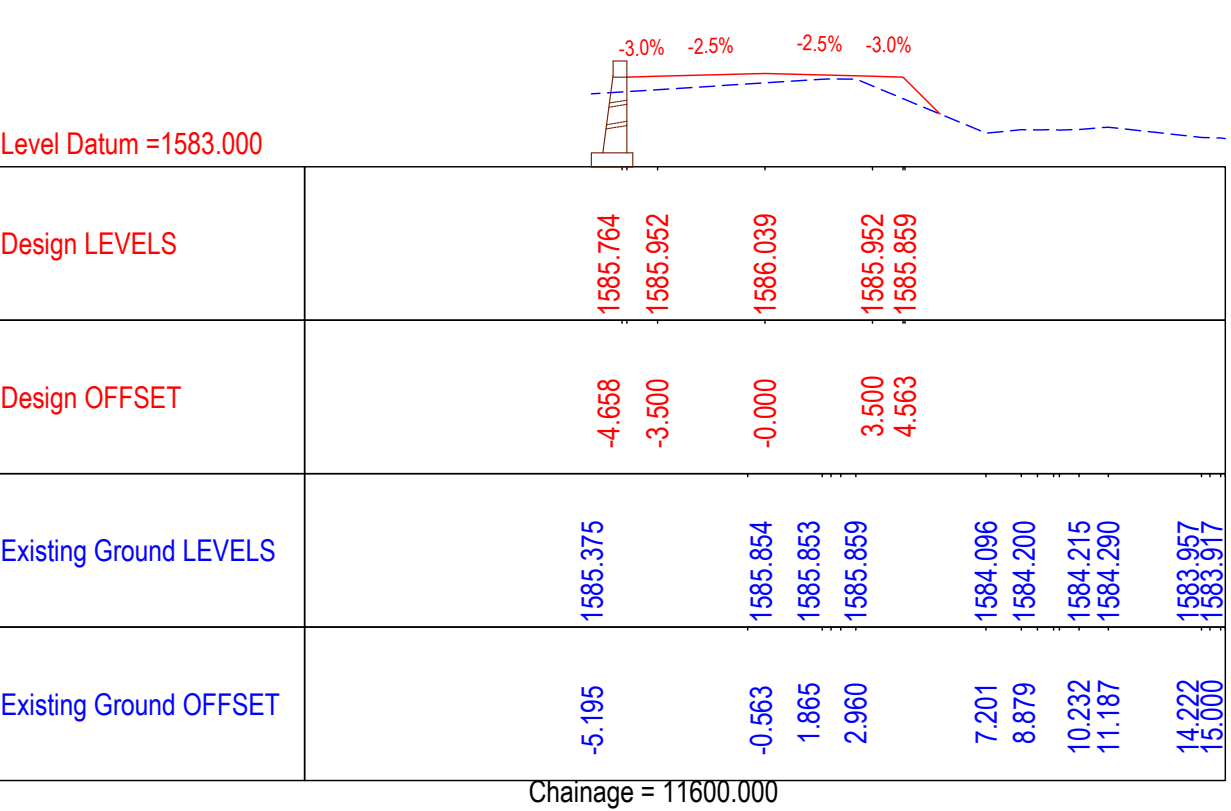
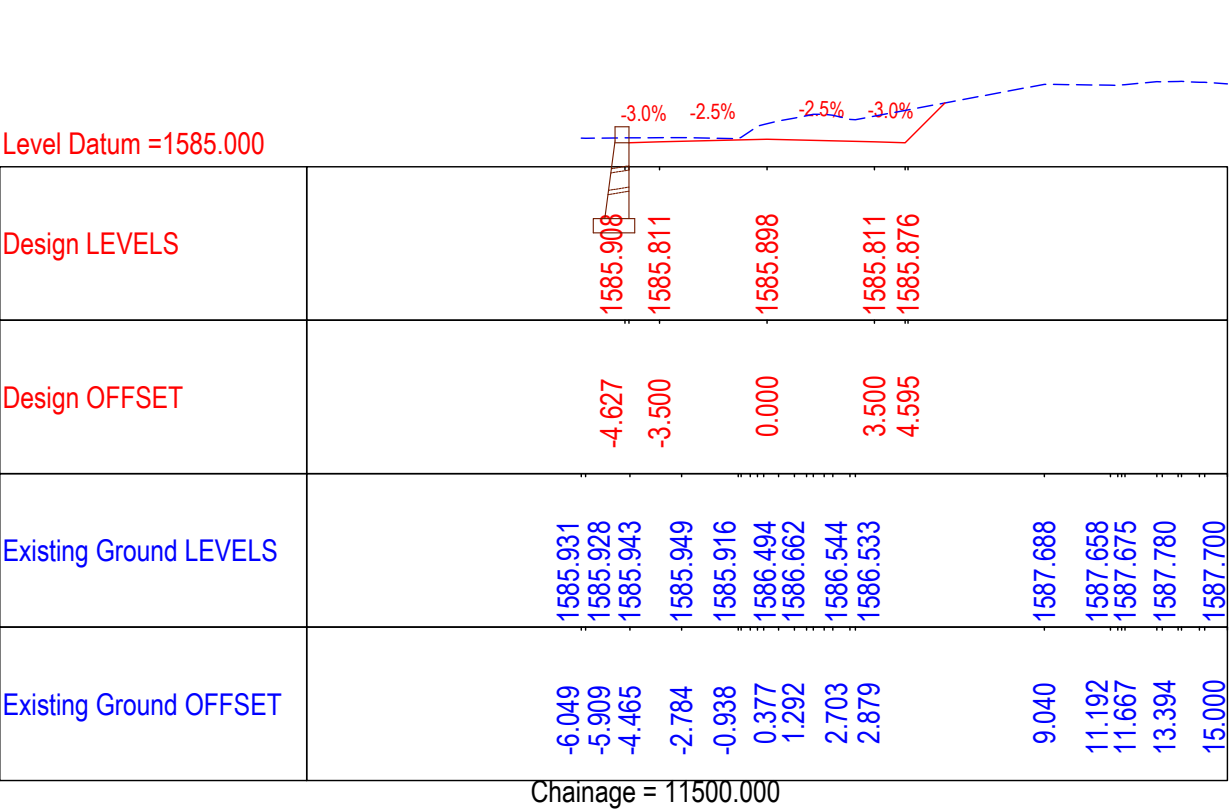
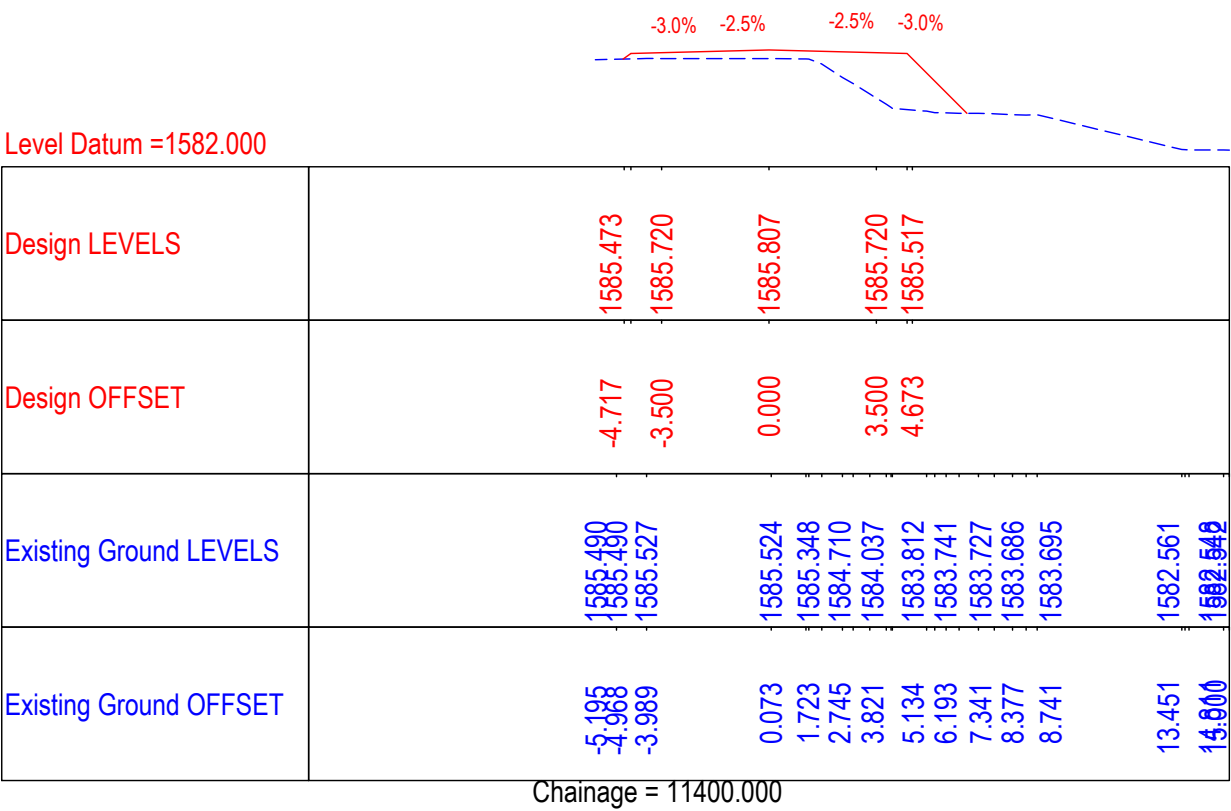
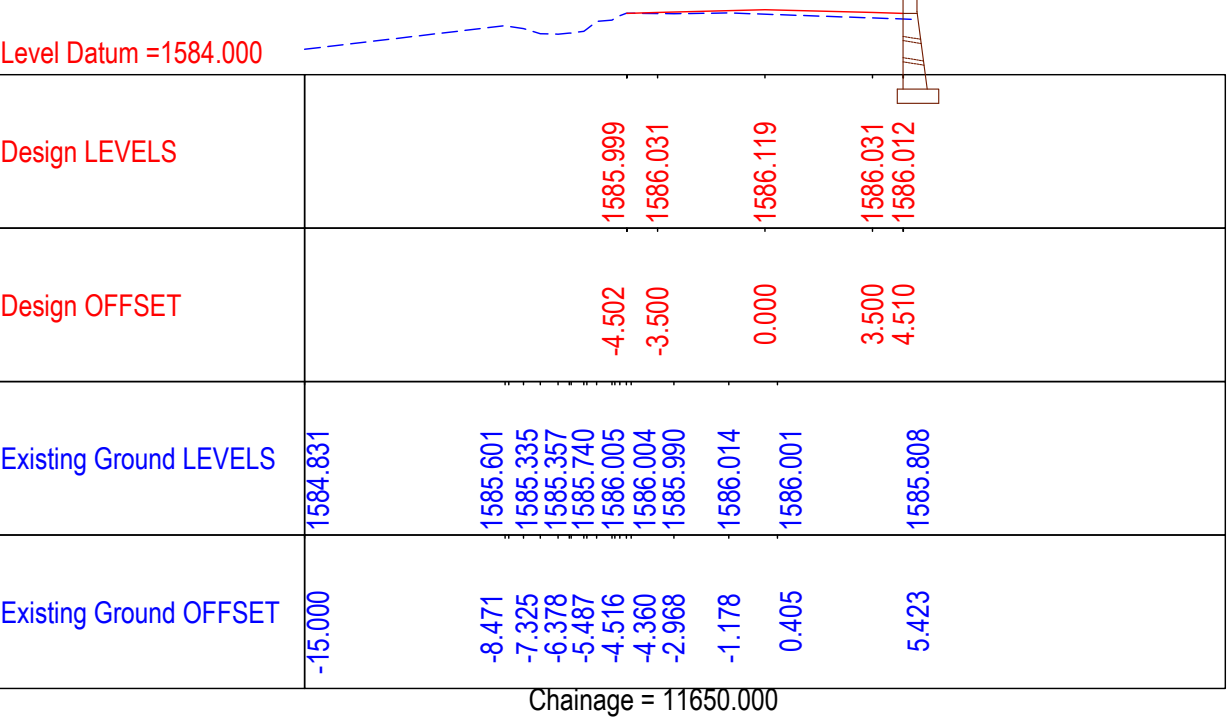
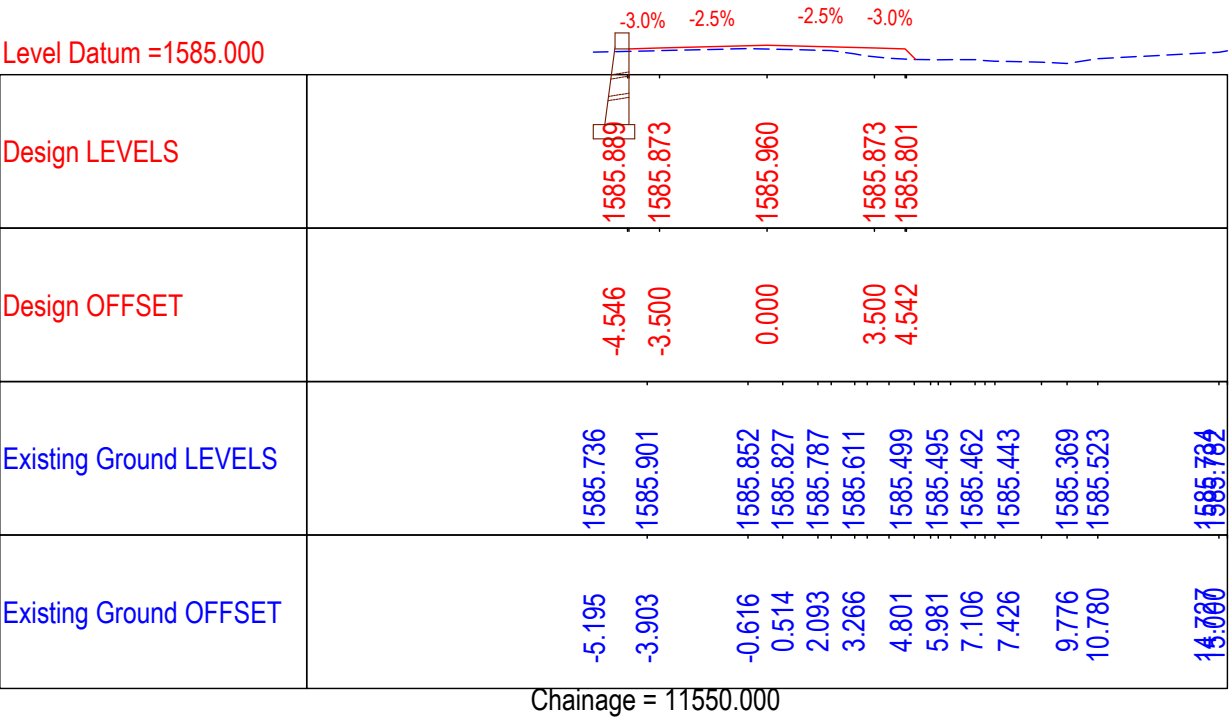
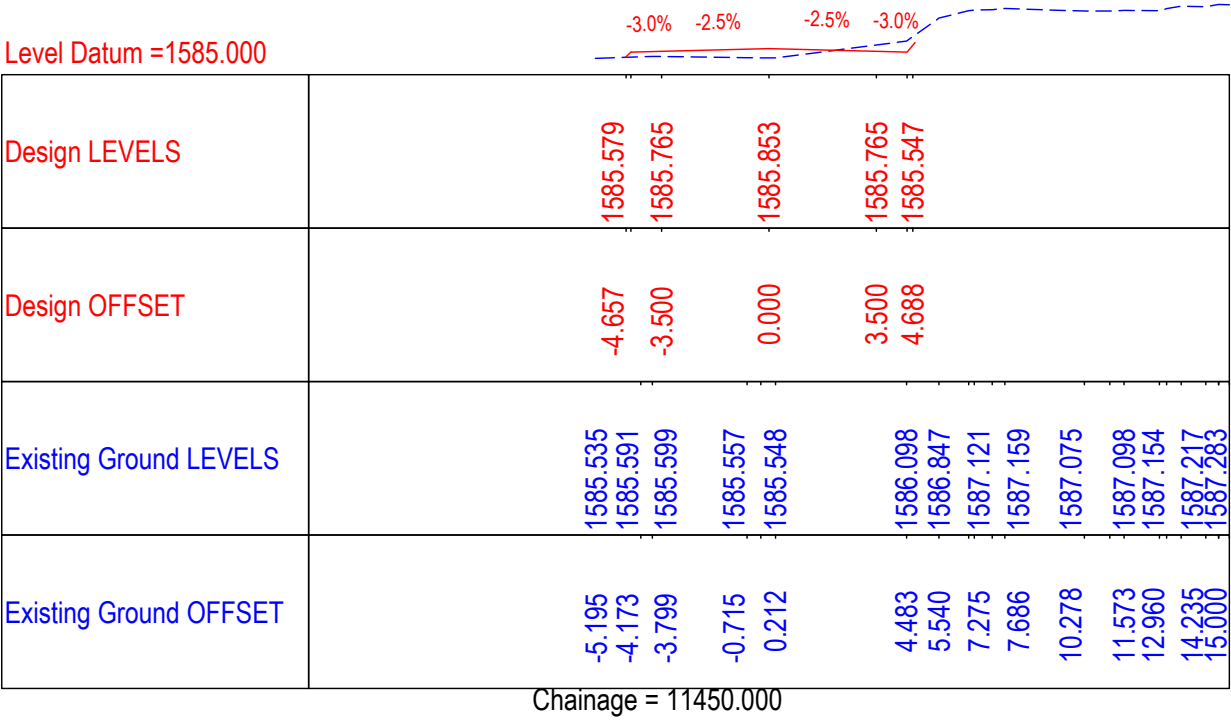


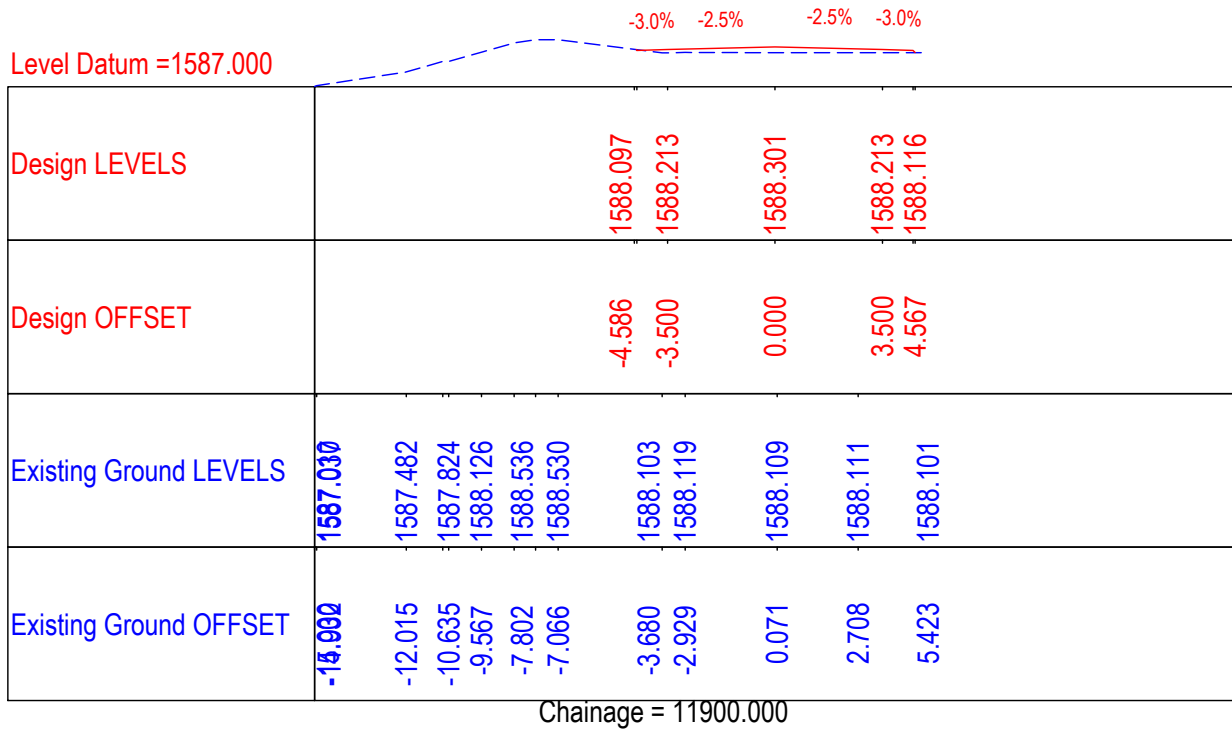
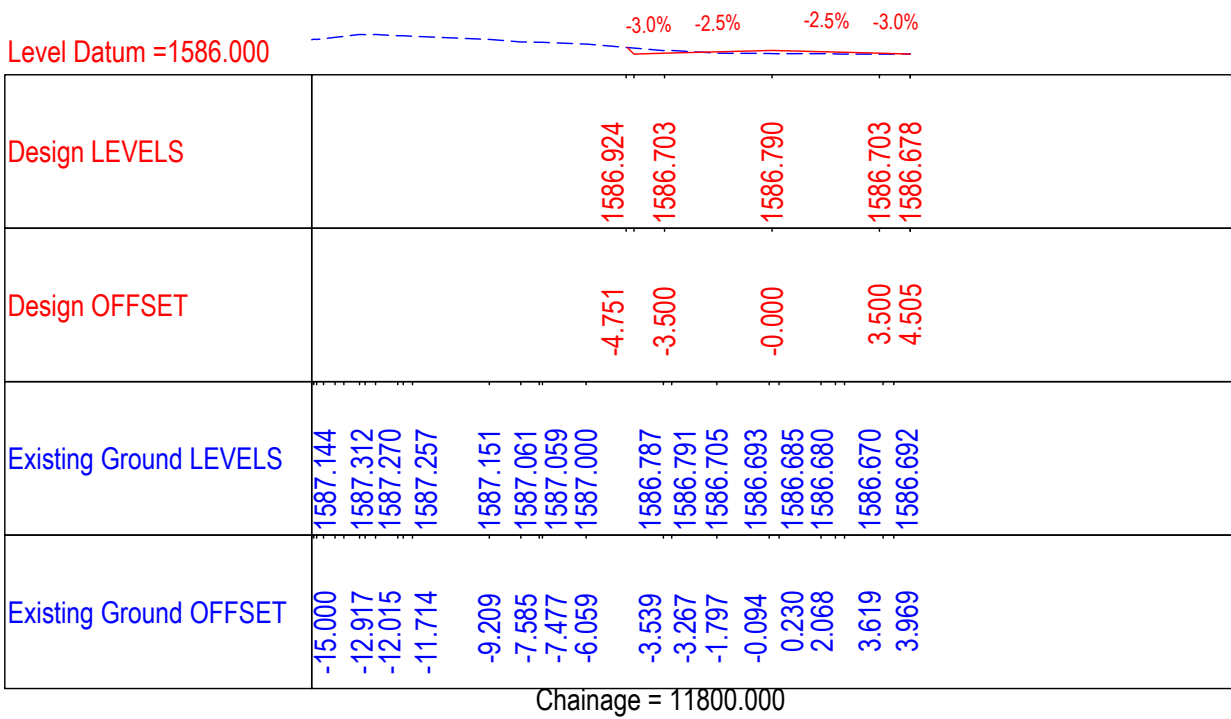
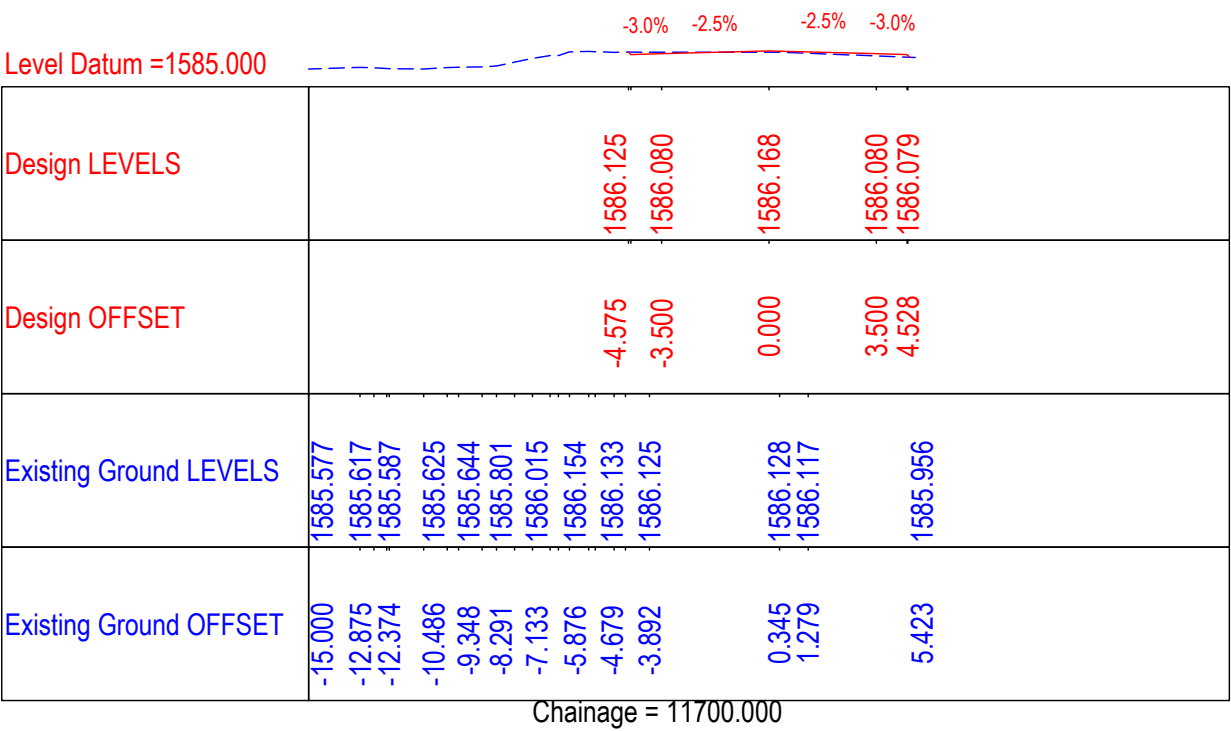
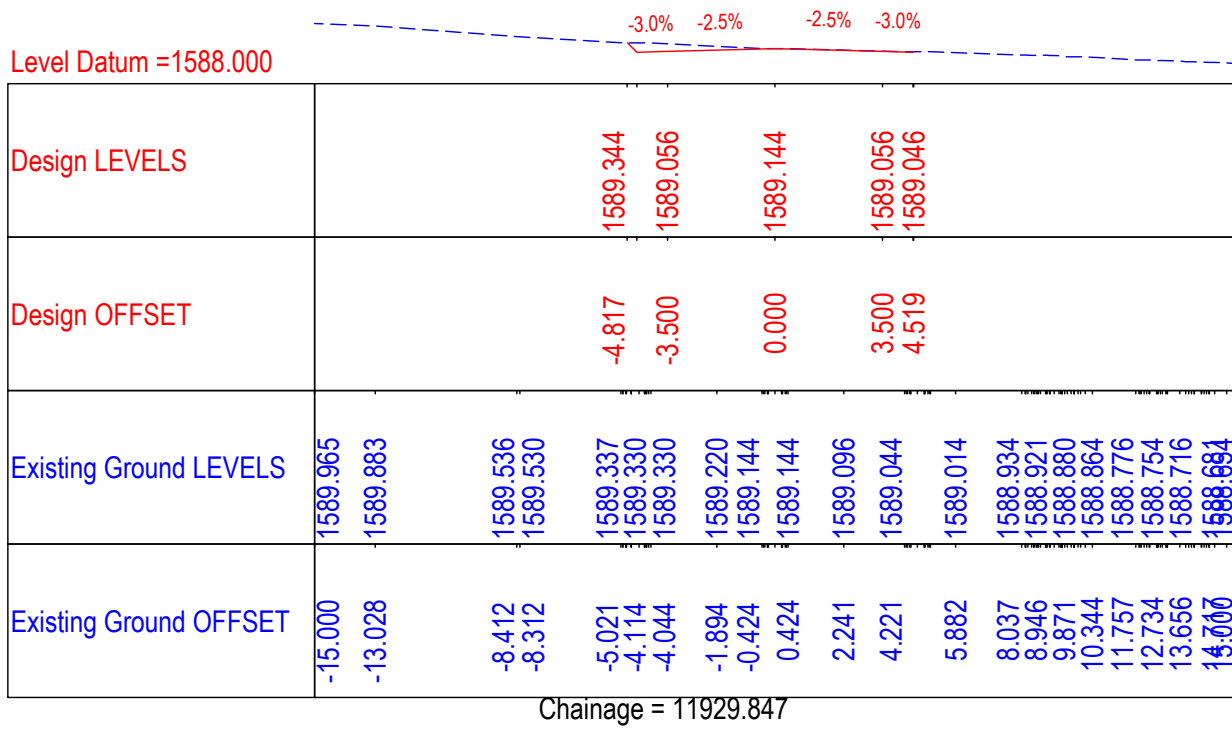
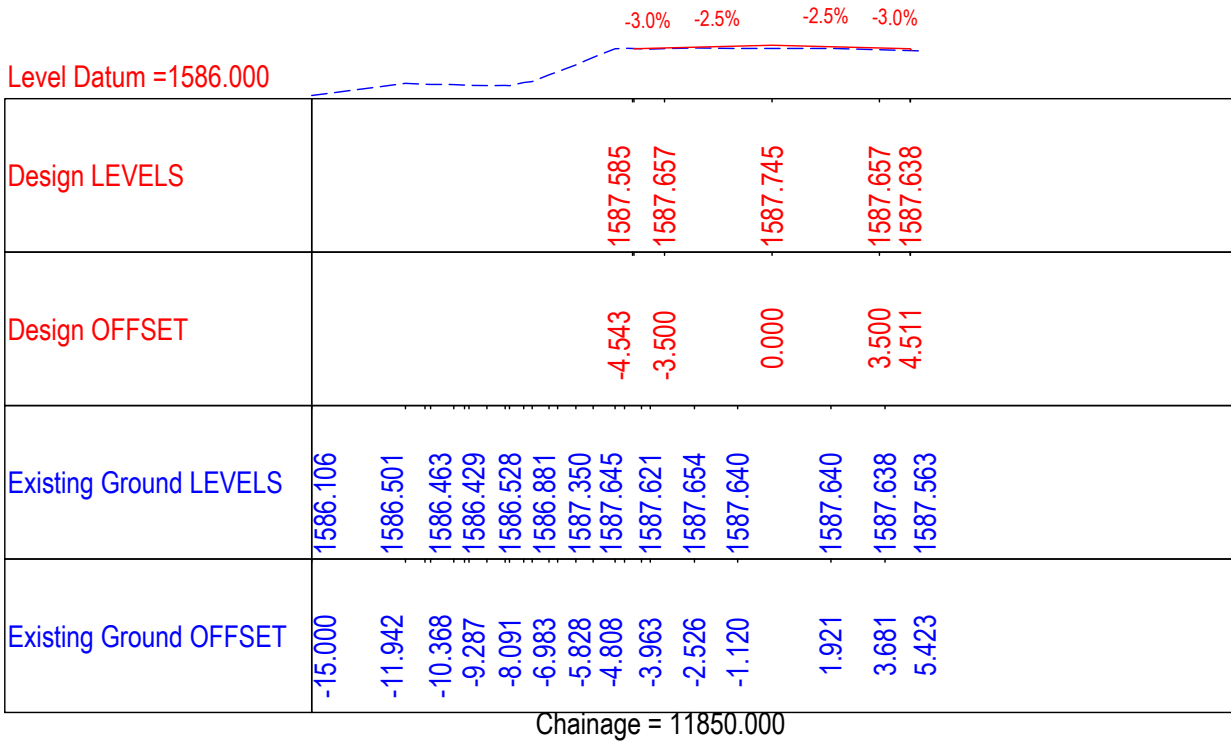
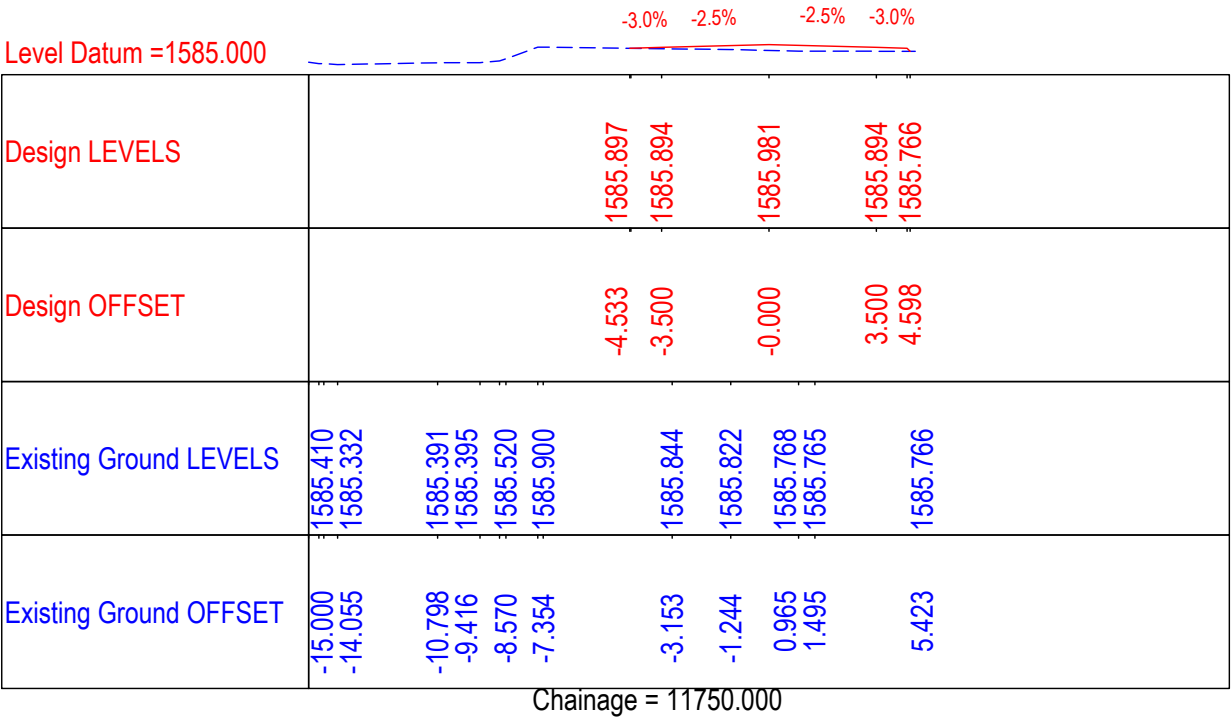




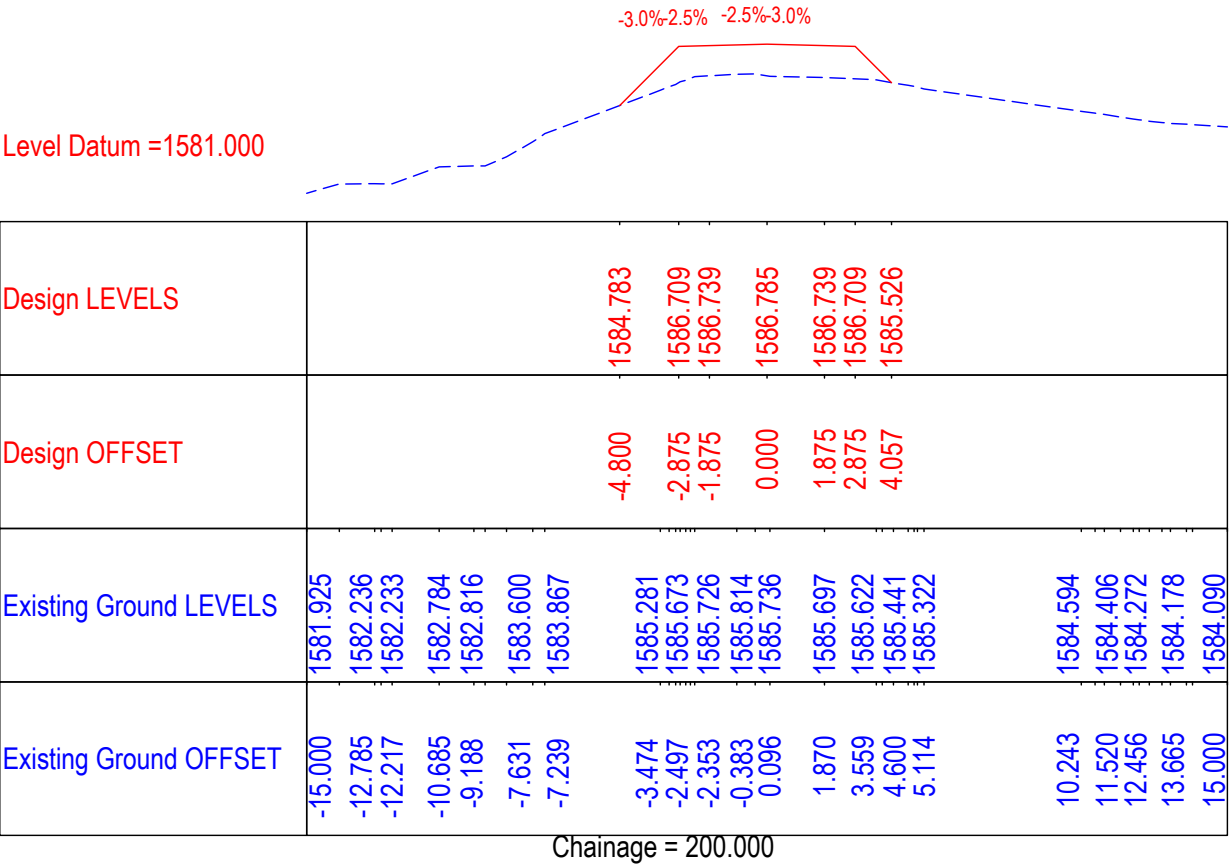
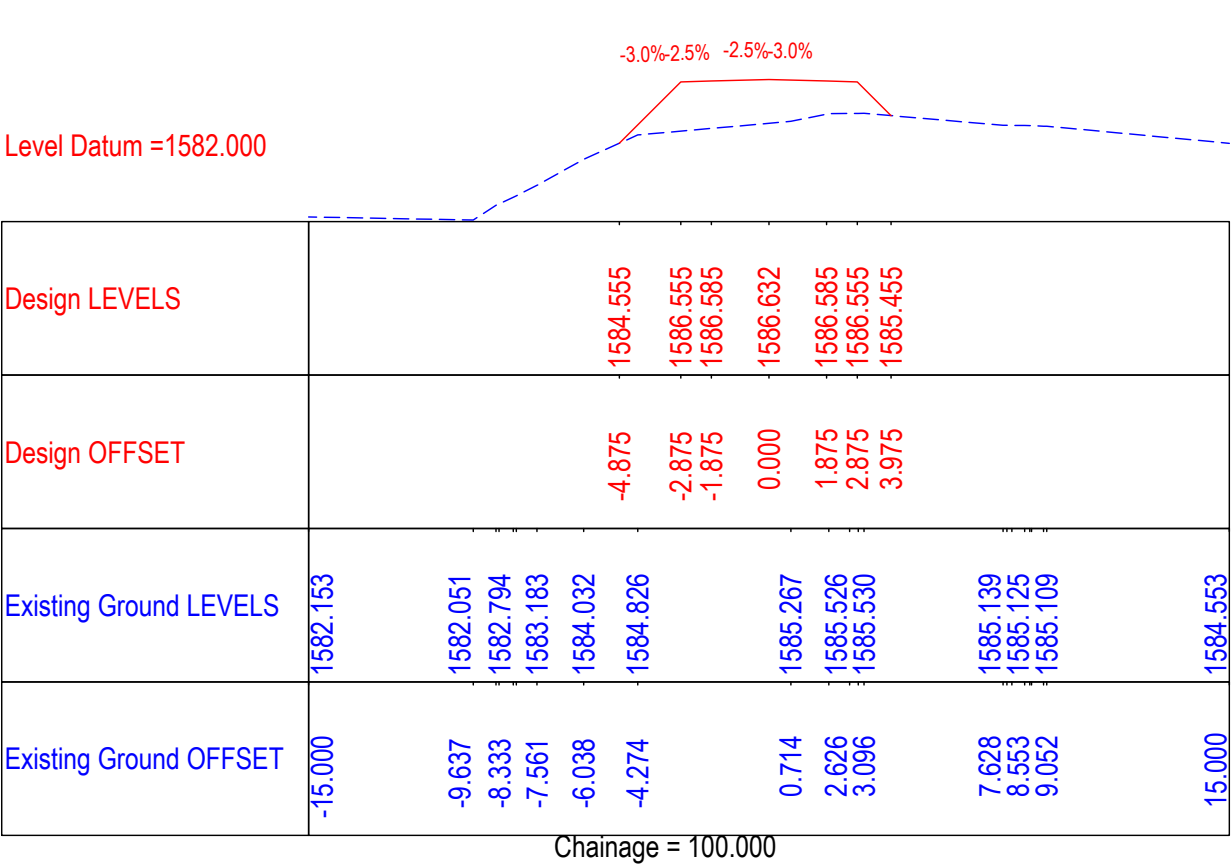
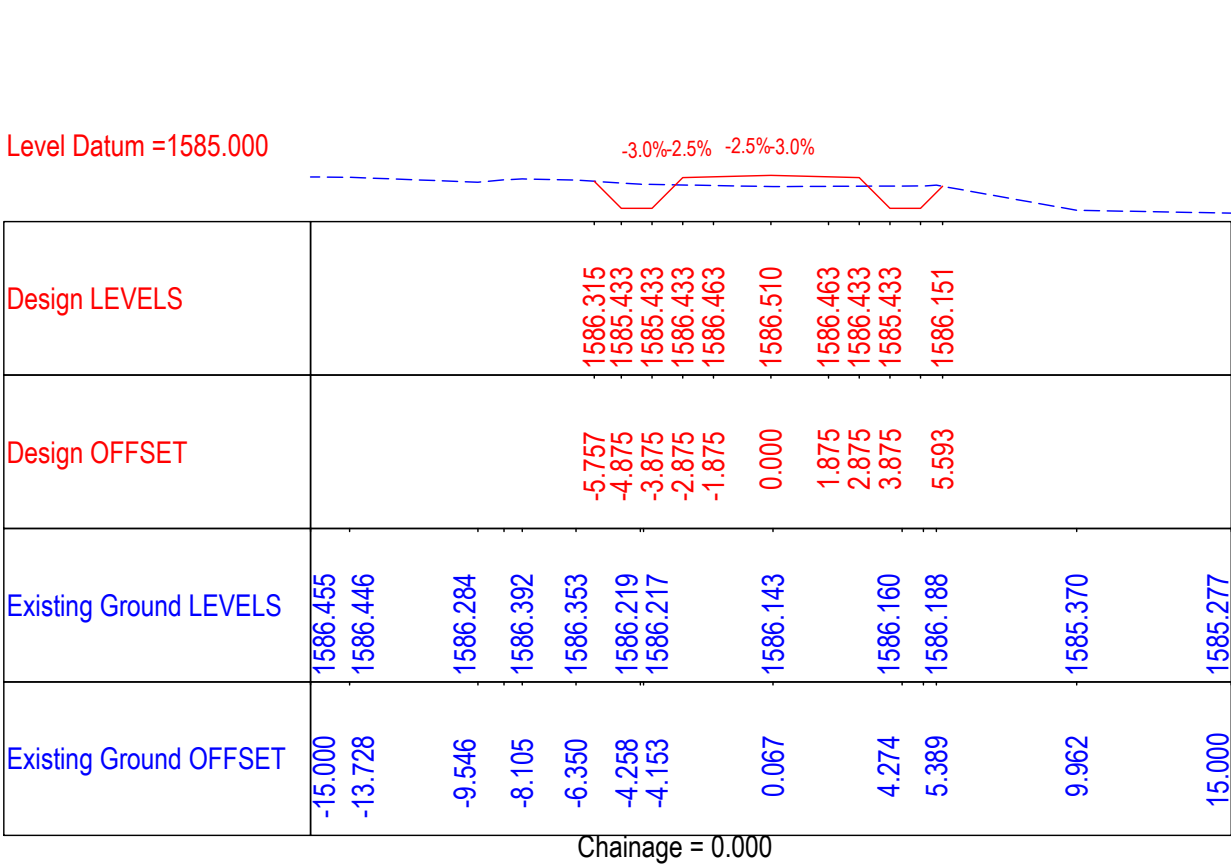
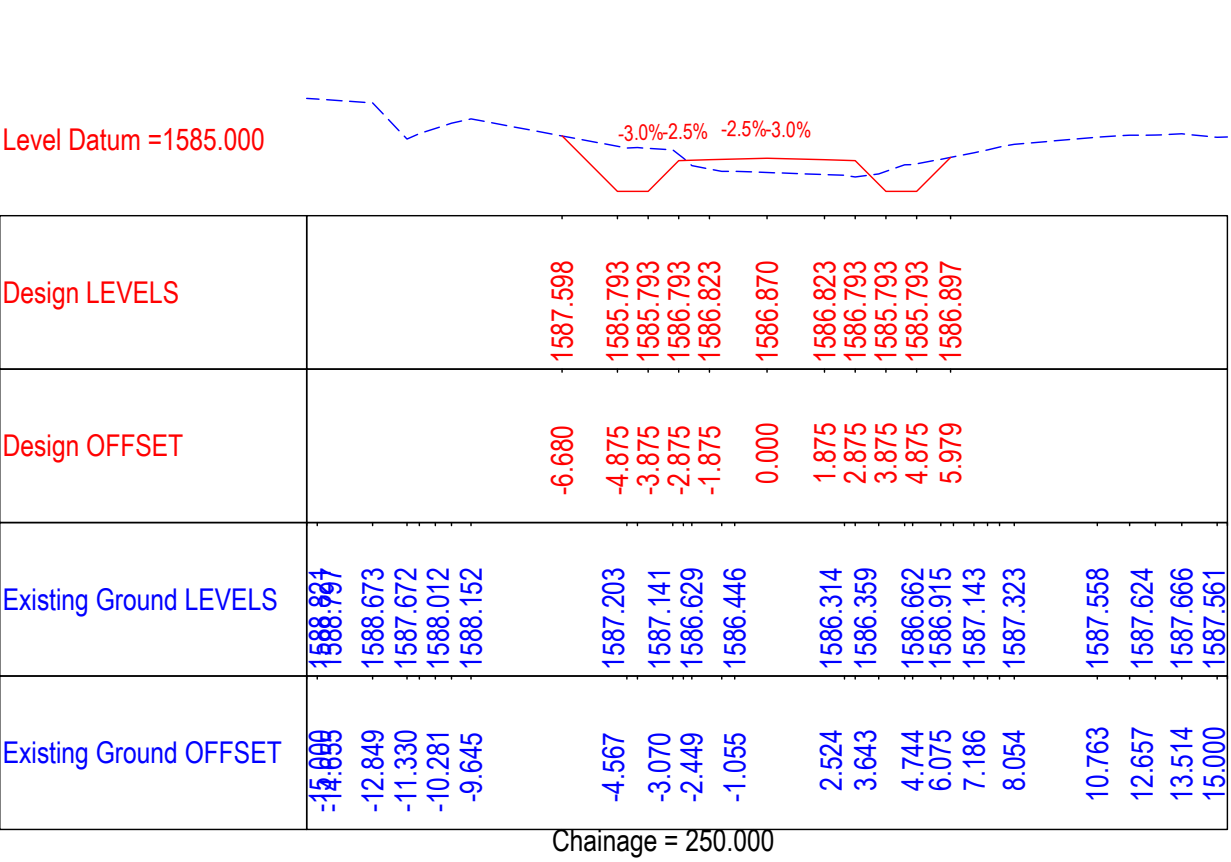
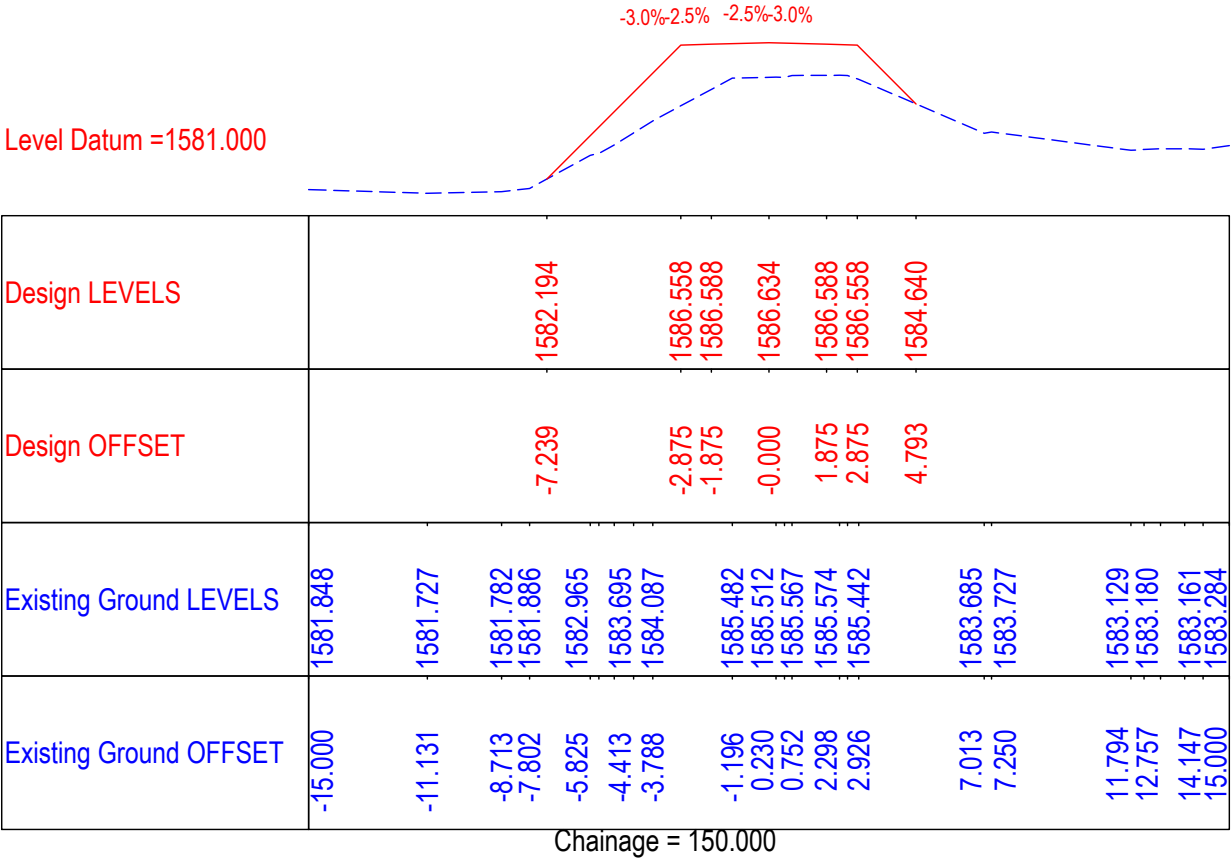
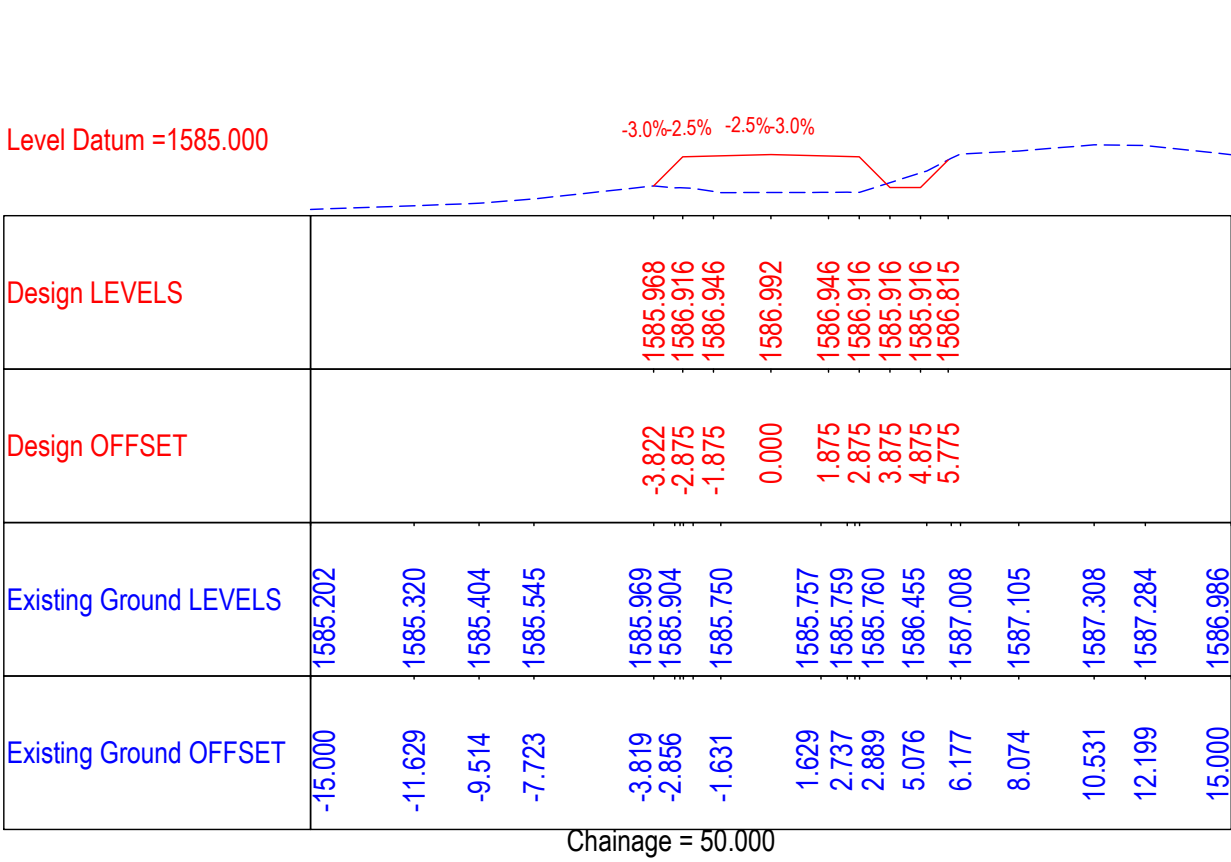








