

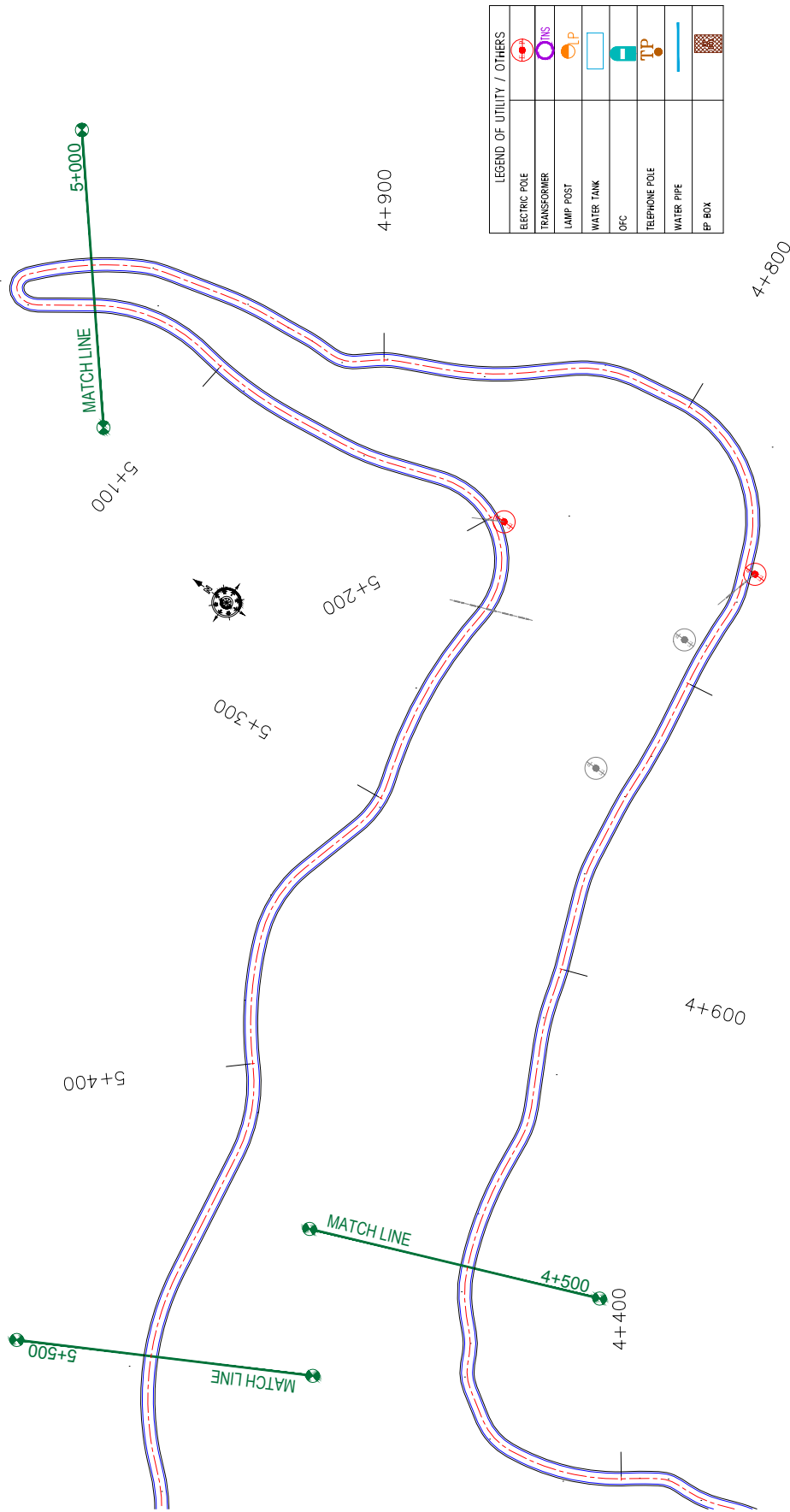


ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	0	0
TRANSFORMER (TNS)	00	00
LAMP POST (LP)	00	00
IP BOX	00	0

LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OPC	
TELEPHONE POLE	
WATER PIPE	
IP BOX	


<p>CLIENT:</p> <p>Jhelum Talvi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.</p>	<p>PROJECT:</p> <p>Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)</p>	<p>DESIGN CONSULTANT:</p> <p>epitisa 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.epitisa.com</p>	<p>TITLE: Utility Relocation Plan (For Electricity Department) (Ch. 4+000 to Ch. 4+500)</p> <p>DRAWN BY: SD</p> <p>DESIGNED BY: SCK/MM</p> <p>APPROVED BY: KG</p> <p>SCALE: 1:1000</p> <p>REVISION: R-1</p>						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REV	DATE	DESCRIPTION				<p>DRG. NO.: EPTISAJTRPPDRJ8KURP/07</p> <p>REVISION: R-1</p> <p style="text-align: right;">September 2019</p>	
REV	DATE	DESCRIPTION							

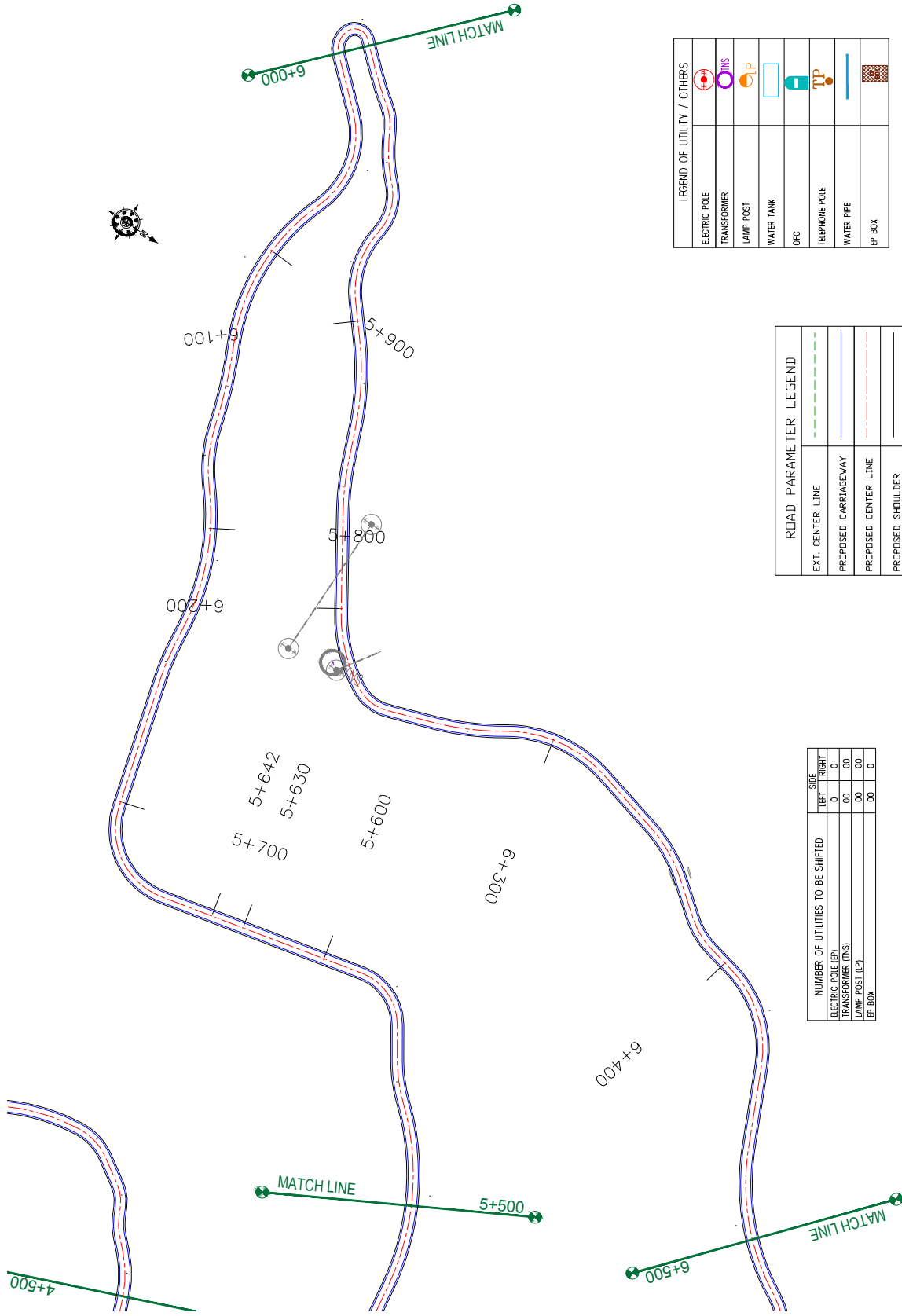


LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

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)	1	1
TRANSFORMER (TNS)	00	00
LAMP POST (LP)	00	00
EP BOX	00	0

<p>CLIENT:</p>  <p>Jhelum Talavi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.</p>	<p>PROJECT:</p> <p>Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)</p>	<p>DESIGN CONSULTANT:</p> <p>epitisa <i>servicios de ingenieria s.l.</i> 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.epitisa.com</p>	<p>TITLE: Utility Relocation Plan (For Electricity