≡ DETAILED CROSS SECTION (FOR LINK ROAD NO.1) ≡



CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:

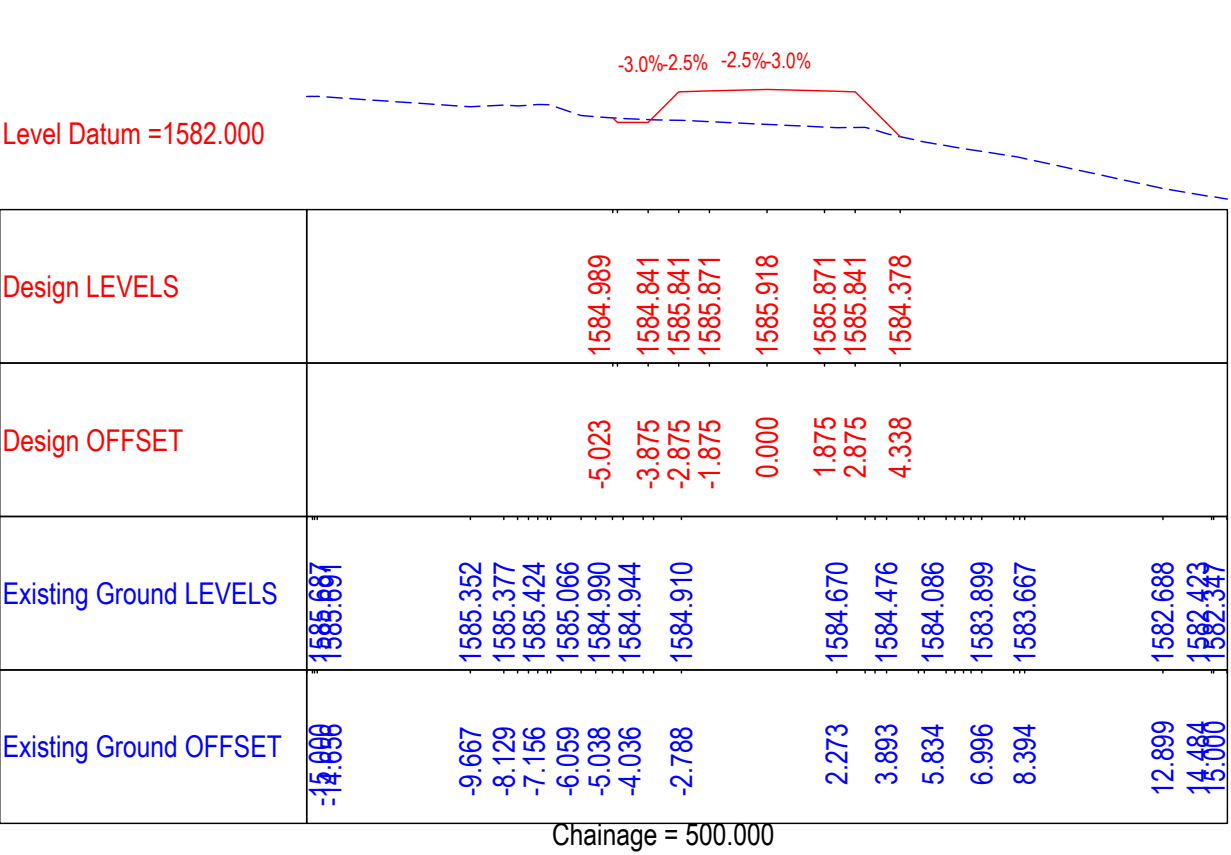
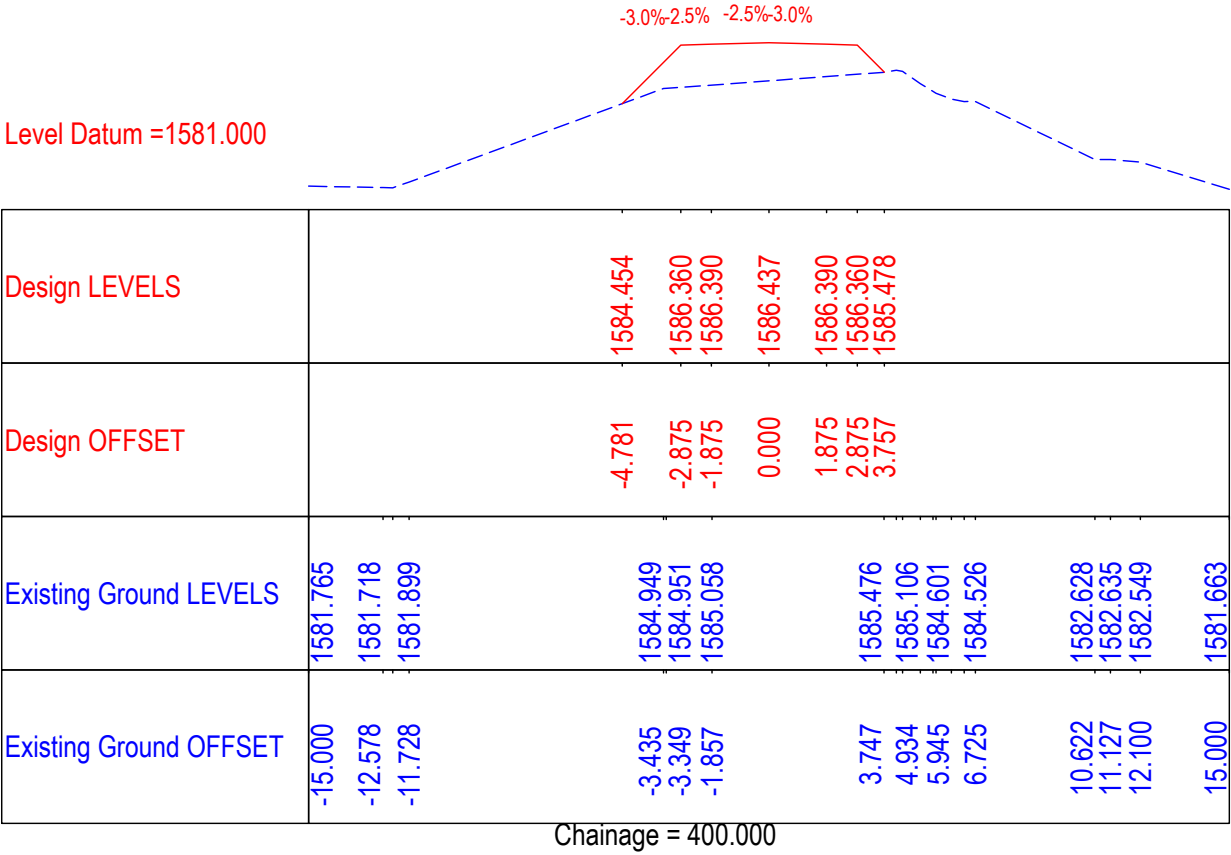
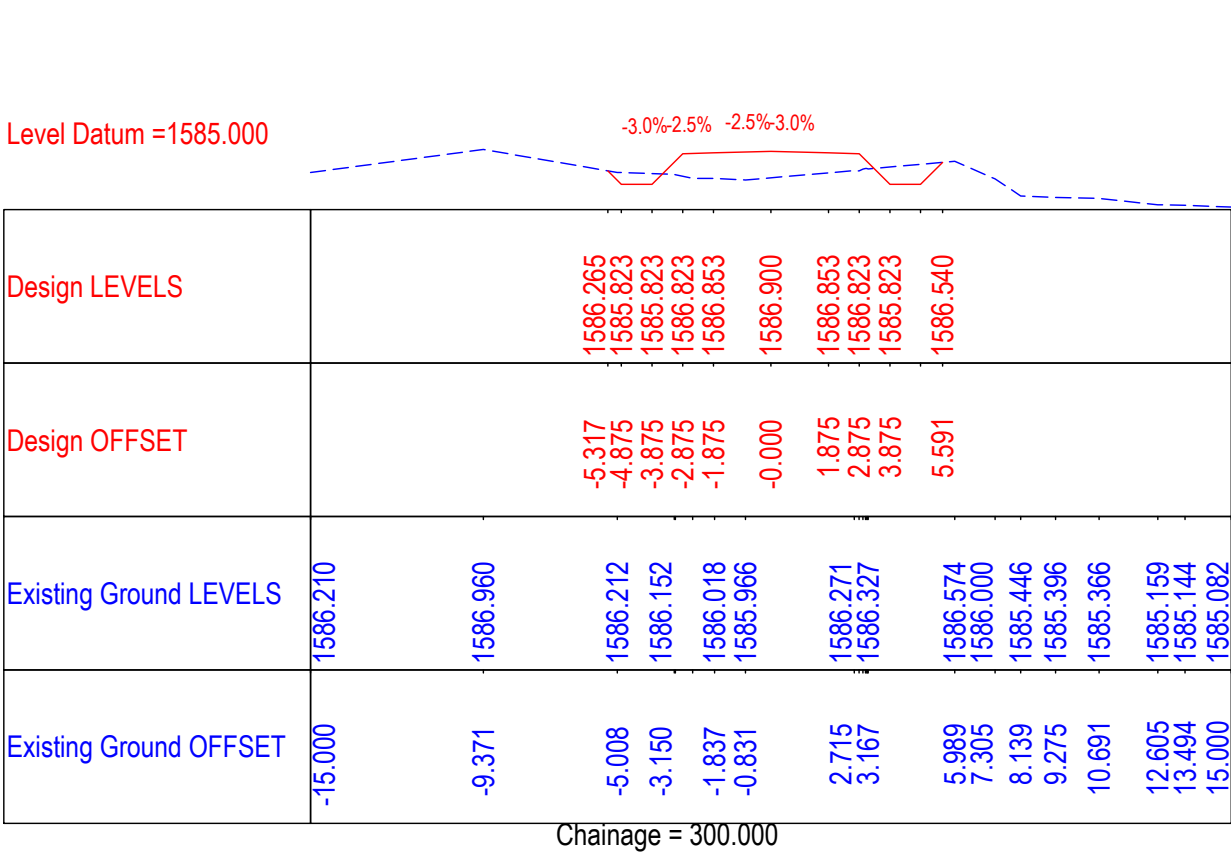
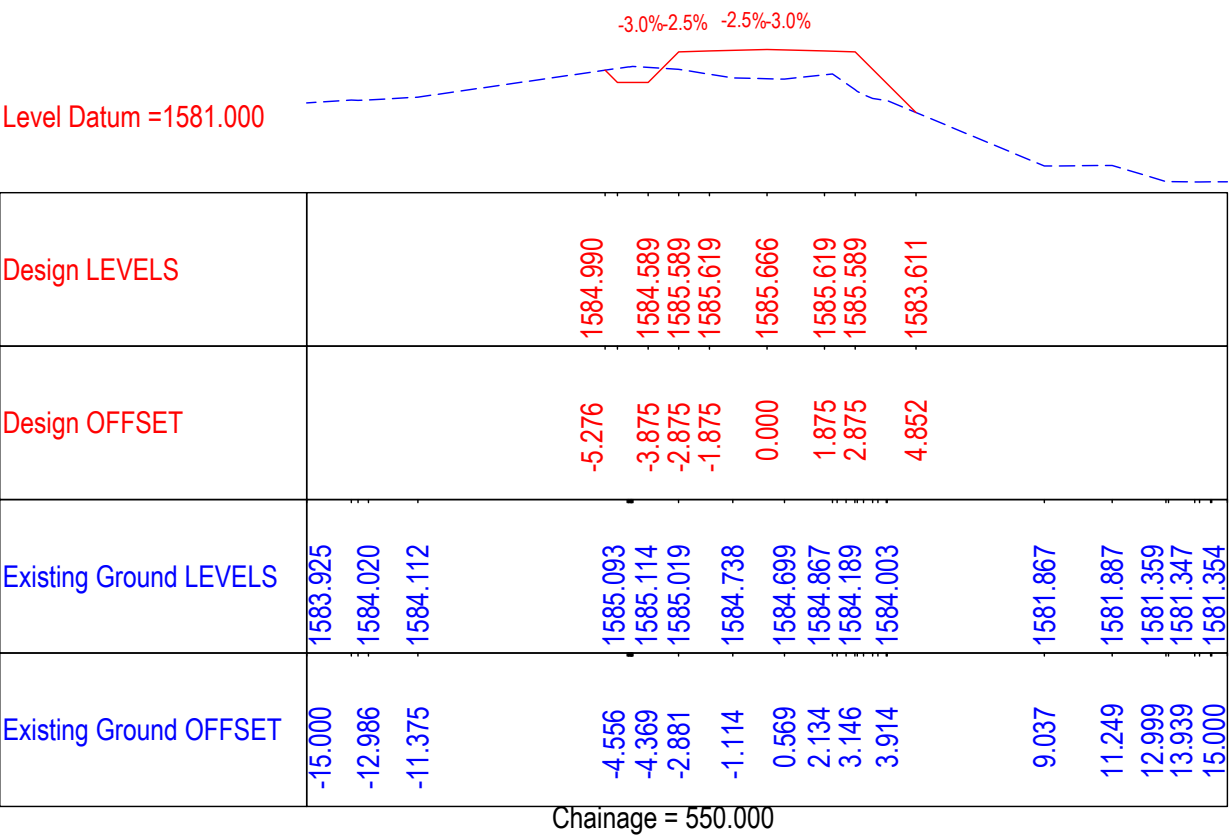
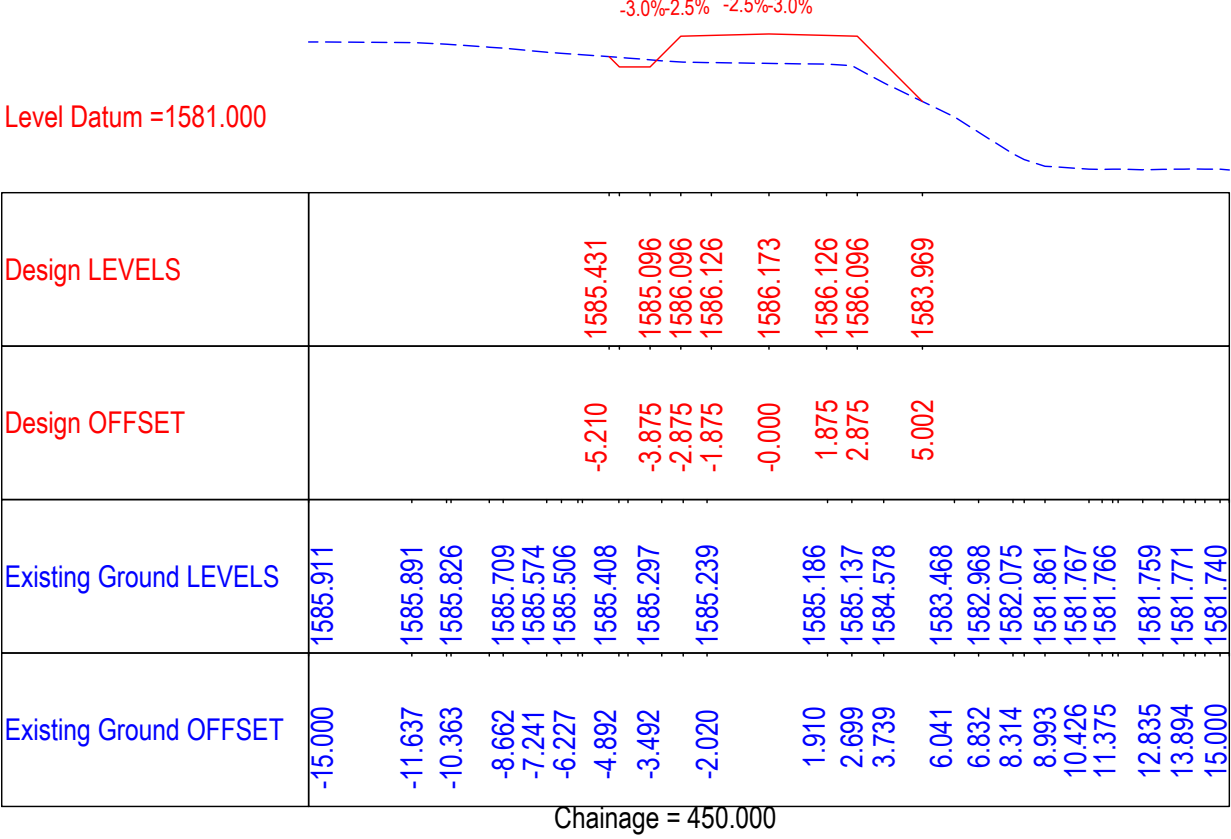
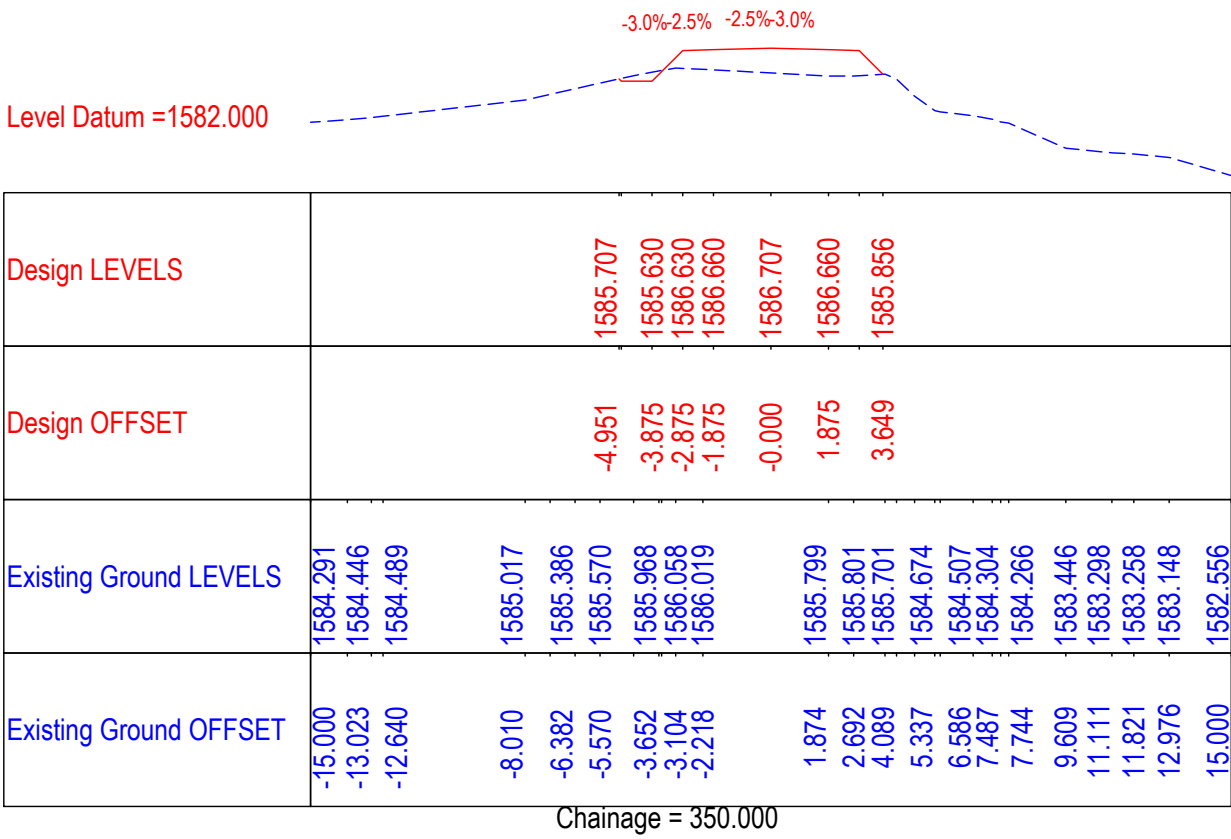


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Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE	1 : 250

TITLE :	Detailed Cross Section (For Link Road No.1) (Ch.0+000 to Ch.0+250)
DRG. NO. :	EPTISA/JTFRP/DPR/J&K/DCS/Link Road/01
REVISION : R-1	August 2019



CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:

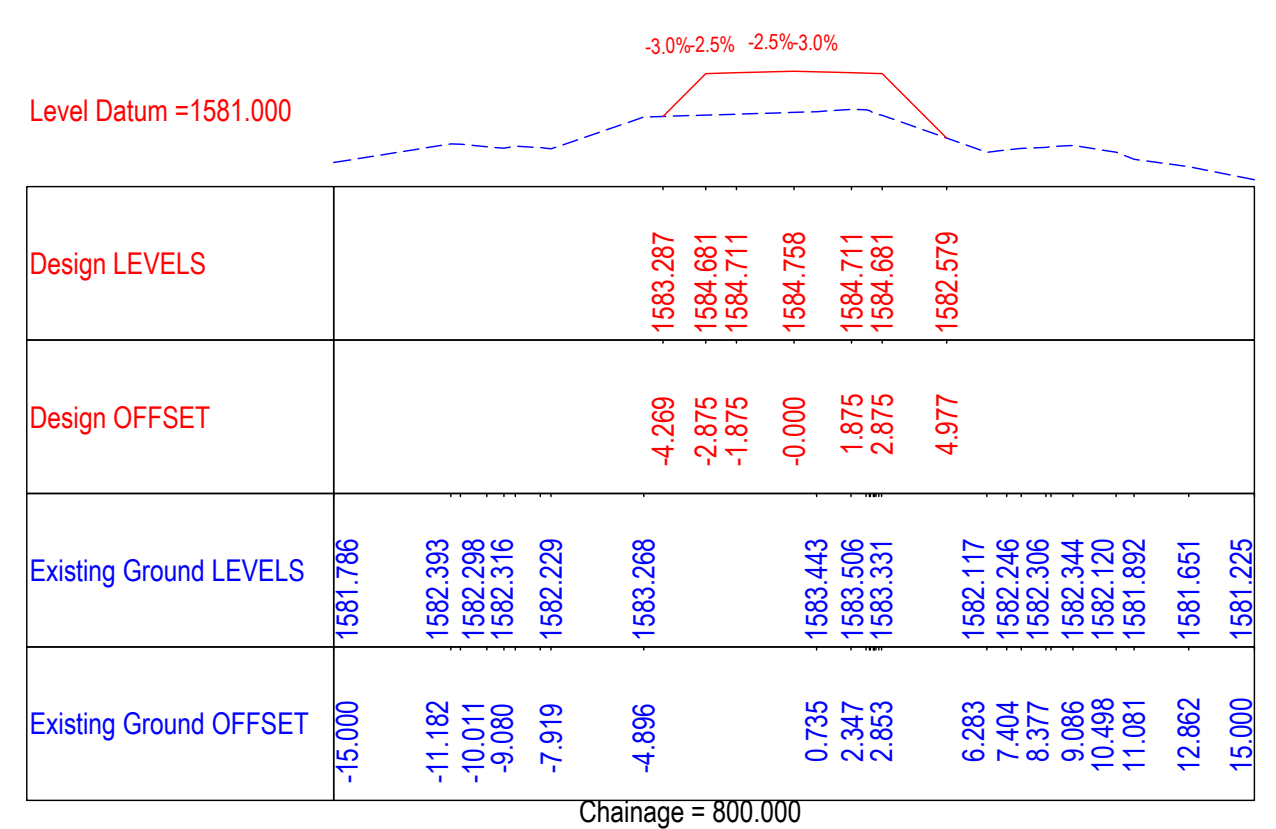
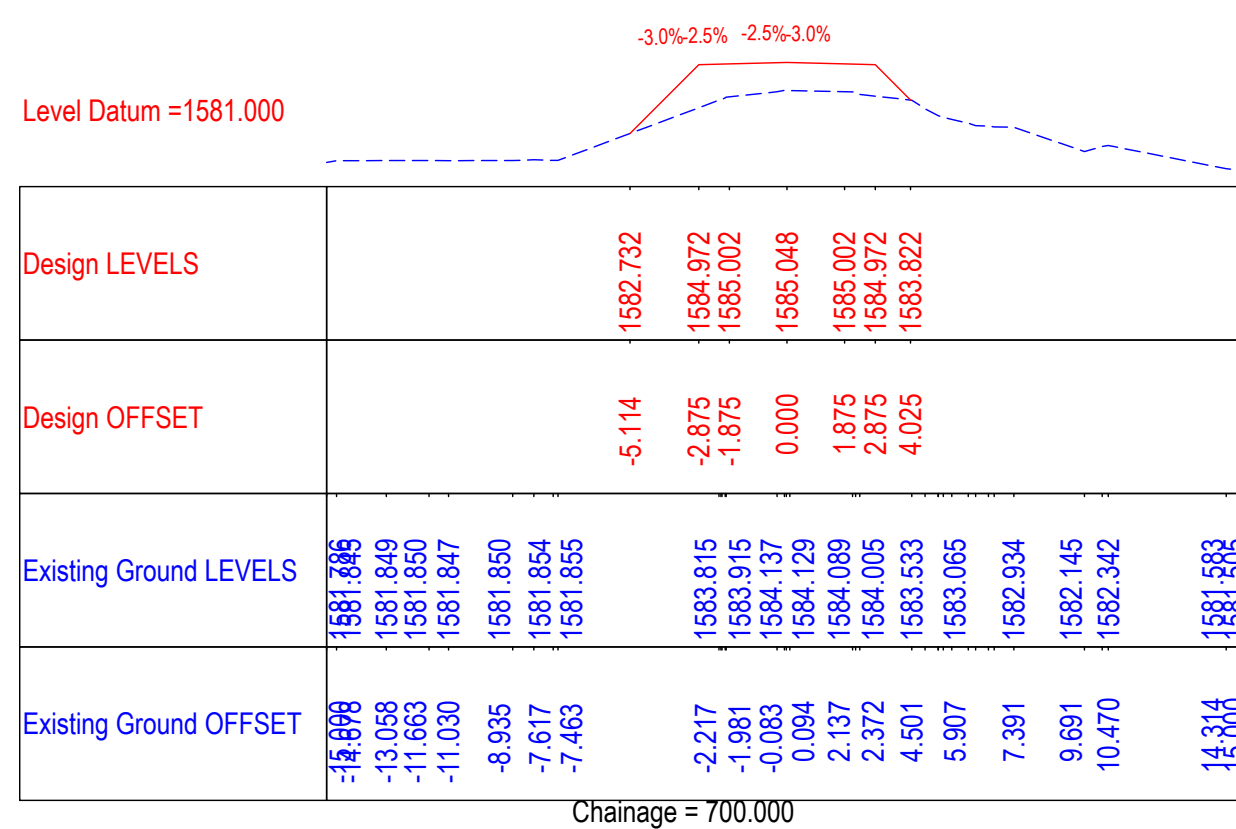
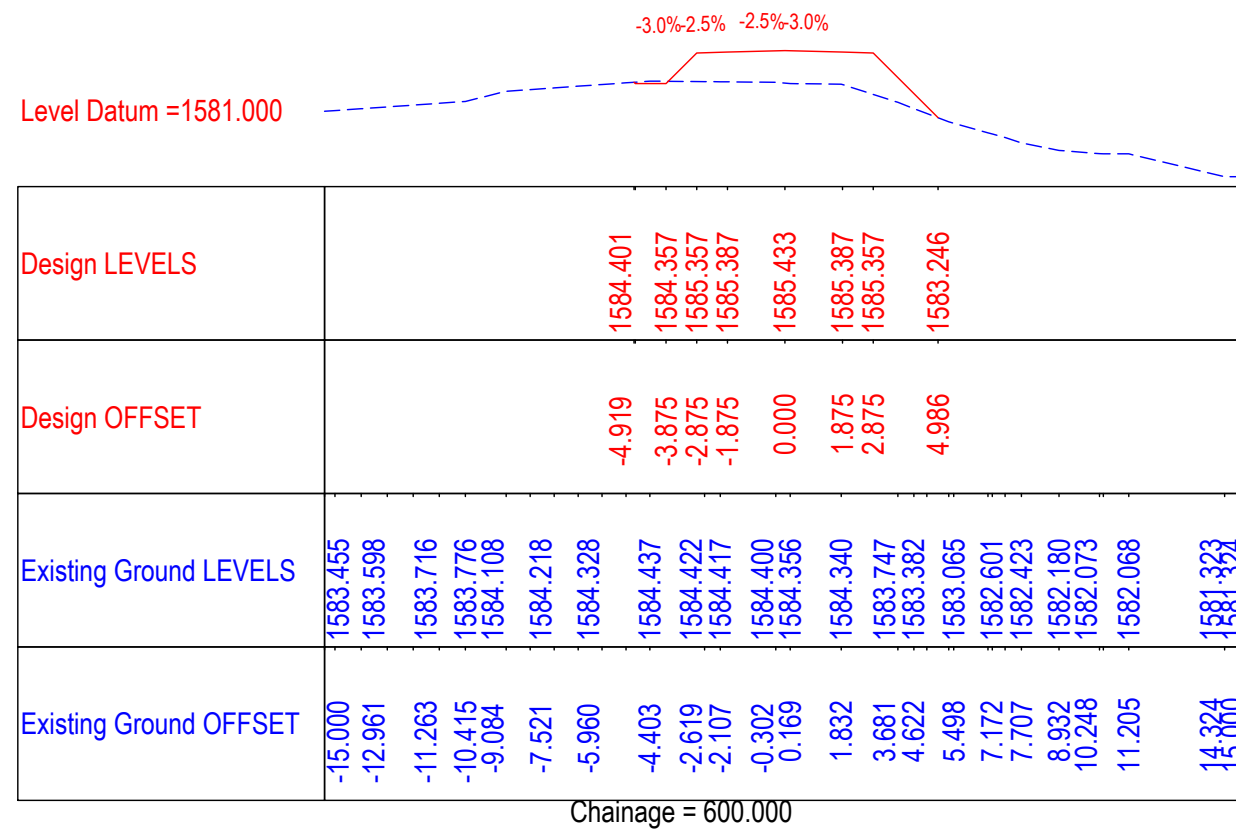


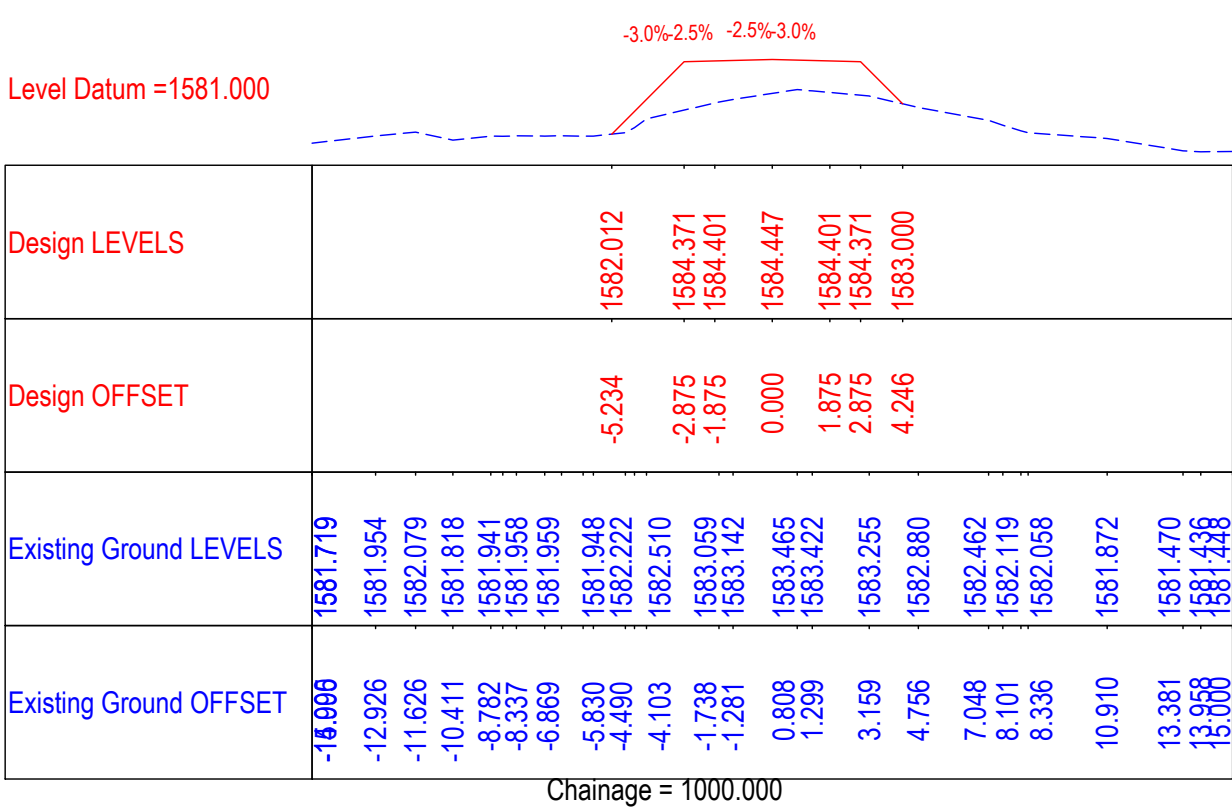
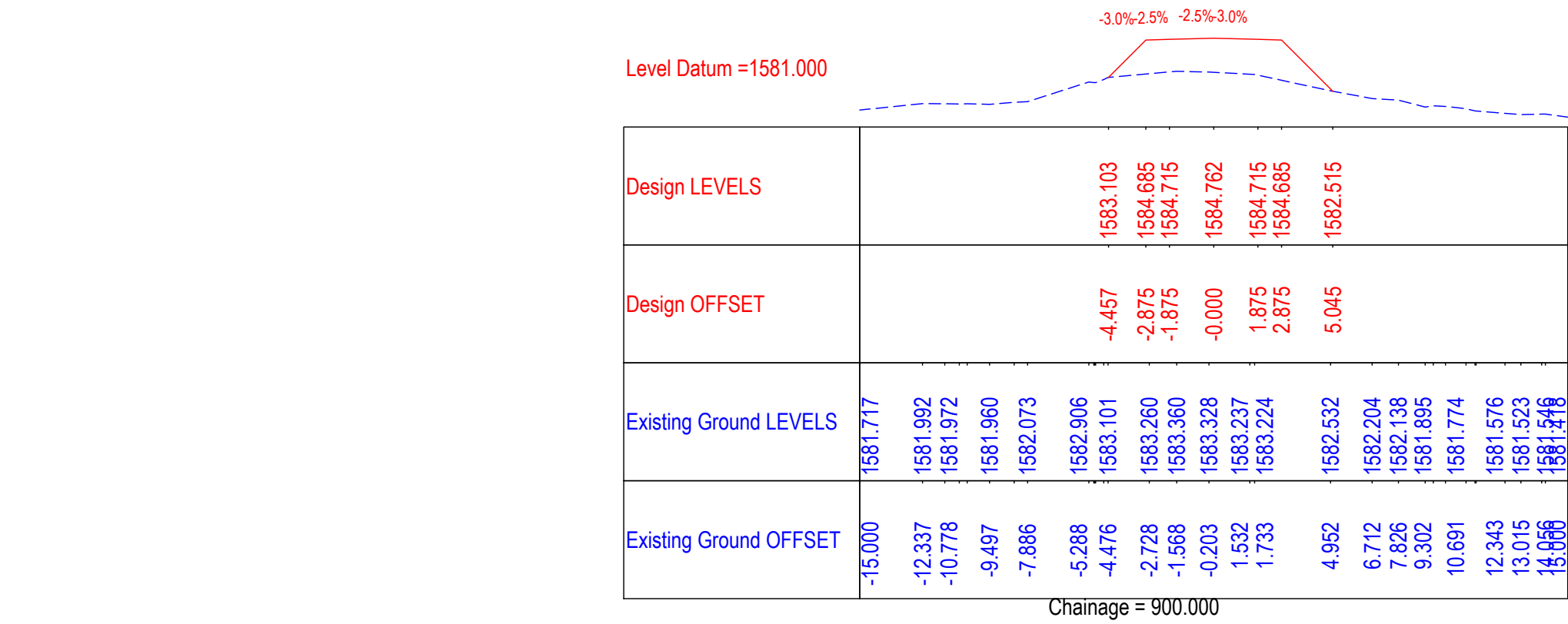
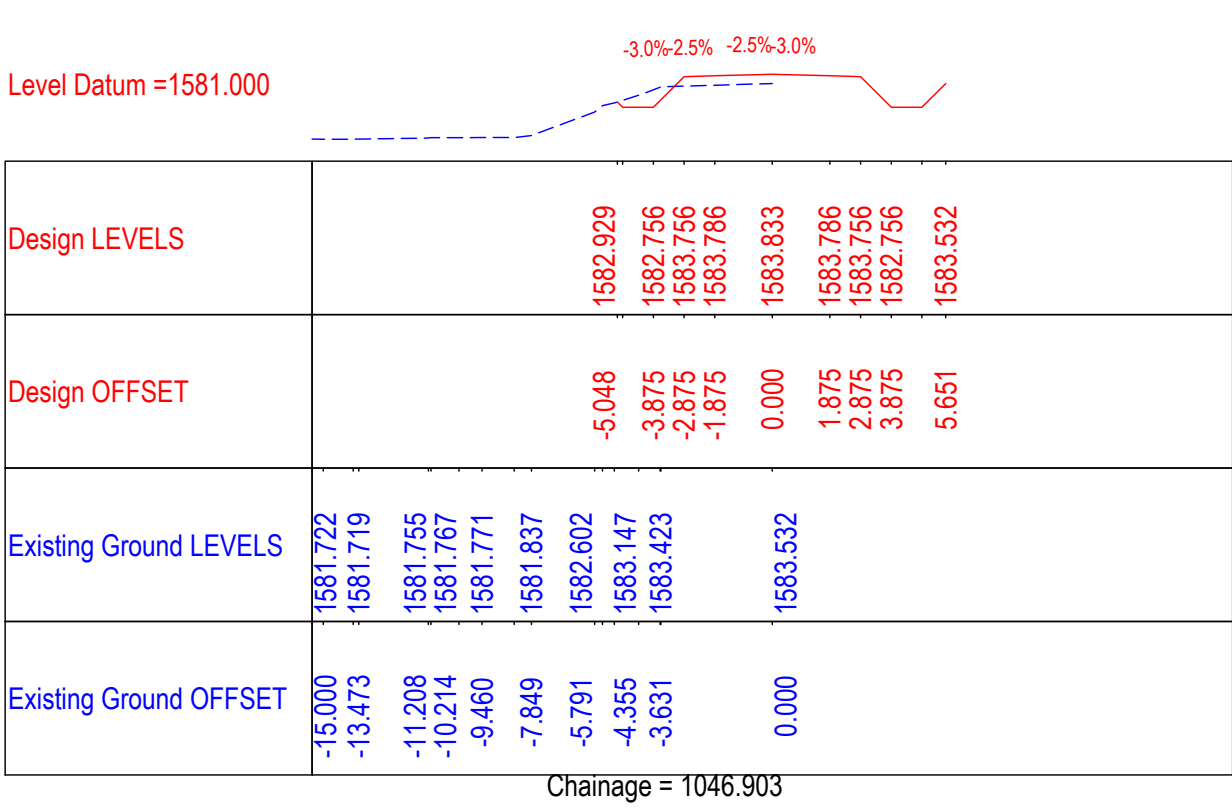
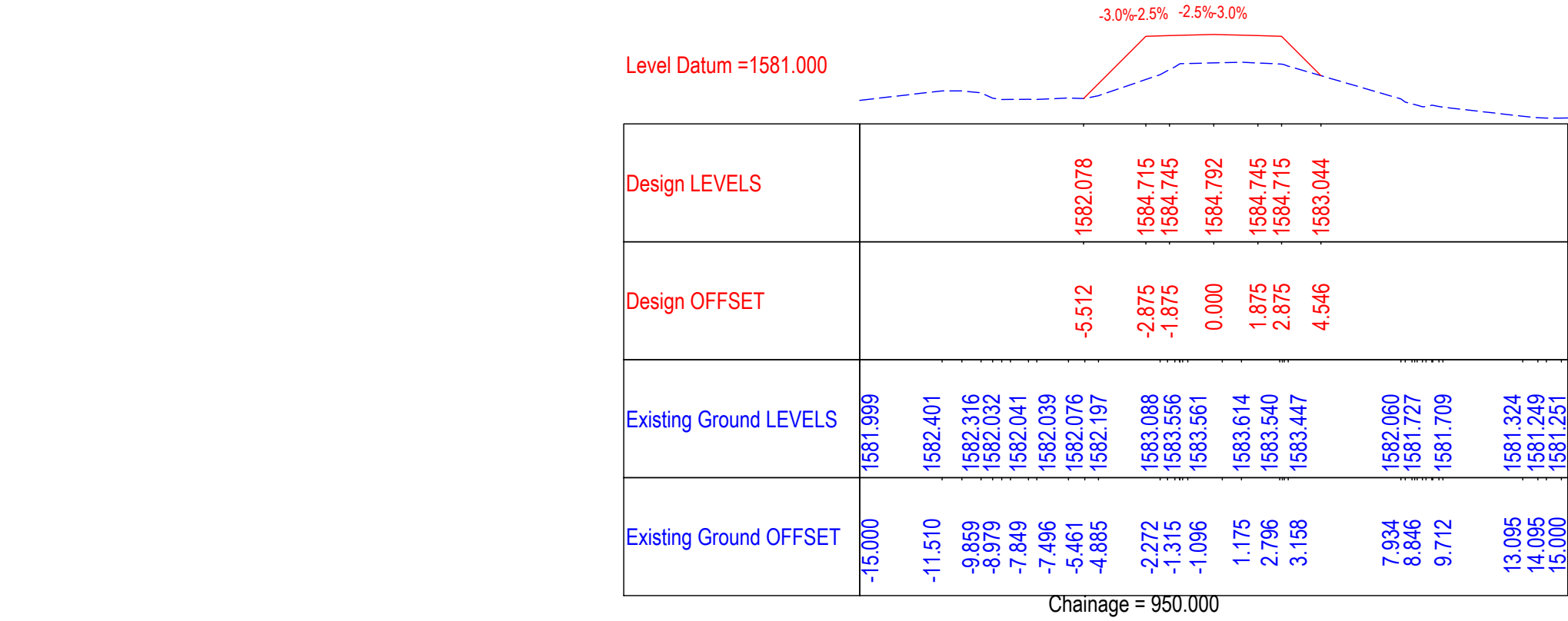
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Ph: 033-40347200
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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE	1 : 250

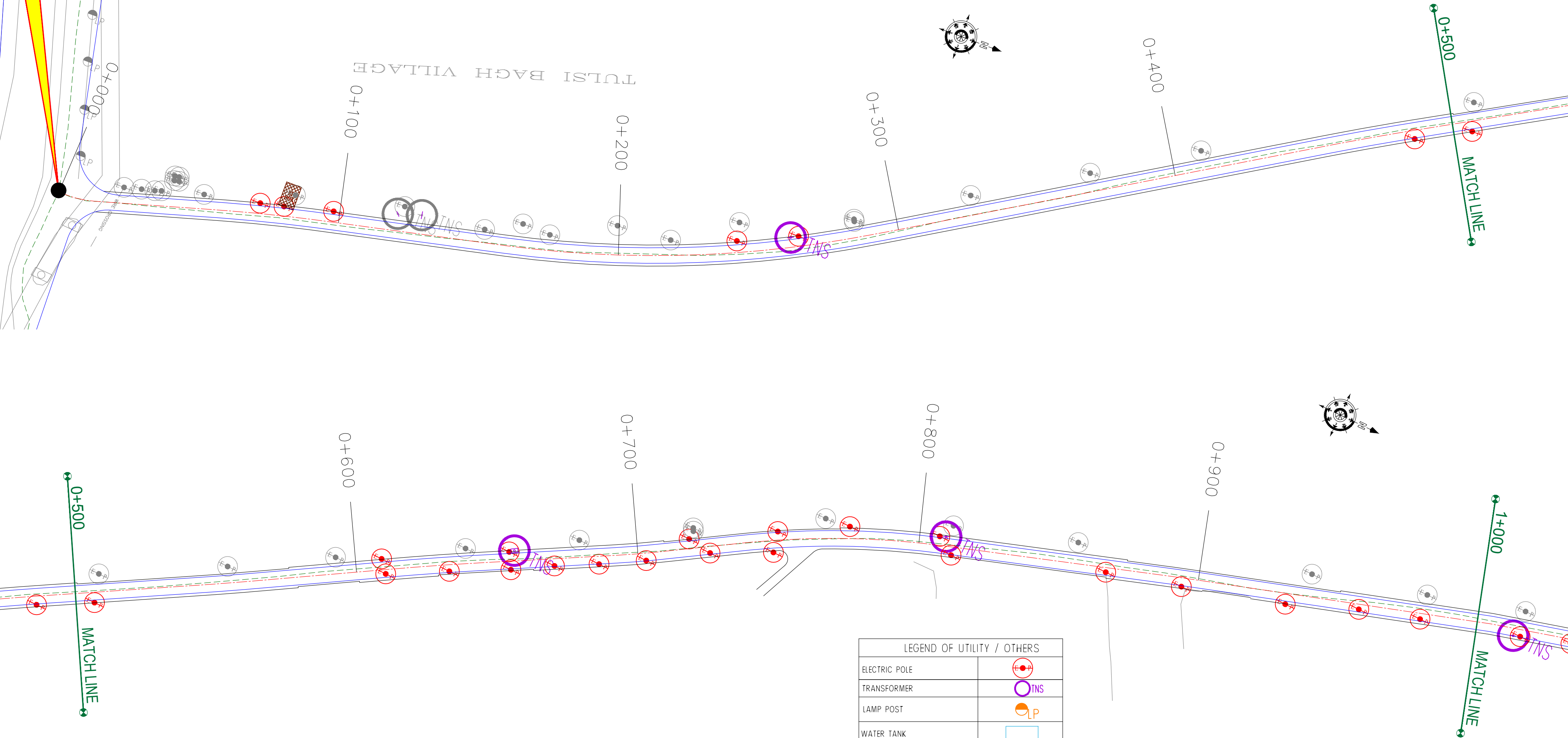
TITLE :	Detailed Cross Section (For Link Road No.1) (Ch.0+300 to Ch.0+550)
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/DCS/Link Road/02
REVISION : R-1	August 2019





≡ UTILITY RELOCATION PLAN FOR MAIN ROAD (ELECTRICITY DEPARTMENT) ≡

Start of Project Road



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	11	15
TRANSFORMER (TNS)	03	0
LAMP POST (LP)	0	0
EP BOX	01	0

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



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Unit 1203, 12th Floor, Tower 1, PS Srijan
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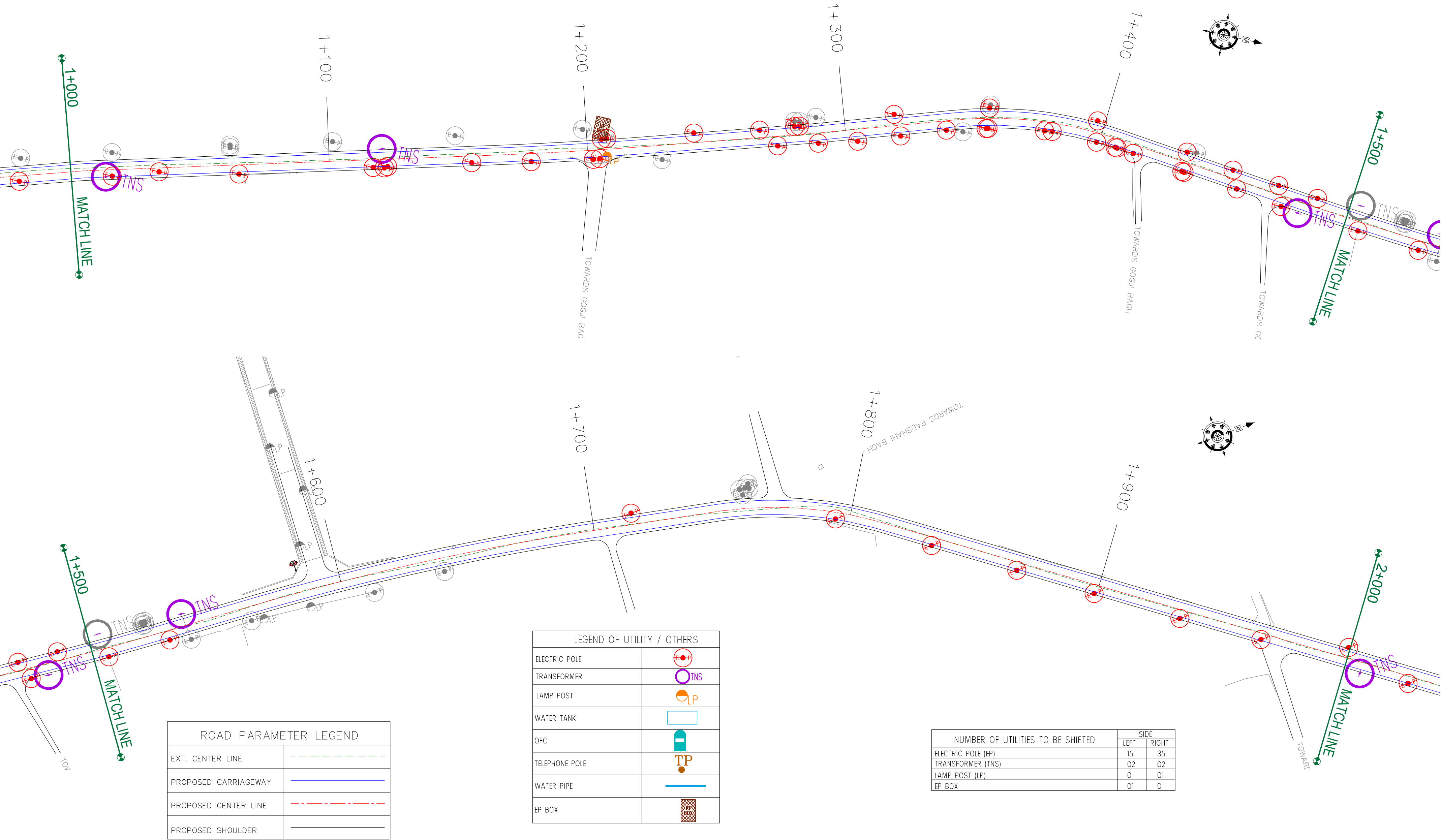
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Electricity Department) (Ch. 0+000 to Ch. 1+000)
DRG. NO. :	EPTISA/JTRP/DPR/J&K/URP/01
REVISION : R-1	August 2019

← Rambagh

Kadalbal →



CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



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Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
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REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : 1:1000

TITLE :

Utility Relocation Plan
(For Electricity Department)
(Ch. 1+000 to Ch. 2+000)

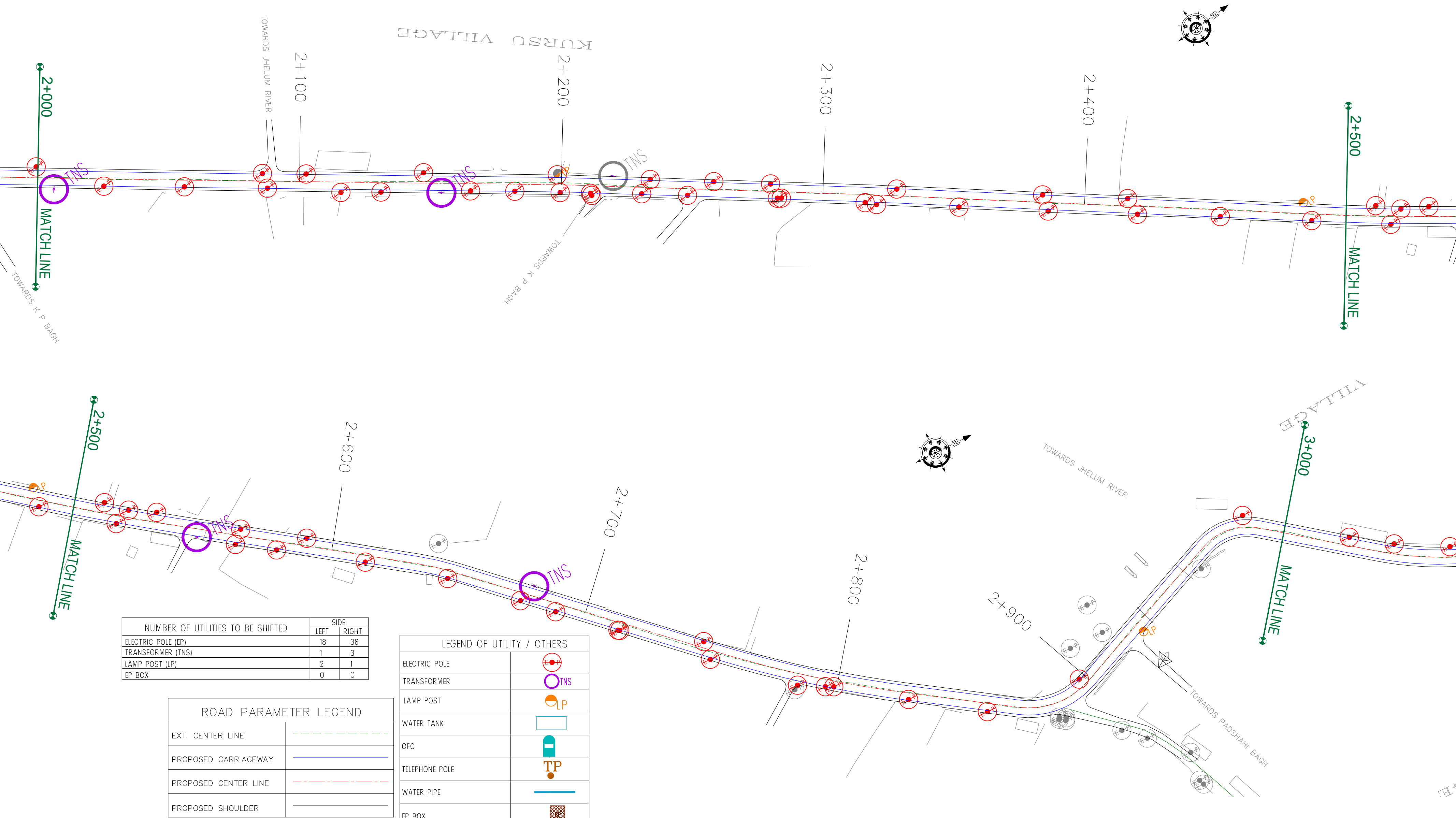
DRG. NO. : EPTISA/JTRP/DPR/J&K/URP/02

REVISION : R-1

August 2019

← Rambagh

Kadalbal →



NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	18	36
TRANSFORMER (TNS)	1	3
LAMP POST (LP)	2	1
EP BOX	0	0

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	●
TRANSFORMER	○ TNS
LAMP POST	○ LP
WATER TANK	□
OFC	■
TELEPHONE POLE	● TP
WATER PIPE	—
EP BOX	■

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



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West Bengal
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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Electricity Department) (Ch. 2+000 to Ch. 3+000)
DRG. NO. :	EPTISA/JTRP/DPR/J&K/URP/03
REVISION : R-1	August 2019

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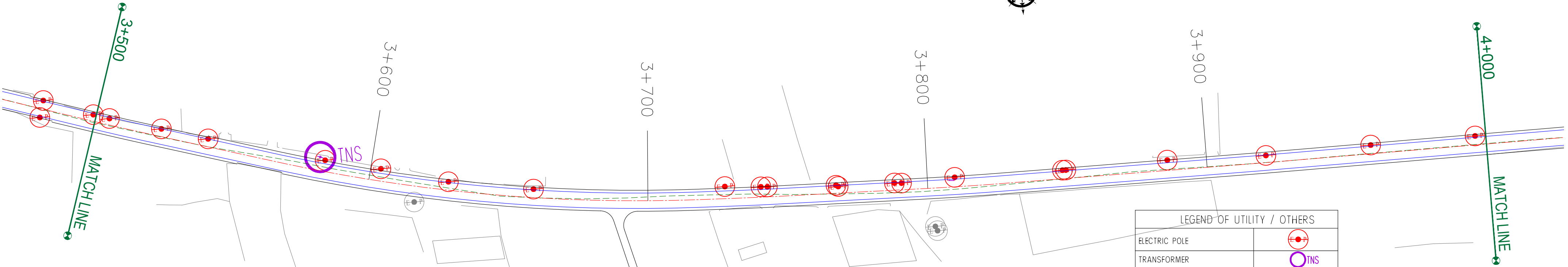
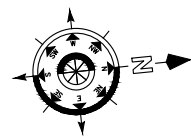
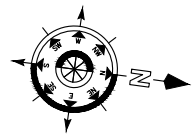
TOWARDS JHELUM RIVER

TOWARDS GANDABAL

TOWARDS PADSHAHI BAGH

PADSHAHI BAGH

SHIV PORA VILLAGE



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	37	24
TRANSFORMER (TNS)	2	1
LAMP POST (LP)	0	0
EP BOX	0	0

LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

CLIENT :




Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
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DESIGN CONSULTANT:



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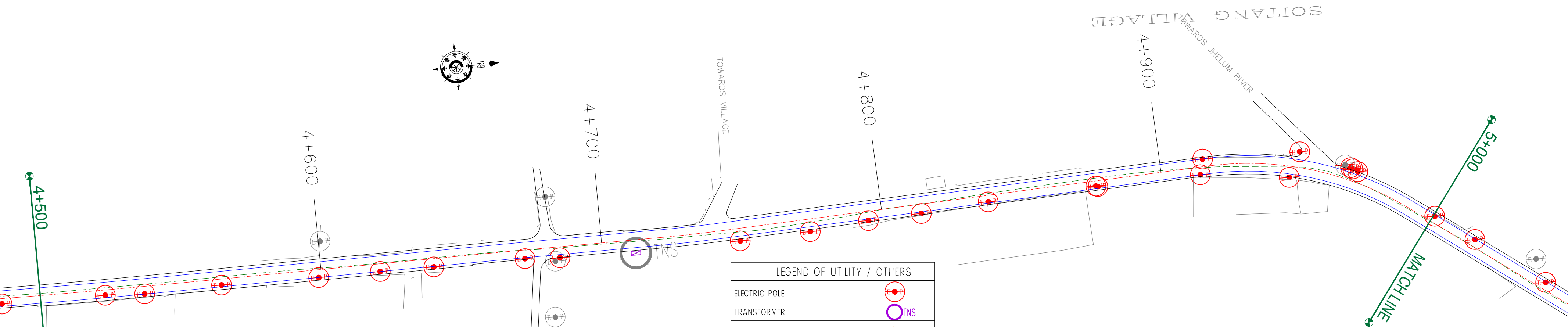
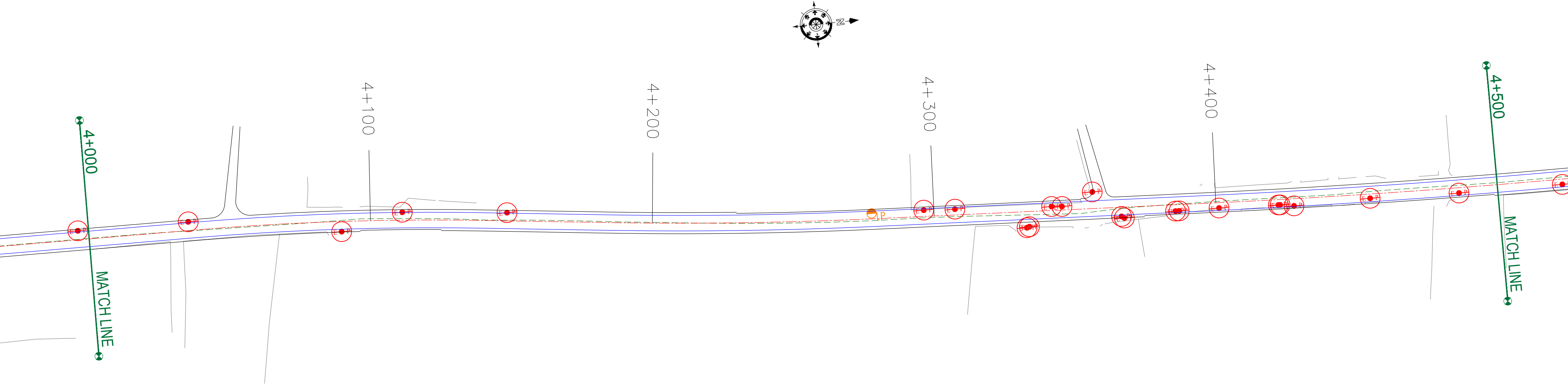
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Electricity Department) (Ch. 3+000 to Ch. 4+000)
DRG. NO. :	EPTISA/JTRP/DPR/J&K/URP/04
REVISION : R-1	August 2019

← Rambagh

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ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	EP
TRANSFORMER	TNS
LAMP POST	LP
WATER TANK	WT
OFC	OFC
TELEPHONE POLE	TP
WATER PIPE	WP
EP BOX	EP BOX

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	13	30
TRANSFORMER (TNS)	0	0
LAMP POST (LP)	1	0
EP BOX	0	0

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



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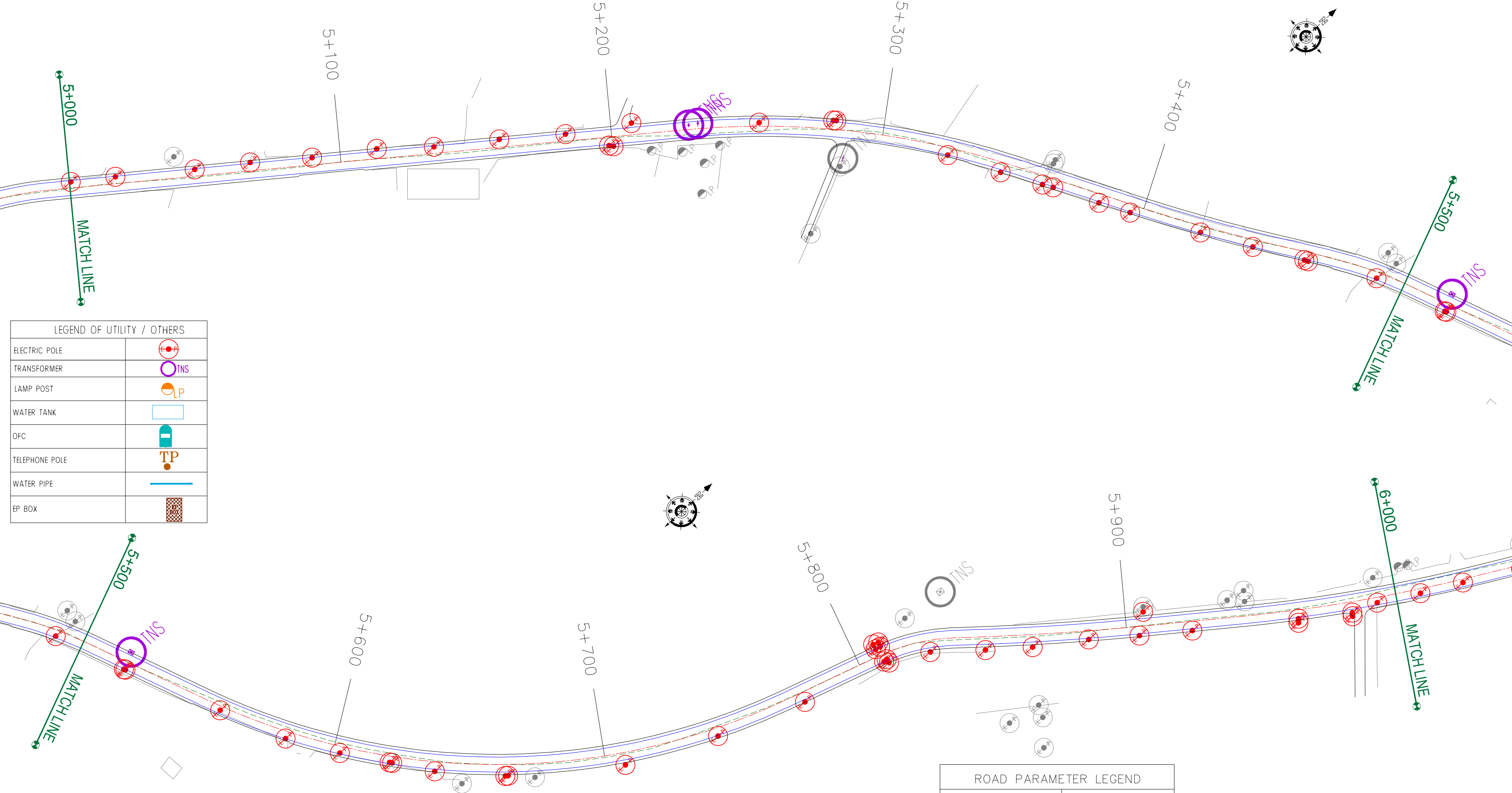
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Electricity Department) (Ch. 4+000 to Ch. 5+000)	
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/URP/05	
REVISION : R-1	August 2019	

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LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	18	40
TRANSFORMER (TNS)	3	0
LAMP POST (LP)	0	0
EP BOX	0	0

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



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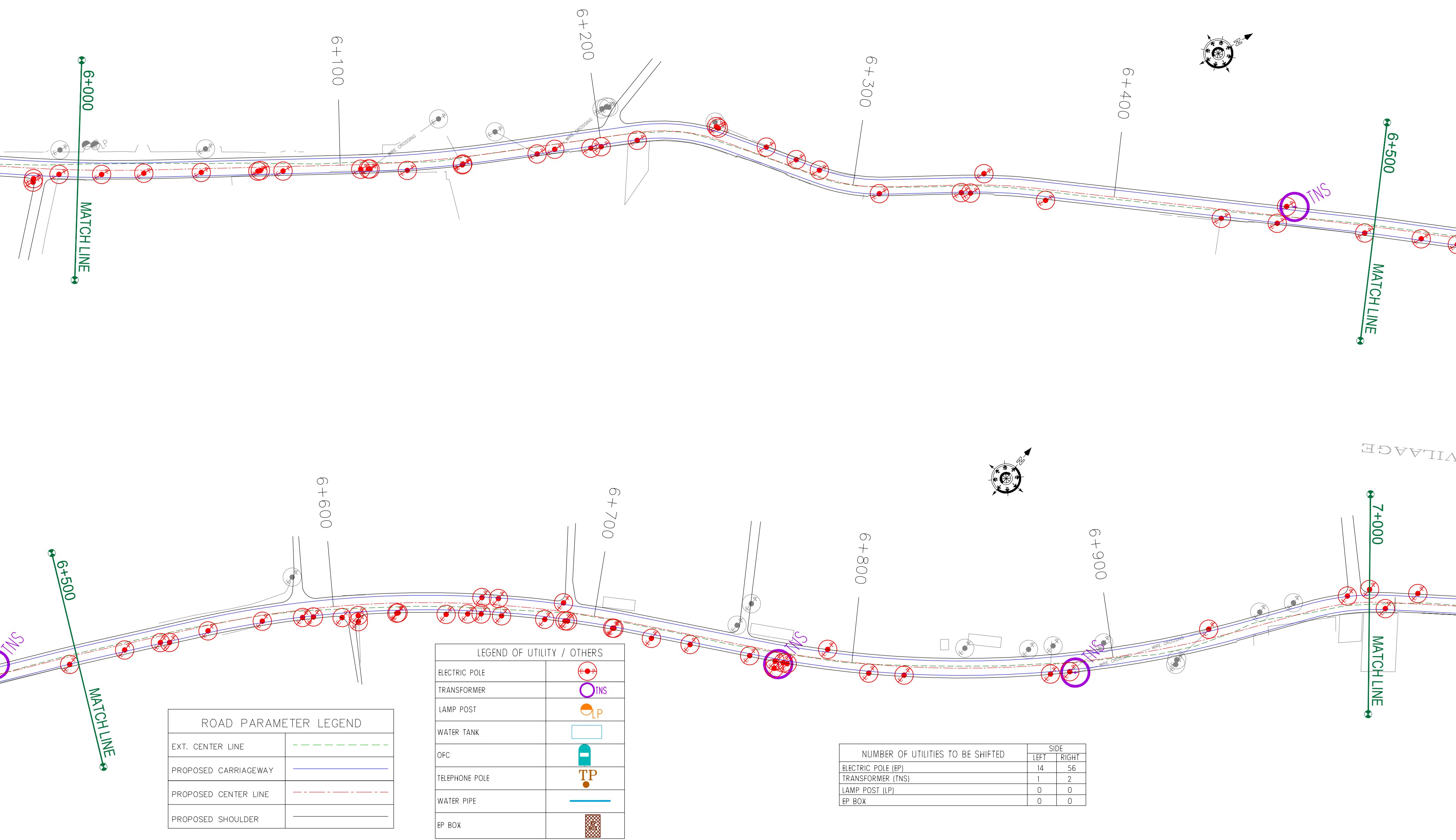
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DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Electricity Department) (Ch. 5+000 to Ch. 6+000)
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/URP/06
REVISION : R-1	August 2019

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Kadalbal →



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	●
TRANSFORMER	○ TNS
LAMP POST	○ LP
WATER TANK	□
OFC	□
TELEPHONE POLE	● TP
WATER PIPE	—
EP BOX	■

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	14	56
TRANSFORMER (TNS)	1	2
LAMP POST (LP)	0	0
EP BOX	0	0

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

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(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



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West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : 1:1000

TITLE :

Utility Relocation Plan
(For Electricity Department)
(Ch. 6+000 to Ch. 7+000)

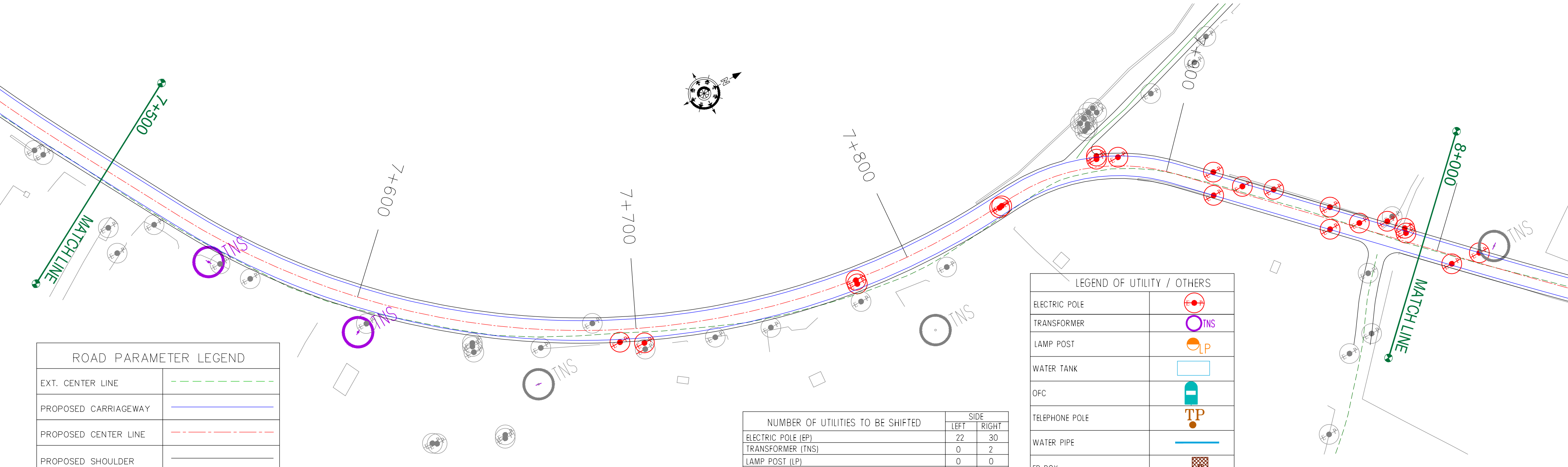
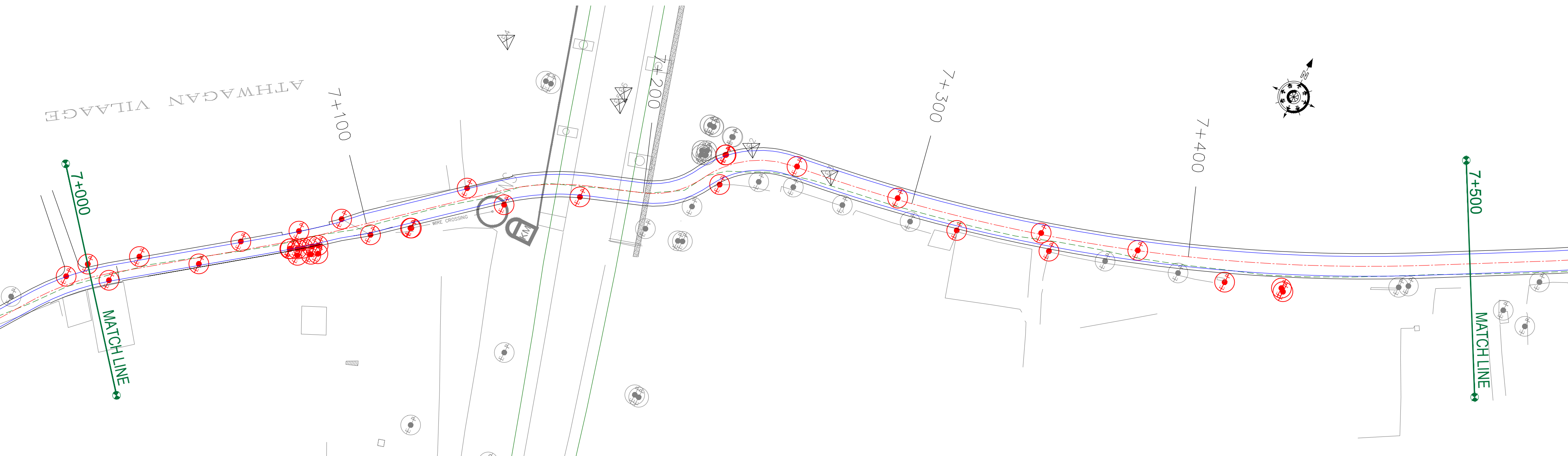
DRG. NO. : EPTISA/JTRP/DPR/J&K/URP/07

REVISION : R-1

August 2019

← Rambagh

Kadalbal →



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	22	30
TRANSFORMER (TNS)	0	2
LAMP POST (LP)	0	0
EP BOX	0	0

LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	EP
TRANSFORMER	TNS
LAMP POST	LP
WATER TANK	WT
OFC	OFC
TELEPHONE POLE	TP
WATER PIPE	WP
EP BOX	EP BOX

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

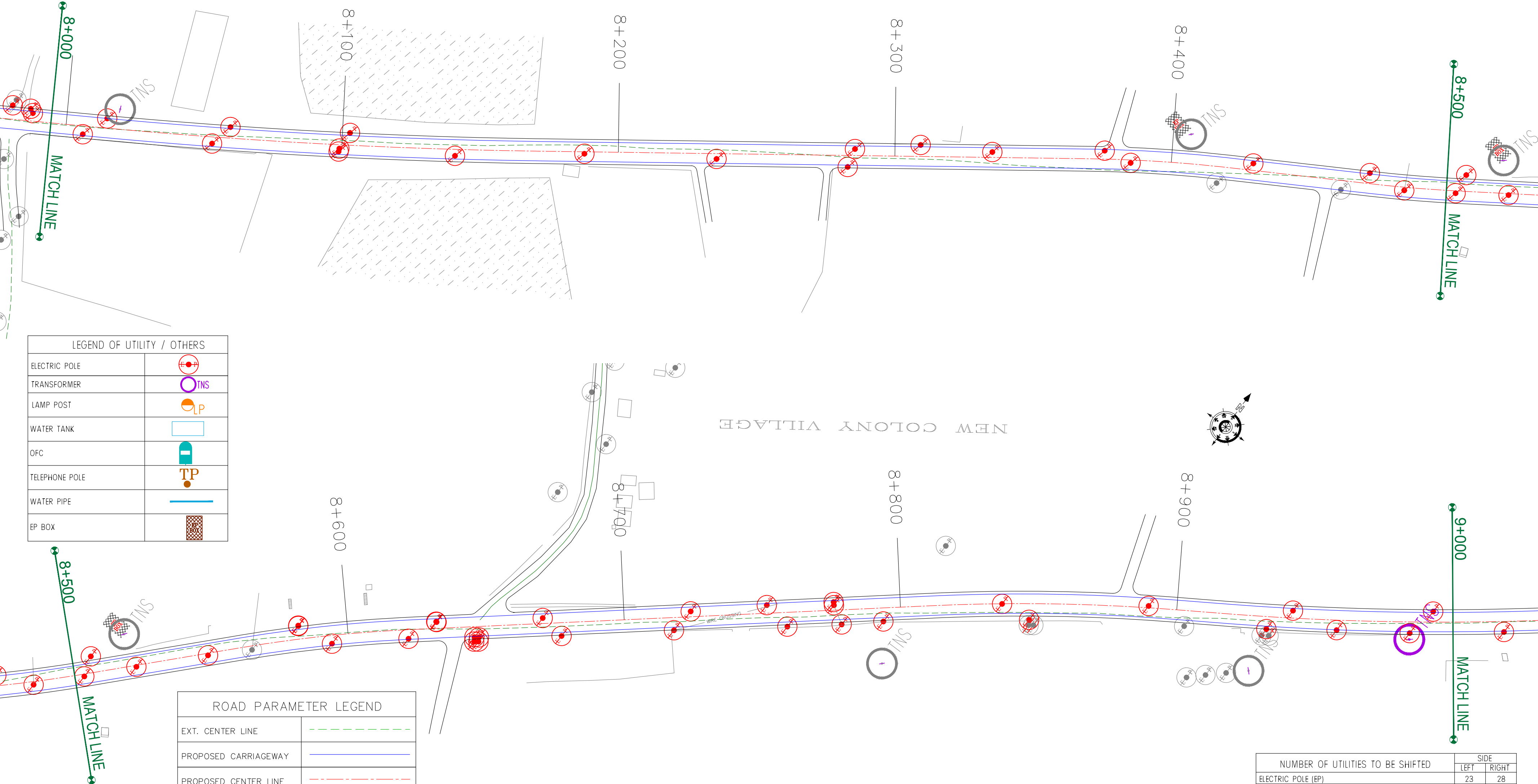
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Electricity Department) (Ch. 7+000 to Ch. 8+000)
DRG. NO. :	EPTISA/JTRP/DPR/J&K/URP/08
REVISION : R-1	August 2019

← Rambagh

Kadalbal →



LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	23	28
TRANSFORMER (TNS)	0	1
LAMP POST (LP)	0	0
EP BOX	2	0

CLIENT :

Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:

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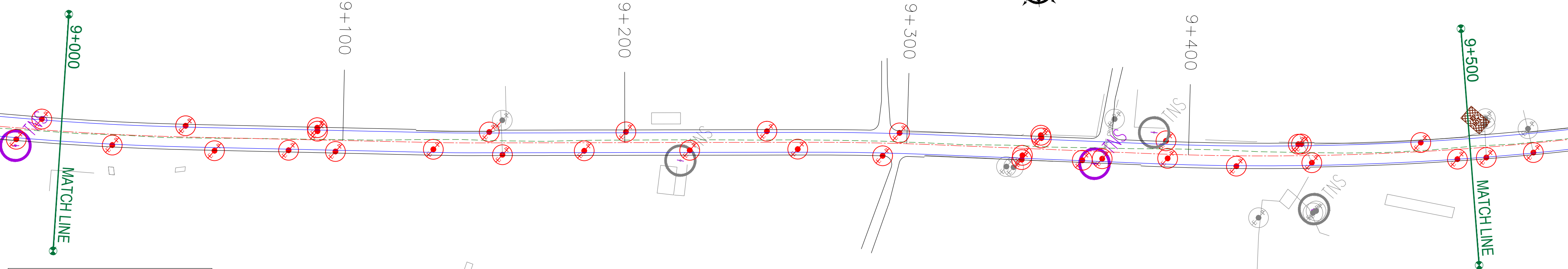
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

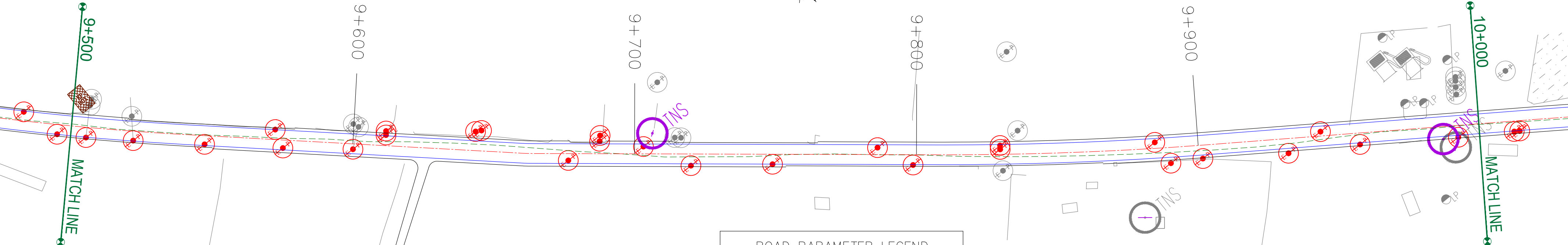
TITLE :	Utility Relocation Plan (For Electricity Department) (Ch. 8+000 to Ch. 9+000)
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/URP/09
REVISION : R-1	August 2019

← Rambagh

Kadalbal →



LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	26	32
TRANSFORMER (TNS)	1	2
LAMP POST (LP)	0	0
EP BOX	1	0

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
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(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



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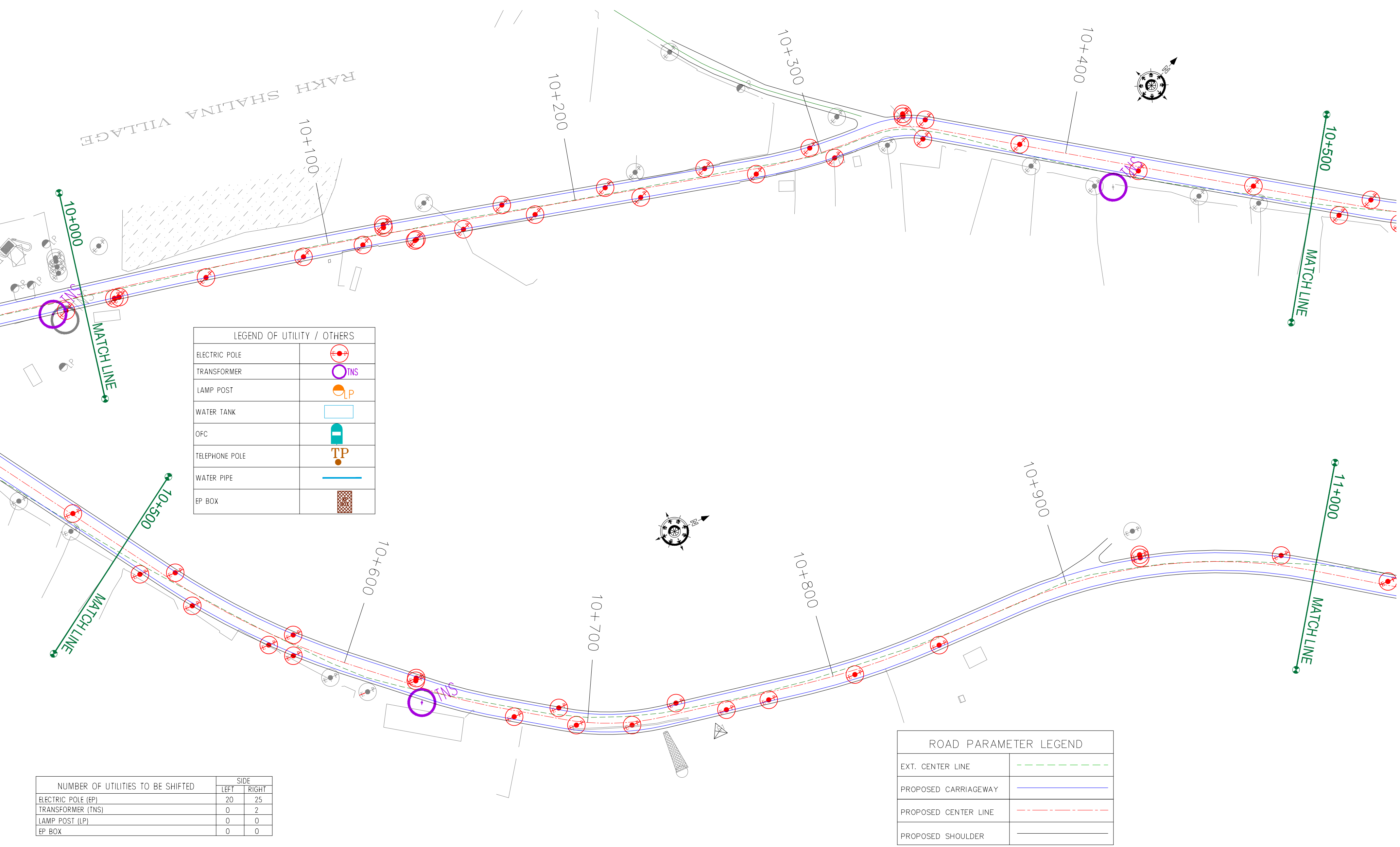
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE : Utility Relocation Plan (For Electricity Department) (Ch. 9+000 to Ch. 10+000)	
DRG. NO. : EPTISA/JTRFP/DPR/J&K/URP/10	
REVISION : R-1	August 2019

← Rambagh

Kadalbal →



CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

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DESIGN CONSULTANT:



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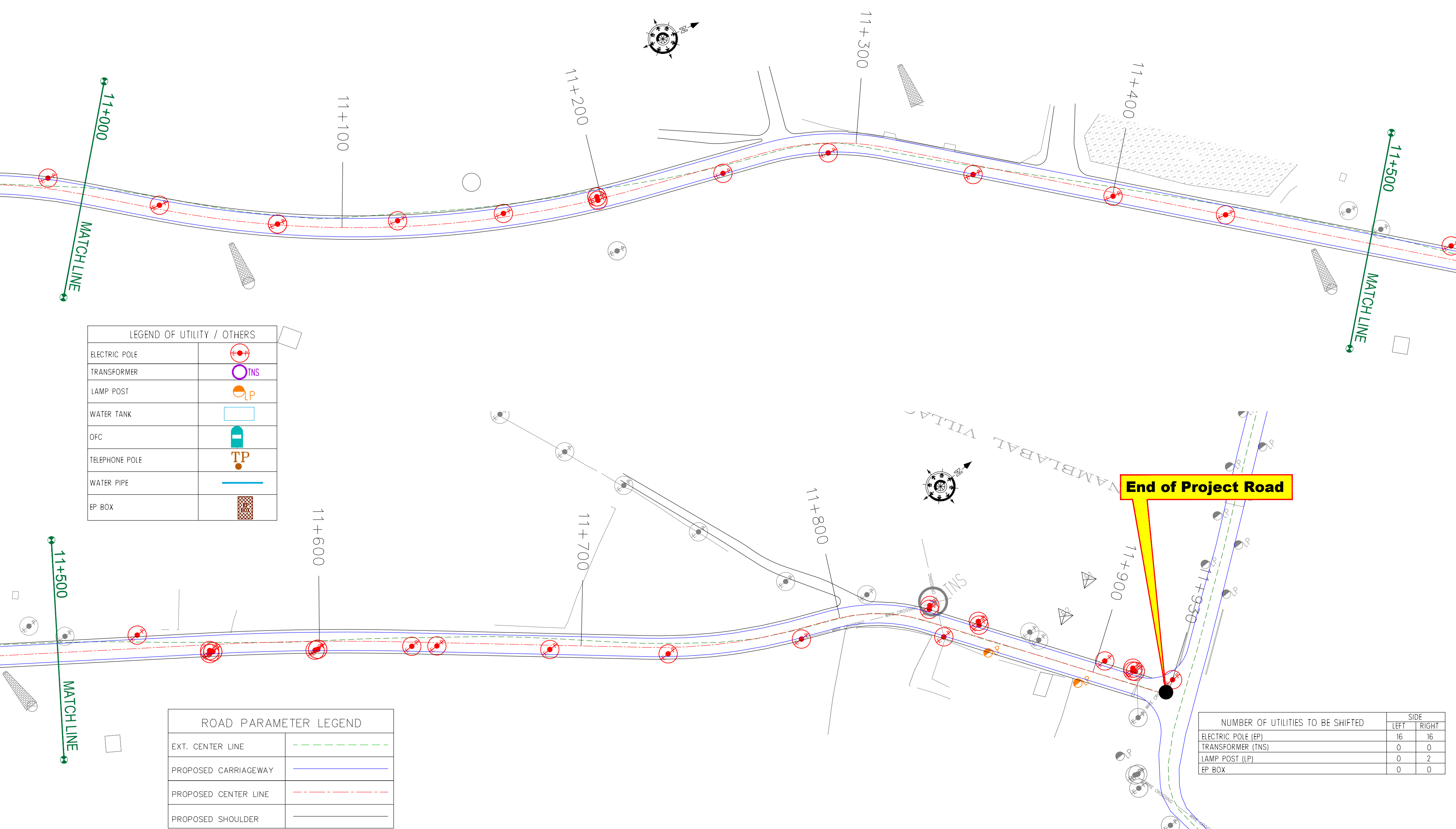
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Electricity Department) (Ch. 10+000 to Ch. 11+000)
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/URP/11
REVISION : R-1	August 2019

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Kadalbal →



CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



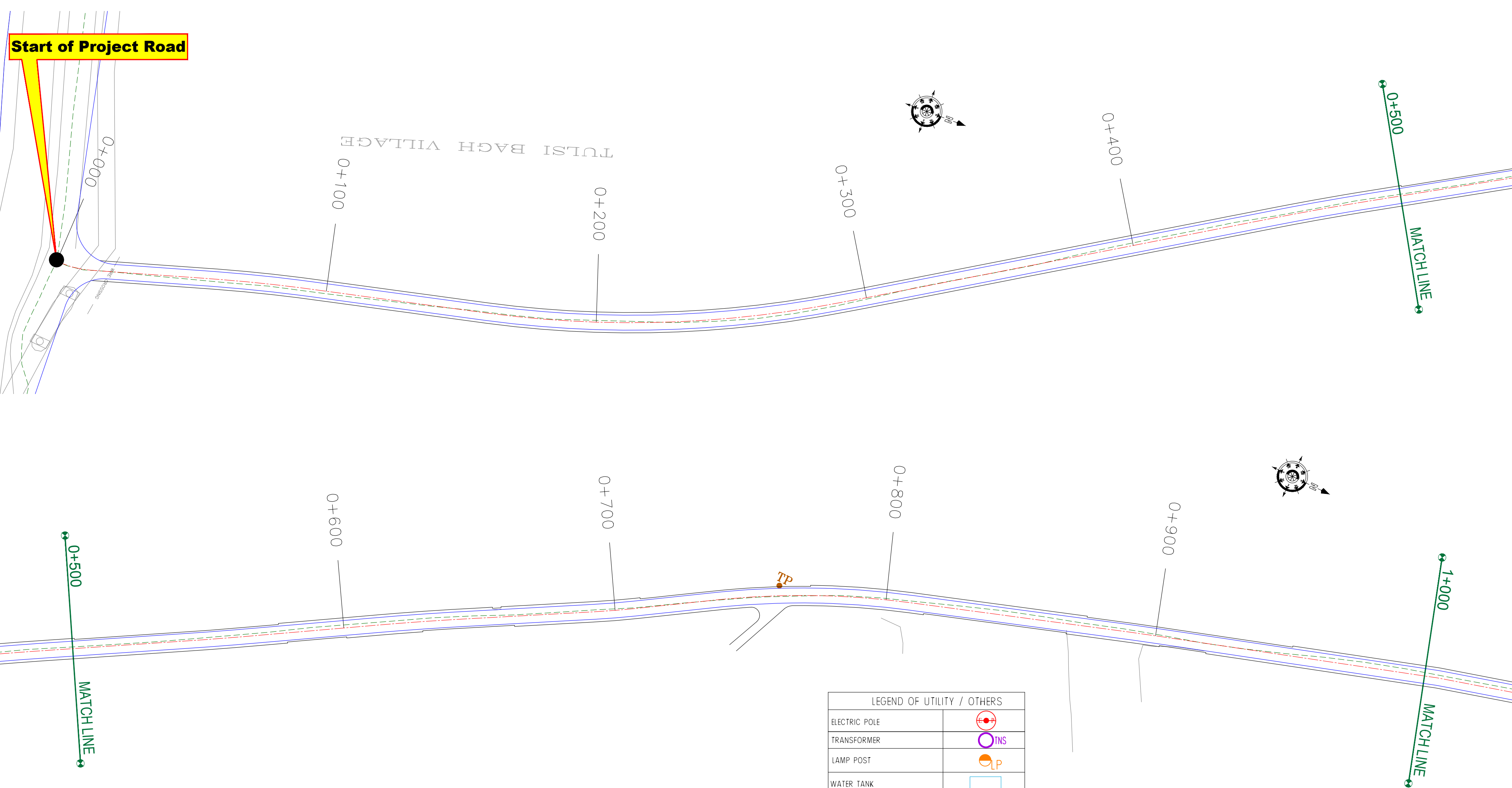
Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Electricity Department) (Ch. 11+000 to Ch. 11+930)
DRG. NO. :	EPTISA/JTFRP/DPR/J&K/URP/12
REVISION : R-1	August 2019

≡ UTILITY RELOCATION PLAN FOR MAIN ROAD (TELEPHONE DEPARTMENT) ≡



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
TELEPHONE POLE (TP)	01	0
OFC	0	0

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



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Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
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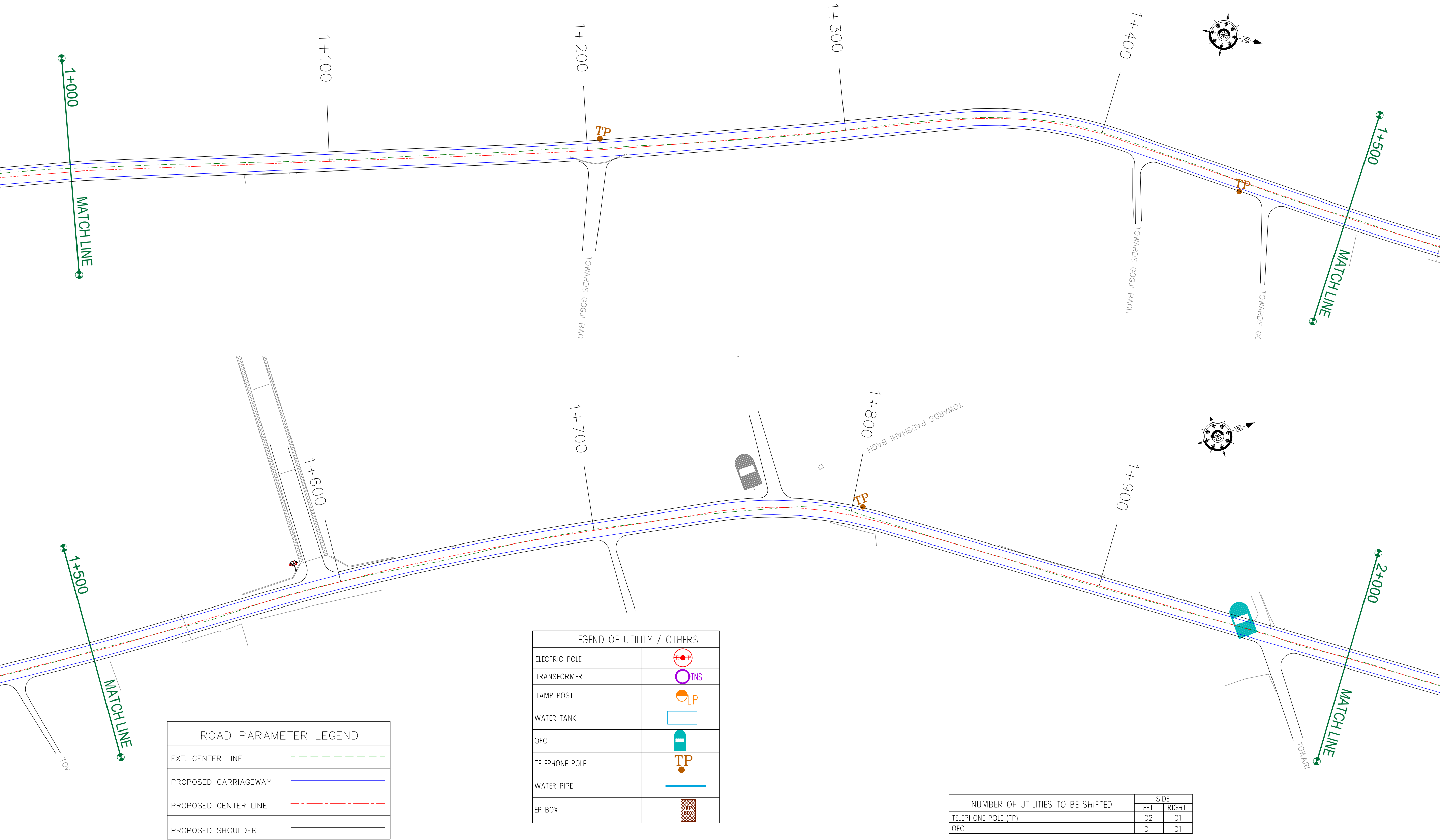
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Telephone Department) (Ch. 0+000 to Ch. 1+000)	
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/URP/01	
REVISION : R-1	August 2019	

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Kadalbal →



CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



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Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
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REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : 1:1000

TITLE : Utility Relocation Plan
(For Telephone Department)
(Ch. 1+000 to Ch. 2+000)