Department) (Ch. 4+500 to Ch. 5+500)</p> <p>DRAWN BY: SD</p> <p>DESIGNED BY: SCK/MM</p> <p>APPROVED BY: KG</p> <p>SCALE: 1:1000</p> <p>REVISION: R-1</p>						
<p>REV:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV	DATE	DESCRIPTION				<p>DRG. NO.: EPTISAJTRPDRPJ8KURP/08</p> <p>SEPTEMBER 2019</p>		
REV	DATE	DESCRIPTION							




NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	0	0
TRANSFORMER (TNS)	00	00
LAMP POST (LP)	00	00
EP BOX	00	0

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

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

CLIENT:



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

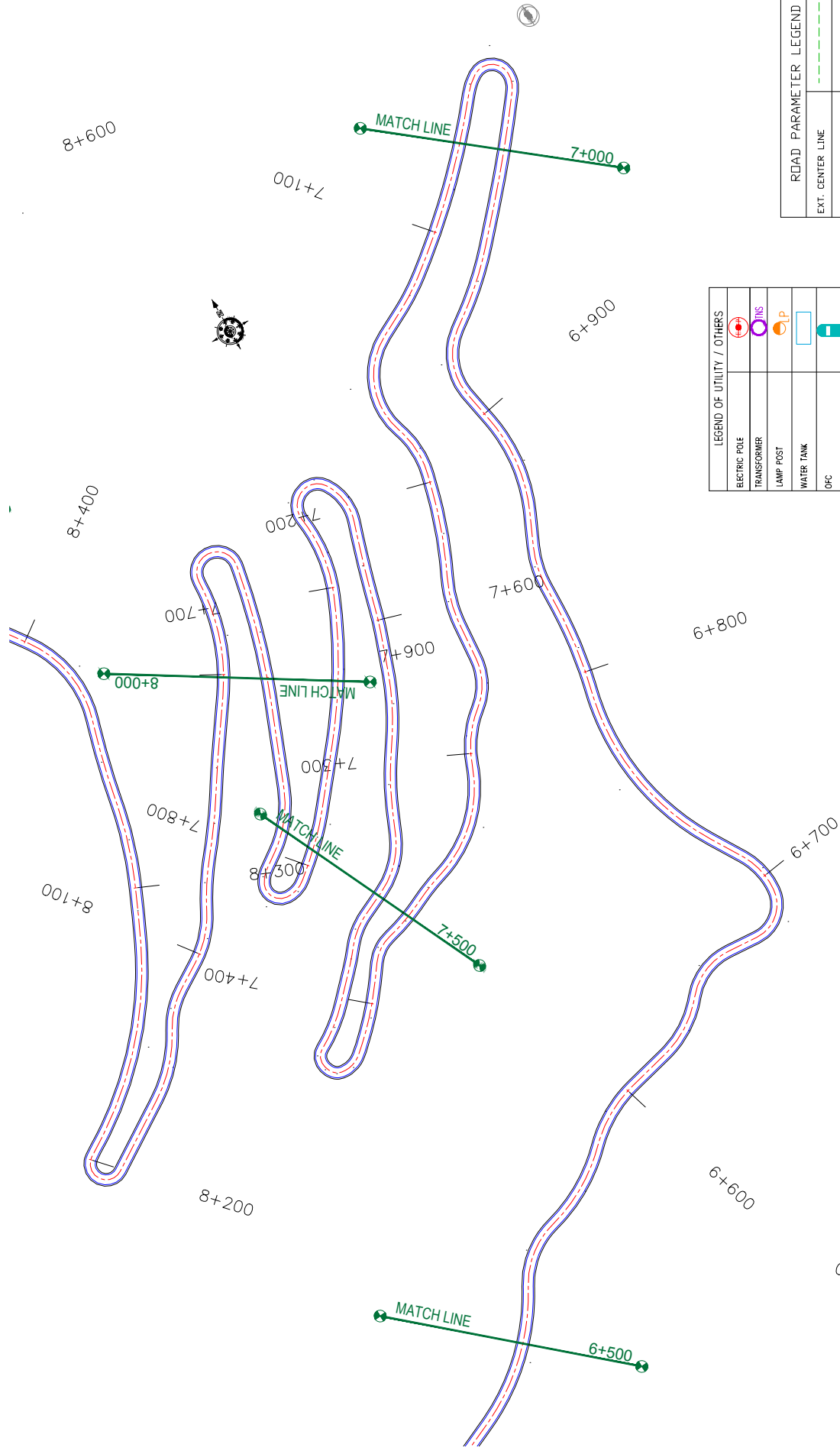
PROJECT:

Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir
(Malaini to Chakrabatti Road in Doda District)

DESIGN CONSULTANT:

epitisa *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.epitisa.com

DRAWN BY:	SD	TITLE:	Utility Relocation Plan (For Electricity Department) (Ch. 5+500 to Ch. 6+500)
DESIGNED BY:	SCK/MM	DRG. NO.:	EPTISAJTRPPDRJ8KURP/09
APPROVED BY:	KG	SCALE:	1:1000
REV.	DATE	DESCRIPTION	REVISION: R-1




NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	00	00
TRANSFORMER (TNS)	00	00
LAMP POST (LP)	00	00
EP BOX	00	00

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	

CLIENT:




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 works in Jammu and Kashmir
(Malaini to Chakrabatti Road in Doda District)

DESIGN CONSULTANT:



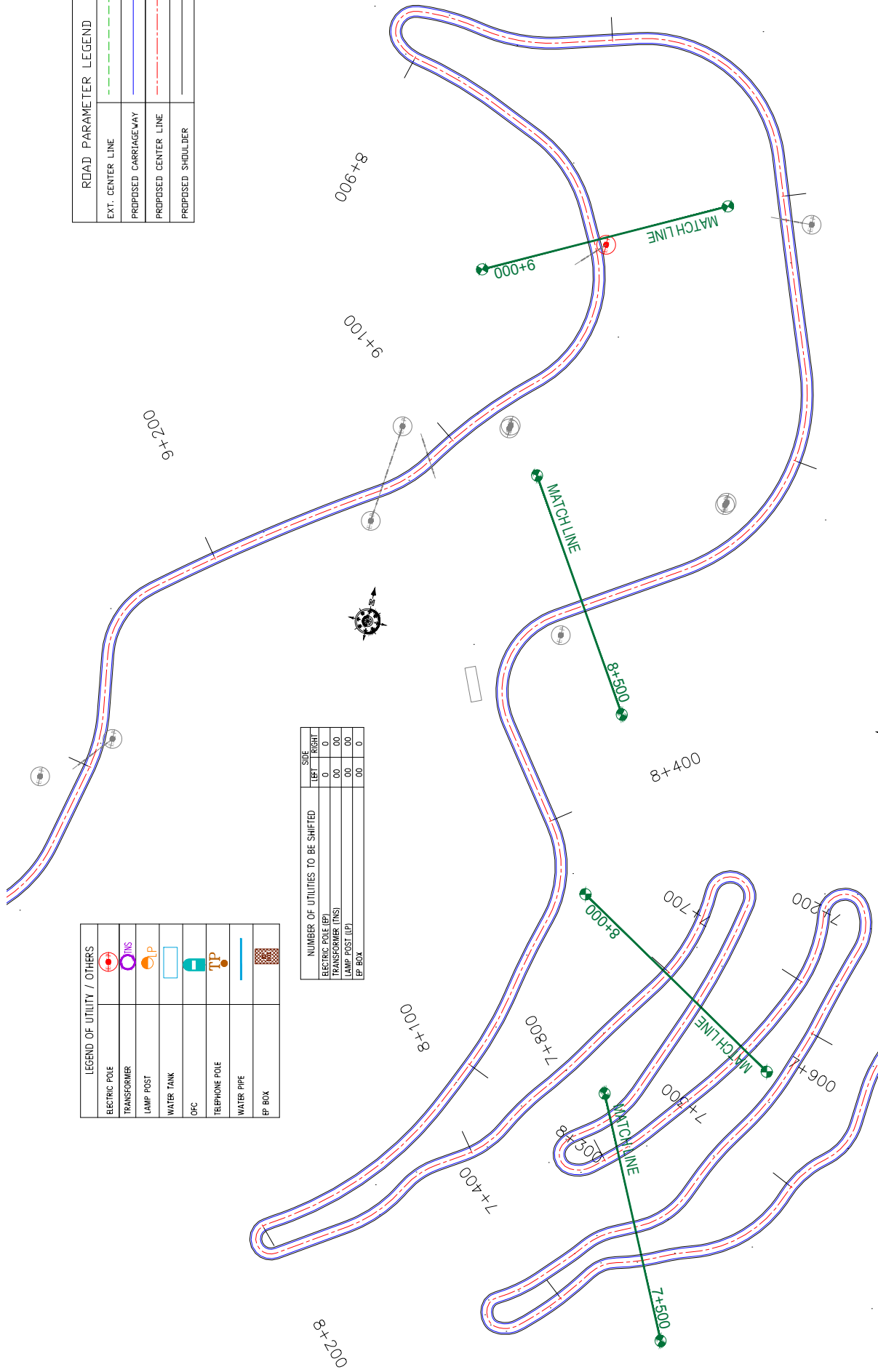
servicios de Ingenieria S.L.
 Unit 1203, 12th Floor, Tower 1, PS Srijan
 Corporate Park, Plot No. 2, Block EP & GP,
 Sector V, Salt Lake Kolkata - 700091,
 West Bengal
 Ph: 033-40347200
 www.eptisa.com