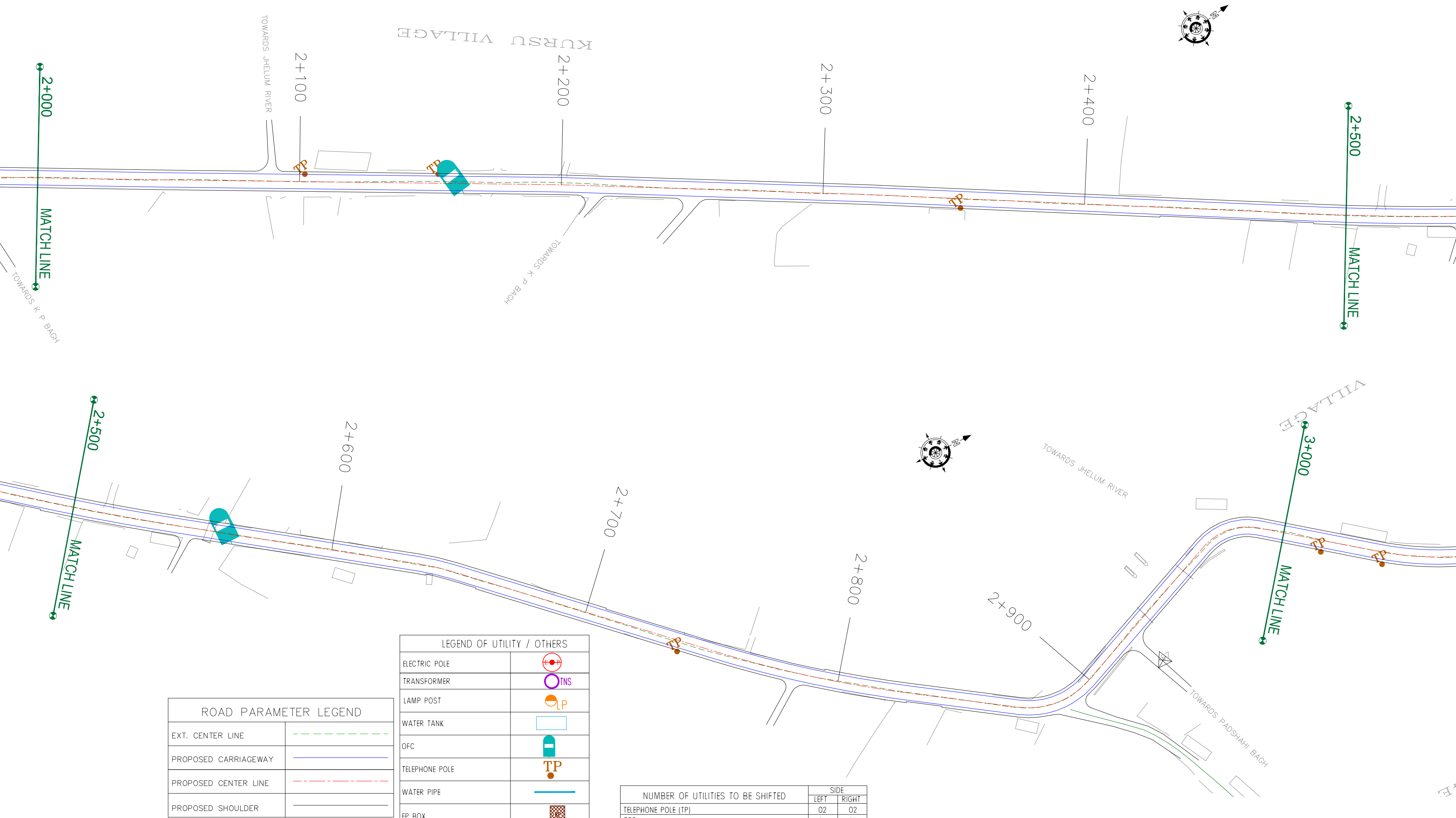
DRG. NO. : EPTISA/JTRFP/DPR/J&K/URP/02

REVISION : R-1

August 2019

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Kadalbal →



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
TELEPHONE POLE (TP)	02	02
OFC	0	02

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



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West Bengal
Ph: 033-40347200
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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Telephone Department) (Ch. 2+000 to Ch. 3+000)
DRG. NO. :	EPTISA/JTFRP/DPR/J&K/URP/03
REVISION : R-1	August 2019

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Kadalbal →

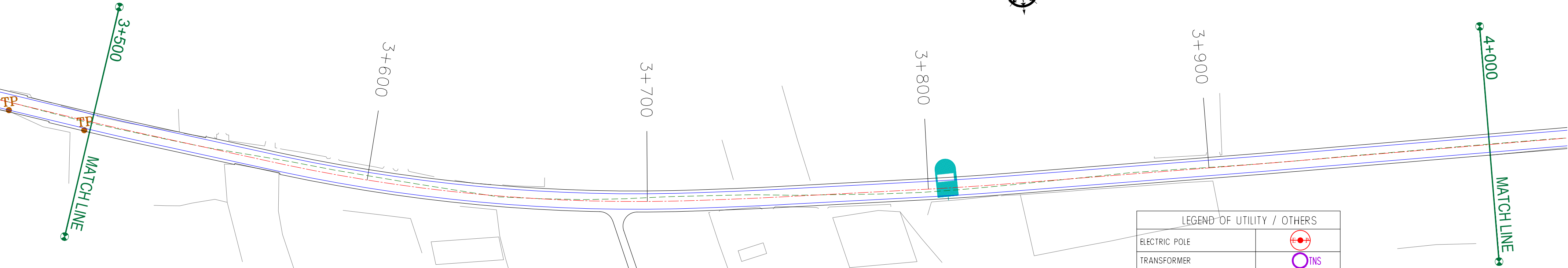
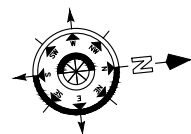
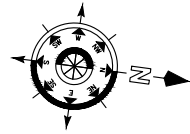
TOWARDS JHELUM RIVER

TOWARDS GANDABAL

TOWARDS PADSHAHI BAGH

PADSHAHI BAGH

SHIV PORA VILLAGE



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
TELEPHONE POLE (TP)	0	08
OFC	0	01

LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



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Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

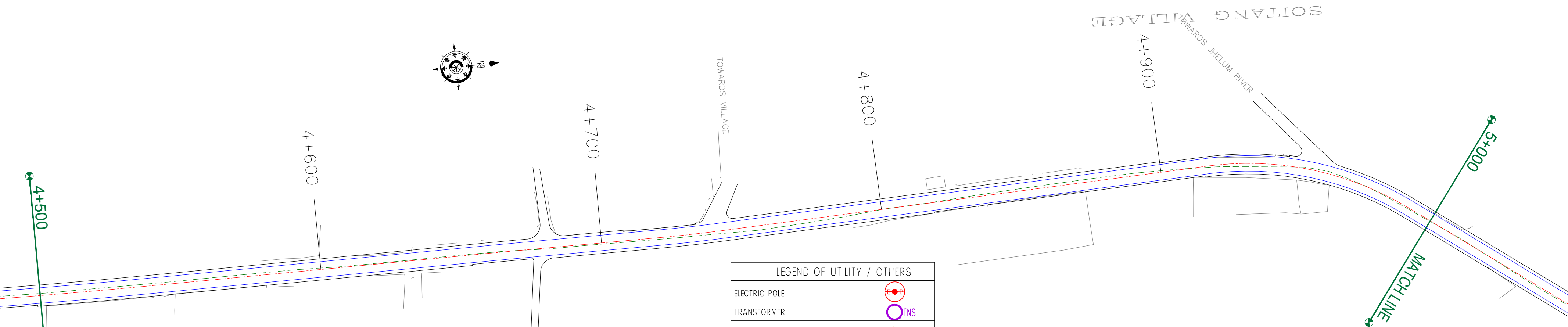
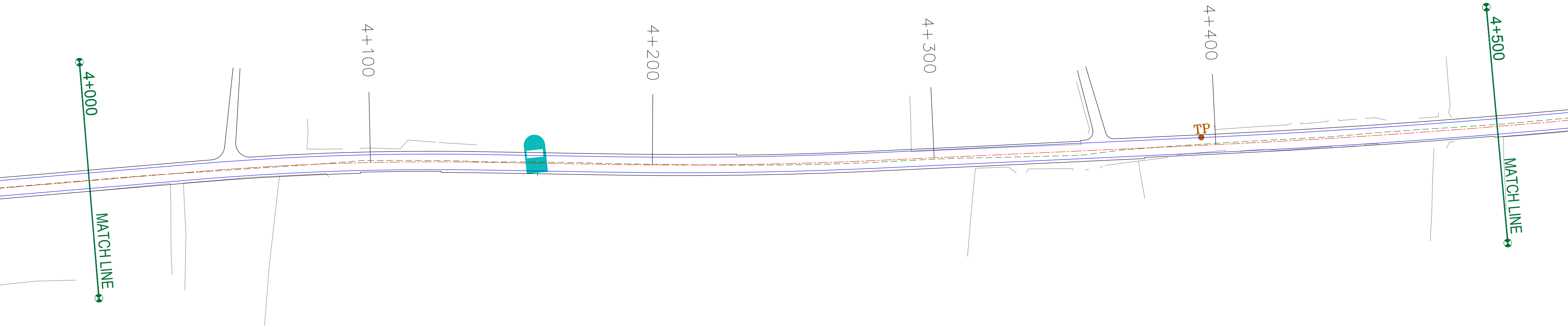
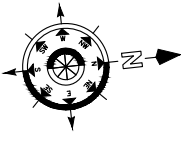
TITLE : **Utility Relocation Plan**
(For Telephone Department)
(Ch. 3+000 to Ch. 4+000)

DRG. NO. : EPTISA/JTRP/DPR/J&K/URP/04

REVISION : R-1 August 2019

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Kadalbal →



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
TELEPHONE POLE (TP)	01	0
OFC	0	01

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



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Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
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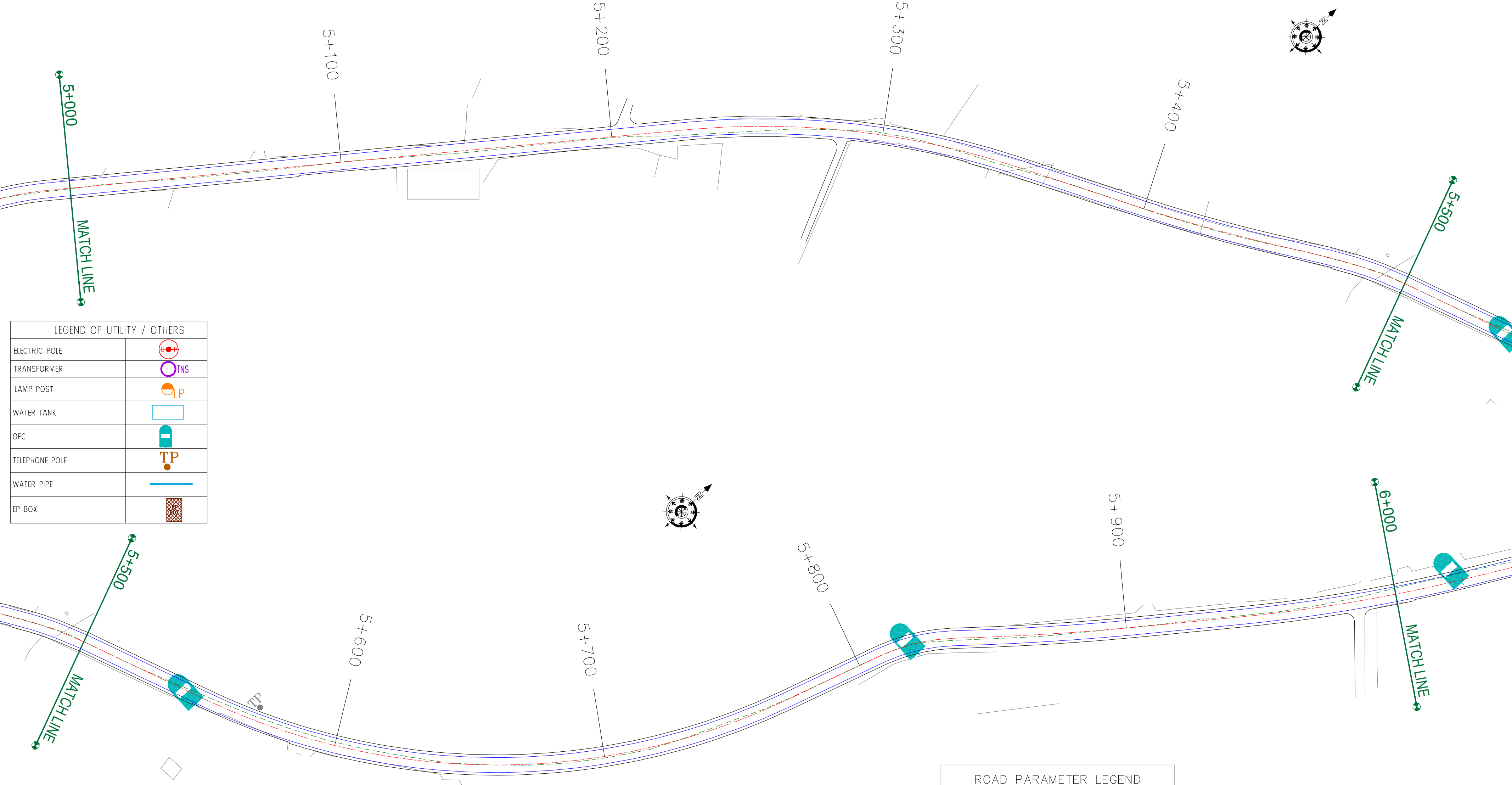
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Telephone Department) (Ch. 4+000 to Ch. 5+000)	
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/URP/05	
REVISION : R-1	August 2019	

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Kadalbal →



LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
TELEPHONE POLE (TP)	0	0
OFC	0	02

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

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for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



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Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE : **Utility Relocation Plan**
(For Telephone Department)
(Ch. 5+000 to Ch. 6+000)

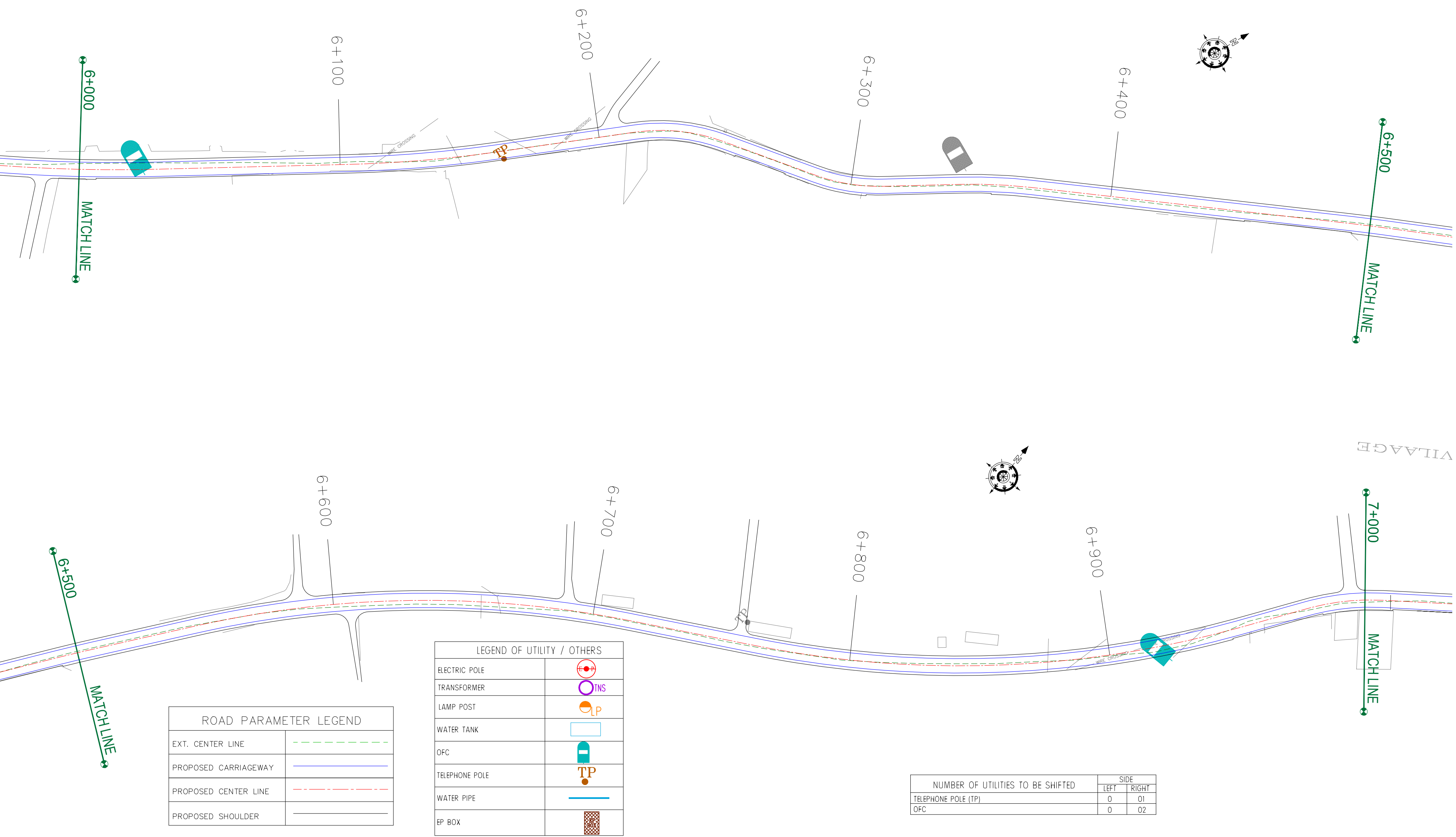
DRG. NO. : EPTISA/JTRFP/DPR/J&K/URP/06

REVISION : R-1

August 2019

← Rambagh

Kadalbal →



CLIENT :


Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
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(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:

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Unit 1203, 12th Floor, Tower 1, PS Srijan
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Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
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REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : 1:1000

TITLE : **Utility Relocation Plan**
(For Telephone Department)
(Ch. 6+000 to Ch. 7+000)

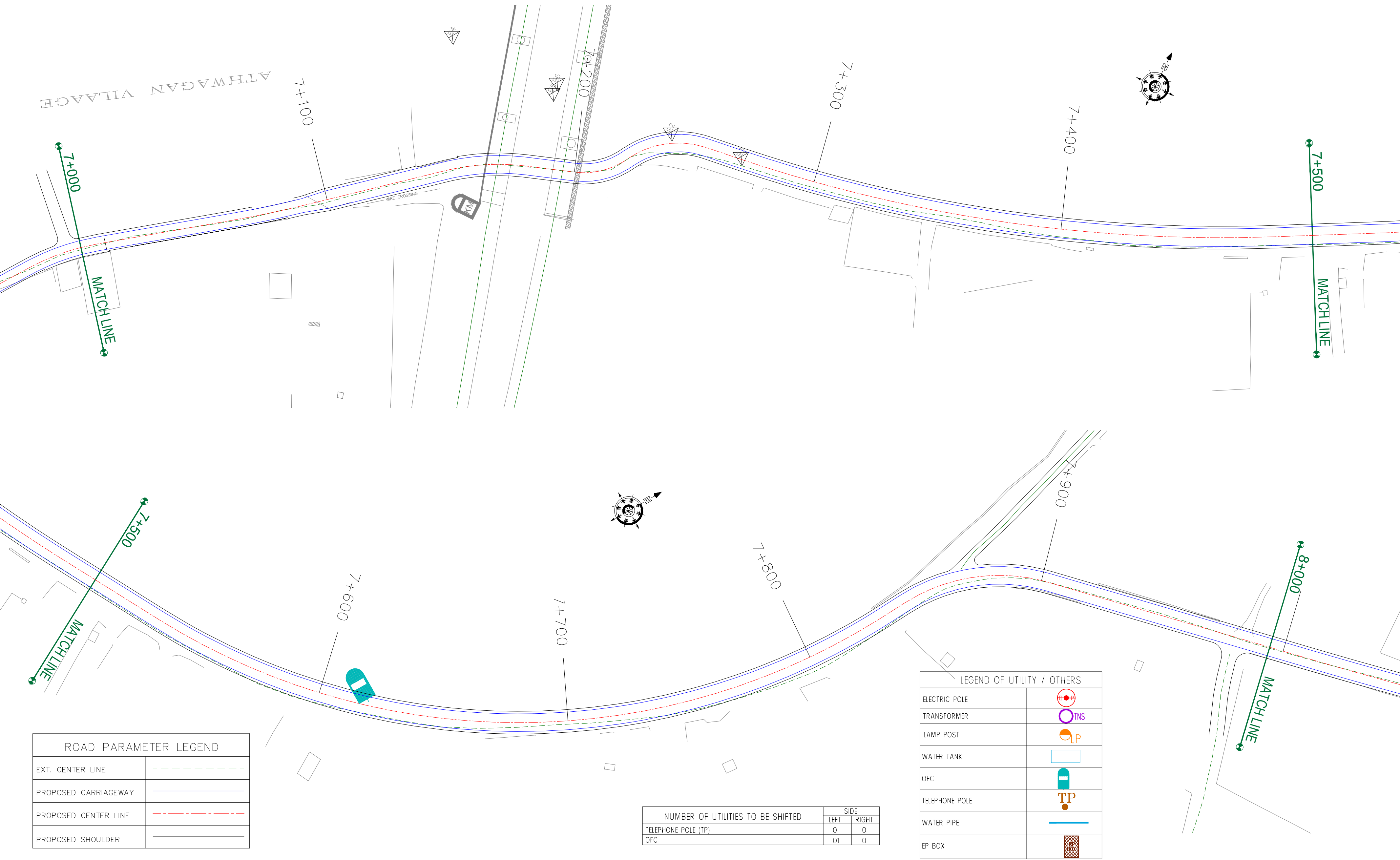
DRG. NO. : EPTISA/JTFRP/DPR/J&K/URP/07

REVISION : R-1

August 2019

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Kadalbal →



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
TELEPHONE POLE (TP)	0	0
OFC	01	0

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

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DESIGN CONSULTANT:



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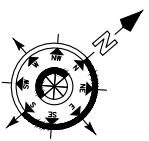
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Telephone Department) (Ch. 7+000 to Ch. 8+000)
DRG. NO. :	EPTISA/JTFRP/DPR/J&K/URP/08
REVISION : R-1	August 2019

← Rambagh

Kadalbal →



LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
TELEPHONE POLE (TP)	0	0
OFC	0	0

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

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West Bengal
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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Telephone Department) (Ch. 8+000 to Ch. 9+000)
DRG. NO. :	EPTISA/JTFRP/DPR/J&K/URP/09
REVISION : R-1	August 2019

← Rambagh

Kadalbal →



LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
TELEPHONE POLE (TP)	0	0
OFC	0	0

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

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DESIGN CONSULTANT:



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West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : 1:1000

TITLE :

Utility Relocation Plan
(For Telephone Department)
(Ch. 9+000 to Ch. 10+000)

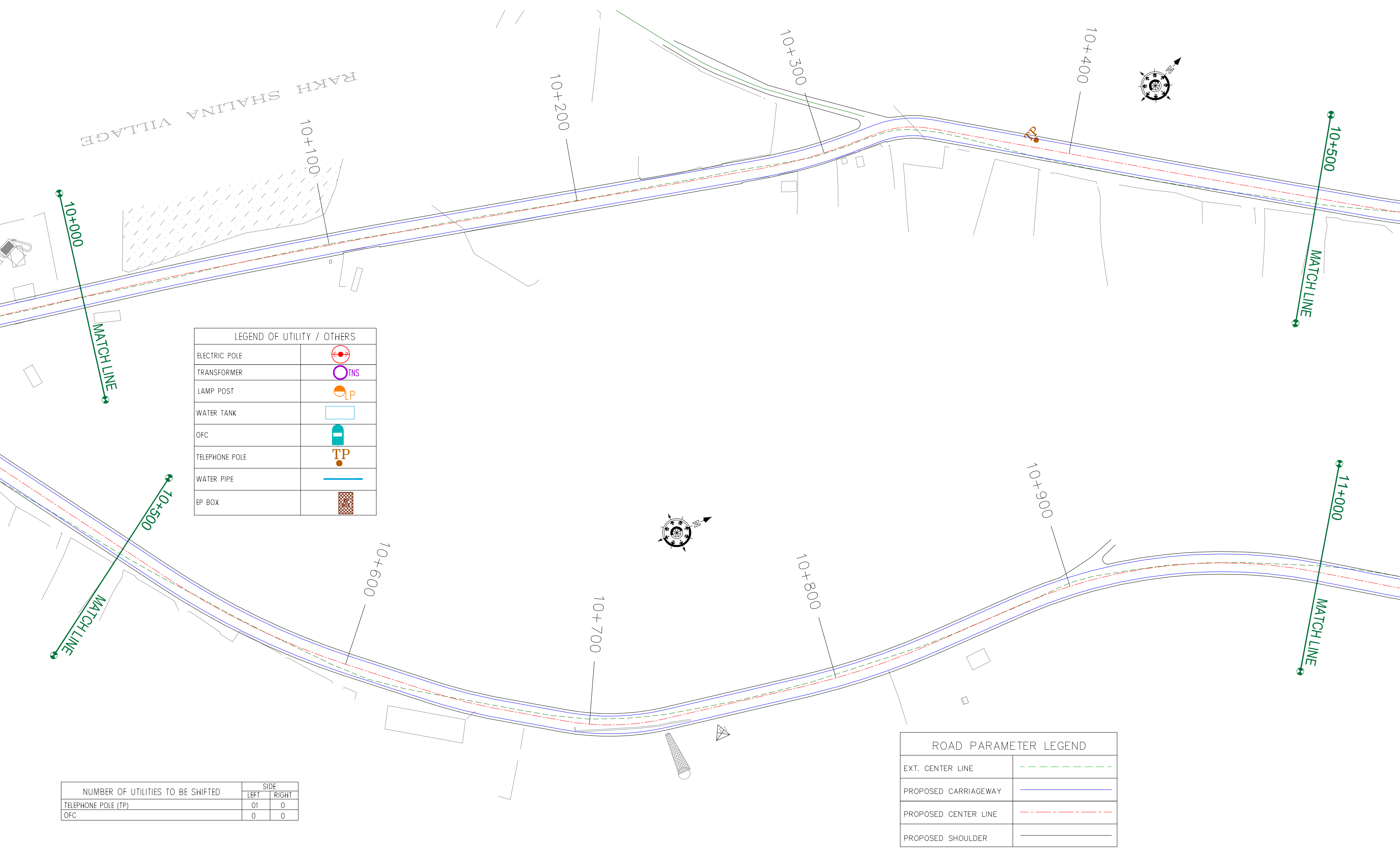
DRG. NO. : EPTISA/JTRFP/DPR/J&K/URP/10

REVISION : R-1

August 2019

← Rambagh

Kadalbal →



CLIENT :

Jhelum & Tawi
FLOOD RECOVERY PROJECT

Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:

Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

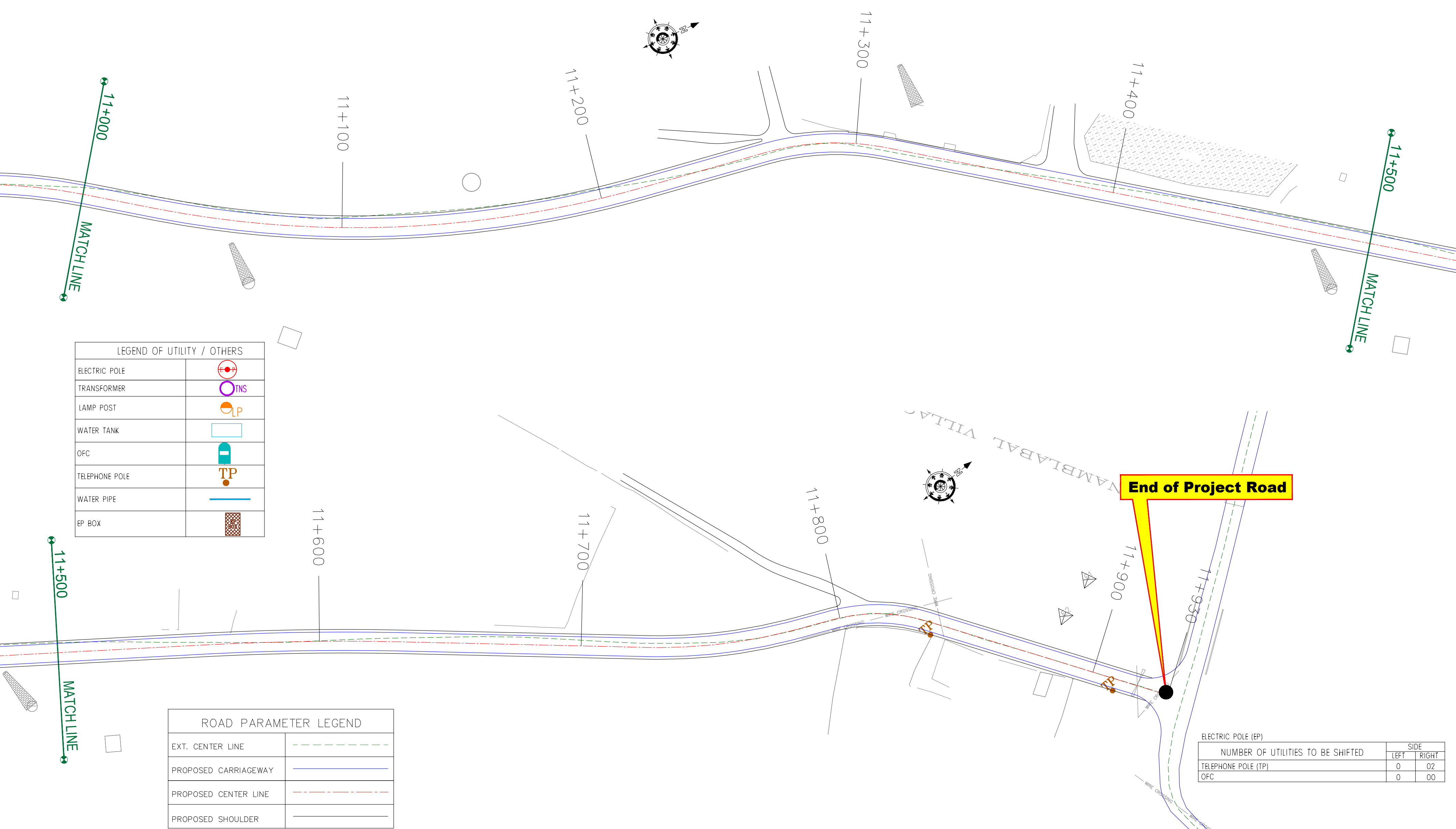
SCALE : 1:1000

TITLE : Utility Relocation Plan
(For Telephone Department)
(Ch. 10+000 to Ch. 11+000)

DRG. NO. : EPTISA/JTRFP/DPR/J&K/URP/11

REVISION : R-1

August 2019



CLIENT :

Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:

Eptisa Servicios de Ingenieria S.L.
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Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : 1:1000

TITLE : Utility Relocation Plan
(For Telephone Department)
(Ch. 11+000 to Ch. 11+930)

DRG. NO. : EPTISA/JTFRP/DPR/J&K/URP/12

REVISION : R-1

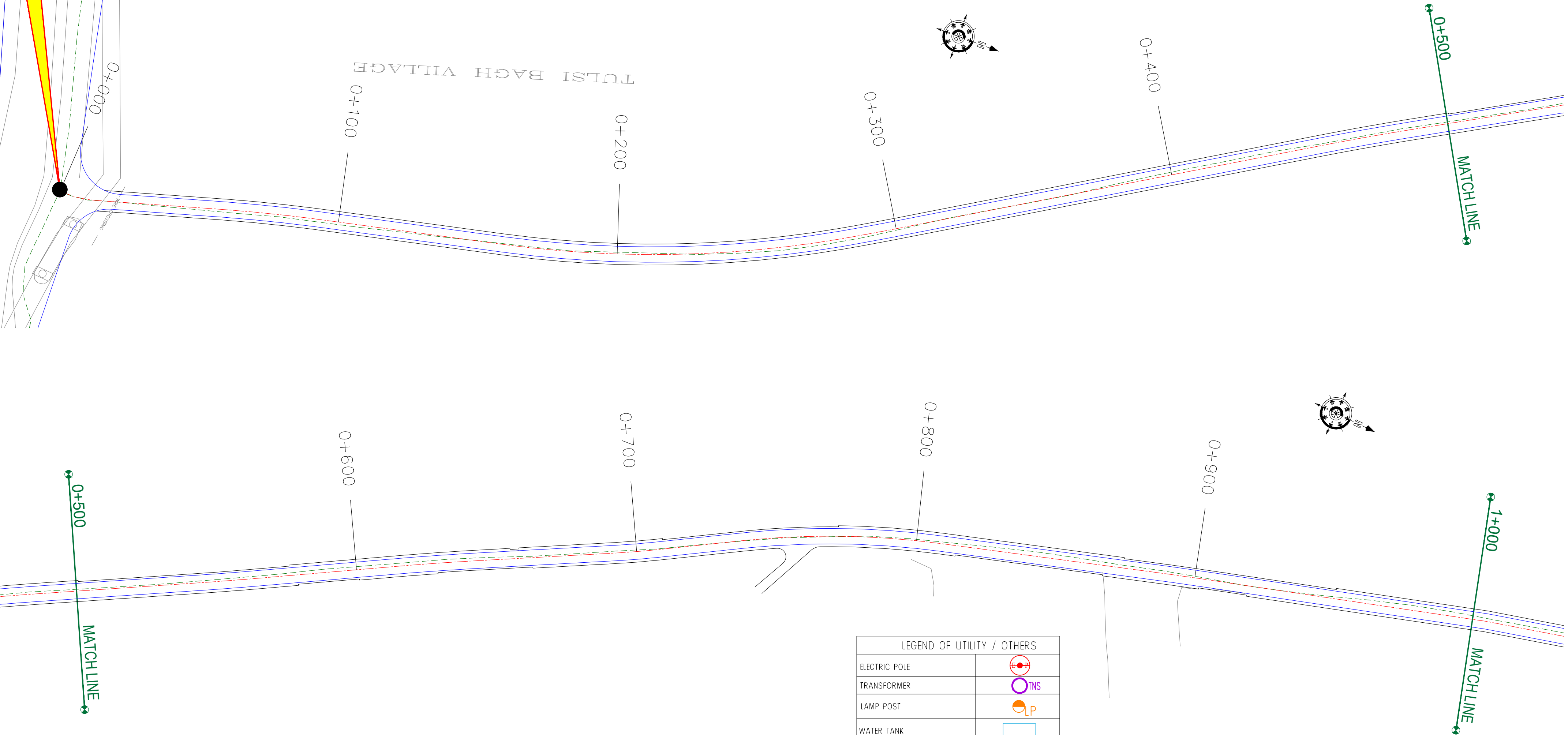
August 2019

≡ UTILITY RELOCATION PLAN FOR MAIN ROAD (WATER DEPARTMENT) ≡

← Rambagh

Kadalbal →

Start of Project Road



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
WATER TANK	0	0
WATER PIPE	0	0

CLIENT :



Jhelum & Tawi
FLOOD RECOVERY PROJECT

Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
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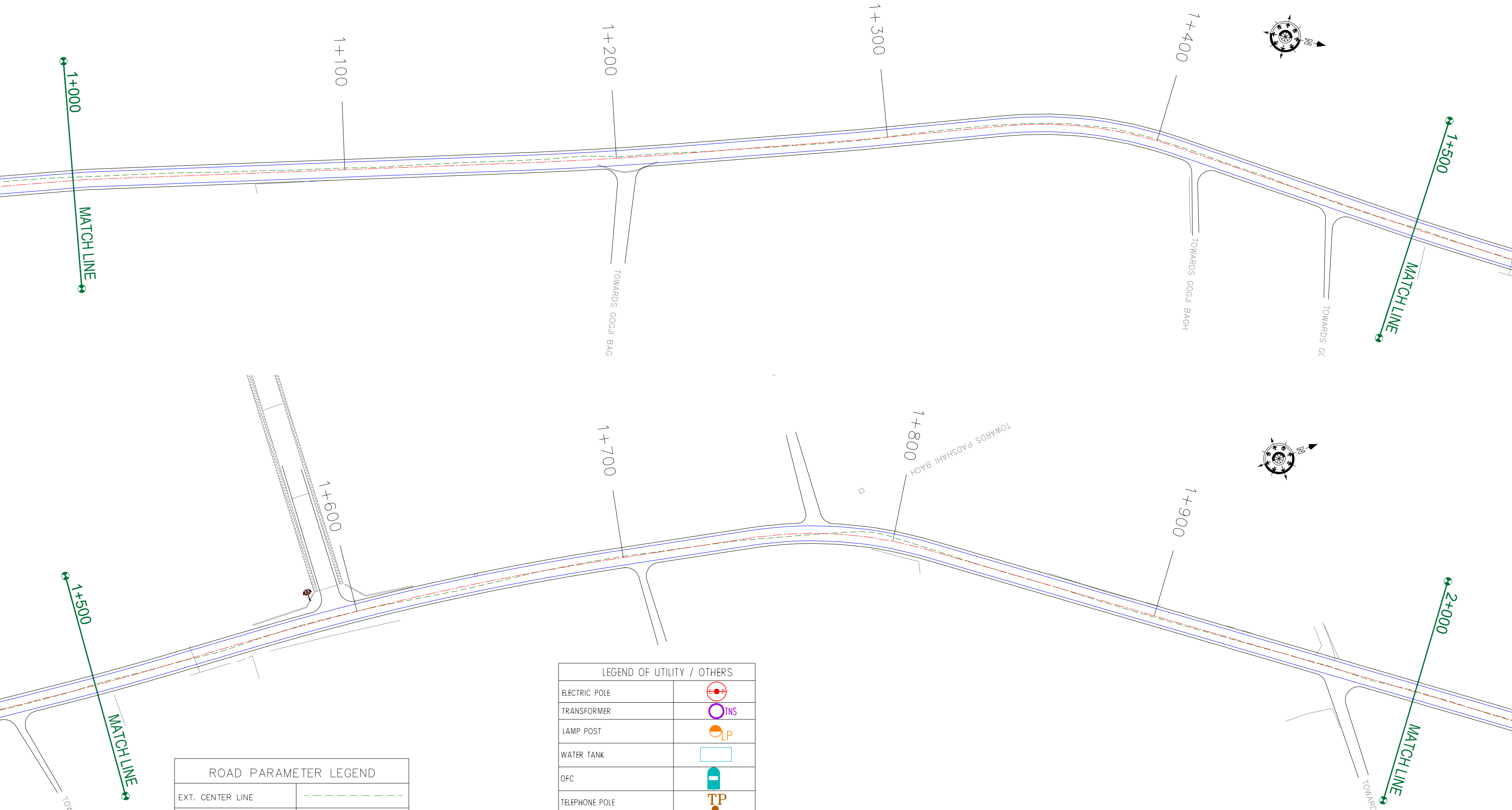
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Water Department) (Ch. 0+000 to Ch. 1+000)
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/URP/01
REVISION : R-1	August 2019

← Rambagh

Kadalbal →



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
WATER TANK	0	0
WATER PIPE	0	0

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
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Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE : **Utility Relocation Plan**
(For Water Department)
(Ch. 1+000 to Ch. 2+000)

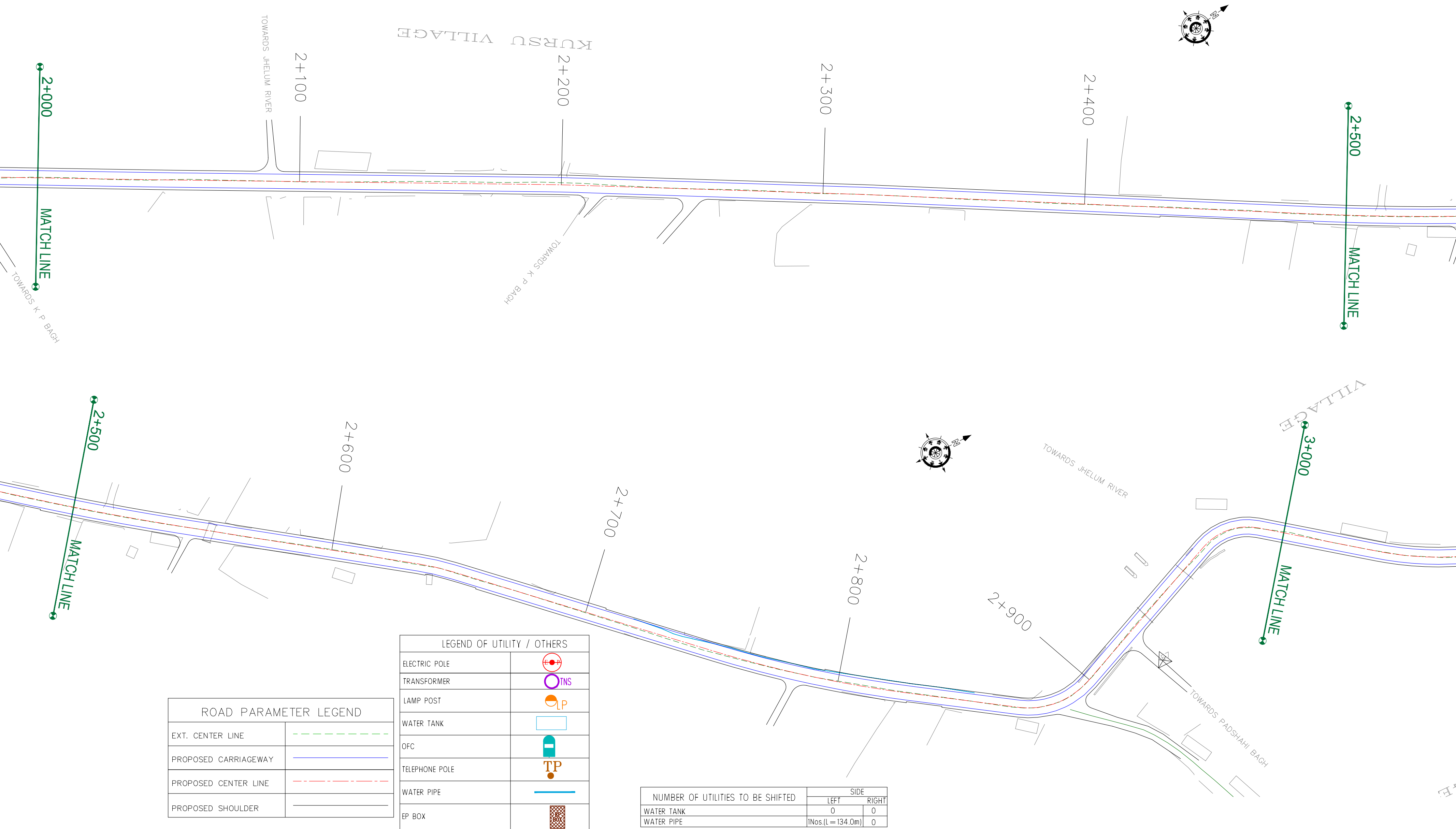
DRG. NO. : EPTISA/JTRFP/DPR/J&K/URP/02

REVISION : R-1

August 2019

← Rambagh

Kadalbal →



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
WATER TANK	0	0
WATER PIPE	1Nos.(L = 134.0m)	0

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
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Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Water Department) (Ch. 2+000 to Ch. 3+000)	
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/URP/03	
REVISION : R-1	August 2019	

← Rambagh

Kadalbal →

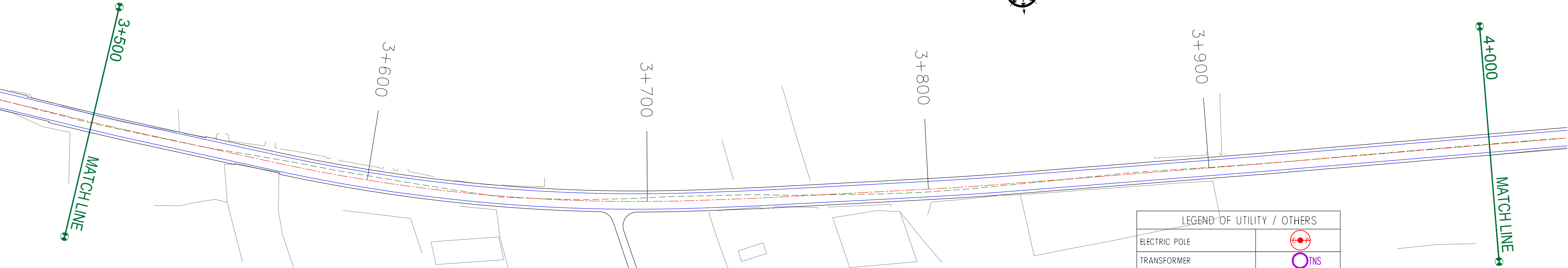
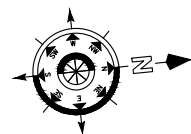
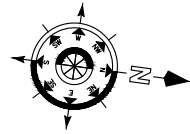
TOWARDS JHELUM RIVER

TOWARDS GANDABAL

TOWARDS PADSHAHI BAGH

PADSHAHI BAGH

SHIV PORI VILLAGE



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
WATER TANK	0	0
WATER PIPE	0	0

LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
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Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE : **Utility Relocation Plan**
(For Water Department)
(Ch. 3+000 to Ch. 4+000)

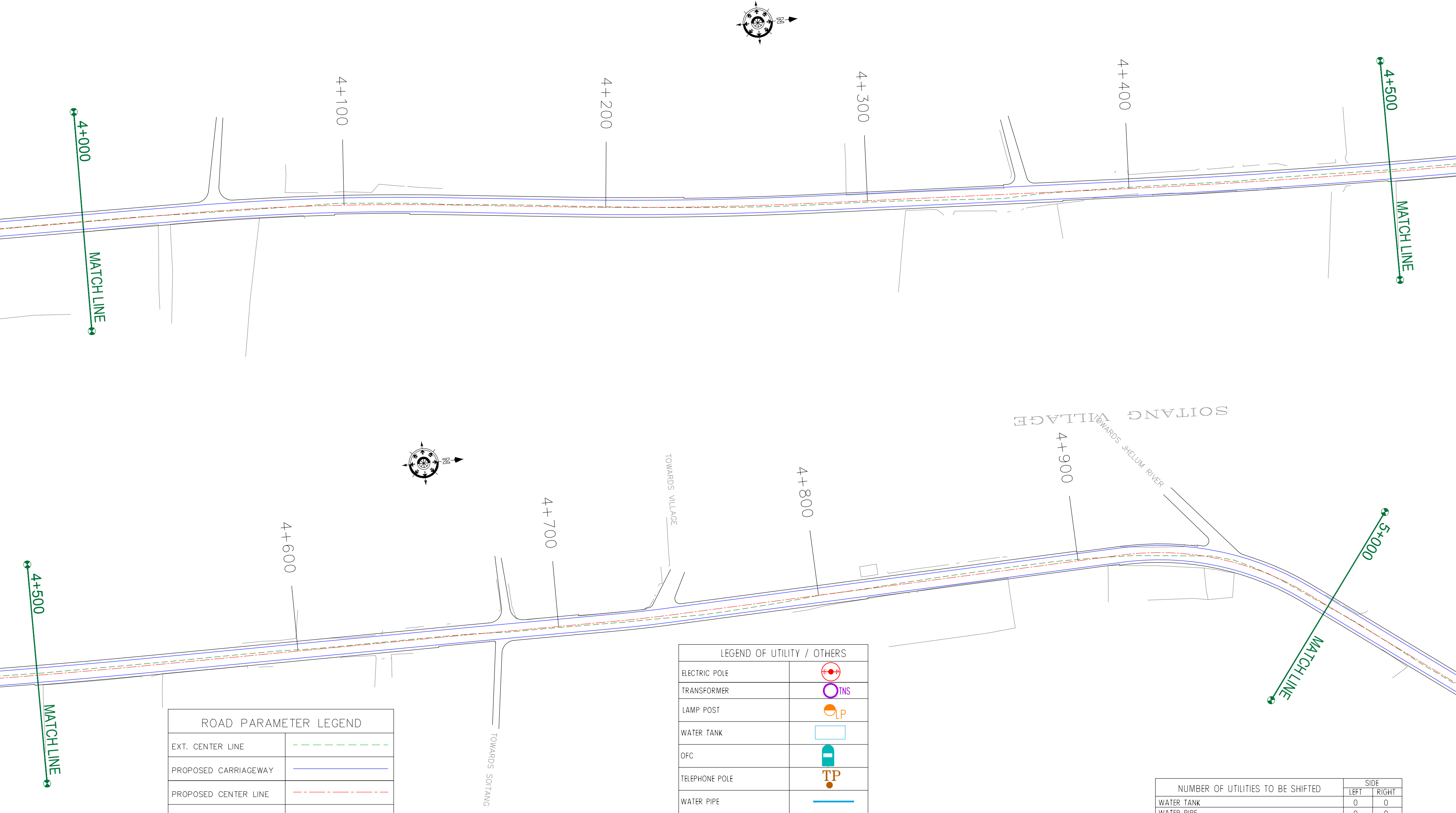
DRG. NO. : EPTISA/JTRP/DPR/J&K/URP/04

REVISION : R-1

August 2019

← Rambagh

Kadalbal →



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	—
PROPOSED CENTER LINE	- - -
PROPOSED SHOULDER	—

LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
WATER TANK	0	0
WATER PIPE	0	0

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



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Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE : **Utility Relocation Plan**
(For Water Department)
(Ch. 4+000 to Ch. 5+000)

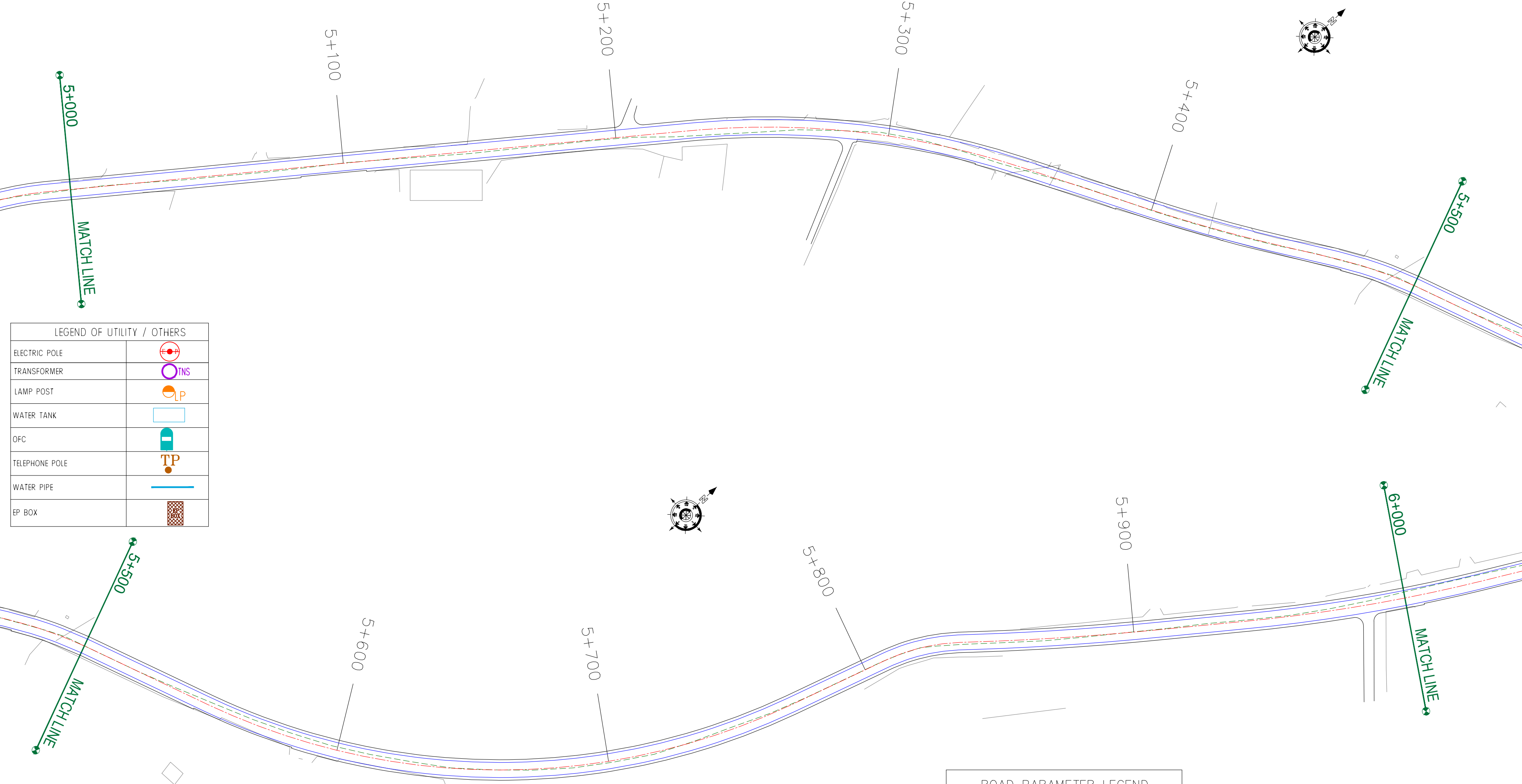
DRG. NO. : EPTISA/JTRFP/DPR/J&K/URP/05

REVISION : R-1

August 2019

← Rambagh

Kadalbal →



LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
WATER TANK	0	0
WATER PIPE	0	0