DRAWN BY:	SD	TITLE:	Utility Relocation Plan (For Electricity Department)
DESIGNED BY:	SCK/MM		(Ch. 6+500 to Ch. 8+000)
APPROVED BY:	KG	DRG. NO.:	EPTISAJTRPPDRJ8KURP/10
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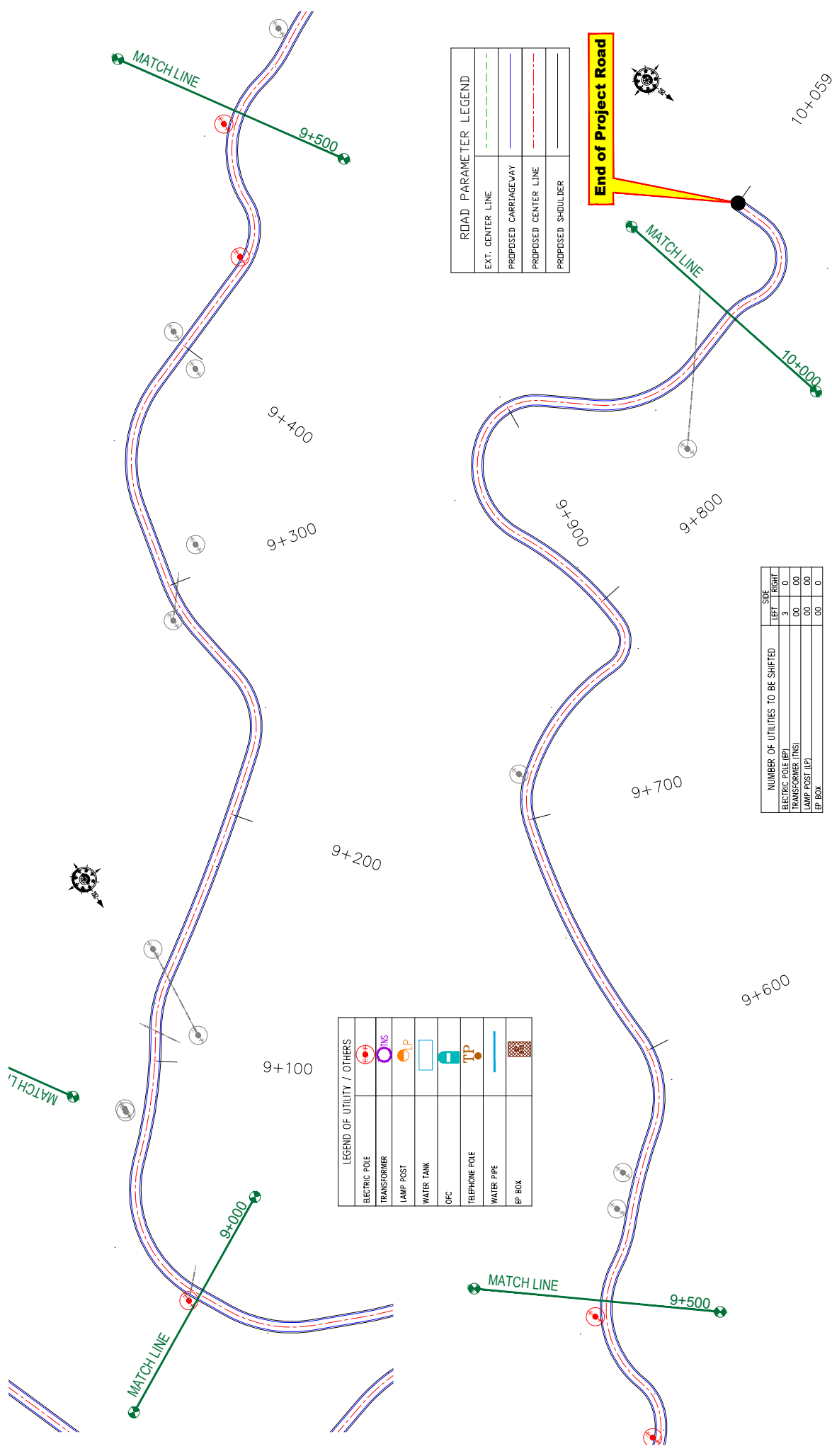
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ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OPC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

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

	NUMBER OF UTILITIES TO BE SHIFTED	
	LEFT	RIGHT
ELECTRIC POLE (EP)	0	0
TRANSFORMER (TNS)	00	00
LAMP POST (LP)	00	00
EP BOX	00	0



CLIENT: Jhelum Talvi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.	PROJECT: Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)	DESIGN CONSULTANT: 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		TITLE: Utility Relocation Plan (For Electricity Department) (Ch. 8+000 to Ch. 9+000)
		DRAWN BY: SD	DESIGNED BY: SCK/MM	APPROVED BY: KG
REV.	DATE	SCALE: 1:1000	REVISION: R-1	
DESCRIPTION	DATE	SCALE: 1:1000	REVISION: R-1	