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : 1:1000

TITLE : Utility Relocation Plan
(For Water Department)
(Ch. 5+000 to Ch. 6+000)

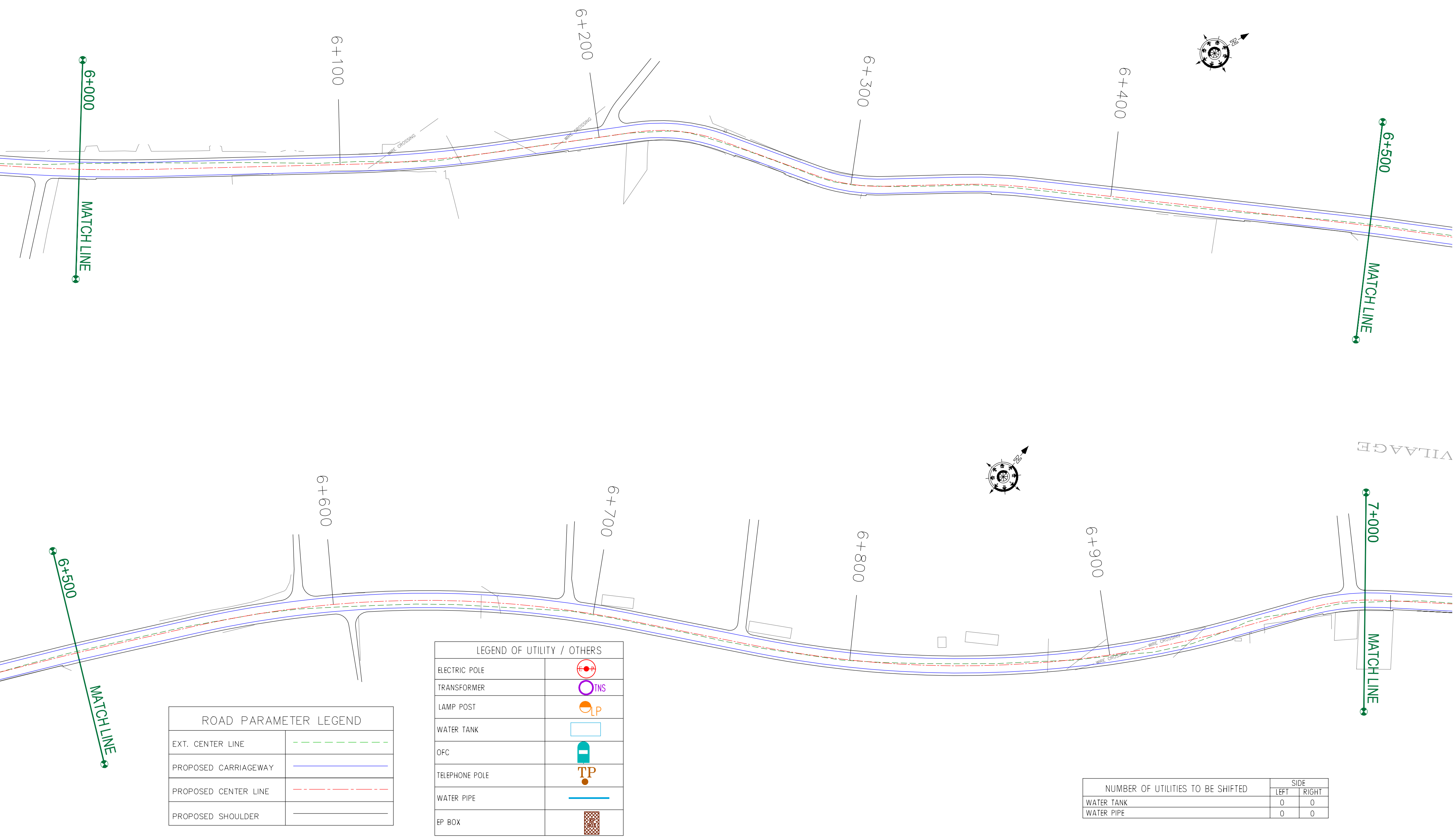
DRG. NO. : EPTISA/JTRFP/DPR/J&K/URP/06

REVISION : R-1

August 2019

← Rambagh

Kadalbal →



CLIENT :

Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:

Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : 1:1000

TITLE : Utility Relocation Plan
(For Water Department)
(Ch. 6+000 to Ch. 7+000)

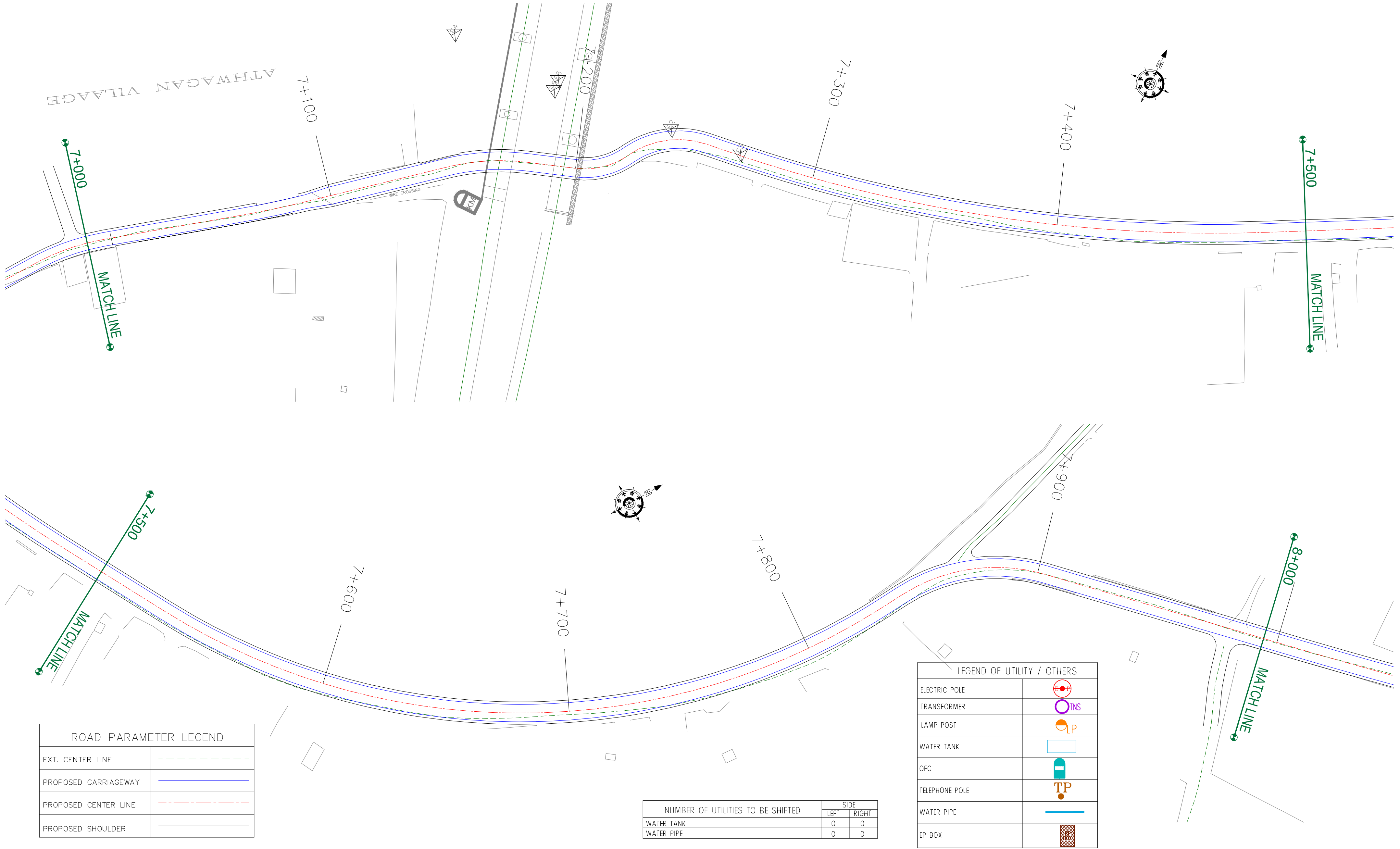
DRG. NO. : EPTISA/JTFRP/DPR/J&K/URP/07

REVISION : R-1

August 2019

← Rambagh

Kadalbal →



CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:

eptisa *Eptisa Servicios de Ingenieria S.L.*
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : 1:1000

TITLE : **Utility Relocation Plan**
(For Water Department)
(Ch. 7+000 to Ch. 8+000)

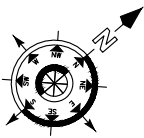
DRG. NO. : EPTISA/JTRFP/DPR/J&K/URP/08

REVISION : R-1

August 2019

← Rambagh

Kadalbal →



LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
WATER TANK	0	0
WATER PIPE	0	0

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Water Department) (Ch. 8+000 to Ch. 9+000)	
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/URP/09	
REVISION : R-1	August 2019	

← Rambagh

Kadalbal →



LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
WATER TANK	0	0
WATER PIPE	0	0

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE : **Utility Relocation Plan**
(For Water Department)
(Ch. 9+000 to Ch. 10+000)

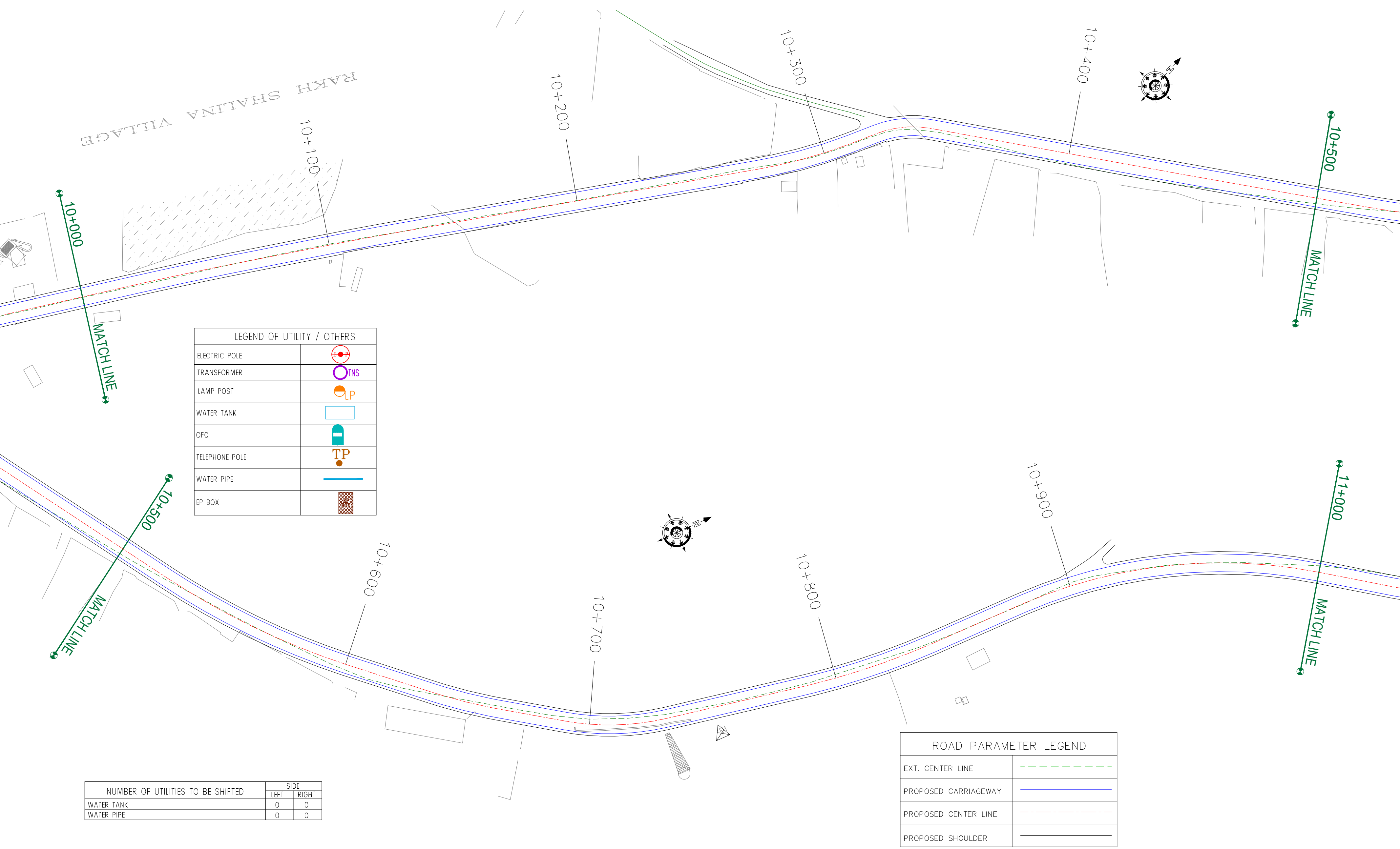
DRG. NO. : EPTISA/JTRFP/DPR/J&K/URP/10

REVISION : R-1

August 2019

← Rambagh

Kadalbal →



CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



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Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

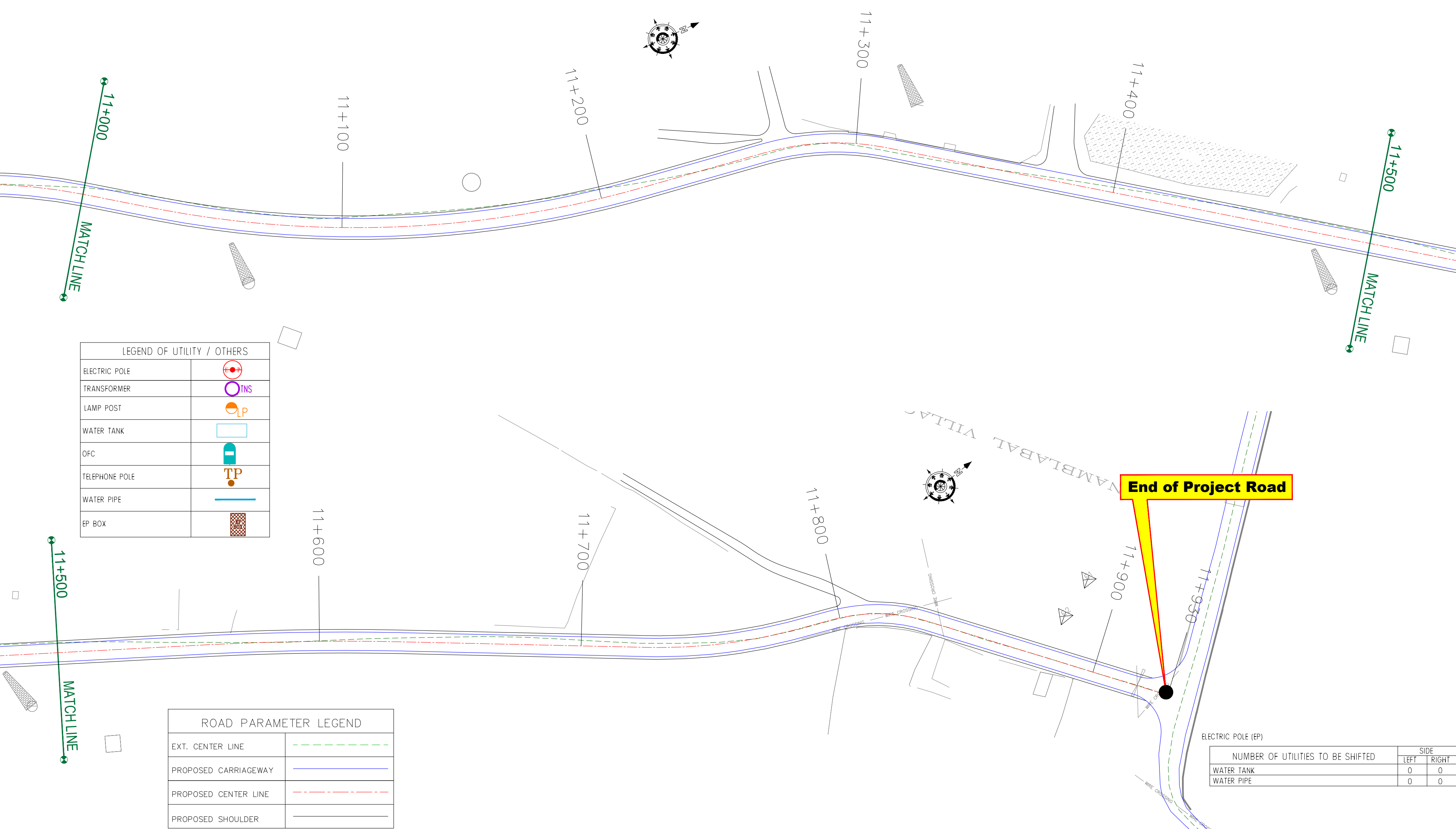
SCALE : 1:1000

TITLE : Utility Relocation Plan
(For Water Department)
(Ch. 10+000 to Ch. 11+000)

DRG. NO. : EPTISA/JTRFP/DPR/J&K/URP/11

REVISION : R-1

August 2019



LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
WATER TANK	0	0
WATER PIPE	0	0

CLIENT :

Jhelum & Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:

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Unit 1203, 12th Floor, Tower 1, PS Srijan
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West Bengal
Ph: 033-40347200
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REV.	DATE	DESCRIPTION

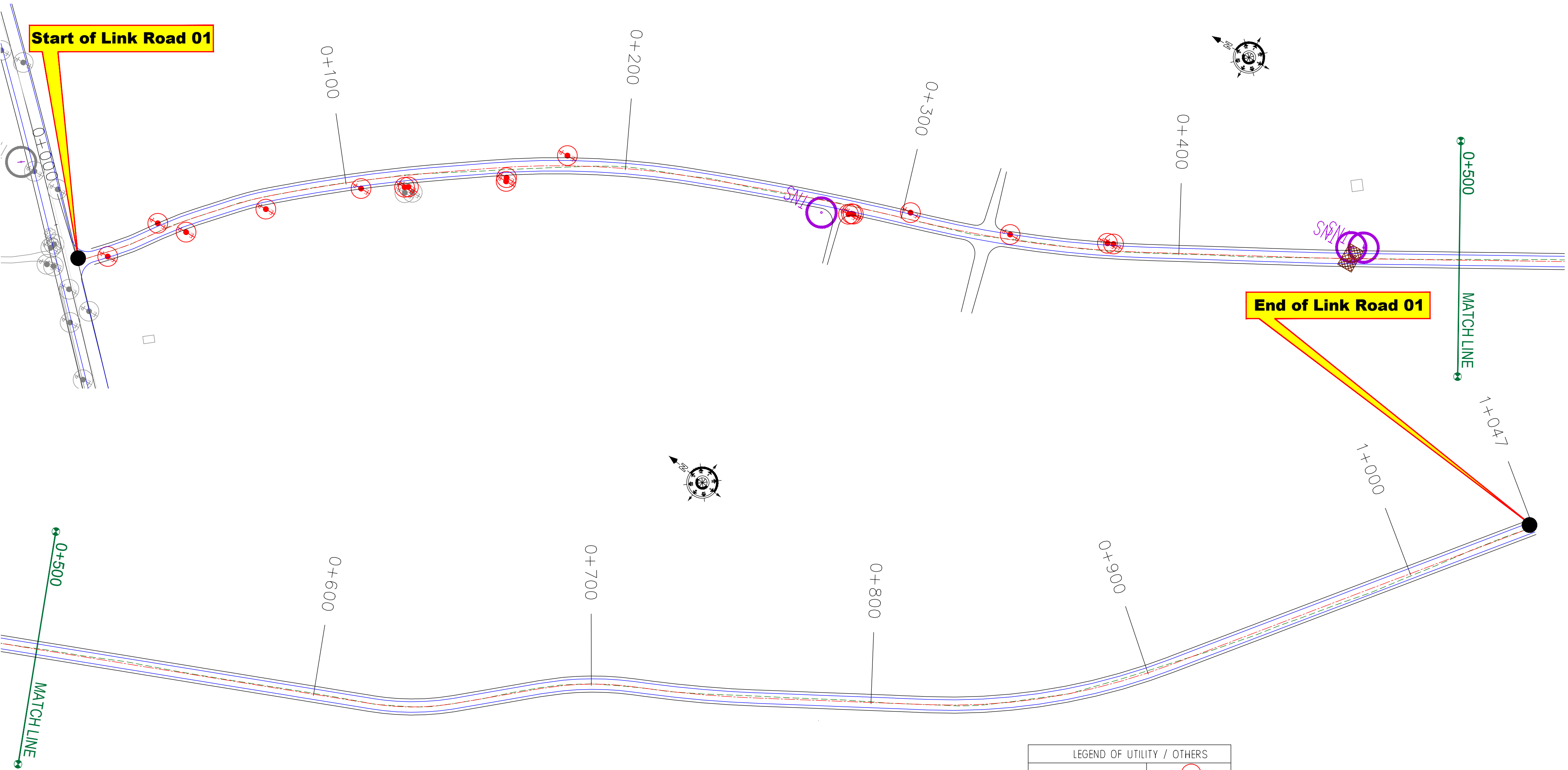
DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Water Department) (Ch. 11+000 to Ch. 11+930)
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/URP/12
REVISION : R-1	August 2019

≡ UTILITY RELOCATION PLAN FOR LINK ROAD (ELECTRICITY DEPARTMENT) ≡

← Rambagh

Kadalbal →



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	6	11
TRANSFORMER (TNS)	2	1
LAMP POST (LP)	0	0
EP BOX	1	0

LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
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Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : 1:1000

TITLE : Utility Relocation Plan (Link Road)
(For Electricity Department)
(Ch. 0+000 to Ch. 1+047)

DRG. NO. : EPTISA/JTRFP/DPR/J&K/URP/01

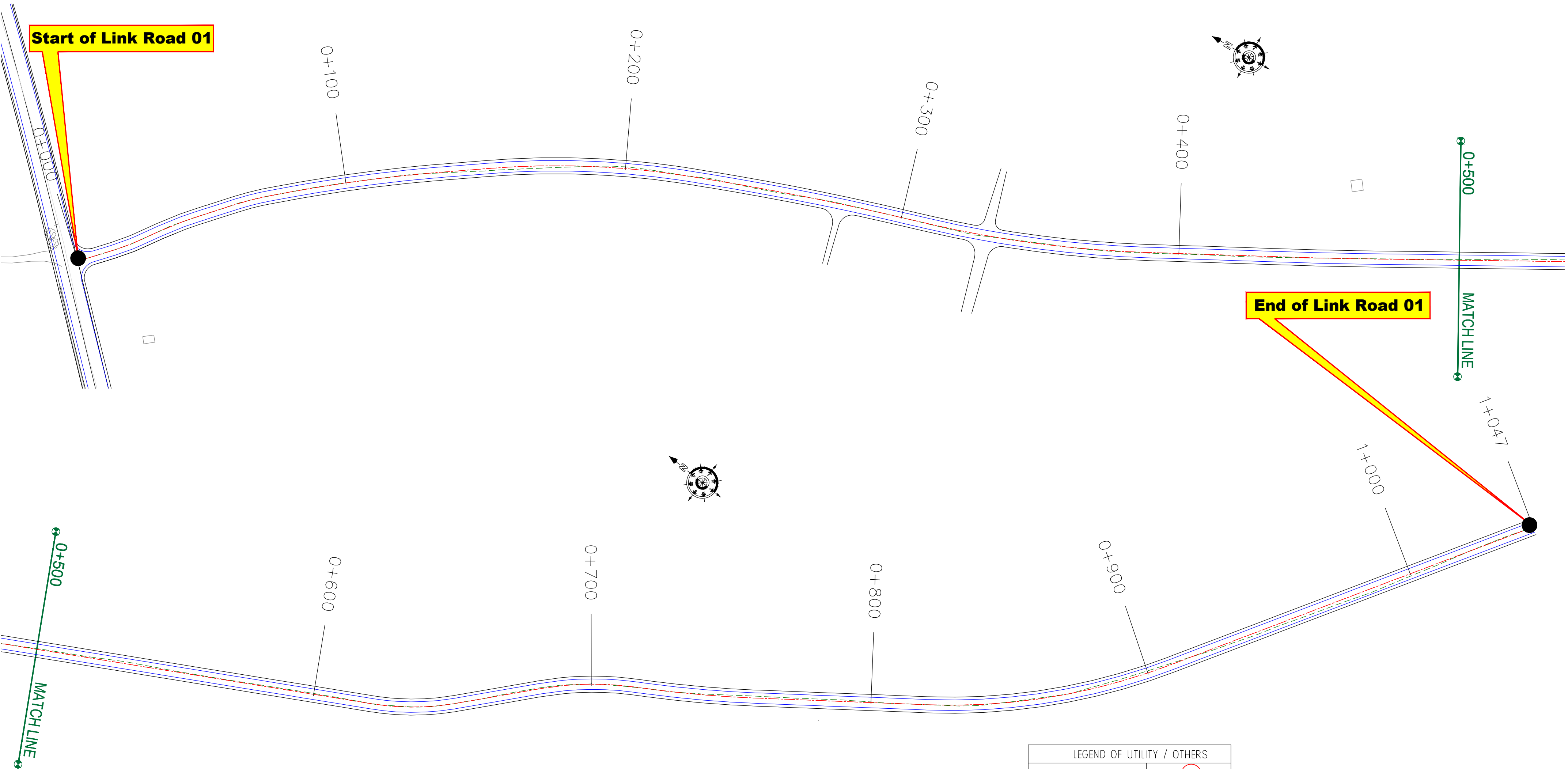
REVISION : R-1

August 2019

≡ UTILITY RELOCATION PLAN FOR LINK ROAD (TELEPHONE DEPARTMENT) ≡

← Rambagh

Kadalbal →



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
TELEPHONE POLE (TP)	0	0
OFC	0	0

LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
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Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

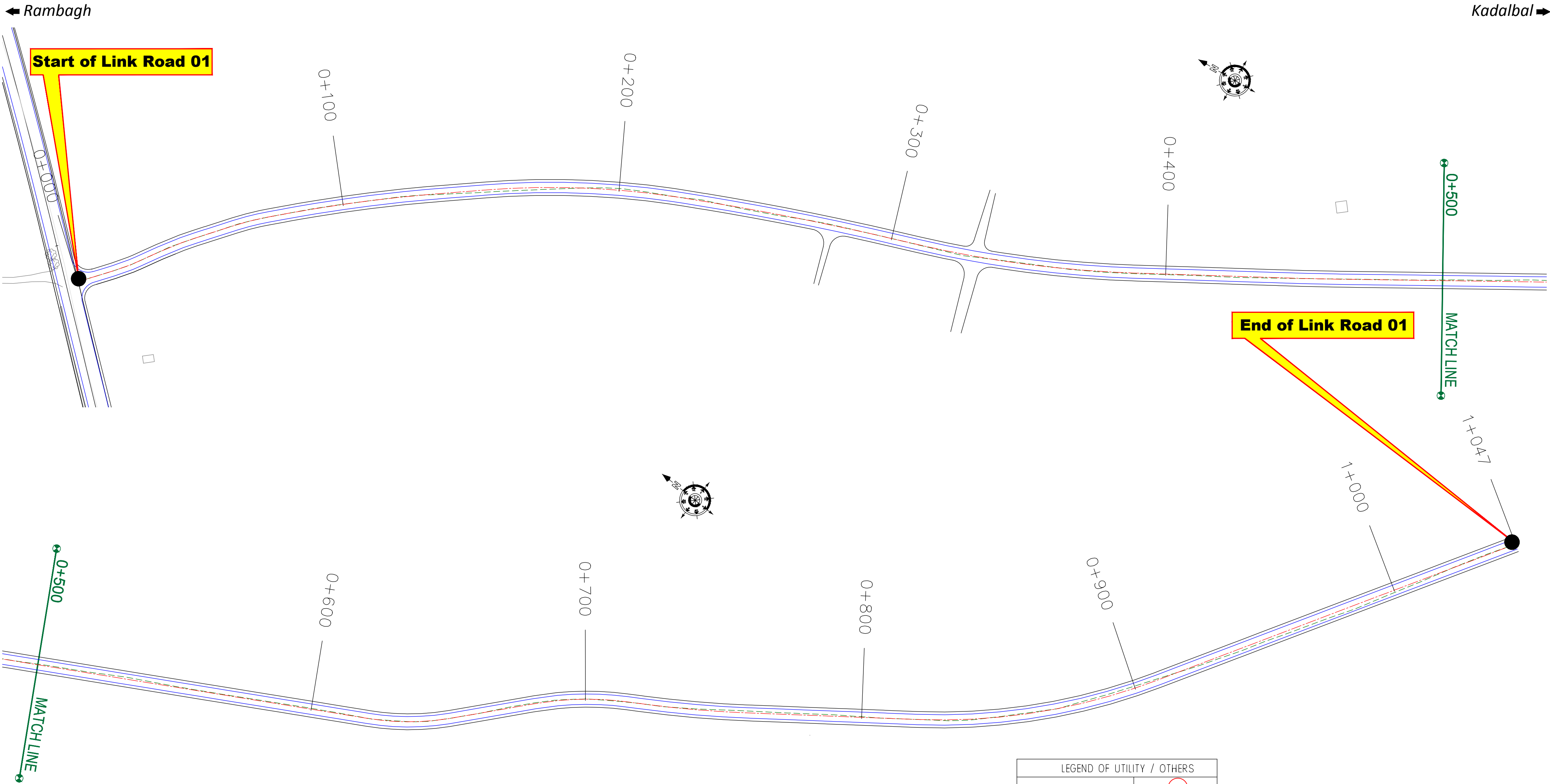
DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE : Utility Relocation Plan (Link Road)
(For Telephone Department)
(Ch. 0+000 to Ch. 1+047)

DRG. NO. : EPTISA/JTFRP/DPR/J&K/URP/01

REVISION : R-1

August 2019



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
WATER TANK	0	0
WATER PIPE	0	0

LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



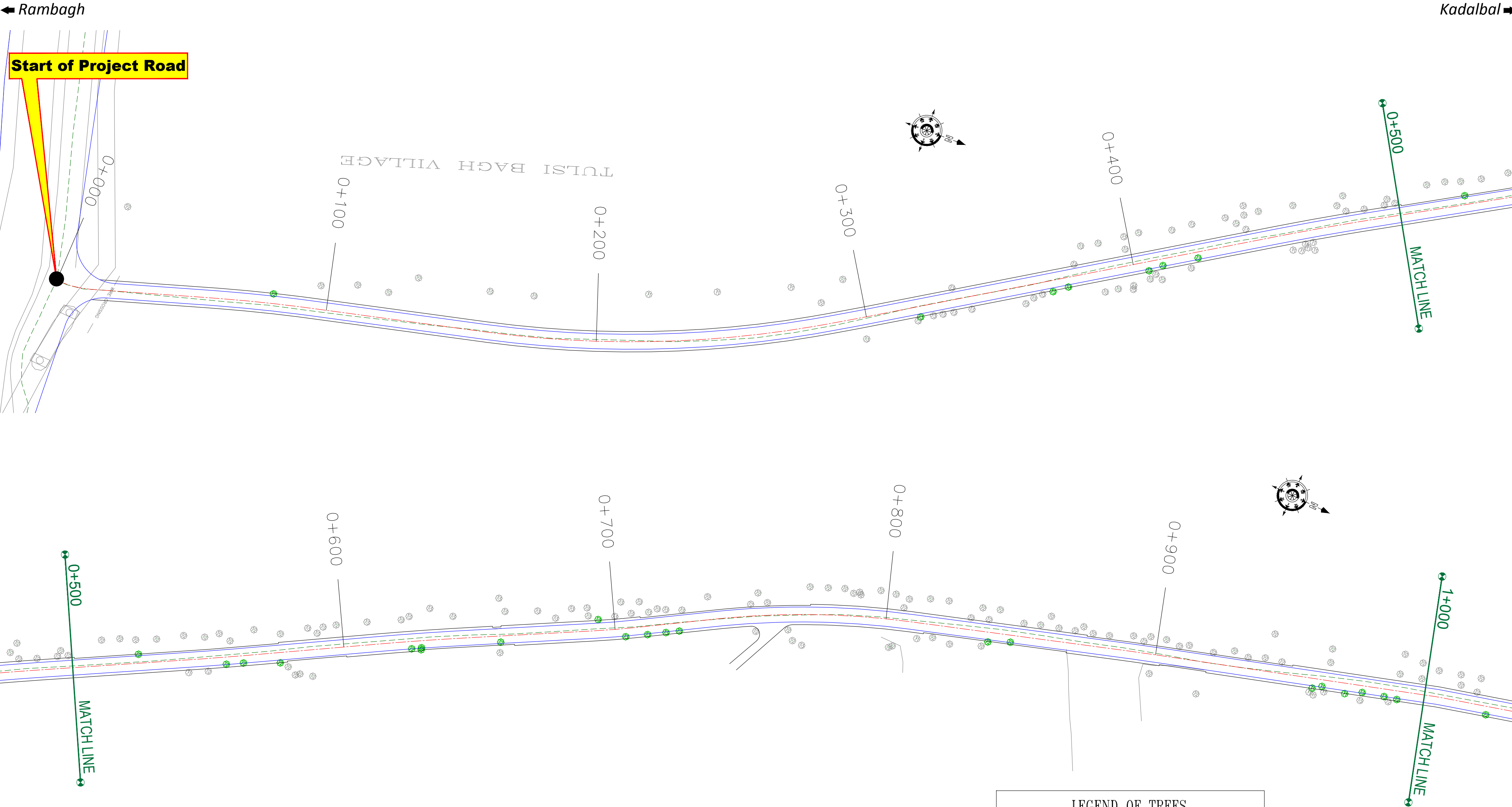
Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE : Utility Relocation Plan (Link Road) (For Water Department) (Ch. 0+000 to Ch. 1+047)	
DRG. NO. : EPTISA/JTRFP/DPR/J&K/URP/01	
REVISION : R-1	August 2019

≡ TREE CUTTING (MAIN ROAD) ≡



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	—
PROPOSED CENTER LINE	- - -
PROPOSED SHOULDER	—

LEGEND OF TREES		
TREE 1 (300 TO 600)	t1	T1
TREE 2 (600 TO 900)	t2	T2
TREE 3 (900 TO 1200)	t3	T3
TREE 4 (1200 TO ABOVE)	t4	T4

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	00	03
T2	02	11
T3	01	12
T4	00	00

CLIENT :




Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



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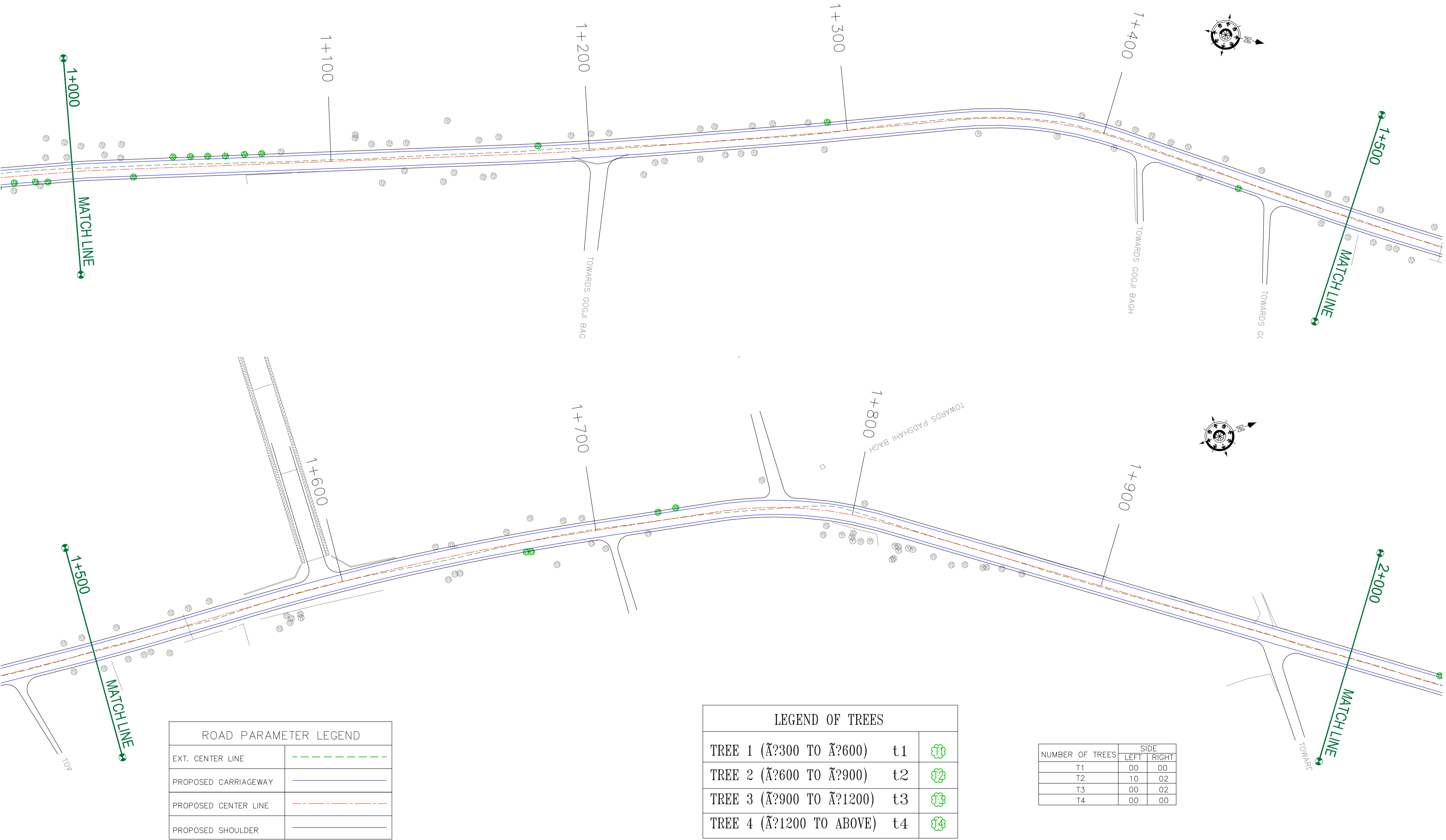
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	
TREE CUTTING (Ch. 0+000 to Ch. 1+000)	
DRG. NO. : EPTISA/JTRFP/DPR/J&K/TC/01	
REVISION : R-1	August 2019

← Rambagh

Kadalbal →



CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



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West Bengal
Ph: 033-40347200
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REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : 1:1000

TITLE :

TREE CUTTING

(Ch. 1+000 to Ch. 2+000)

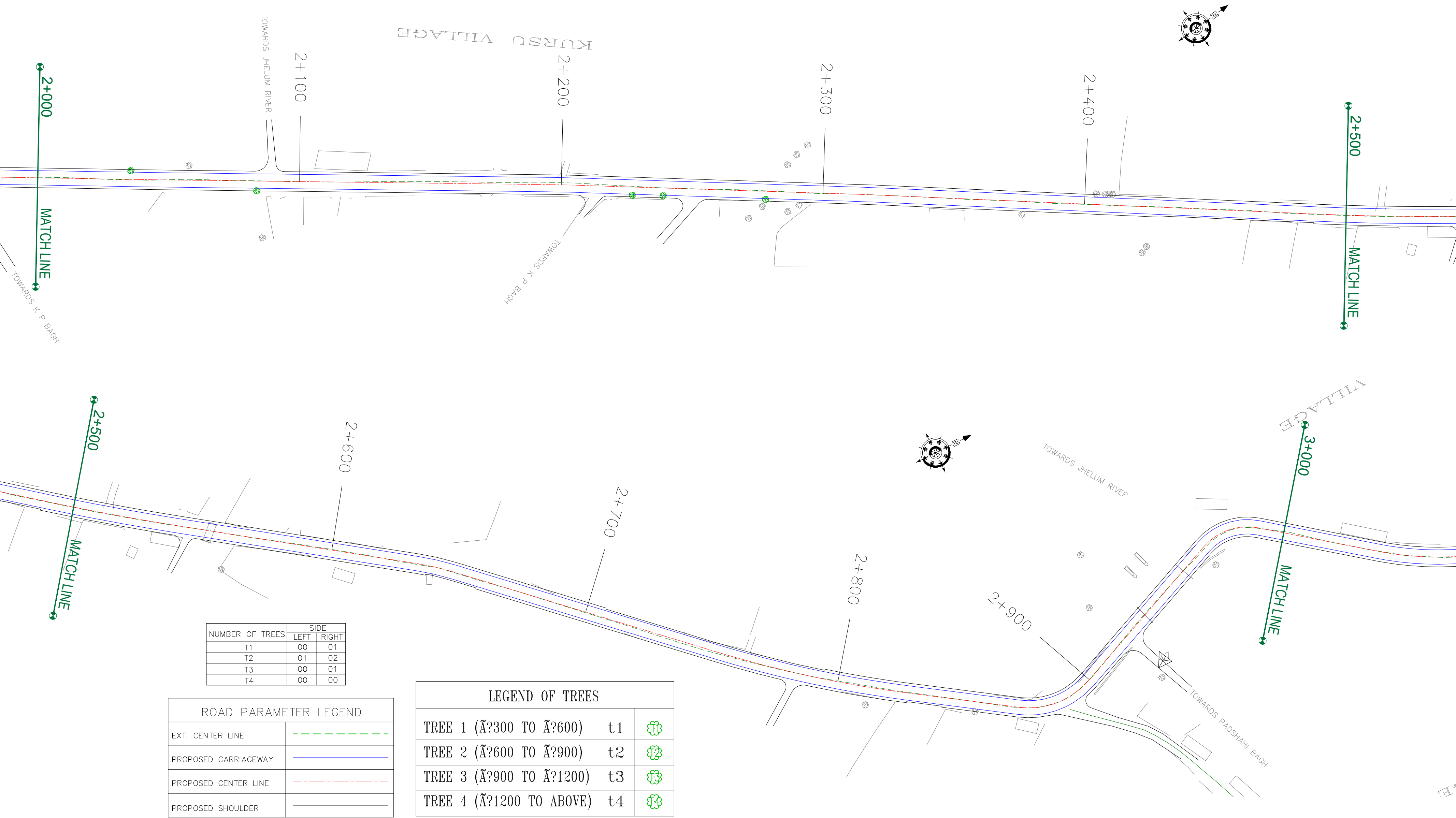
DRG. NO. : EPTISA/JTRP/DPR/J&K/TC/02

REVISION : R-1

August 2019

← Rambagh

Kadalbal →



NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	00	01
T2	01	02
T3	00	01
T4	00	00

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

LEGEND OF TREES			
TREE 1 (300 TO 600)	t1		
TREE 2 (600 TO 900)	t2		
TREE 3 (900 TO 1200)	t3		
TREE 4 (1200 TO ABOVE)	t4		

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



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West Bengal
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REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : 1:1000

TITLE :

TREE CUTTING

(Ch. 2+000 to Ch. 3+000)

DRG. NO. : EPTISA/JTRFP/DPR/J&K/TC/03

REVISION : R-1

August 2019

← Rambagh

Kadalbal →

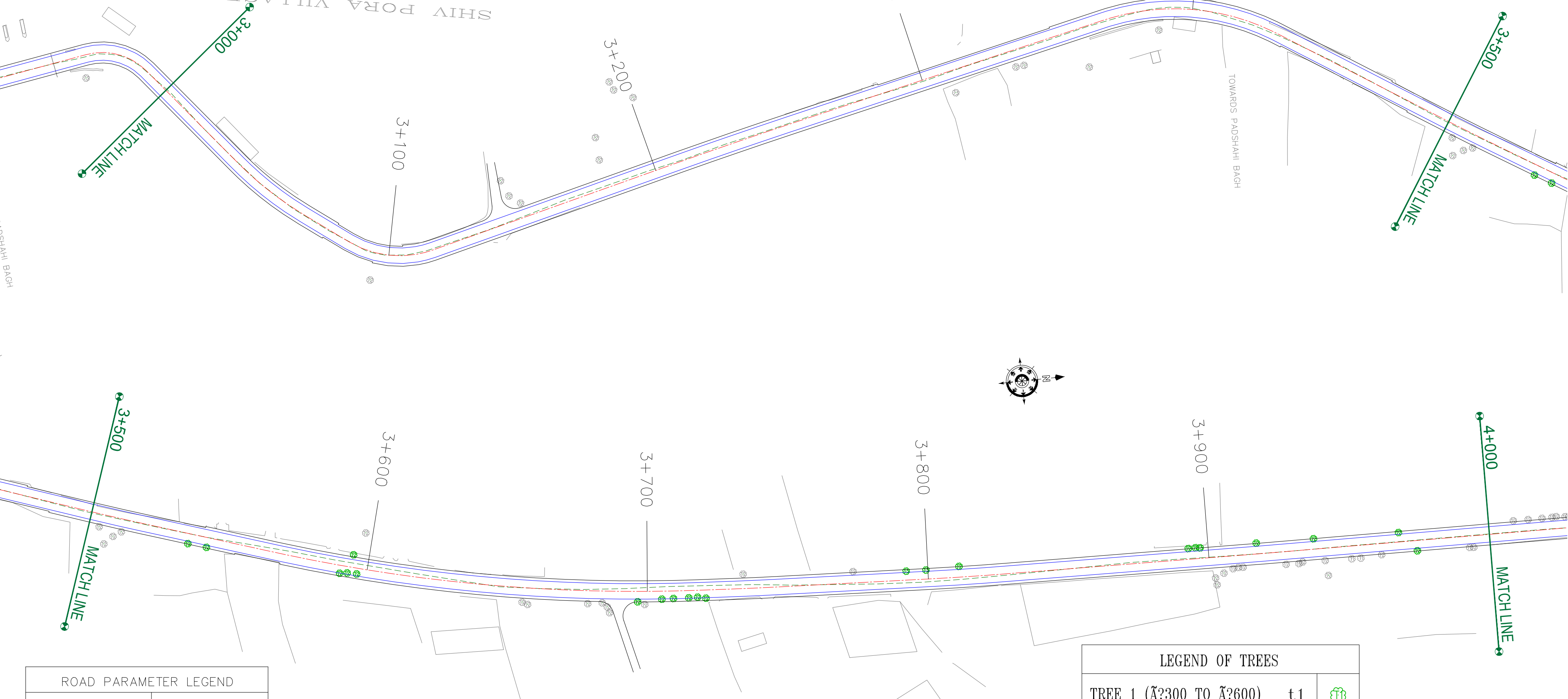
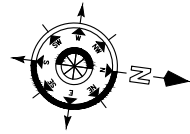
TOWARDS JHELUM RIVER

TOWARDS GANDBAL

TOWARDS PADSHAHI BAGH

PADSHAHI BAGH

SHIV PORA VILLAGE



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

LEGEND OF TREES		
TREE 1 (300 TO 600)	t1	
TREE 2 (600 TO 900)	t2	
TREE 3 (900 TO 1200)	t3	
TREE 4 (1200 TO ABOVE)	t4	

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	00	00
T2	07	12
T3	03	00
T4	00	00

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

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DESIGN CONSULTANT:



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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	TREE CUTTING (Ch. 3+000 to Ch. 4+000)
DRG. NO. :	EPTISA/JTRP/DPR/J&K/TC/04
REVISION : R-1	August 2019

← Rambagh

Kadalbal →



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

LEGEND OF TREES		
TREE 1 (₹300 TO ₹600)	t1	☿
TREE 2 (₹600 TO ₹900)	t2	☿
TREE 3 (₹900 TO ₹1200)	t3	☿
TREE 4 (₹1200 TO ABOVE)	t4	☿

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	02	00
T2	41	10
T3	01	05
T4	00	00

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

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DESIGN CONSULTANT:



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West Bengal
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REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : 1:1000

TITLE :
TREE CUTTING
(Ch. 4+000 to Ch. 5+000)