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	

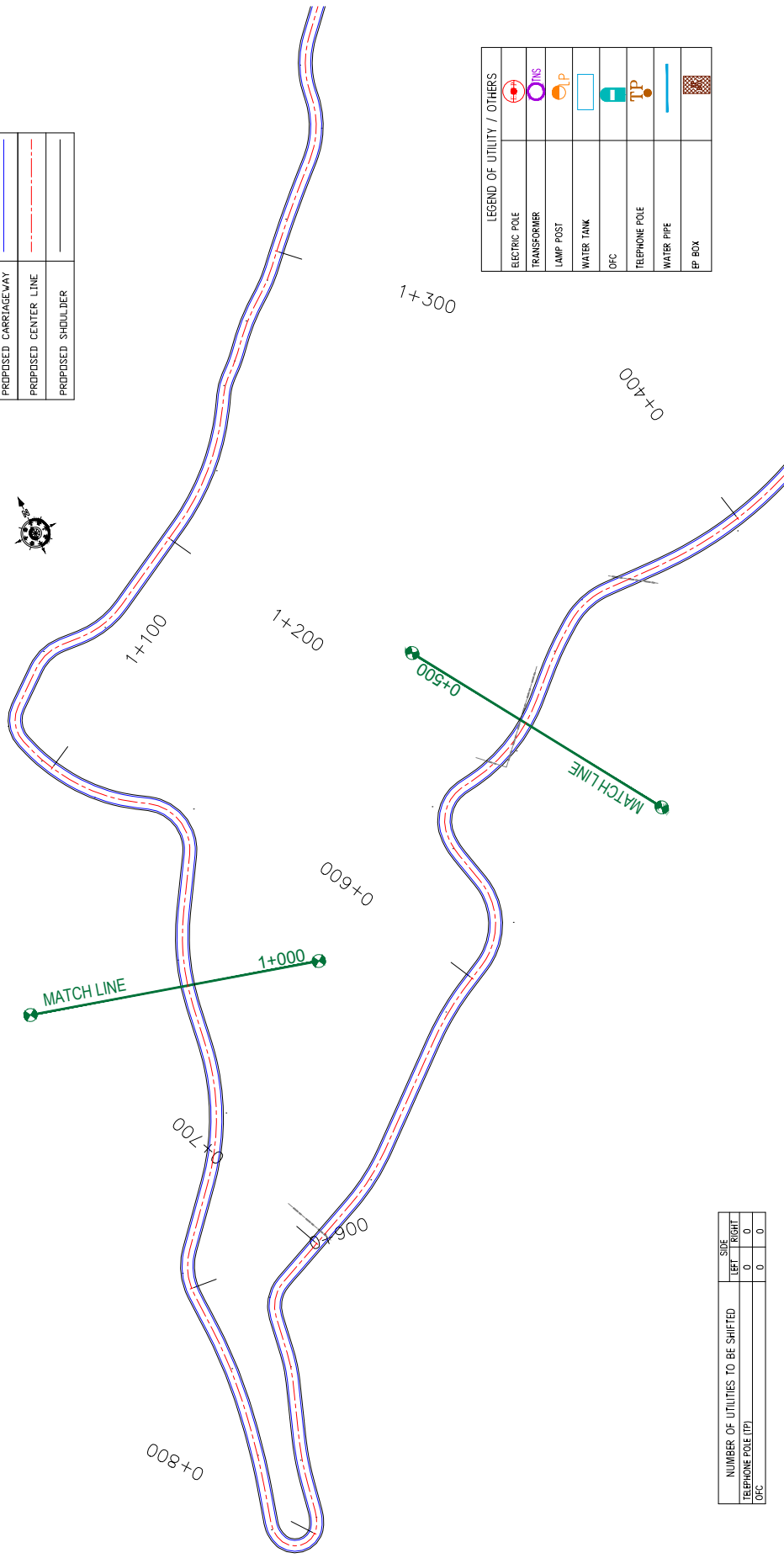
NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	3	0
TRANSFORMER (TNS)	00	00
LAMP POST (LP)	00	00
EP BOX	00	0

End of Project Road

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 works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)		
			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	
		DRAWN BY:	SD	TITLE:	Utility Relocation Plan (For Electricity Department) (Ch. 9+000 to Ch. 10+059)
		DESIGNED BY:	SCK/MM	APPROVED BY:	KG
		SCALE:	1:1000	REVISION:	R-1
		DATE		DESCRIPTION	
		REV			
					September 2019


UTILITY RELOCATION PLAN FOR MAIN ROAD (TELEPHONE DEPARTMENT)