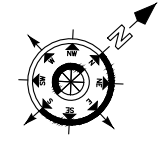
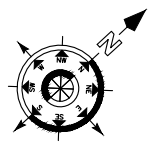
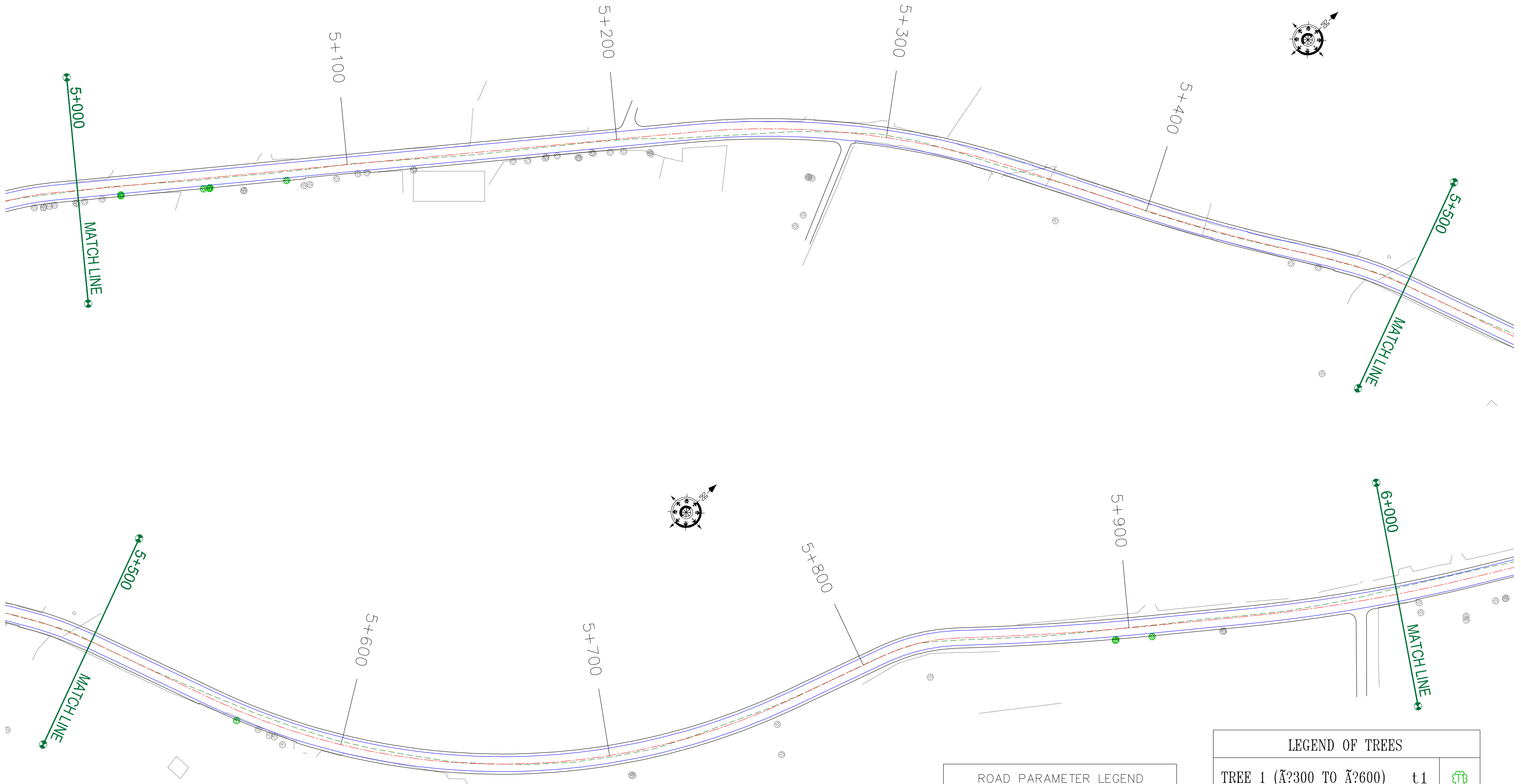
DRG. NO. : EPTISA/JTRFP/DPR/J&K/TC/05

REVISION : R-1

August 2019

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Kadalbal →



NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	00	02
T2	00	08
T3	00	00
T4	00	00

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

LEGEND OF TREES		
TREE 1 (300 TO 600)	t1	
TREE 2 (600 TO 900)	t2	
TREE 3 (900 TO 1200)	t3	
TREE 4 (1200 TO ABOVE)	t4	

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

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DESIGN CONSULTANT:



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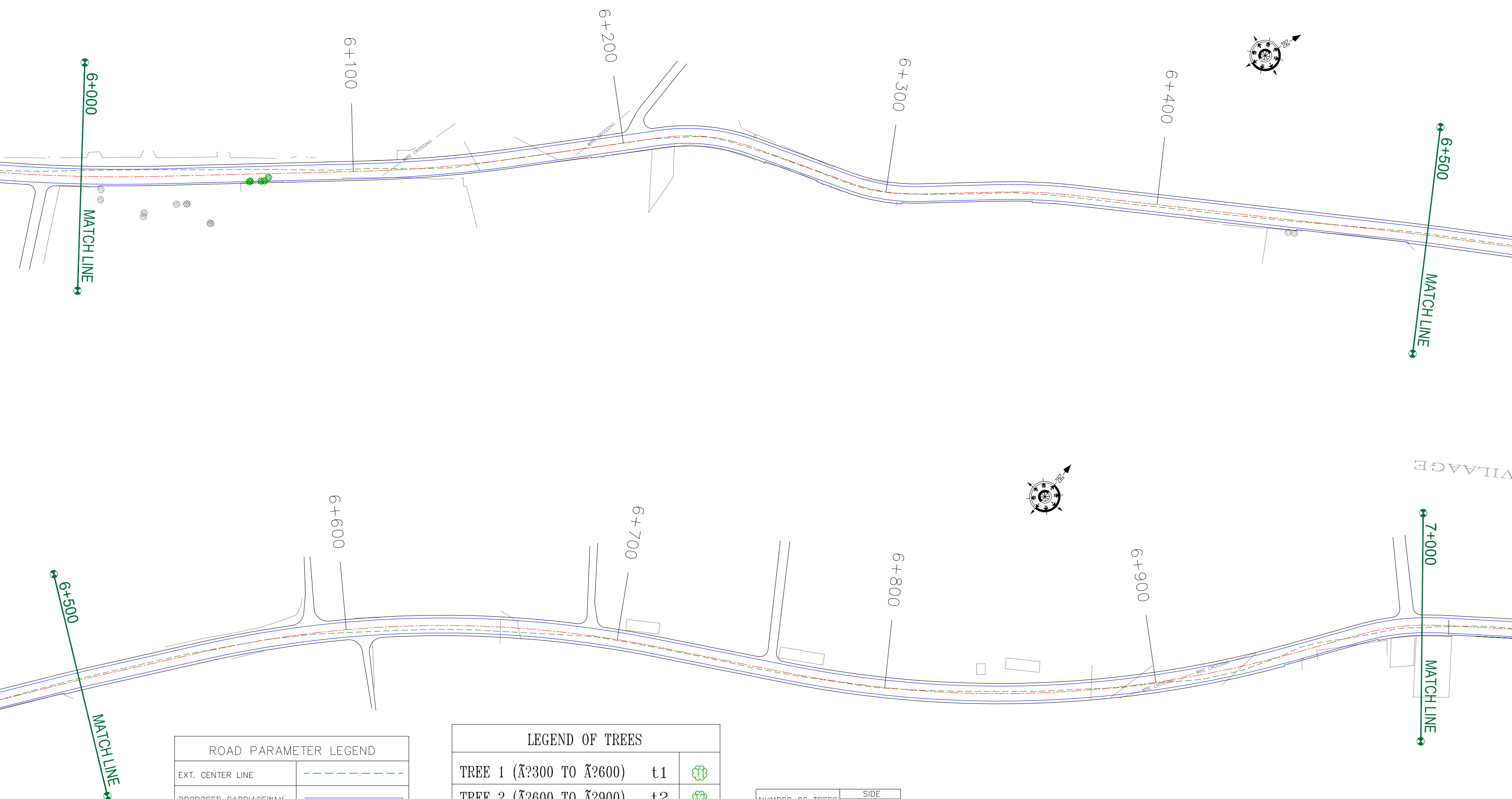
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	TREE CUTTING (Ch. 5+000 to Ch. 6+000)	
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/TC/06	
REVISION : R-1	August 2019	

← Rambagh

Kadalbal →



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	—
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	—

LEGEND OF TREES		
TREE 1 (300 TO 600)	t1	
TREE 2 (600 TO 900)	t2	
TREE 3 (900 TO 1200)	t3	
TREE 4 (1200 TO ABOVE)	t4	

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	00	01
T2	00	04
T3	00	00
T4	00	00

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



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Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
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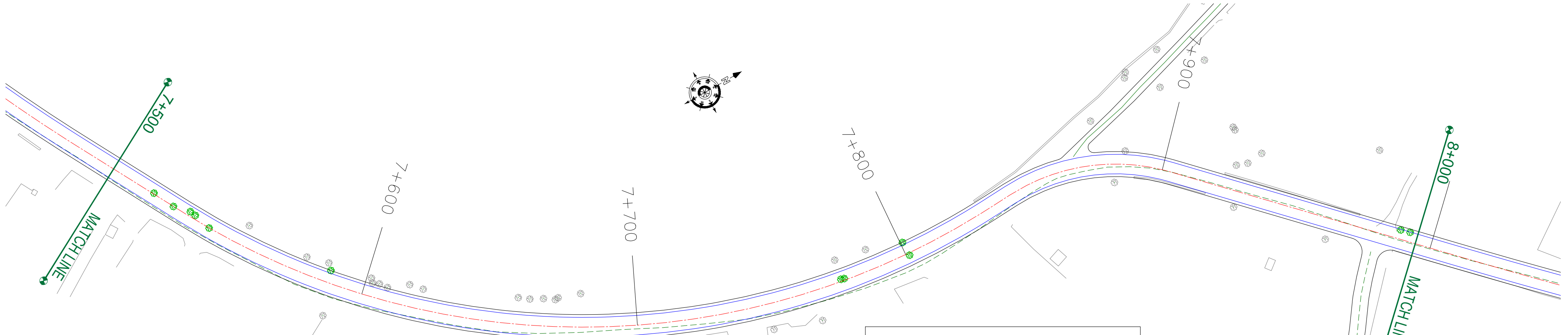
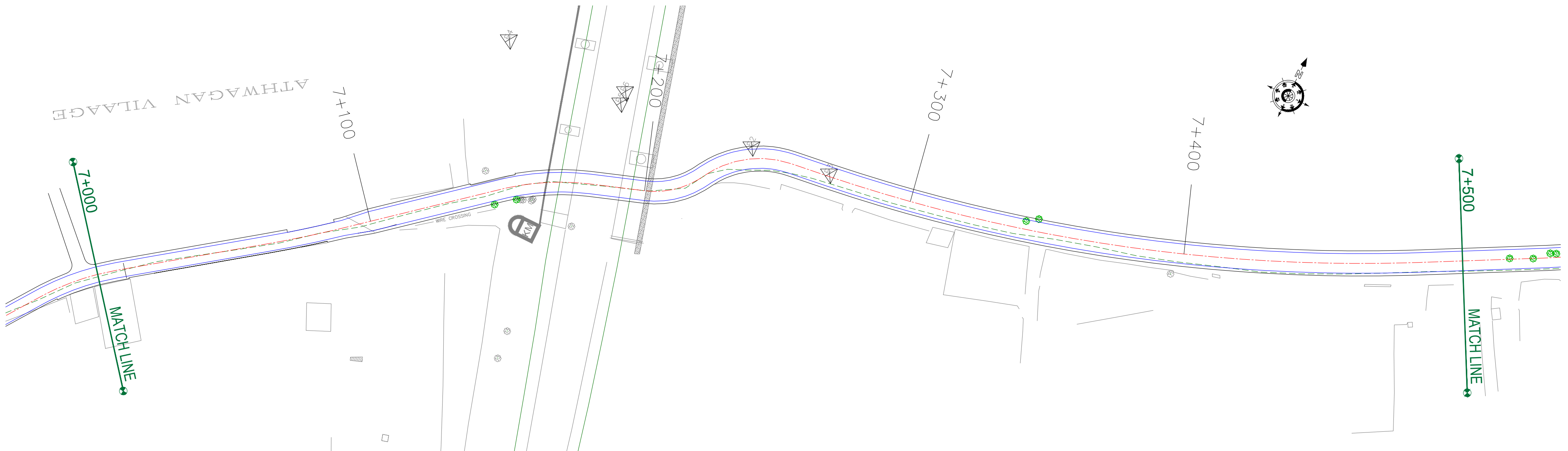
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	TREE CUTTING (Ch. 6+000 to Ch. 7+000)	
DRG. NO. :	EPTISA/JTFRP/DPR/J&K/TC/07	
REVISION : R-1	August 2019	

← Rambagh

Kadalbal →



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	00	00
T2	03	03
T3	14	00
T4	00	00

LEGEND OF TREES		
TREE 1 (300 TO 600)	t1	
TREE 2 (600 TO 900)	t2	
TREE 3 (900 TO 1200)	t3	
TREE 4 (1200 TO ABOVE)	t4	

CLIENT :



Jhelum & Tawi
FLOOD RECOVERY PROJECT

Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	TREE CUTTING (Ch. 7+000 to Ch. 8+000)	
DRG. NO. :	EPTISA/JTFRP/DPR/J&K/TC/08	
REVISION : R-1	August 2019	

← Rambagh

Kadalbal →



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

LEGEND OF TREES		
TREE 1 (≤300 TO ≤600)	t1	
TREE 2 (≤600 TO ≤900)	t2	
TREE 3 (≤900 TO ≤1200)	t3	
TREE 4 (≤1200 TO ABOVE)	t4	

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	02	02
T2	07	00
T3	05	00
T4	00	00

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
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DESIGN CONSULTANT:



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West Bengal
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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	TREE CUTTING (Ch. 8+000 to Ch. 9+000)	
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/TC/09	
REVISION : R-1	August 2019	

← Rambagh

Kadalbal →



LEGEND OF TREES		
TREE 1 (300 TO 600)	t1	
TREE 2 (600 TO 900)	t2	
TREE 3 (900 TO 1200)	t3	
TREE 4 (1200 TO ABOVE)	t4	

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	07	06
T2	02	03
T3	00	00
T4	00	00

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



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West Bengal
Ph: 033-40347200
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REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : 1:1000

TITLE :

TREE CUTTING

(Ch. 9+000 to Ch. 10+000)

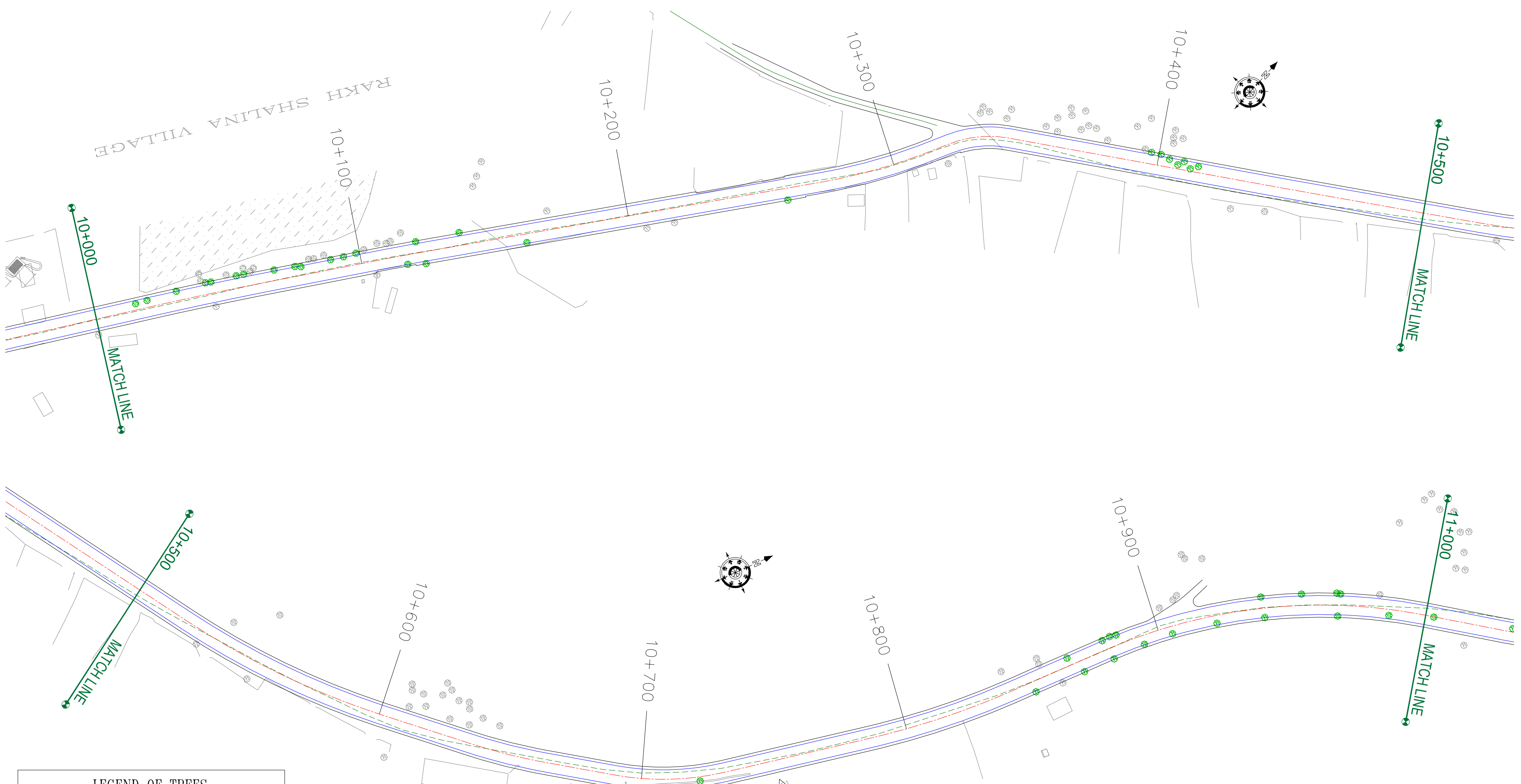
DRG. NO. : EPTISA/JTRFP/DPR/J&K/TC/10

REVISION : R-1

August 2019

← Rambagh

Kadalbal →



LEGEND OF TREES		
TREE 1 (300 TO 600)	t1	
TREE 2 (600 TO 900)	t2	
TREE 3 (900 TO 1200)	t3	
TREE 4 (1200 TO ABOVE)	t4	

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	07	08
T2	15	06
T3	08	00
T4	00	00

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:

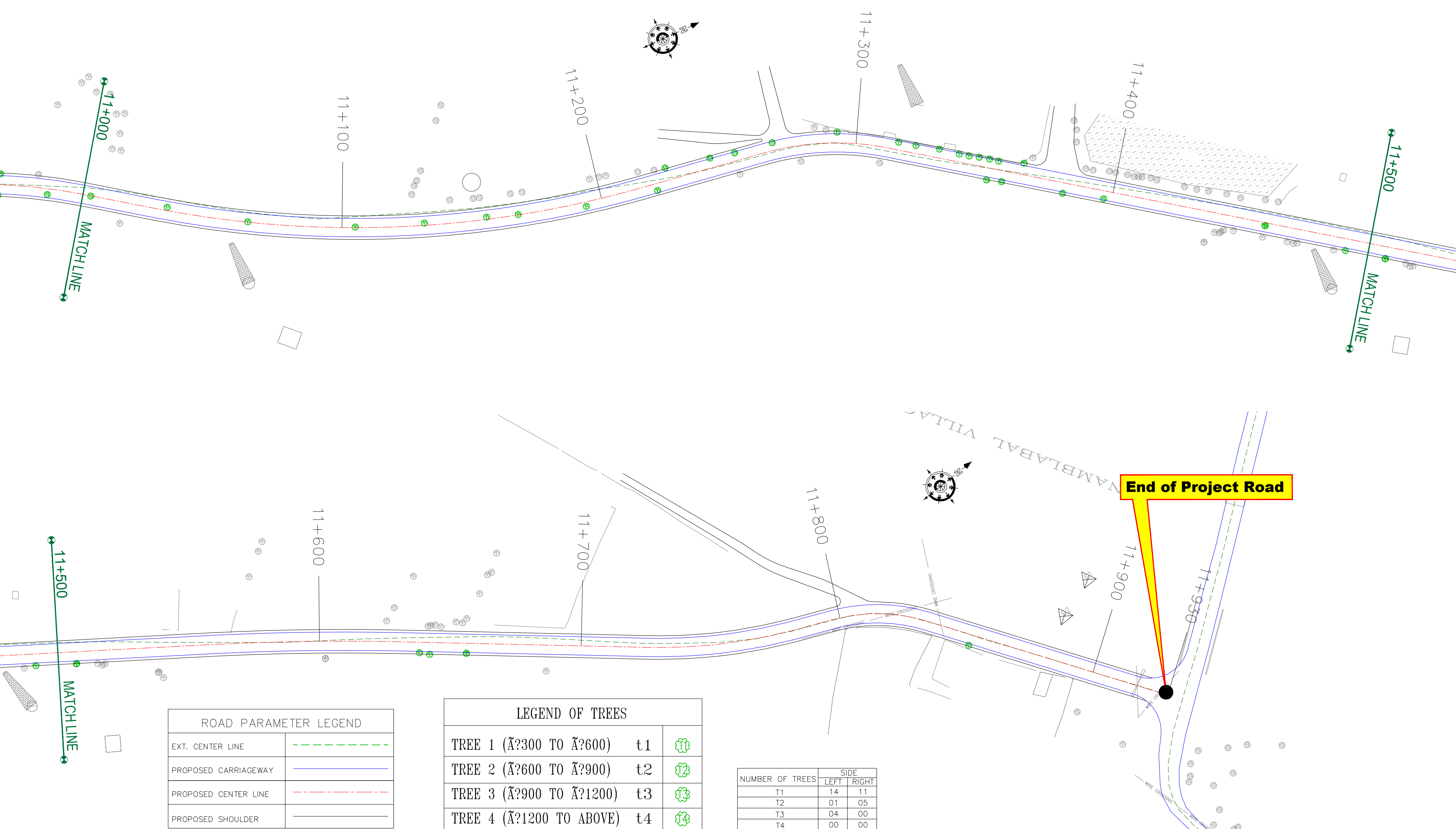


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West Bengal
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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	TREE CUTTING (Ch. 10+000 to Ch. 11+000)	
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/TC/11	
REVISION : R-1	August 2019	



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	- - - - -
PROPOSED CARRIAGEWAY	=====
PROPOSED CENTER LINE	- . - . -
PROPOSED SHOULDER	=====

LEGEND OF TREES		
TREE 1 (300 TO 600)	t1	
TREE 2 (600 TO 900)	t2	
TREE 3 (900 TO 1200)	t3	
TREE 4 (1200 TO ABOVE)	t4	

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	14	11
T2	01	05
T3	04	00
T4	00	00

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
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(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:



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West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	
TREE CUTTING (Ch. 11+000 to Ch. 11+930)	
DRG. NO. : EPTISA/JTFRP/DPR/J&K/TC/12	
REVISION : R-1	August 2019

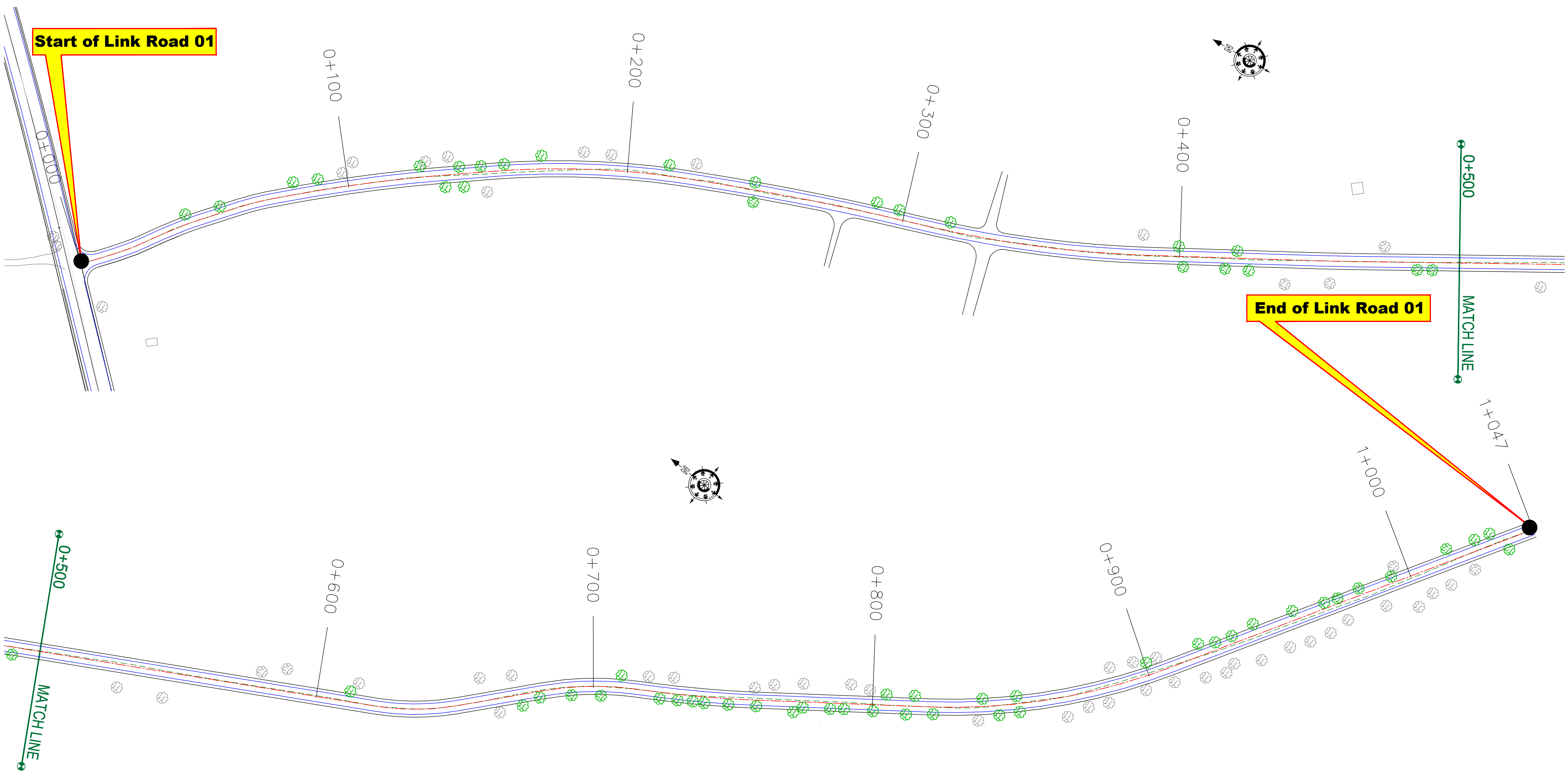
≡ TREE CUTTING (LINK ROAD) ≡

← Rambagh

Kadalbal →

Start of Link Road 01

End of Link Road 01



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

LEGEND OF TREES		
TREE 1 (300 TO 600)	t1	T1
TREE 2 (600 TO 900)	t2	T2
TREE 3 (900 TO 1200)	t3	T3
TREE 4 (1200 TO ABOVE)	t4	T4

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	22	20
T2	04	08
T3	00	00
T4	00	00

CLIENT :



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2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

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DESIGN CONSULTANT:



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REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : 1:1000

TITLE :

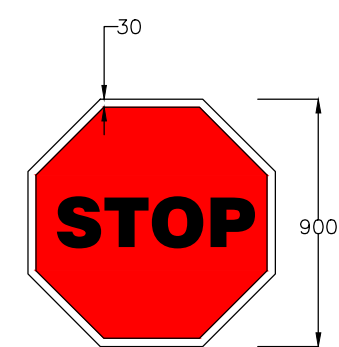
TREE CUTTING (LINK ROAD)
(Ch. 0+000 to Ch. 1+047)

DRG. NO. : EPTISA/JTRFP/DPR/J&K/TC/01

REVISION : R-1

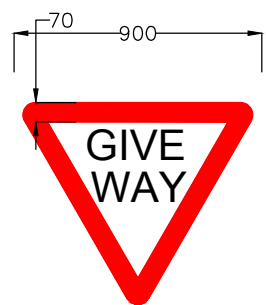
August 2019

≡ MISCELLANEOUS DRAWINGS ≡



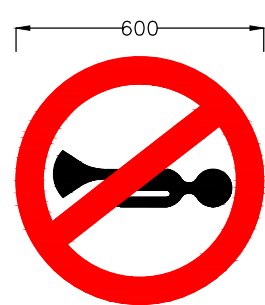
STOP SIGNS
Fig. 14.01

MS-1



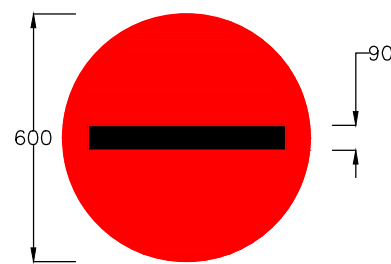
GIVE WAY
Fig. 14.02

MS-2



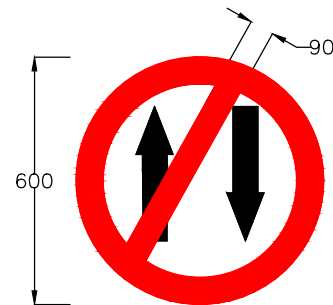
HORN PROHIBITED
Fig. 14.18

MS-3



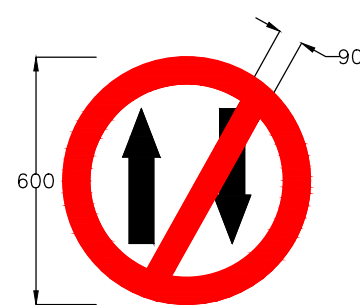
NO ENTRY
Fig. 14.19

MS-4



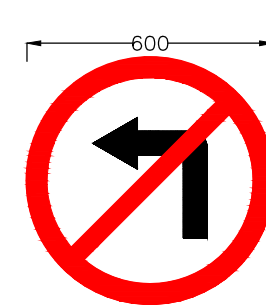
ONE WAY
Fig. 14.20

MS-5



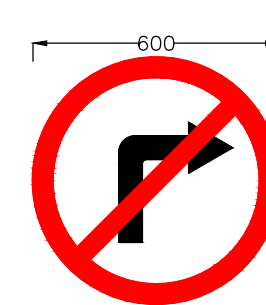
ONE WAY
Fig. 14.20

MS-6



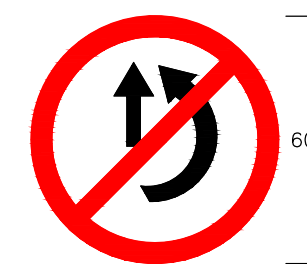
LEFT TURN PROHIBITED
Fig. 14.21

MS-7



RIGHT TURN PROHIBITED
Fig. 14.22

MS-8



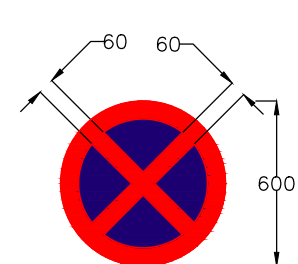
OVERTAKING PROHIBITED
Fig. 14.23

MS-9



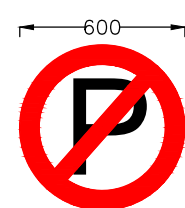
U- TURN PROHIBITED
Fig. 14.24

MS-10



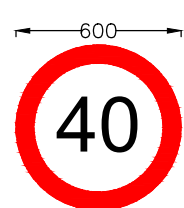
NO STOPPING AND NO STANDING
Fig. 14.28

MS-11



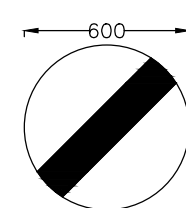
NO PARKING
Fig. 14.29

MS-12



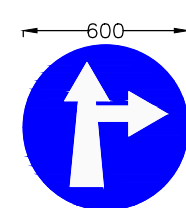
MAXIMUM SPEED LIMIT
Fig. 14.37

MS-13



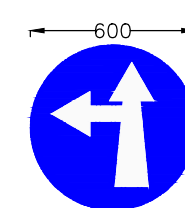
RESTRICTION ENDS
Fig. 14.40

MS-14



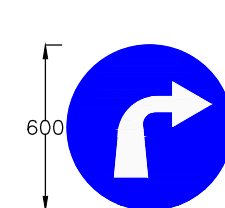
COMPULSORY AHEAD
OR RIGHT TURN
Fig. 14.42

MS-15



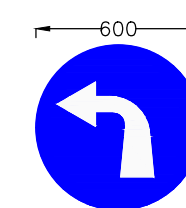
COMPULSORY AHEAD
OR LEFT TURN
Fig. 14.43

MS-16



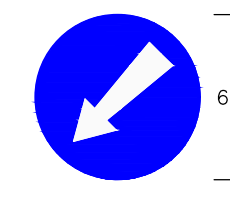
COMPULSORY
TURN RIGHT
Fig. 14.46

MS-17



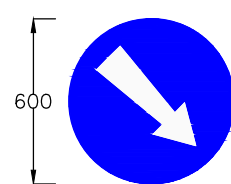
COMPULSORY
TURN LEFT
Fig. 14.47

MS-18



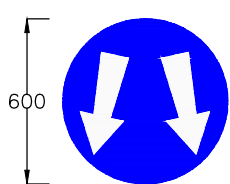
COMPULSORY KEEP LEFT
Fig. 14.48

MS-19



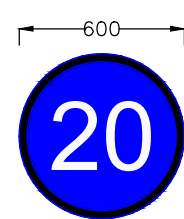
COMPULSORY KEEP RIGHT
Fig. 14.49

MS-20



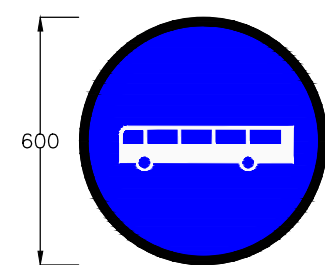
PASS EITHER SIDE
Fig. 14.50

MS-21



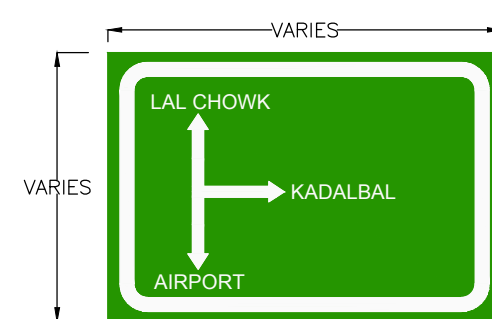
MINIMUM SPEED LIMIT
Fig. 14.51

MS-22



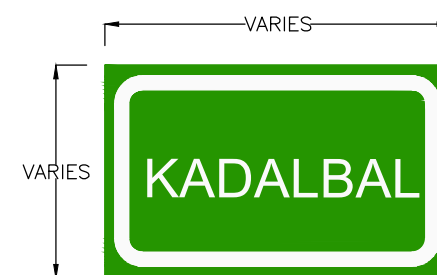
BUS WAY/BUSES ONLY
Fig. 14.56

MS-23



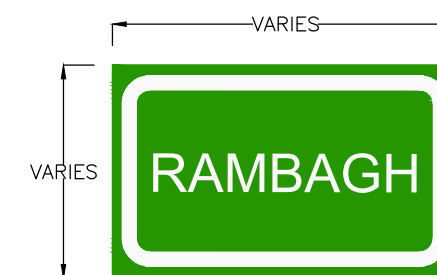
ADVANCE DIRECTION SIGN
Fig. 16.04

DS-01



PLACE IDENTIFICATION SIGN
Fig. 16.06

DS-02



PLACE IDENTIFICATION SIGN
Fig. 16.06

DS-03


Notes:

1. Road signs shall be erected as per IRC:67-2012.
2. Sizes of arrows, letters and numerals for road signs shall be as per IRC:67-2012
3. Route marker signs, letters and numerals shall be erected as per IRC:2-1968.
4. Spacing of TA2 on kerb face shall be 250mm C/C and that on metal beam crash barrier shall be 3000mm C/C. The number of reflector at island/median tips shall be as instructed by the Engineer, but in no case shall be less than five number at a tip.
5. All items indicated in this drawing may not be relevant for the subject project, these shall be used depending upon the requirement.
6. Besides the above, standards and specifications mentioned in IRC : SP : 73-2015 shall be followed strictly whenever applicable.
7. All dimensions are in millimetres unless otherwise mentioned.

CLIENT :

Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

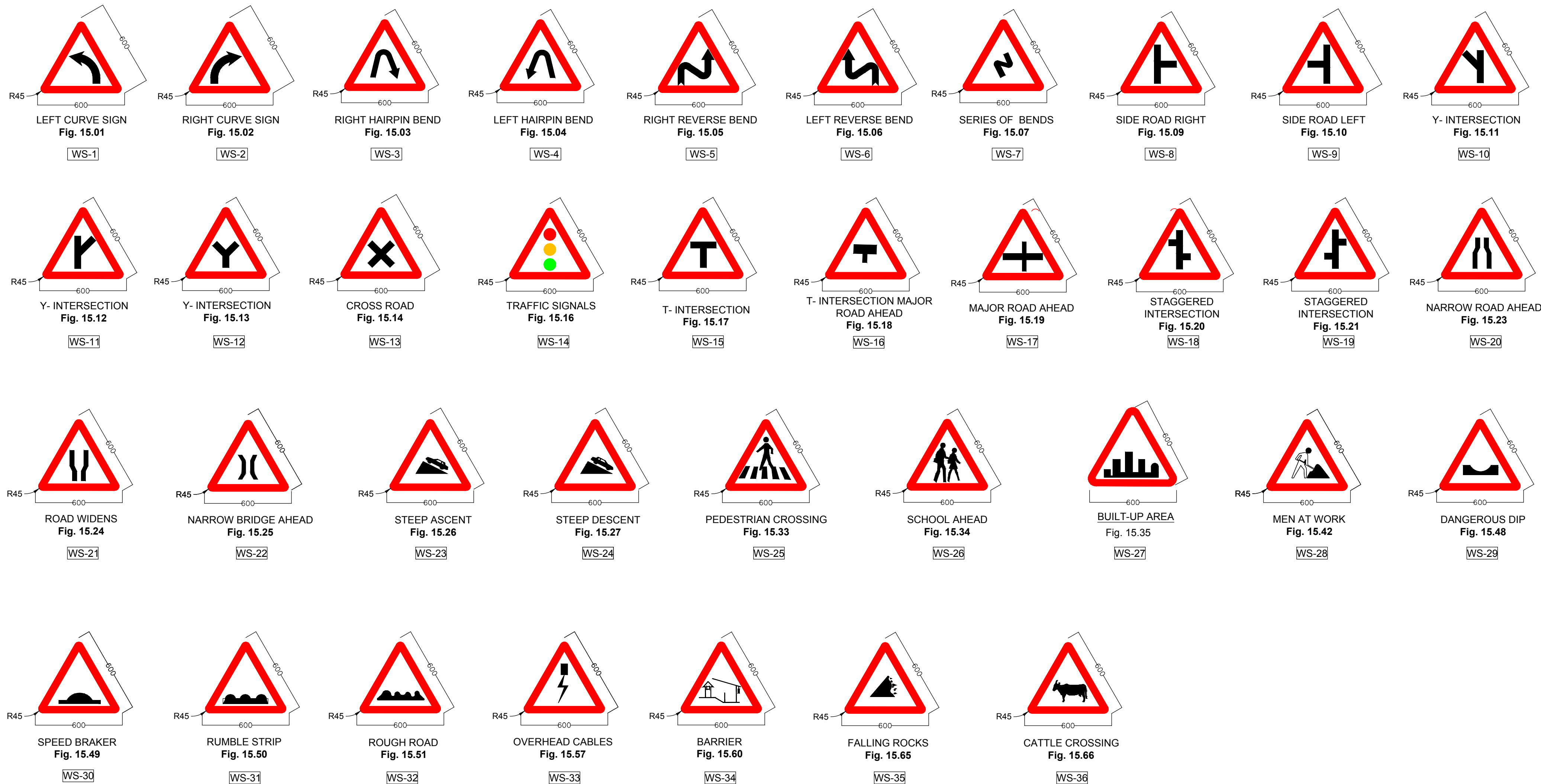
PROJECT :
Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:
 **Eptisa Servicios de Ingenieria S.L.**
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY : SD
DESIGNED BY : SCK/MM
APPROVED BY : KG
SCALE : N.T.S

TITLE :
Road Signs & Road Delineators
DRG. NO. : EPTISA/JTRP/DPR/J&K/MISC/01
(Sheet 01 of 03)
REVISION : R-1
August 2019



Notes:

- 1.Road signs shall be erected as per IRC:67–2012.
- 2.Sizes of arrows, letters and numerals for road signs shall be as per IRC:67–2012
- 3.All items indicated in this drawing may not be relevant for the subject project, these shall be used depending upon the requirement.
- 4.Besides the above, standards and specifications mentioned in IRC:SP:73–2015 shall be followed strictly whenever applicable.
- 5.All dimensions are in millimetres unless otherwise mentioned.

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

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REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : N.T.S

TITLE :

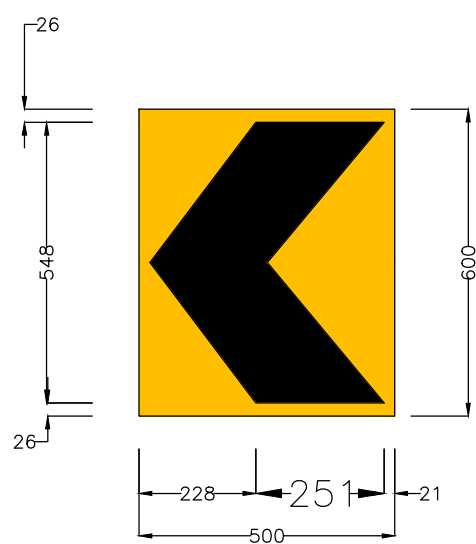
Road Signs & Road Delineators

DRG. NO. : EPTISA/JTRP/DPR/J&K/MISC/01

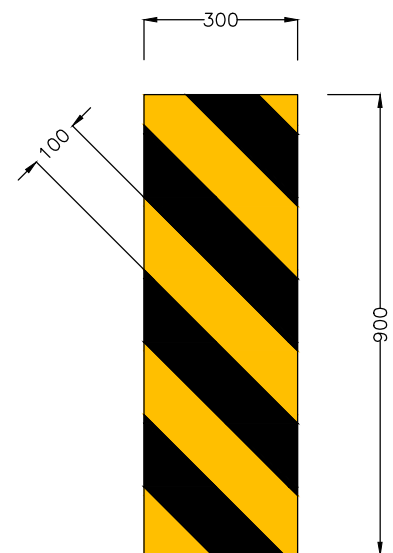
(Sheet 02 of 03)

REVISION : R-1

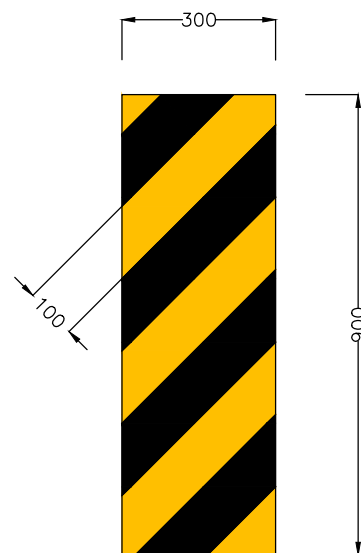
August 2019



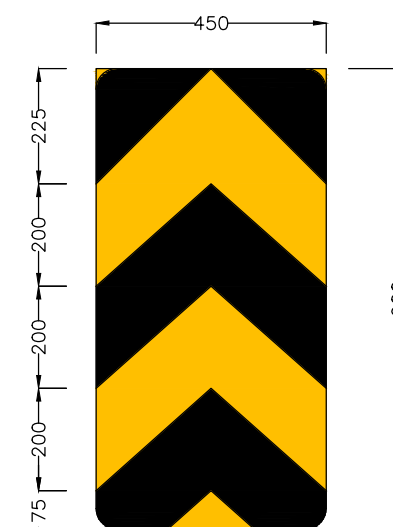
SINGLE CHEVRON
Fig. 15.72
TA-1
SCALE 1:15000



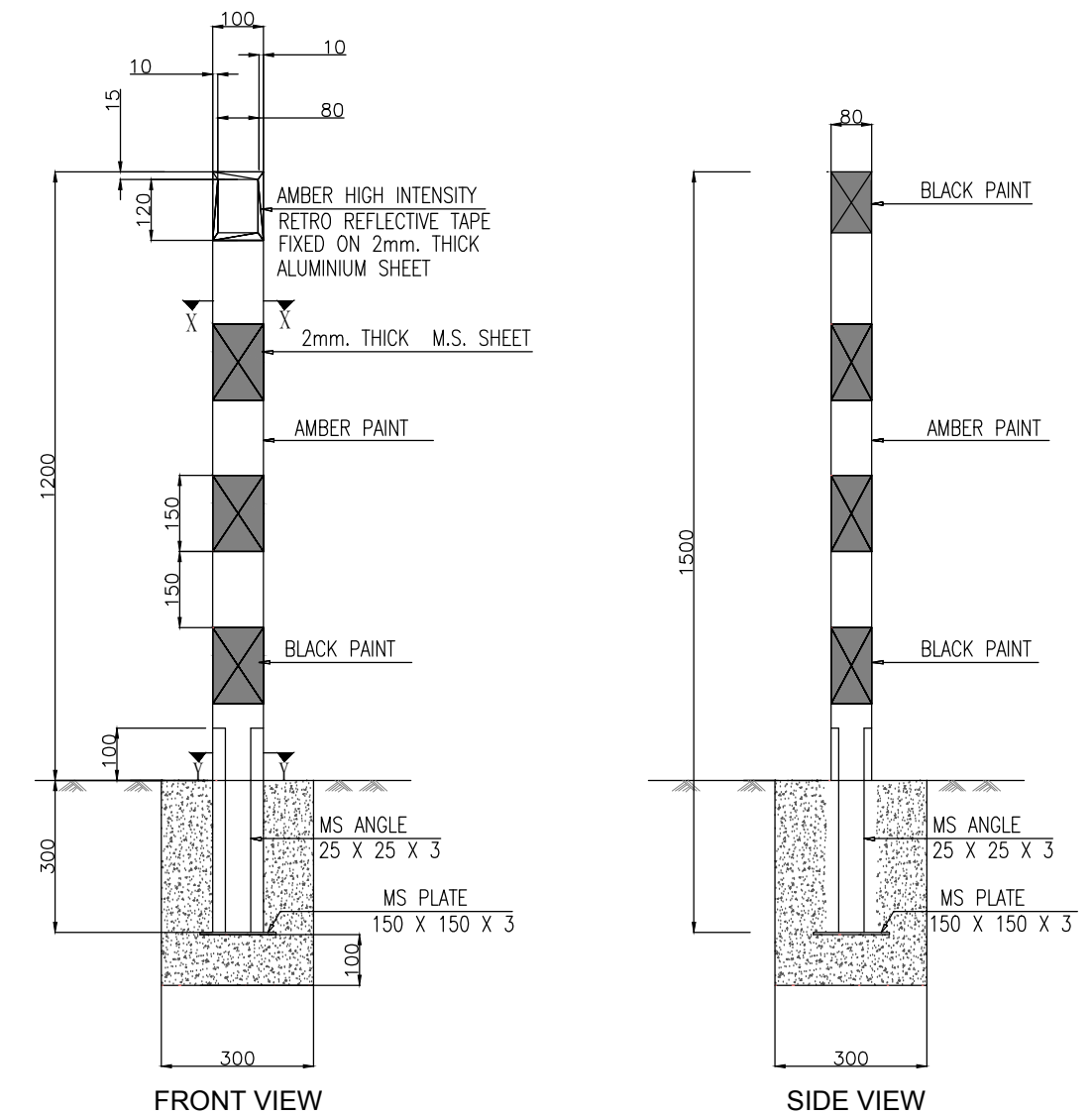
OBJECT HAZARD (LEFT)
Fig. 15.76
TA-2
SCALE 1:15000



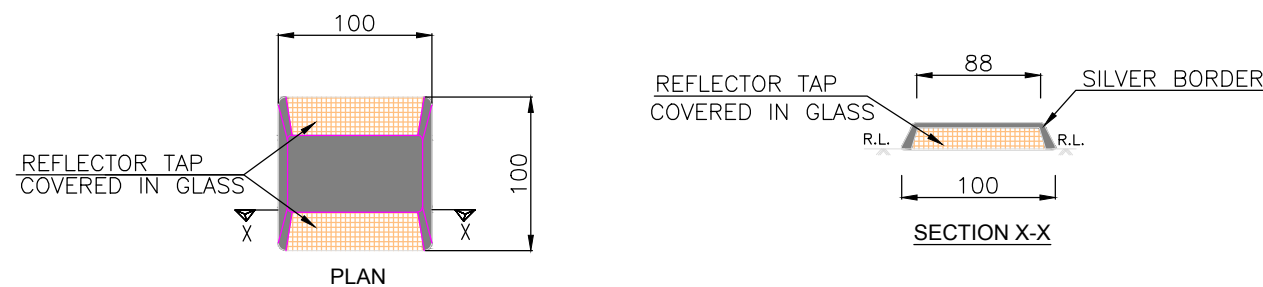
OBJECT HAZARD (RIGHT)
Fig. 15.77
TA-3
SCALE 1:15000



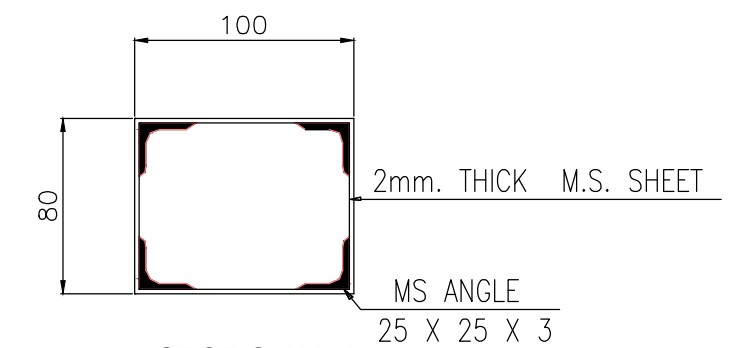
TWO WAY HAZARD MARKER
Fig. 15.78
TA-4
SCALE 1:15000



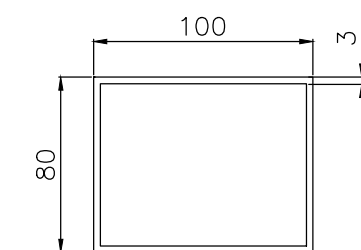
ROAD DELINEATORS
TA-6
SCALE 1:15000



ROAD STUDS (CATS'S EYE)
TA-7
SCALE 1:5000



SECTION Y-Y
SCALE 1:3500



SECTION X-X
SCALE 1:3500

Notes:

- 1.Road signs shall be erected as per IRC:67–2012.
- 2.Sizes of arrows, letters and numerals for road signs shall be as per IRC:67–2012
- 3.All items indicated in this drawing may not be relevant for the subject project, these shall be used depending upon the requirement.
- 4.Besides the above, standards and specifications mentioned in IRC:SP:73–2015 shall be followed strictly whenever applicable.
- 5.All dimensions are in millimetres unless otherwise mentioned.
- 6.The scale mentioned is applicable for A2 size sheet.

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:

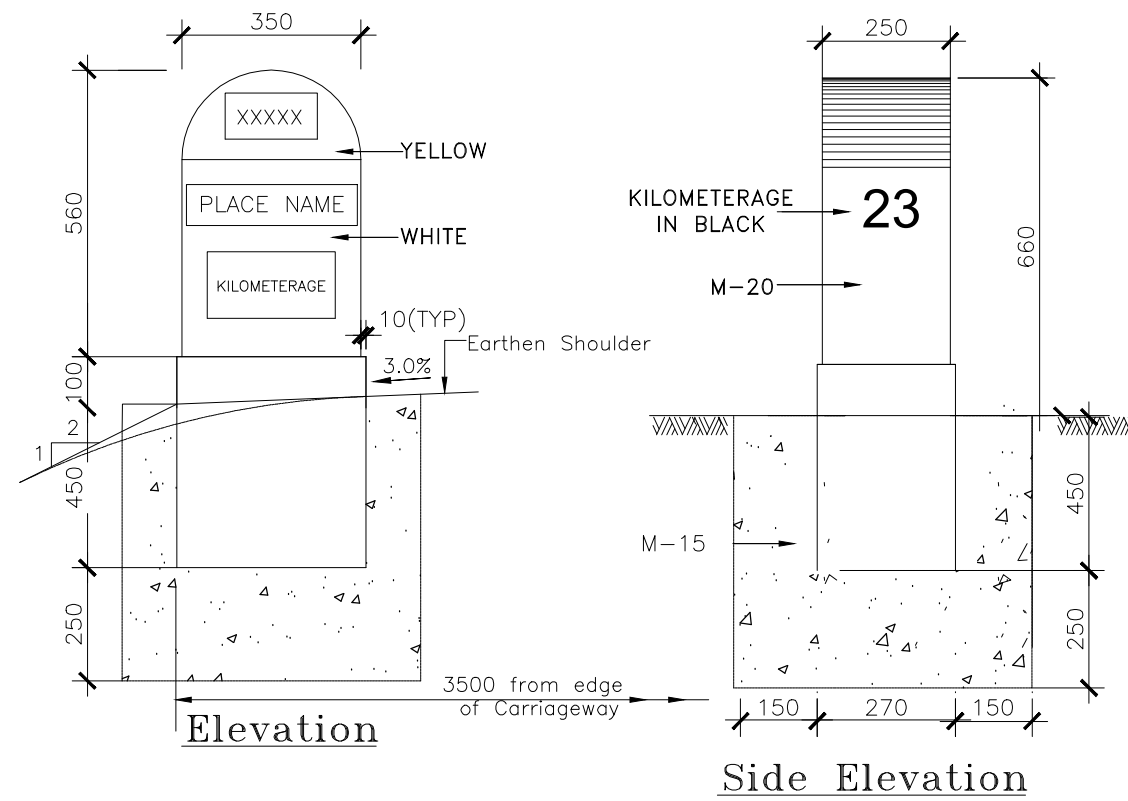


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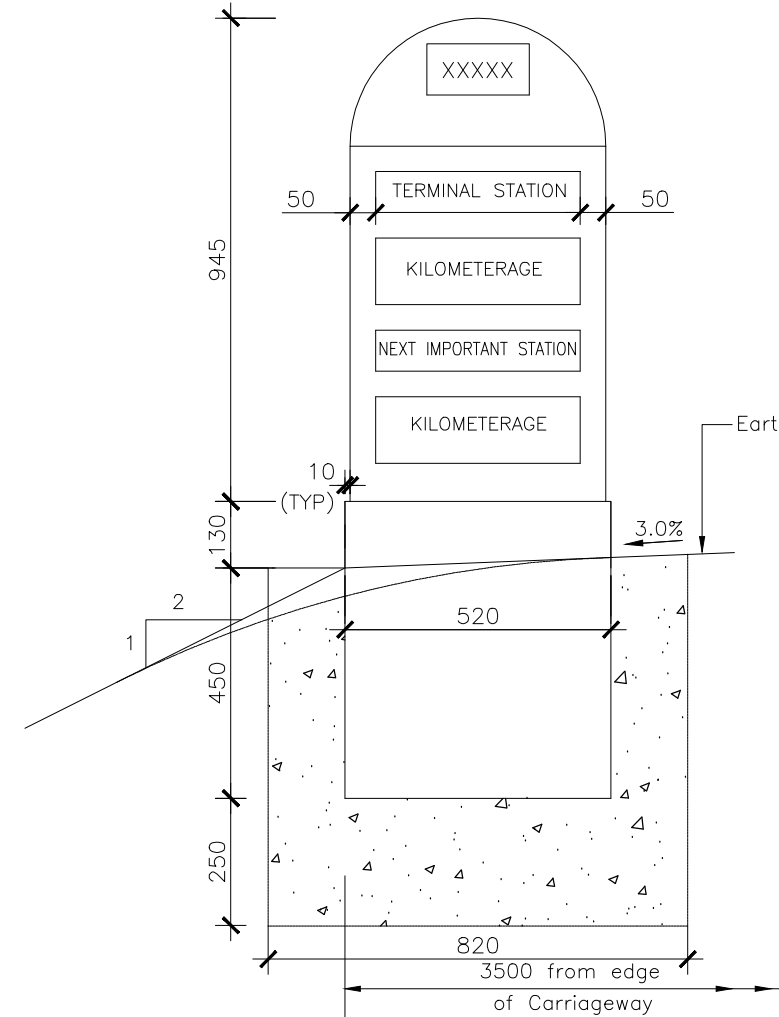
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	AS SHOWN

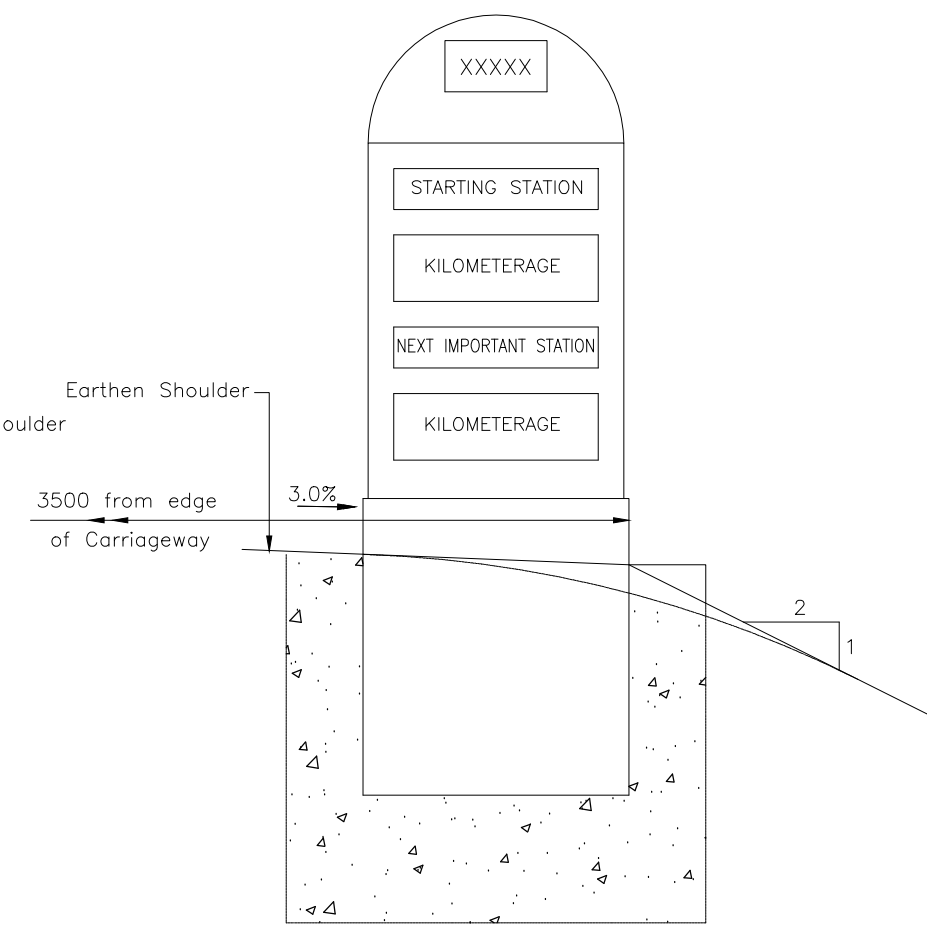
TITLE :	Road Signs & Road Delineators
DRG. NO. :	EPTISA/JTRP/DPR/J&K/MISC/01 (Sheet 03 of 03)
REVISION : R-1	August 2019



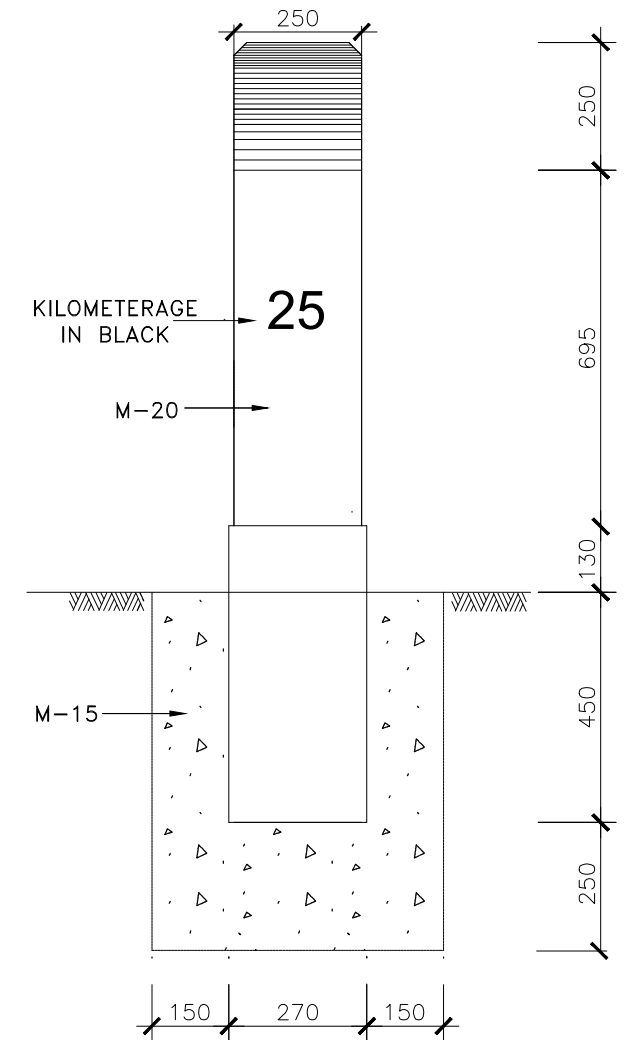
Kilometre Stone



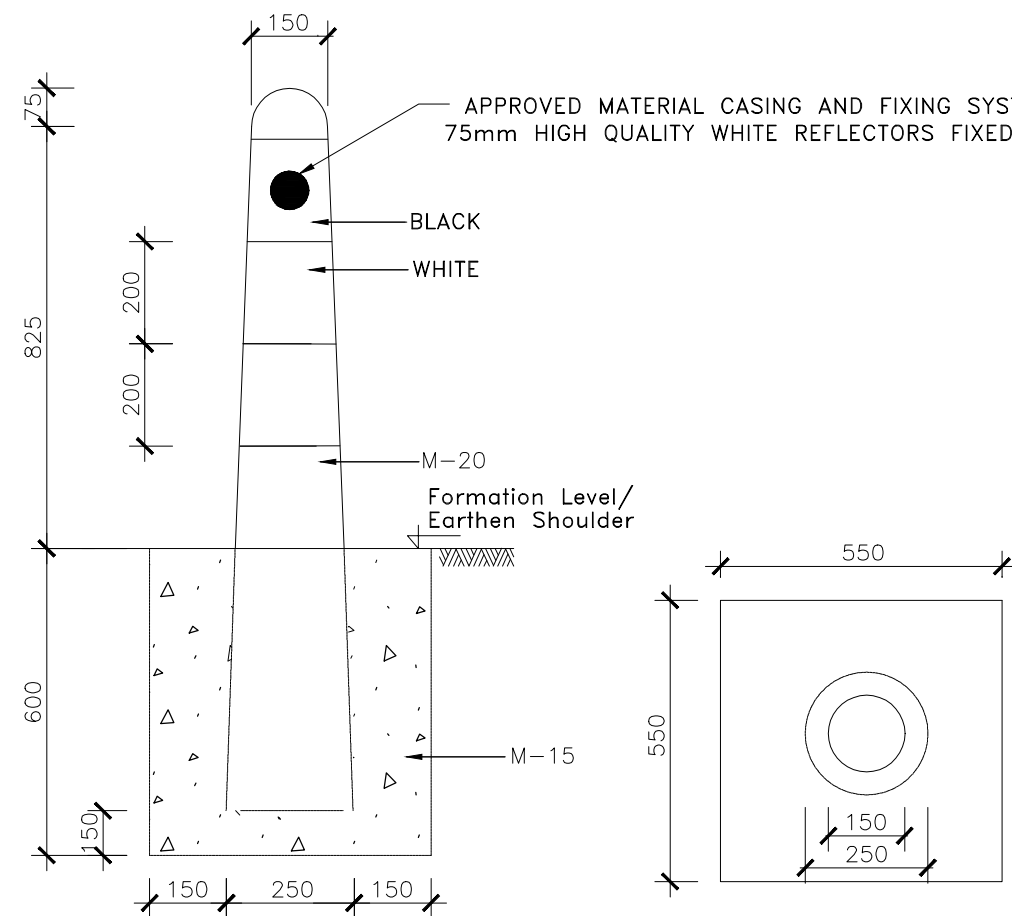
Face - I Elevation



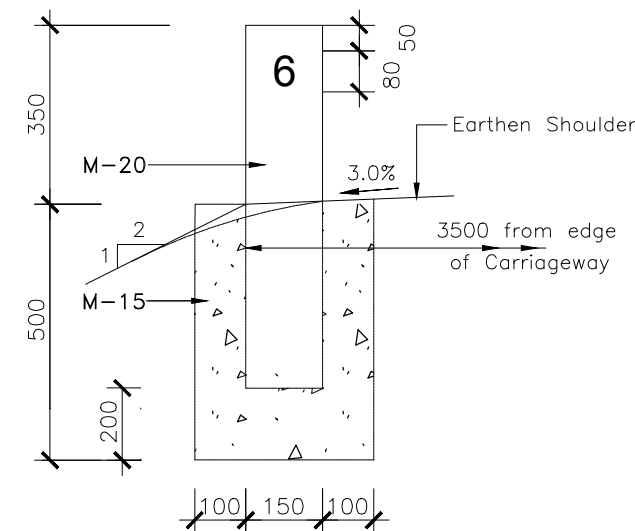
Face - II Elevation



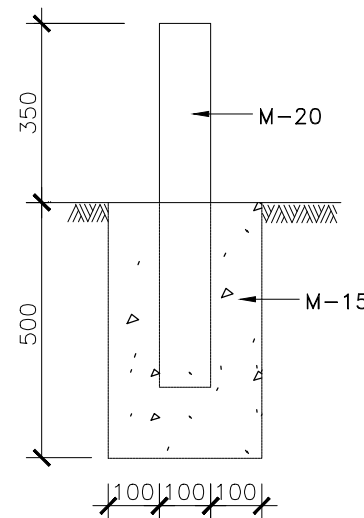
Side Elevation



Guard Post

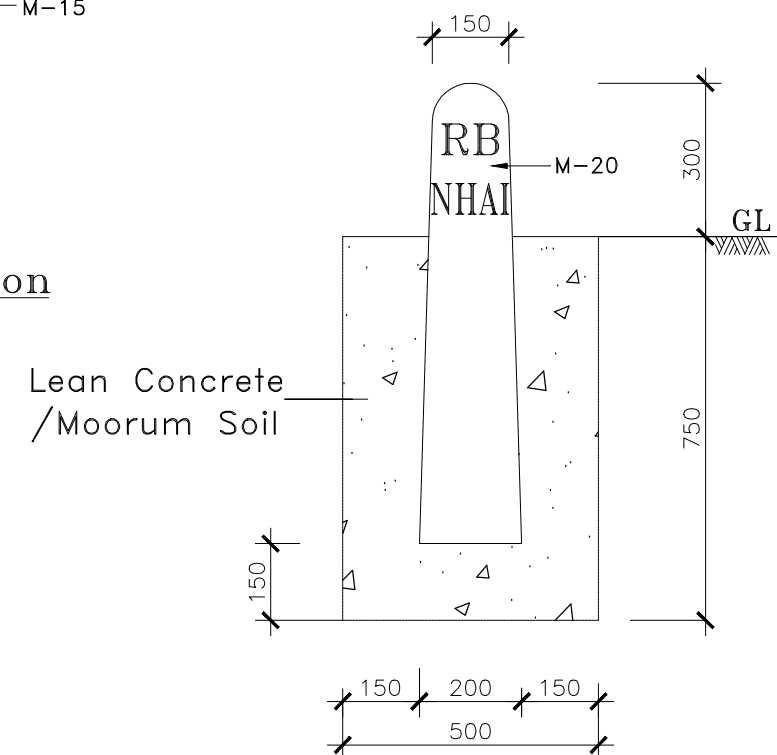


Front Elevation

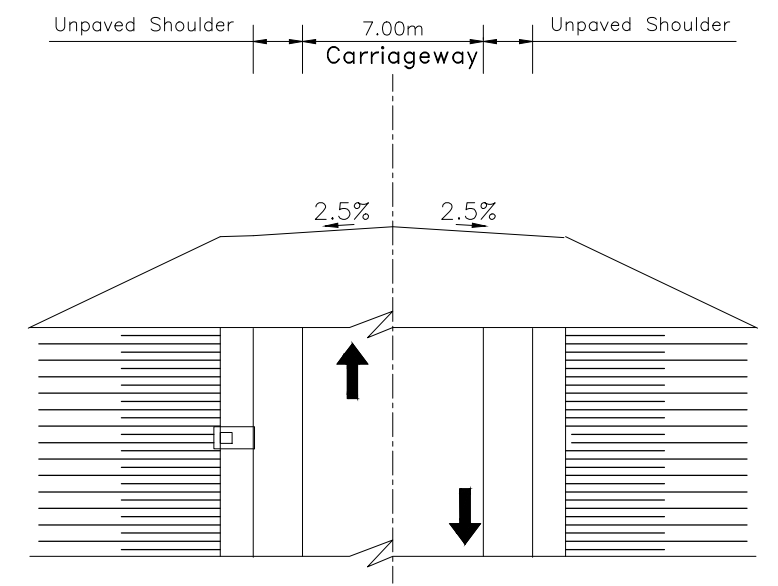


Side Elevation

200 metre Stone



Boundary Stone



Plan

Location of Distance Stones

Notes:

1. Details of kilometre stone and 5th kilometre stone are generally based on IRC:8-1980
2. Details of 200m stones are generally based on IRC:26-1967.
3. The distance stones shall be provided on left side of the road as shown independently for each direction of traffic flow.
4. The letters and numerals on distance stones shall be as per IRC:8-1980.
5. Details of boundary stones are generally based on IRC:25-1967.
6. Besides the above, standards and specifications mentioned in IRC : SP : 73-2015 shall be followed strictly whenever applicable.
7. All dimensions are in millimetres unless otherwise mentioned.
8. Location of Distance Stones shall be as per applicable TCSs for the stretches where Depressed Median has been provided.

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
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DESIGN CONSULTANT:

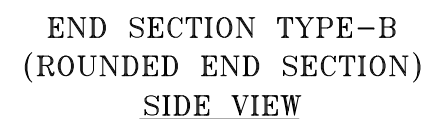
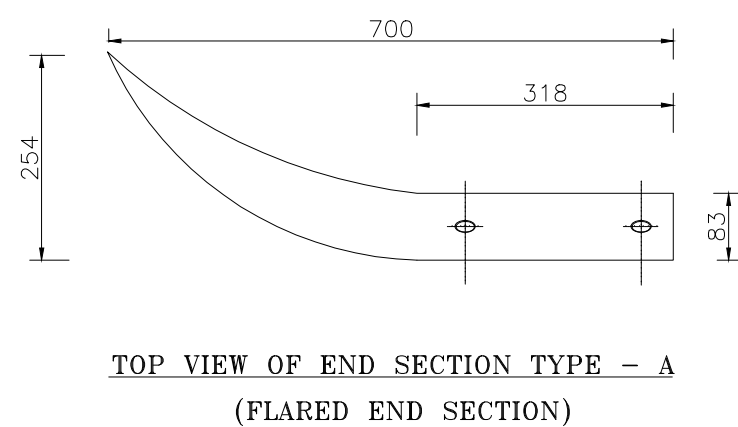
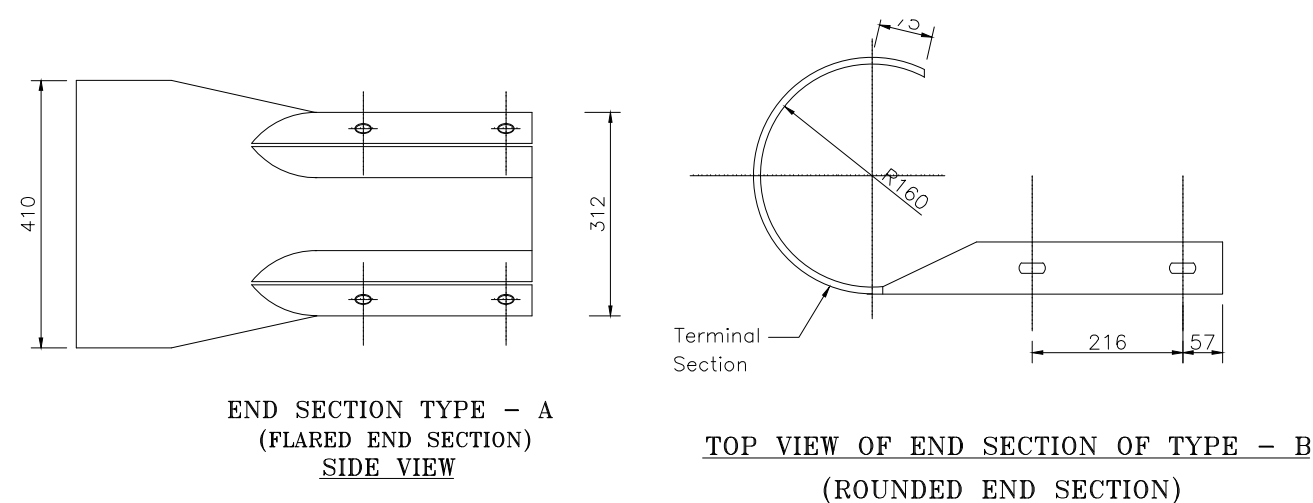


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West Bengal
Ph: 033-40347200
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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	N.T.S

TITLE :	Typical Details of Distance Stone, Boundary Stone & Guard Post
DRG. NO. :	EPTISA/JTRP/DPR/J&K/MISC/02
REVISION : R-1	August 2019



1. All dimensions are in millimetres unless otherwise mentioned
2. Suitable reflectors are to be provided on W-Beam at a spacing of 3 m c/c
3. Anchor cable hooks to be in contact with anchor reinforcement when concrete is placed
4. All holes in posts and blocks shall be 21.50mm max
5. W-beam shall be as per IS : 5986 – 1992 and post, spacers etc. shall be as per IS : 2062 – 1992
6. W-beam, posts & spacers shall be hot dip galvanised as per specifications
7. At bridge locations, the metal beam crash barrier shall terminate preferably with end section Type A and connected with bridge/culvert railing/crash barrier in a suitable manner as approved.
8. Besides the above, standards and specifications mentioned in IRC : SP : 73-2015 shall be followed strictly whenever applicable.

Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

Consultancy Services for Preparing Detailed Project Report
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Ph: 033-40347200
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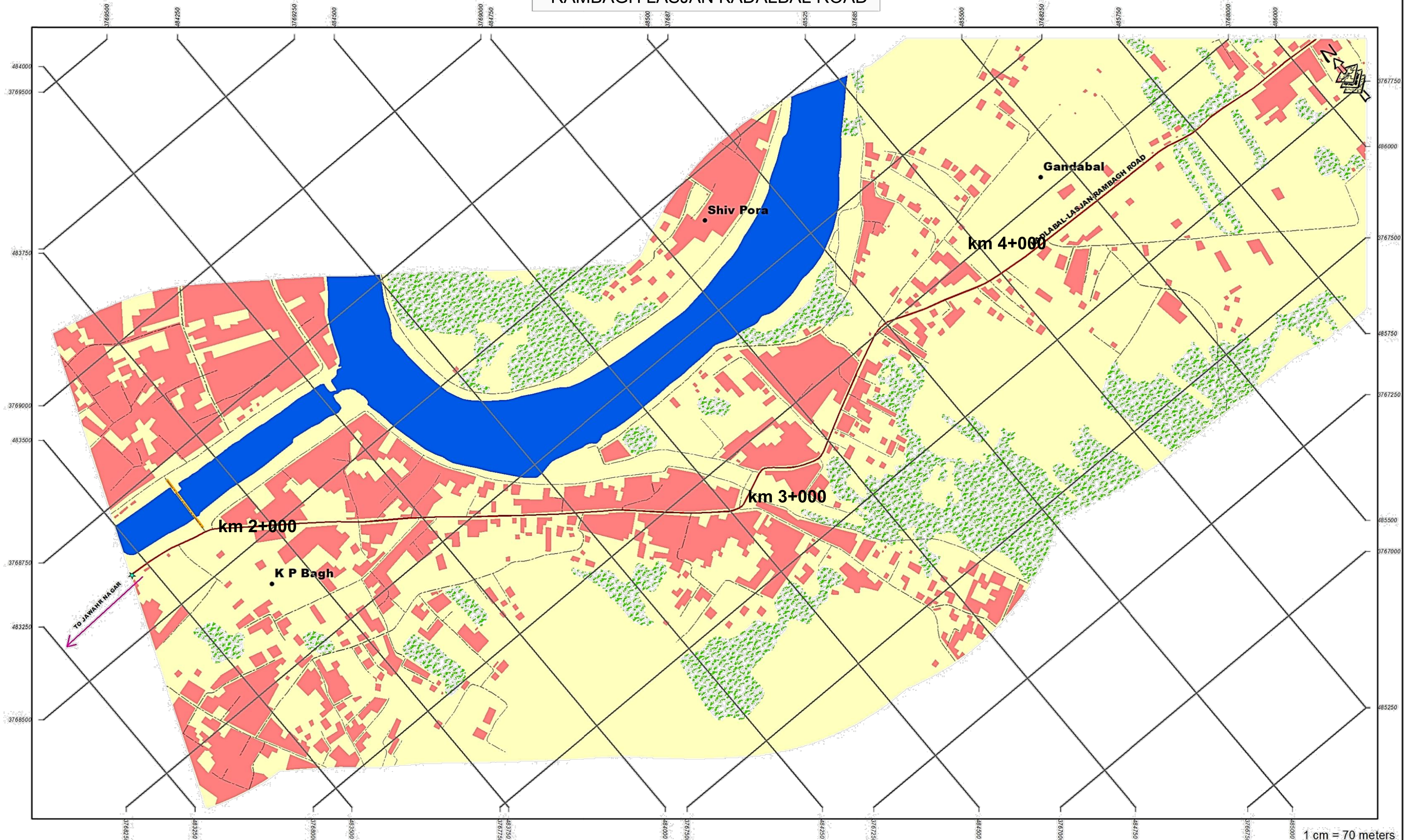
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SCALE : N.T.S

REVISION : R-1

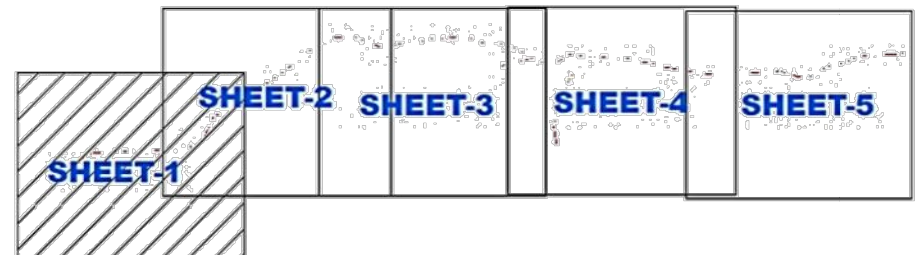
August 2019

RAMBAGH LASJAN KADALBAL ROAD



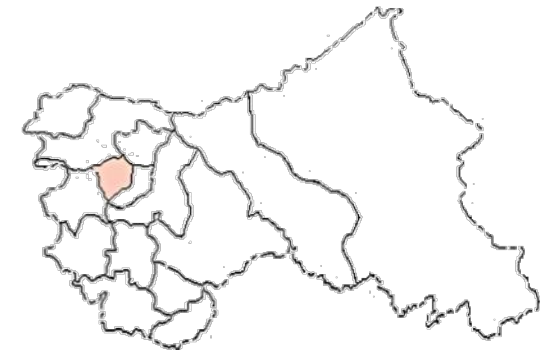
1 cm = 70 meters

INDEX MAP



Legend

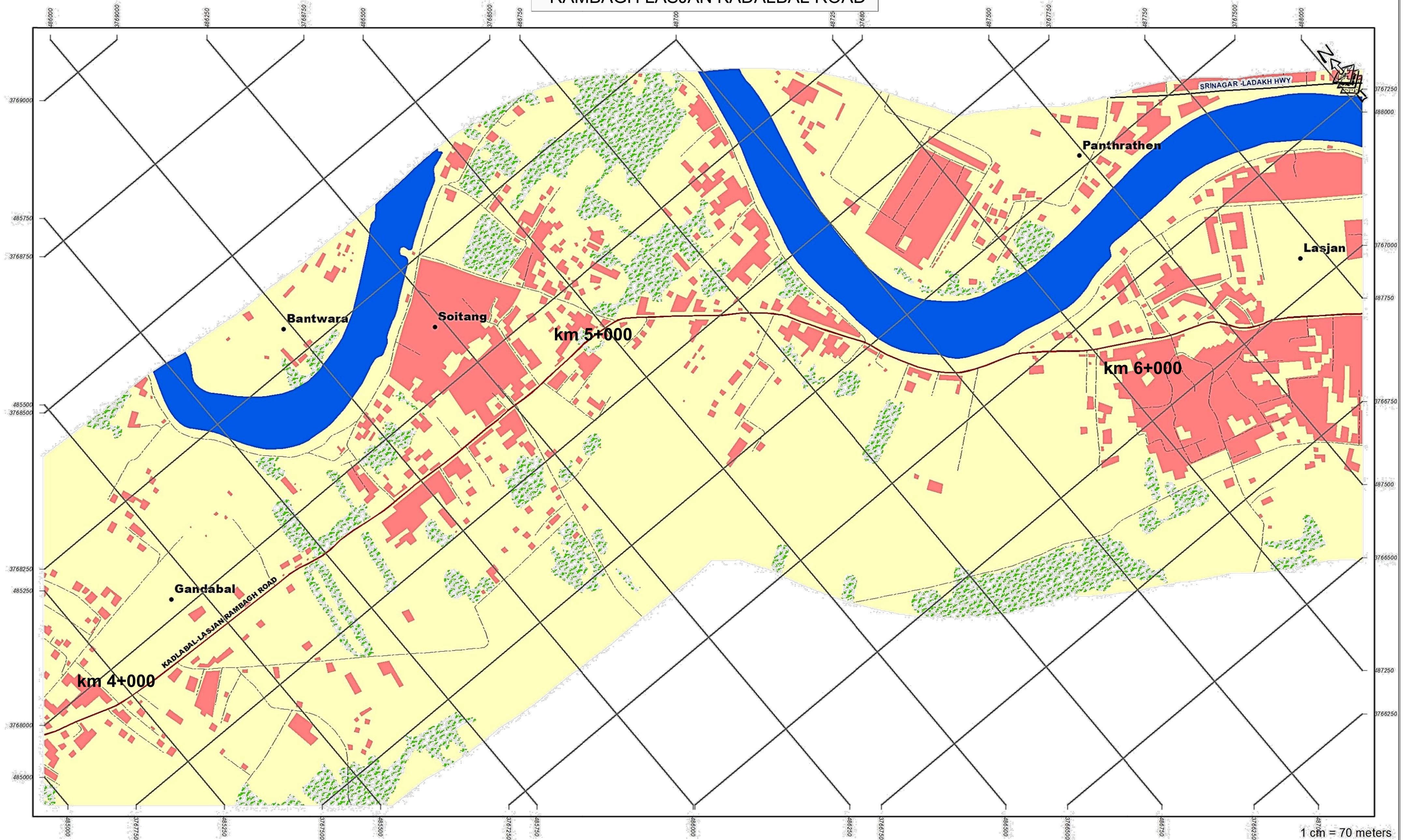
- | | | |
|-----------------------|--------------------|------------------|
| ● Importance_LandMark | — Road_Centerline | Water |
| ★ Start_End_Point | Orange Bridge | Vegetation |
| ● Village_Name | Red Building | Open_Barren_Land |
| — Major_Road | Light Brown Forest | |
| --- Other_Road | Red Proposed_Road | |



Project: JHELUM TAWI FLOOD RECOVERY PROJECT
Sub-Project: FOR RECONSTRUCTION OF RAMBAGH LASJAN KADALBAL ROAD UNDER
Agency: PROJECT MANAGEMENT UNIT JTFRP

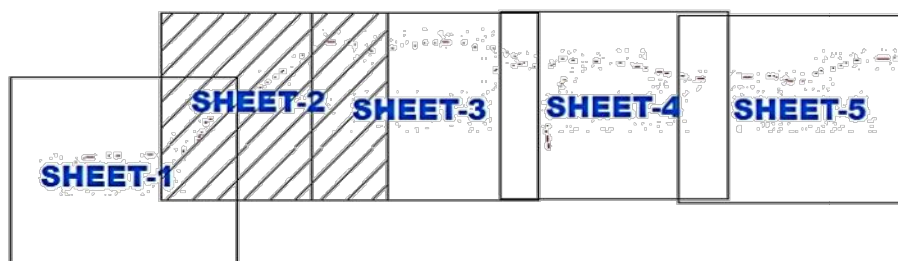


RAMBAGH LASJAN KADALBAL ROAD



1 cm = 70 meters

INDEX MAP



Legend

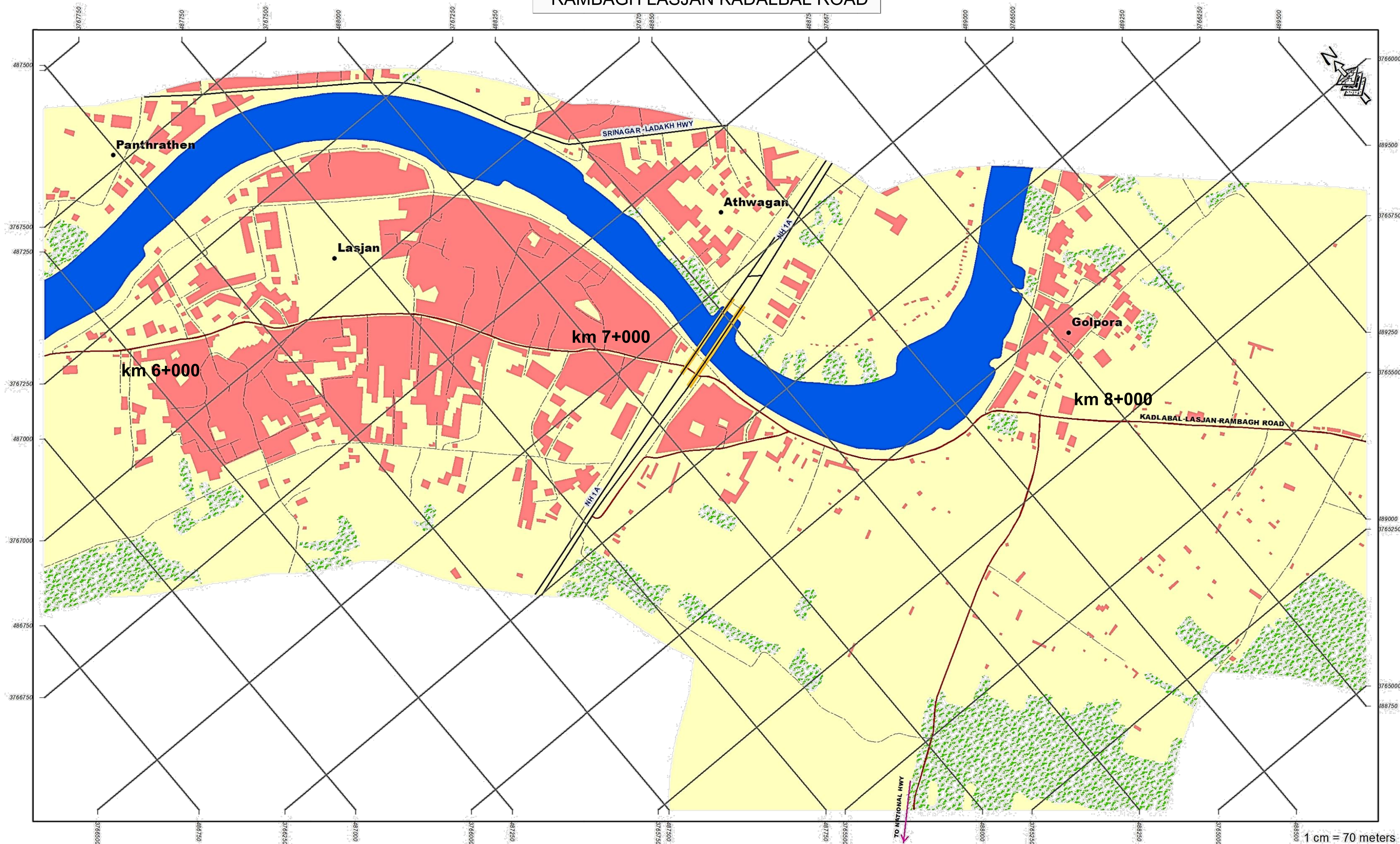
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|-----------------------|-------------------|--------------------|
| ● Importance_LandMark | — Road_Centerline | ■ Water |
| ★ Start_End_Point | ■ Bridge | ■ Vegetation |
| ● Village_Name | ■ Building | ■ Open_Barren_Land |
| — Major_Road | ■ Forest | |
| — Other_Road | ■ Proposed_Road | |



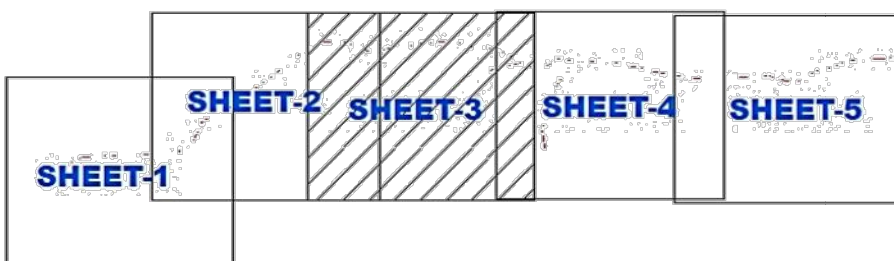
Project: JHELUM TAWI FLOOD RECOVERY PROJECT
Sub-Project: FOR IMPROVEMENT AND UP-GRADATION OF
RAMBAGH LASJAN KADALBAL ROAD UNDER
JAMMU AND KASHMIR DIVISION
Agency: PIU R&B DEPT(DIVISION - NOWSHERA)



RAMBAGH LASJAN KADALBAL ROAD

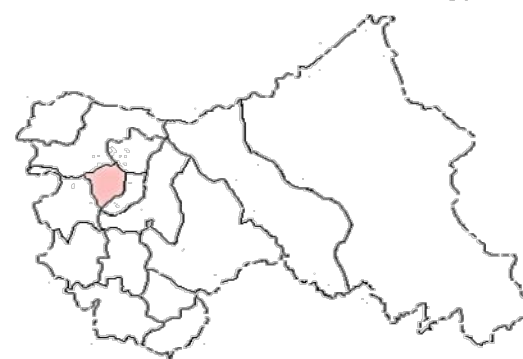


INDEX MAP



Legend

- | | | |
|-----------------------|-------------------|------------------|
| ● Importance_LandMark | — Road_Centerline | Water |
| ★ Start_End_Point | Bridge | Vegetation |
| ● Village_Name | Building | Open_Barren_Land |
| — Major_Road | Forest | |
| — Other_Road | Proposed_Road | |



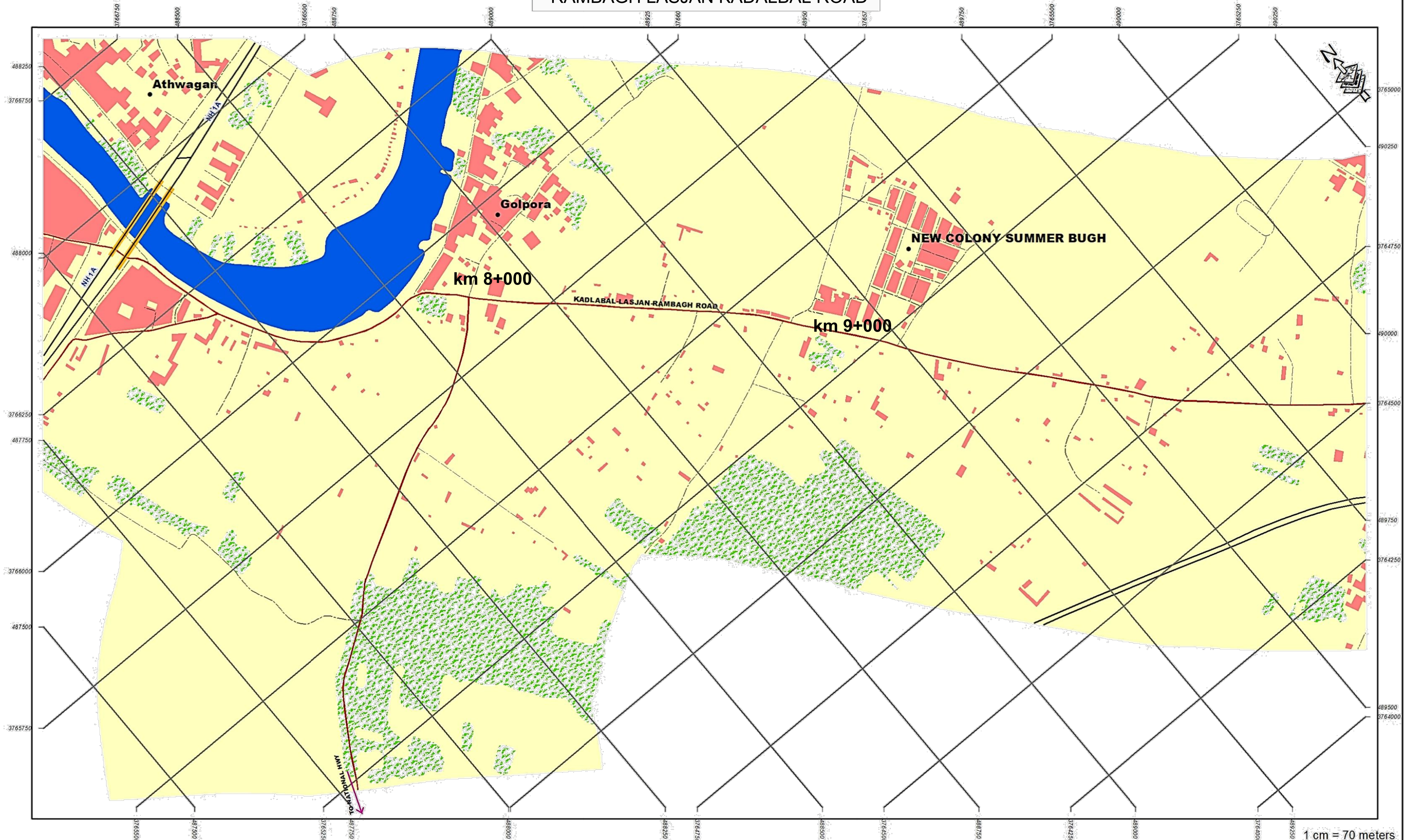
Project: JHELM TAWI FLOOD RECOVERY PROJECT

Sub-Project: FOR RECONSTRUCTION OF
RAMBAGH LASJAN KADALBAL ROAD UNDER
KASHMIR DIVISION

Agency: PROJECT MANAGEMENT UNIT JTFRP

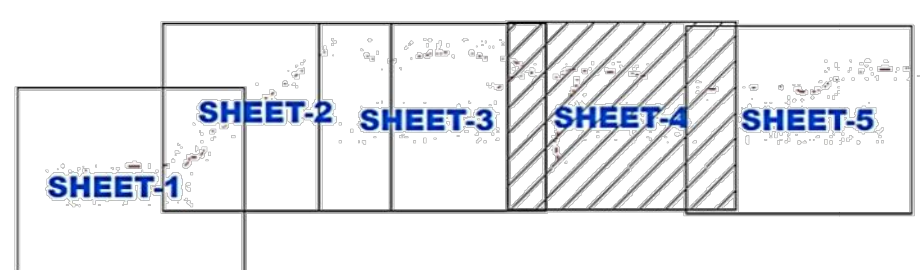
ep4isa

RAMBAGH LASJAN KADALBAL ROAD



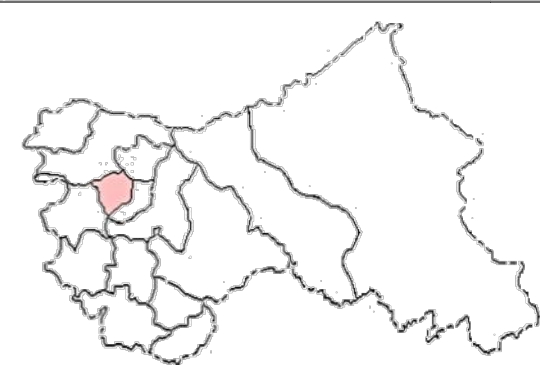
1 cm = 70 meters

INDEX MAP



Legend

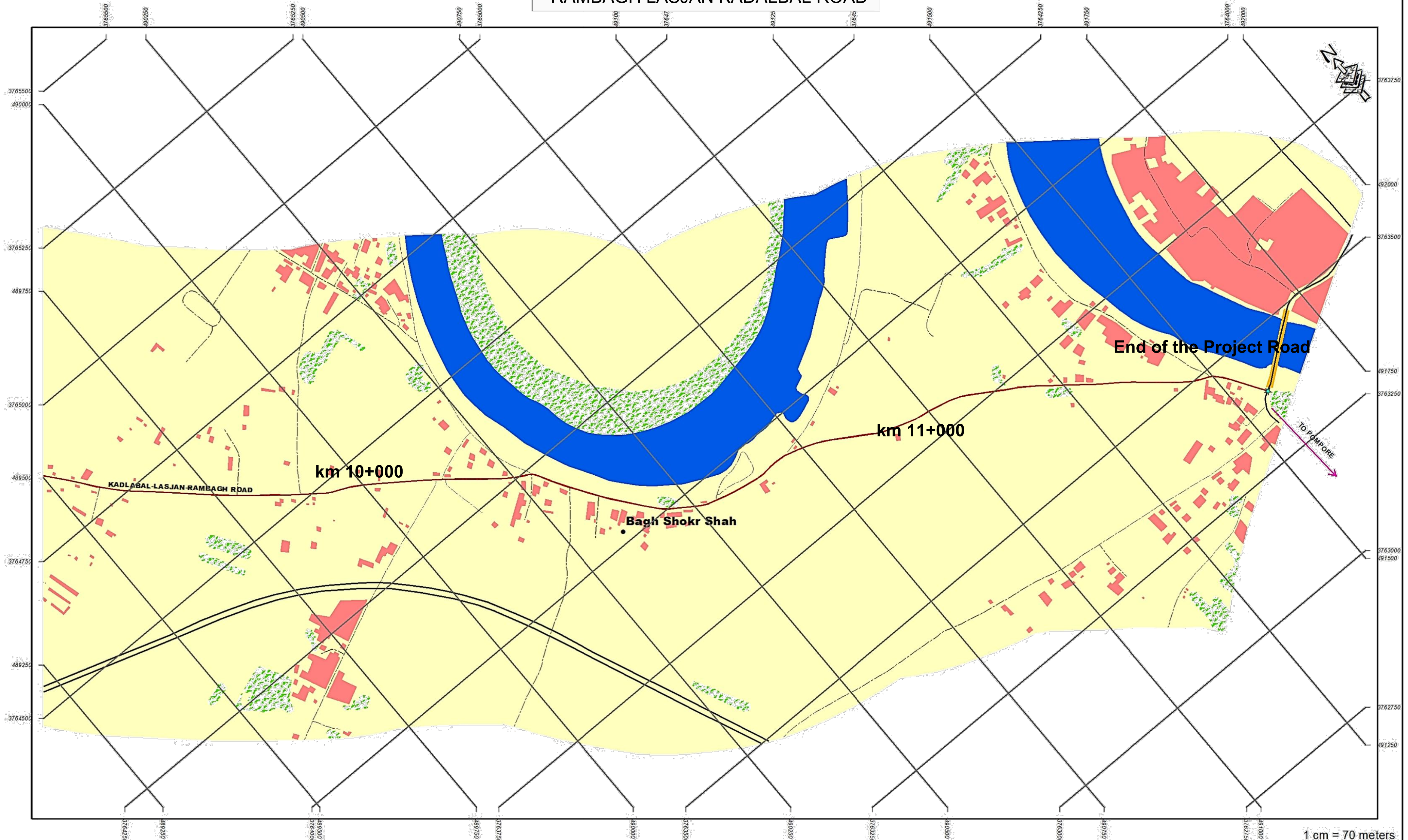
- | | | |
|-----------------------|-------------------|------------------|
| ● Importance_LandMark | — Road_Centerline | Water |
| ★ Start_End_Point | Bridge | Vegetation |
| ● Village_Name | Building | Open_Barren_Land |
| — Major_Road | Forest | |
| --- Other_Road | Proposed_Road | |



Project: JHELUM TAWI FLOOD RECOVERY PROJECT
Sub-Project: FOR RECONSTRUCTION OF RAMBAGH LASJAN KADALBAL ROAD UNDER KASHMIR DIVISION
Agency: PROJECT MANAGEMENT UNIT JTFRP

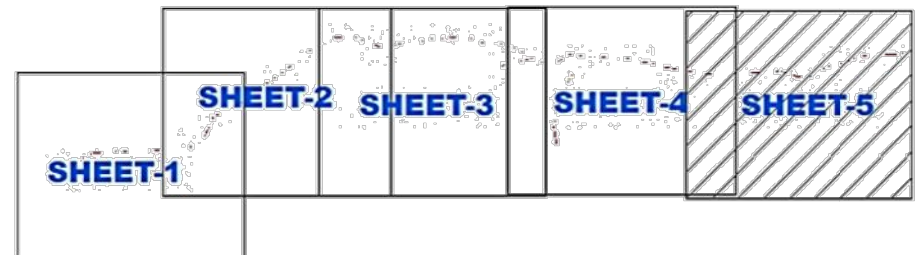


RAMBAGH LASJAN KADALBAL ROAD



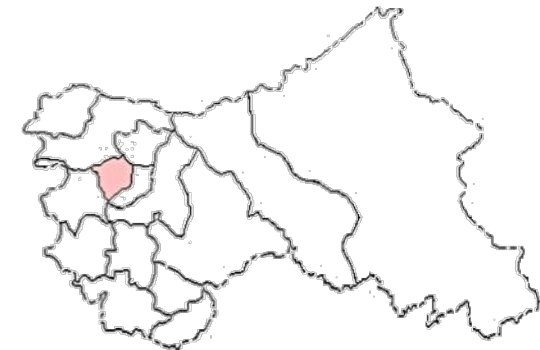
1 cm = 70 meters

INDEX MAP



Legend

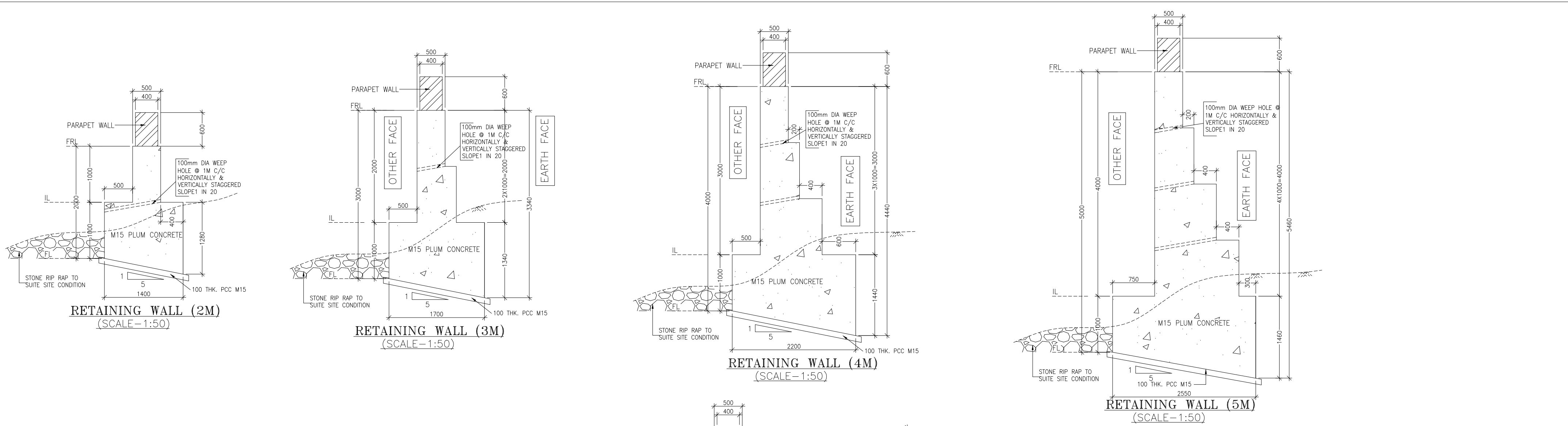
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|-----------------------|-------------------|--------------------|
| ● Importance_LandMark | — Road_Centerline | ■ Water |
| ★ Start_End_Point | ■ Bridge | ■ Vegetation |
| ● Village_Name | ■ Building | ■ Open_Barren_Land |
| — Major_Road | ■ Forest | |
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DETAILS OF PCC RETAINING WALL



- NOTES :**
1. ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE MENTIONED.
 2. DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 3. 100 DIA WEEP HOLES WITH SLOPE 1 I 20 SHALL BE PROVIDED AT SPACING OF 1000 C/C BOTH HORIZONTALLY & 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 $\phi=35^\circ$, $C=0$, $\gamma = 21/m^3$
 5. ALL FACE OF WALL SHALL BE PROVIDED WITH A MINIMUM STEEL OF 250mm² IN EACH DIRECTION. SPACING OF THESE BARS SHALL NOT EXCEED 300mm.
 6. THESE DRAWING ARE APPLICABLE FOR M15 PCC OR M15 GRADE CONCRETE WITH PLUM. REFER SPECIFICATIONS FOR PLUM CONCRETE GIVEN IN THIS DRAWING.
- PLUM CONCRETE SPECIFICATIONS:**
- THE SIZE OF STONE PLUMS MAY BE FORM 150-300MM. THE MAXIMUM DIMENSION OF THESE STONES OR PLUMS SHALL NOT EXCEED $\frac{1}{3}$ RD THE LEAST DIMENSION OF THE MEMBERS.
- MATERIAL:**
- ALL PLUMS SHALL BE HARD, DURABLE, CLEAN AND FREE FROM SOFT MATERIALS OR LOOSEPIECES OR DELETERIOUS SUBSTANCE IN THEM & SHALL NOT HAVE SHARP.
- CONSTRUCTION OPERATIONS:**
- DURING CONCRETING THE FIRST LAYER OF CONCRETE OF THE SPECIFIED MIX SHALL BE LAID TO A THICKNESS OF THE MAXIMUM SIZE OF THE PLUMS TO BE USED. THE PLUMS SHALL THEN BE LAID WHILE THE TOP PORTION OF THIS CONCRETE IS STILL GREEN BUT SUFFICIENTLY STIFF TO PREVENT COMPLETE SUBMERGENCE OF THE PLUM UNDER THEIR OWN WEIGHT. THESE PLUMS SHALL BE ABOUT HALF EMBEDDED IN THE CONCRETE & THE REMAINING PART EXPOSED 150 AS TO FORM A KEY WITH THE NEXT LAYER OF THE CONCRETE. NO PLUM SHALL BE USED FOR CONCRETE LAID UNDER WATER.
- WHILE PLACING THE PLUMS, CARE SHALL BE TAKEN TO SEE THAT THE CLEAR DISTANCE BETWEEN ANY TWO PLUMS IS NOT LESS THAN EITHER THE WIDTH OR THICKNESS OF EITHER OF THE PLUMS. THE DISTANCE FROM THE PLUMS TO THE OUTER SURFACE FROM ANY STEEL REINFORCEMENT SHALL BE EQUAL TO GREATEST WIDTH OF PLUMS. IF PLUMS OF STRATIFIED STONE ARE USED THEY SHALL BE LAID ON THEIR NATURAL BED. STONES WITH CONCAVE FACES SHALL BE LAID WITH THE CONCAVE UPWARD WITH THE THICKNESS OF THE NEXT AND SUCCESSIVE LAYERS OF CONCRETE SHALL BE AT LEAST TWICE THAT OF THE LARGEST PLUM.
- QUALITY OF PLUM:**
- THE TOTAL VOLUME OF PLUMS SHALL NOT EXCEED 15% OF THE VOLUME OF THE FINISHED CONCRETE.
- MIX OF CONCRETE:**
- PLUM CONCRETE 1:2:4 (1 CEMENT, 2 SAND, 4 GRADED STONE AGGREGATE 40 MM NORMAL SIZE) WITH 15% PLUMS.

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:

 **Eptisa Servicios de Ingenieria S.L.**
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Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG

TITLE :	DETAILS OF PCC RETAINING WALL
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/RW-01
REVISION : R-1	August 2019

|| CULVERT DRAWINGS ||

← Rambagh

Kadalbal →

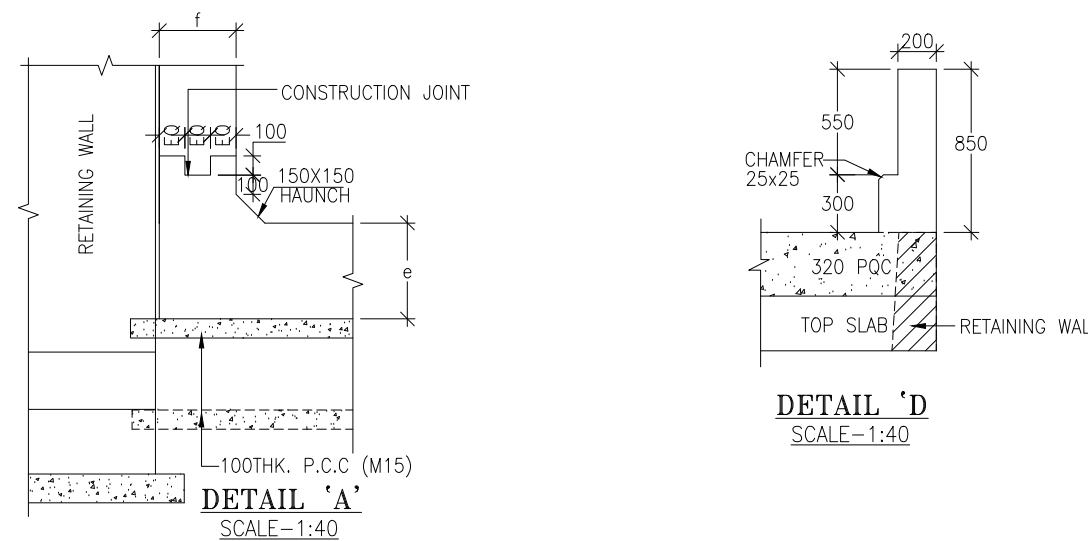
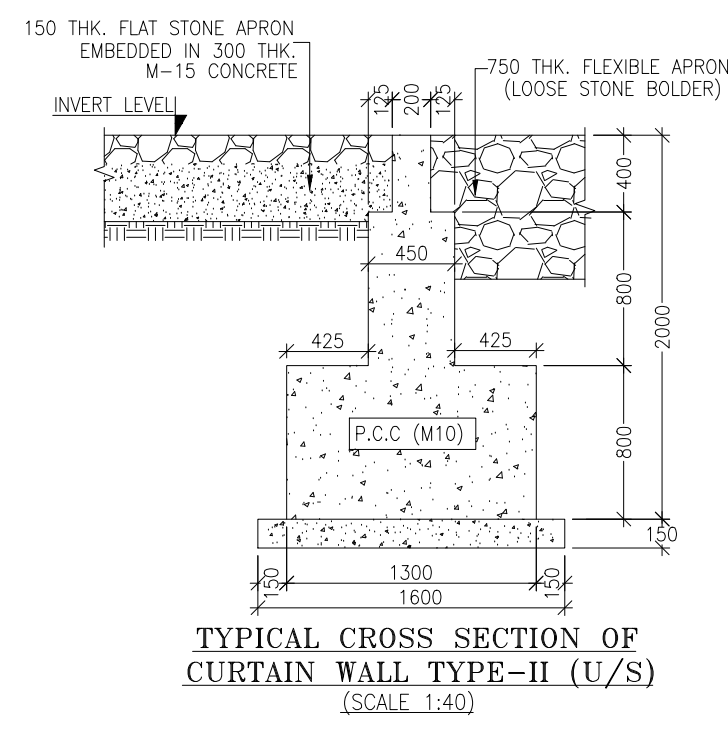
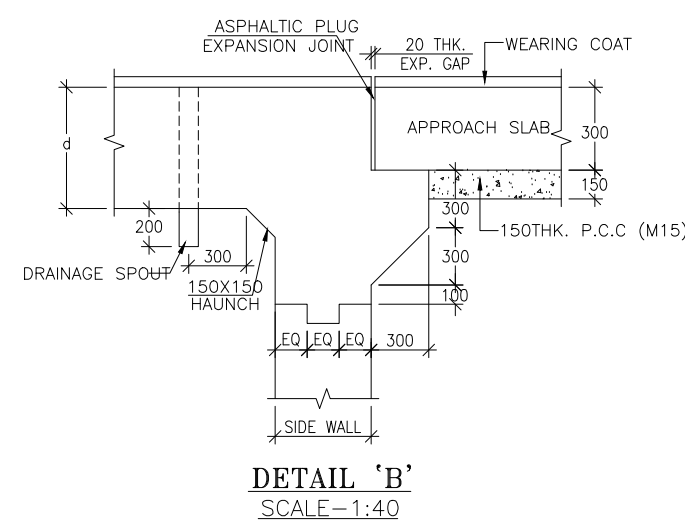
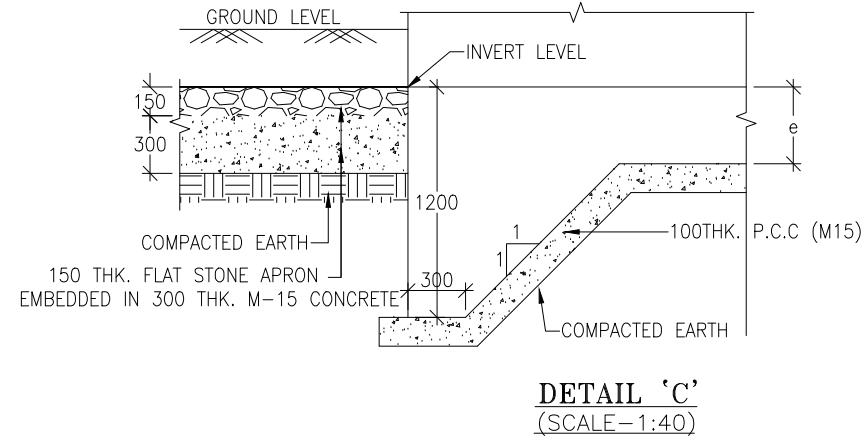
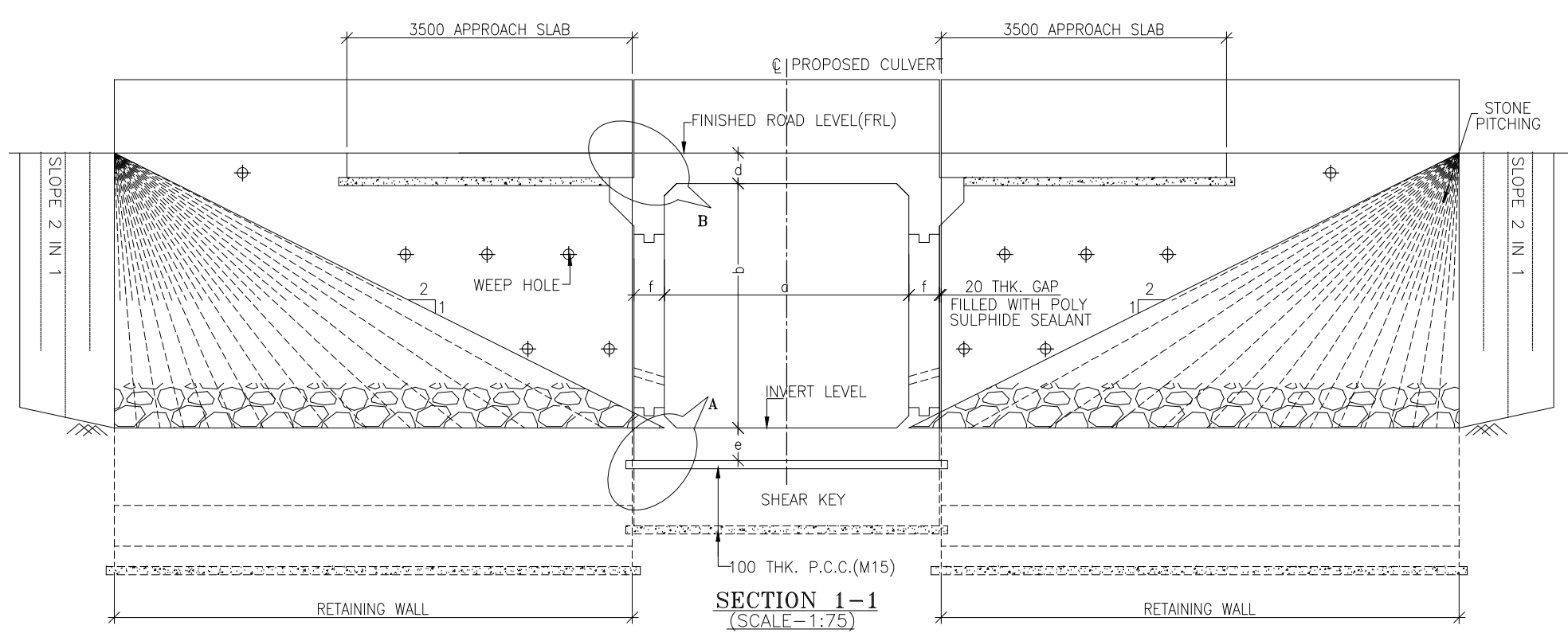
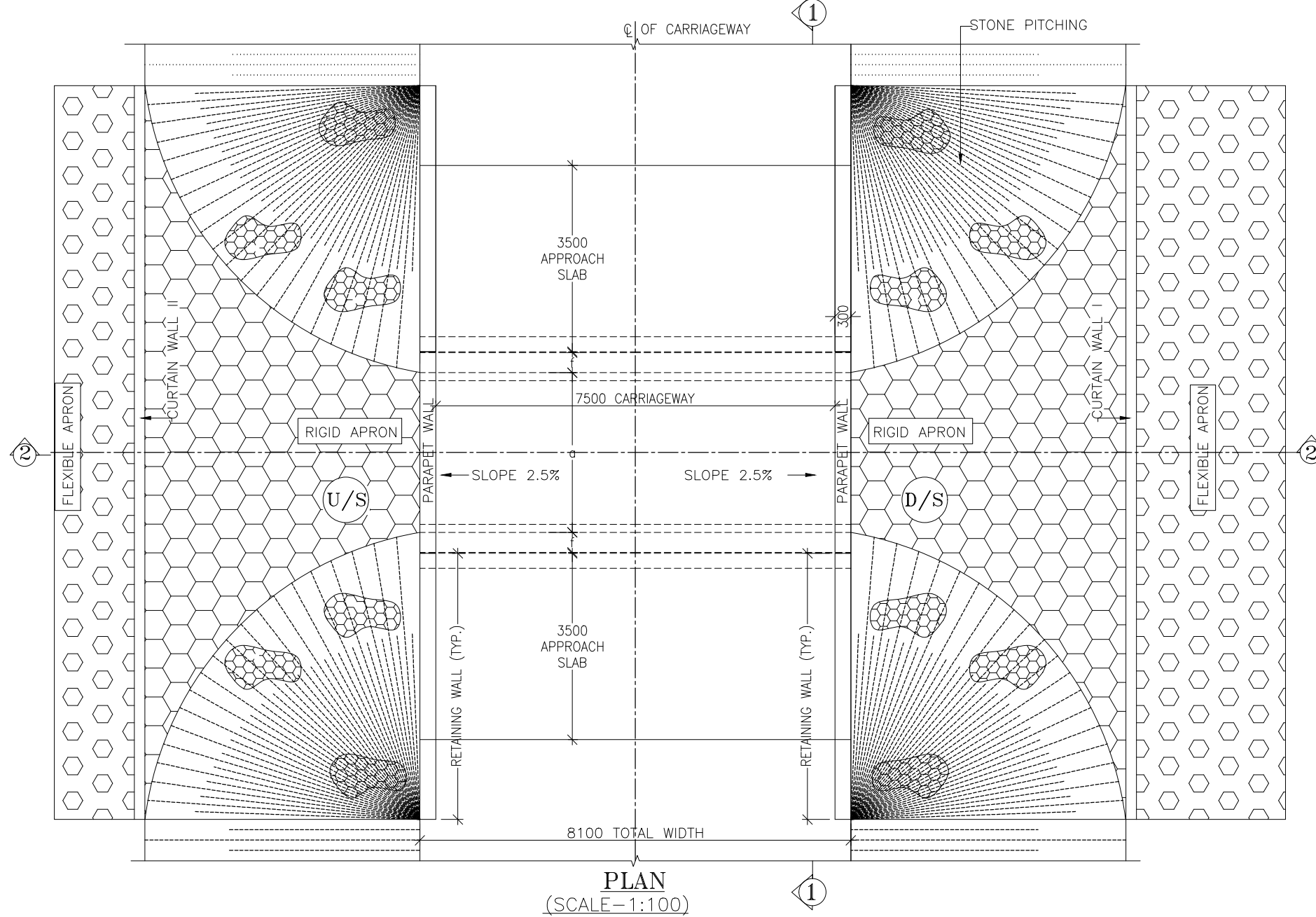
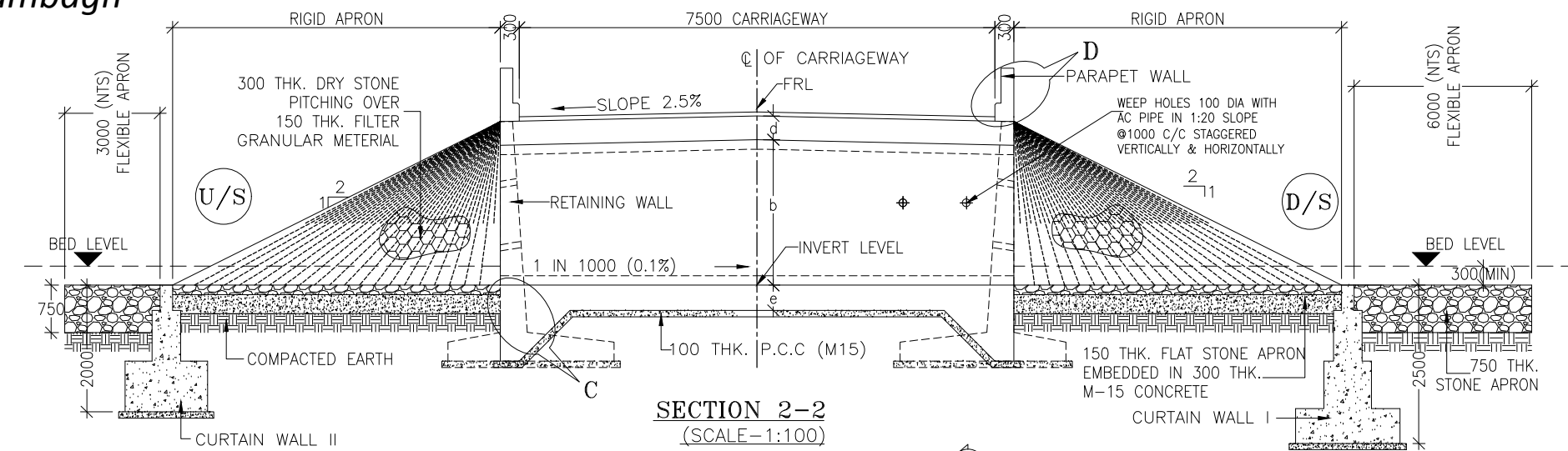


TABLE SHOWING SILENT DIMENSIONS


BOX CELL DESIGNATION	a (mm)	b (mm)	d (mm)	e (mm)	f (mm)
1/22/0	2000	2000	350	380	350
1/33/0	3000	3000	420	420	420

- NOTES:-**
- ALL DIMENSIONS ARE IN MILLIMETRES, LEVELS ARE IN METRES AND CHAINAGES ARE IN KILOMETRES, UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT ROAD PLAN AND PROFILE DRAWING.
 - THE STRUCTURE IS DESIGNED FOR LIVE LOAD COMBINATION OF 3 LANE CLASS A OR 1-LANE OF 70 R+1-LANE OF CLASS A, WHICHEVER PRODUCES SEVERE.
 - GRADE OF CONCRETE FOR VARIES ELEMENTS SHALL BE AS FOLLOWS:
a) RCC BOX.....M35
b) RCC RETAINING WALL.....M35
c) PCC LEVELLING COURSE.....M15
d) PCC CURTAIN WALL.....M20
e) PARAPET WALL.....M35
 - GRADE OF STEEL SHALL BE Fe-500 (H.Y.S.D. REBAR CONFORMING TO IS-1786)
 - BACK FILLING BEHIND THE STRUCTURE SHALL CONSIST OF SELECTED EARTH CONFORMING TO APPENDIX 6 OF IRC:78-2014 HAVING PROPERTIES $\phi < 30^\circ$, $C=0$, $\gamma = 2.0T/M^3$
 - COMPRESSIBLE FILLER BOARD SHALL BE PROVIDED IN ALL EXPANSION GAPS AND SEALED WITH POLY-SULPHIDE SEALANT.
 - FOUNDATION OF BOX SHALL BE PLACED OVER A FIRM STRATA HAVING BEARING CAPACITY EQUAL TO 12T/M² IN GENERAL. IF THE MATERIAL ENCOUNTERED IS SOFT, SPONZY OR OTHER UNSUITABLE SOIL, SUCH UNSUITABLE MATERIAL SHALL BE TOTALLY REMOVED TO SUCH DEPTH, WIDTH & LENGTH, AS DIRECTED BY THE ENGINEER. THE EXCAVATED AREA SHALL BE BACKFILLED WITH APPROVED GRANULAR MATERIAL & THOROUGHLY COMPACTED UP TO THE SPECIFIED LEVEL.
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 - SPRADING & COMPACTED OF SAND WILL BE DONE IN ACCORDANCE WITH CLAUSE 401.3.2 OF SPECIFICATION FOR ROAD & BRIDGE WORKS BY MINISTRY OF ROAD TRANSPORT & HIGHWAY

CLIENT :

Jhelum Tawi Flood Recovery Project
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Srinagar-190 009.

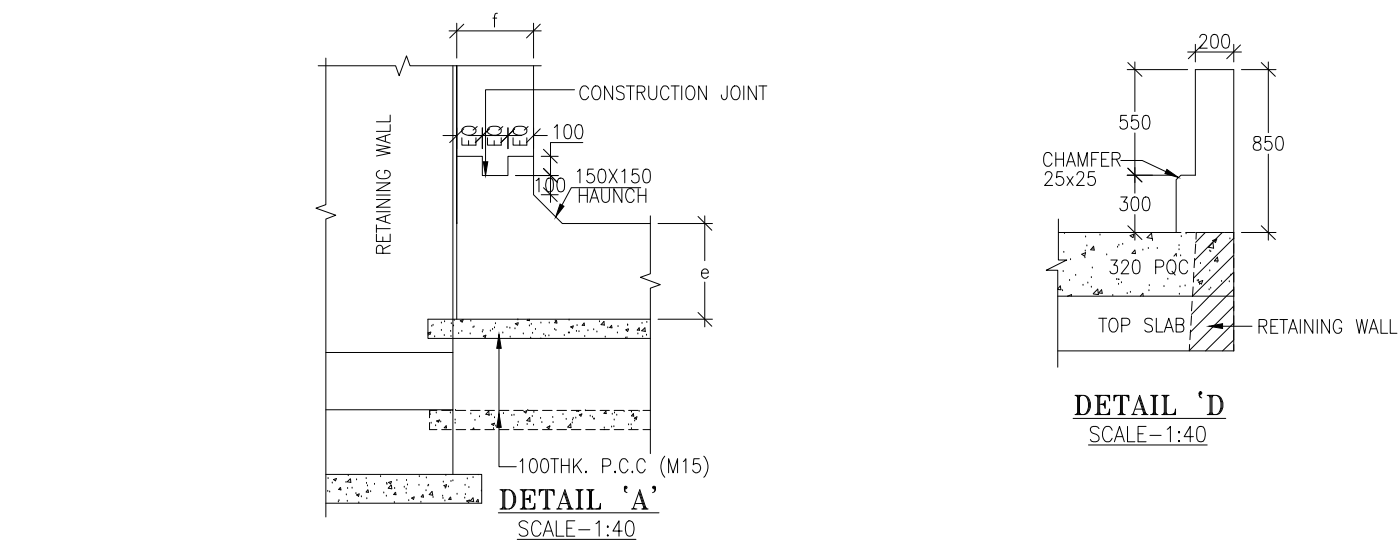
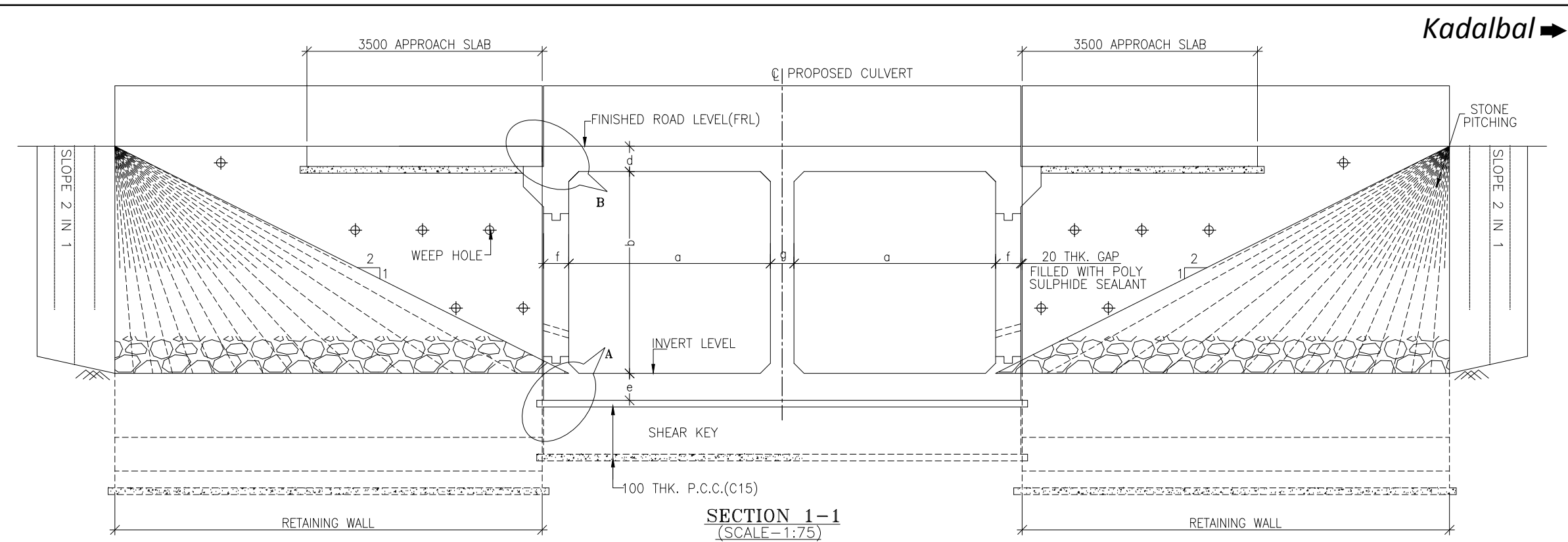
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DRAWN BY :	PD
DESIGNED BY :	SD
APPROVED BY :	KG
SCALE :	AS SHOWN

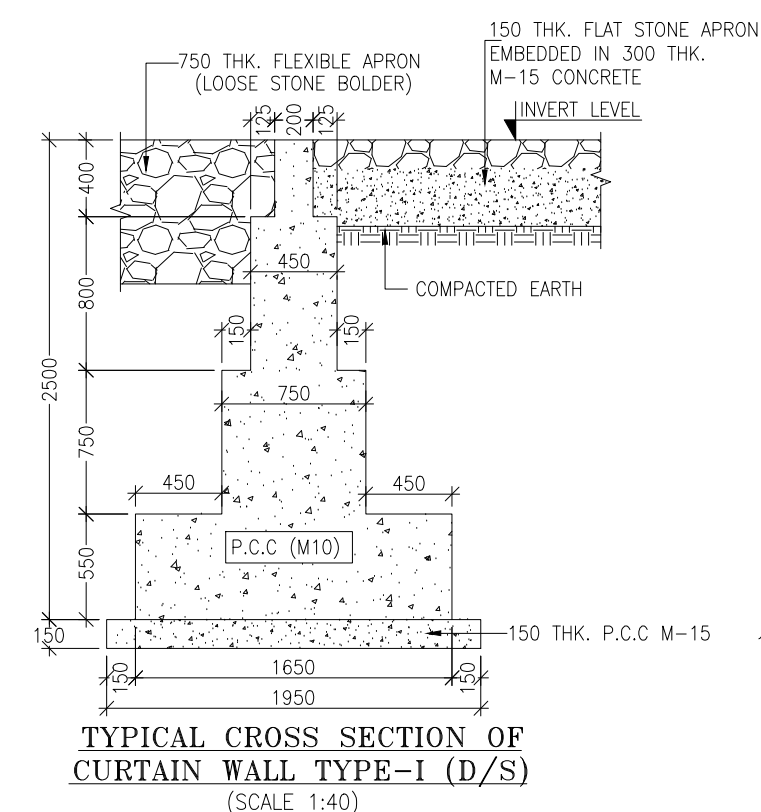
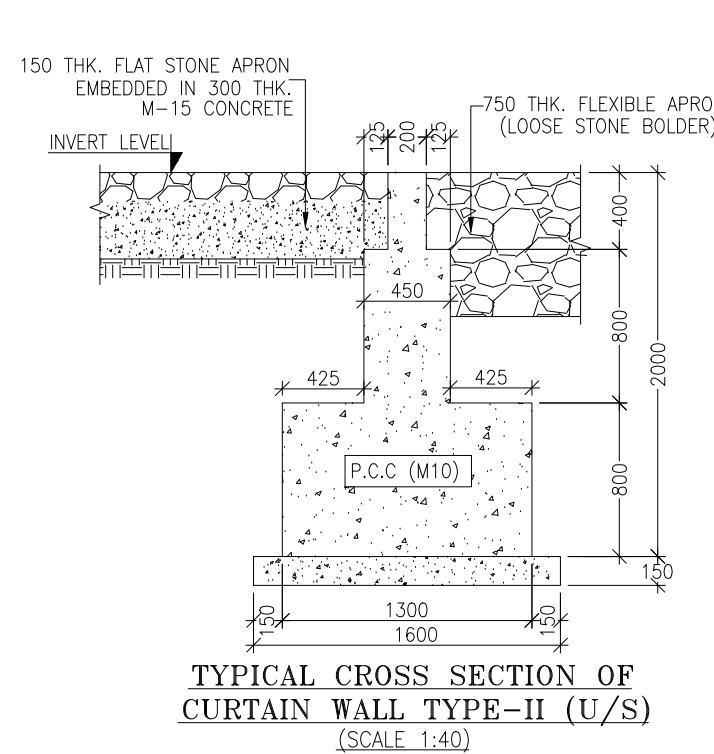
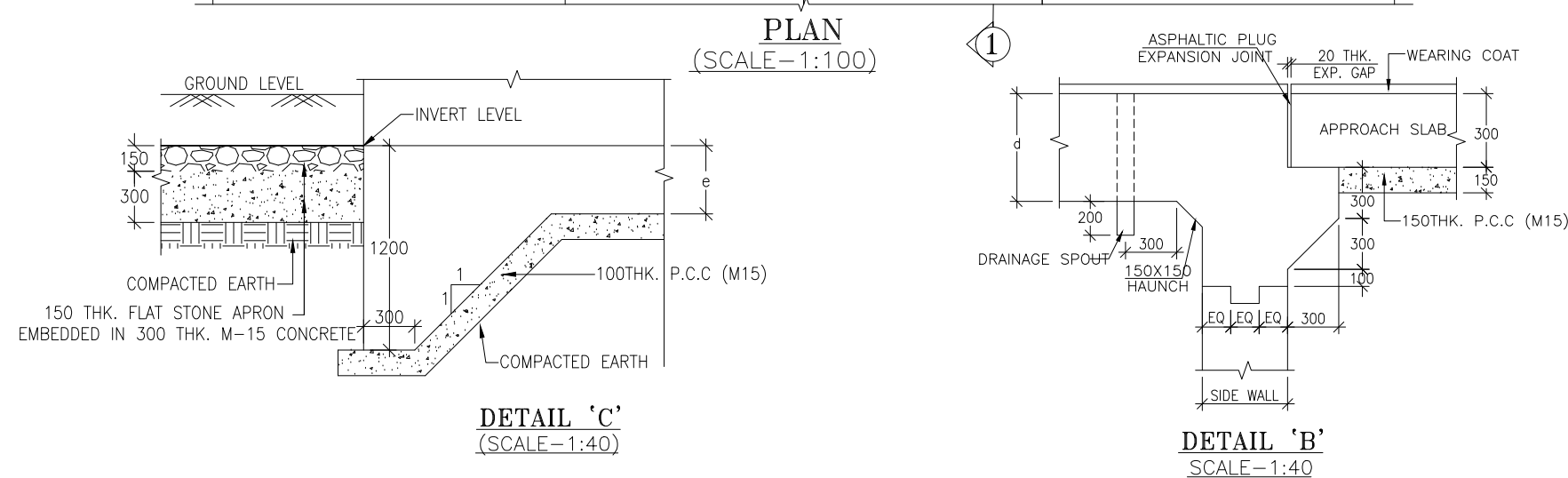
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DRG. NO. :	EPTISA/JTRP/DPR/J&K/BOX/GAD/01
REVISION : R-1	August 2019

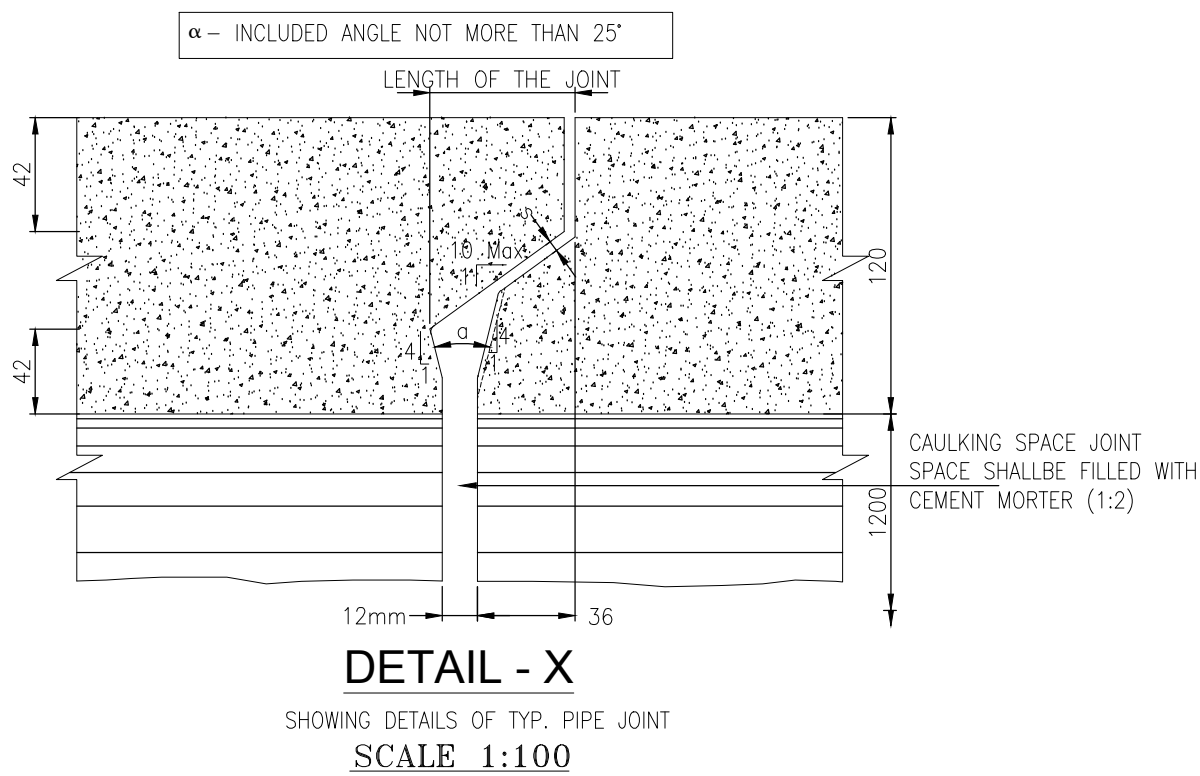
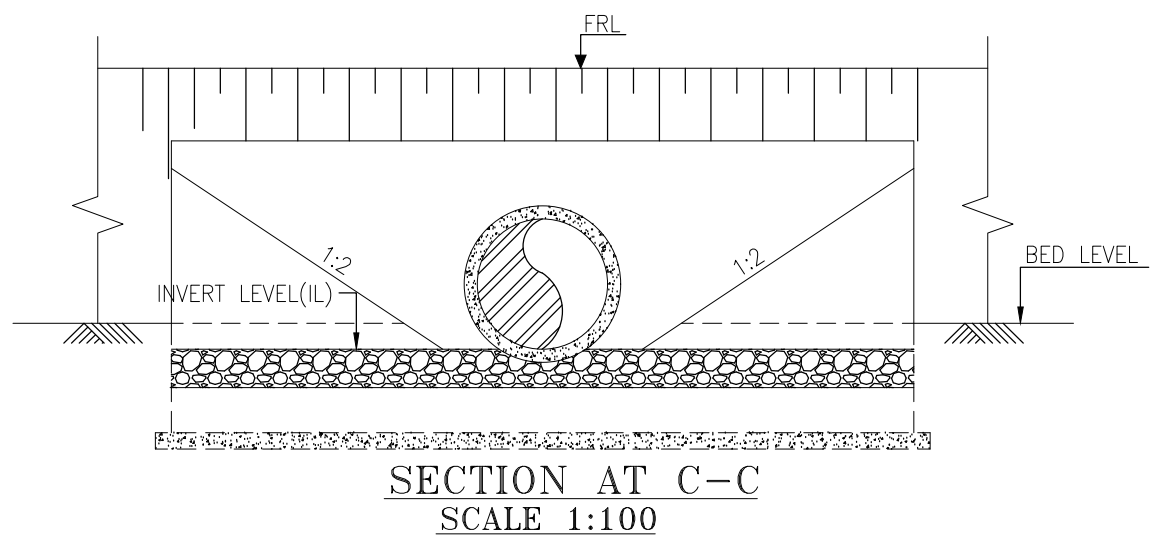
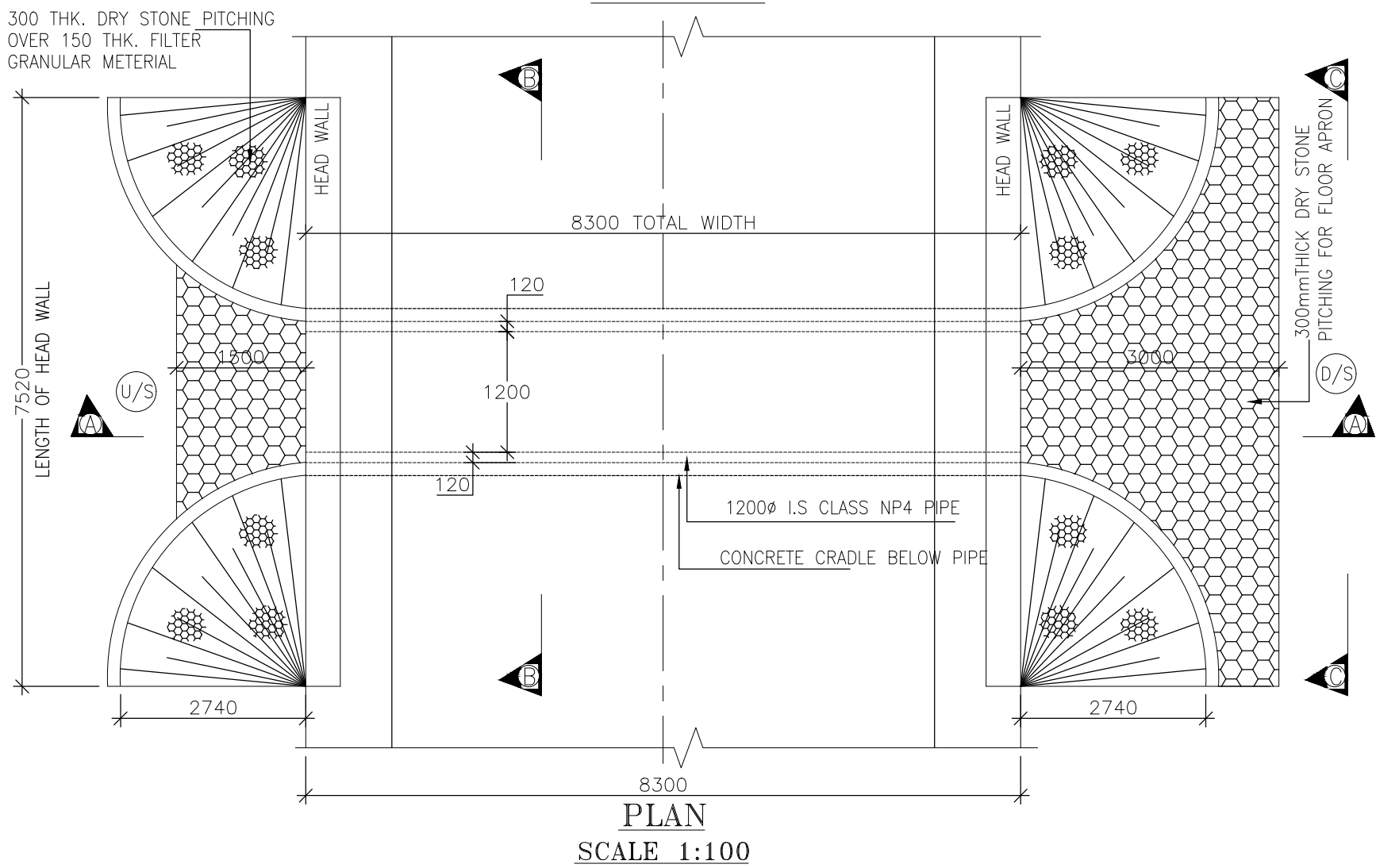
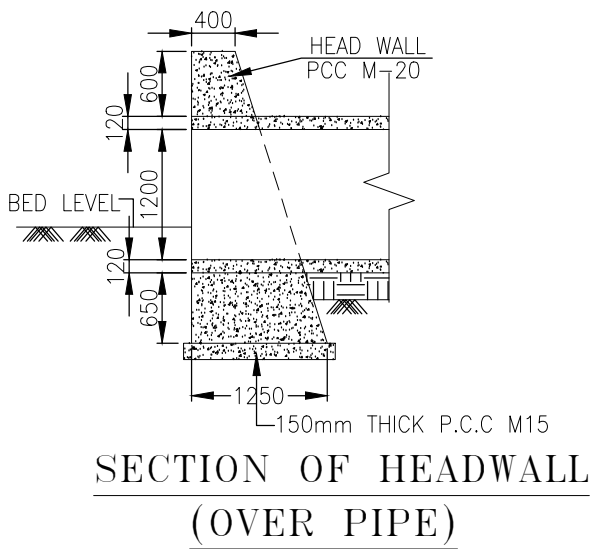
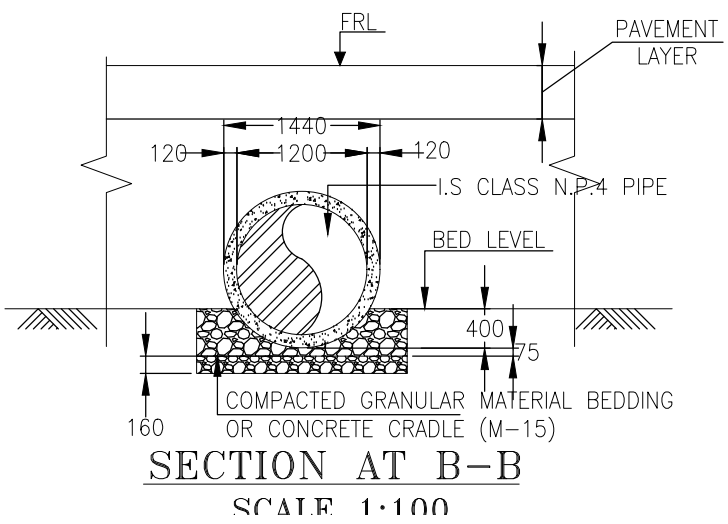
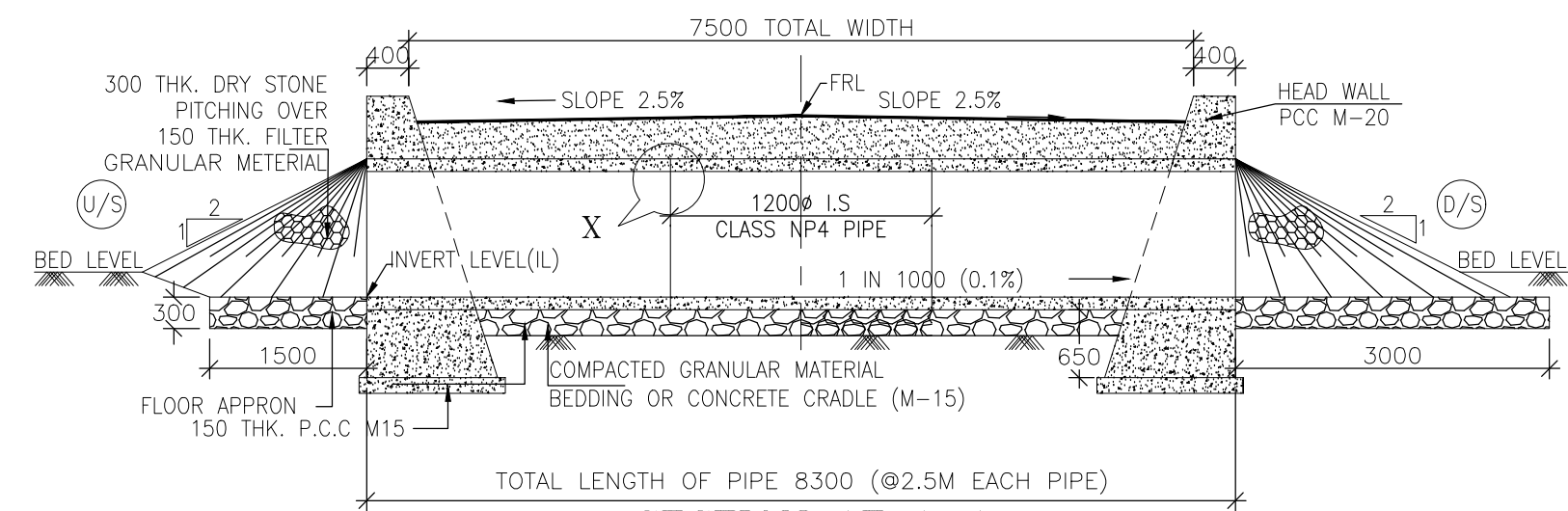


BOX CELL DESIGNATION	a (mm)	b (mm)	d (mm)	e (mm)	f (mm)	g (mm)
2/33/0	3000	3000	470	450	420	350

NOTES:-

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NOTES:-

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2. NO DIMENSION SHALL BE SCALED ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ROAD DRAWINGS. FRL & CAMBER / SUPER ELEVATION AT PARTICULAR LOCATION SHALL BE VERIFIED WITH THE HIGHWAY DWG. DISCREPANCY, IF ANY, IS TO BE IMMEDIATELY BROUGHT TO THE NOTICE OF ENGINEER FOR NECESSARY MODIFICATION IN THE DRAWING.
4. HUME PIPE (NP4 TYPE), SHALL CONFORM TO IS : 458-2003.
5. COMPACTED GRANULAR BED SHALL CONFORM TO MORT&H SPECIFICATION CLAUSE NO.2904.
6. LONGITUDINAL SLOPE OF WIDENED PIPE SHALL BE 1 : 1000 (MIN.)
7. LENGTH, LOCATION, ORIENTATION & INVERT LEVEL OF PIPE CULVERT SHALL BE ADJUSTED TO SUIT SITE CONDITION AND AS APPROVED BY THE ENGINEER.
8. TRENCHES SHALL BE BACKFILLED IMMEDIATELY AFTER THE PIPES HAVE BEEN LAID AND THE JOINTING MATERIAL HAS HARDENED.
9. PIPE SHALL BE JOINTED BY FLUSH JOINT METHOD AS PER THE DETAILS GIVEN IN SECTION 2906 OF MORT&H SPECIFICATIONS OF ROAD & BRIDGE WORKS.
10. FLOOR APRON SHALL BE PROVIDED AT NON-IRRIGATION CROSS DRAINAGE WORKS ONLY.

CLIENT :



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REV.	DATE	DESCRIPTION

DRAWN BY :	PD
DESIGNED BY :	SD
APPROVED BY :	KG
SCALE :	AS SHOWN

TITLE :
**TYPICAL GENERAL ARRANGEMENT
DRAWING FOR SINGLE CELL PIPE
CULVERT**

DRG. NO. : EPTISA/JTRP/DPR/J&K/PIPE/GAD/01

REVISION : R-1

August 2019