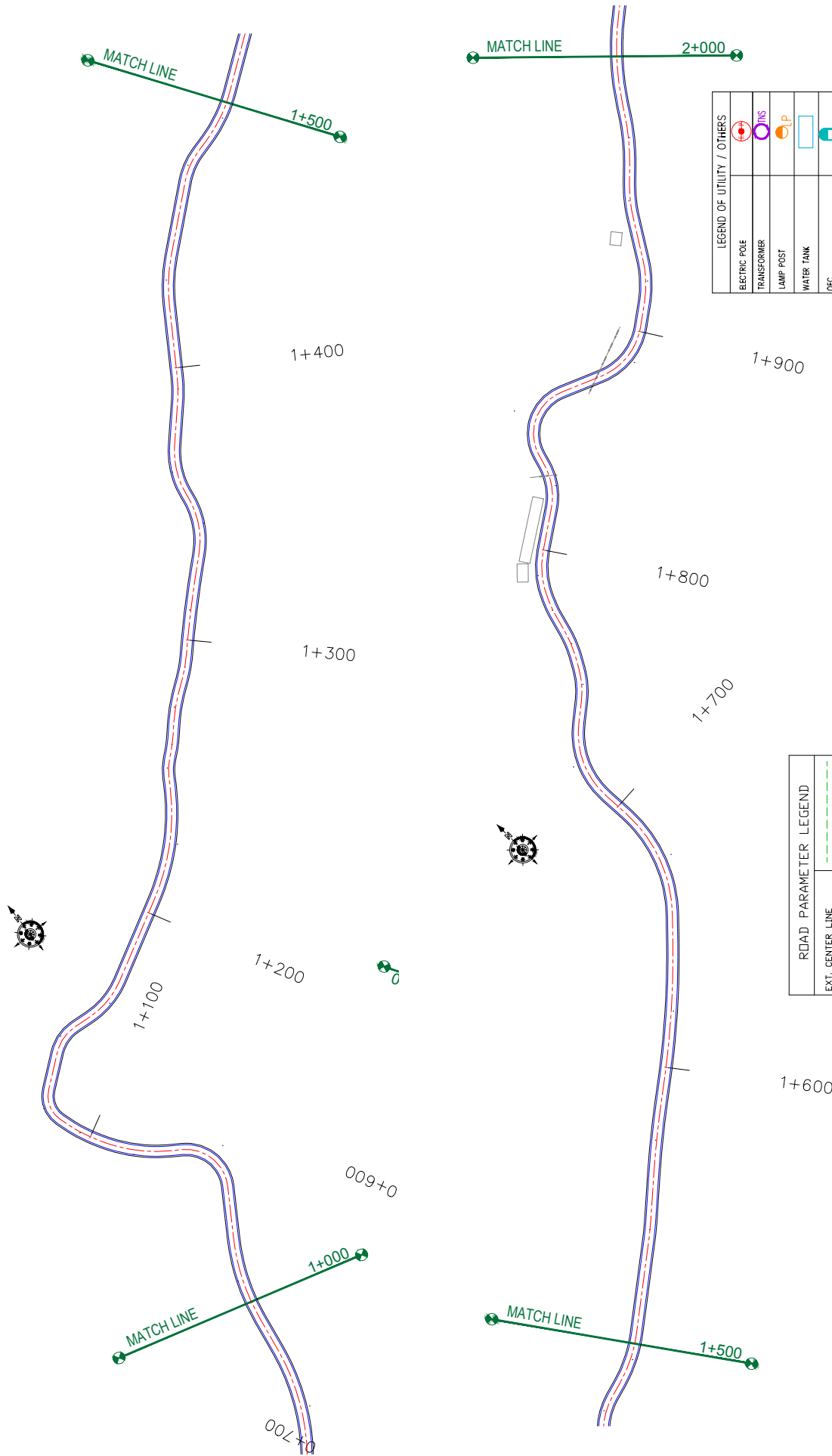
ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	—
PROPOSED CENTER LINE	- - -
PROPOSED SHOULDER	—



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)	0	0
OFC	0	0

<p>CLIENT:</p>  <p>Jhelum Talavi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.</p>	<p>PROJECT:</p> <p>Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)</p>	<p>DESIGN CONSULTANT:</p> <p>epitisa 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.epitisa.com</p>	<p>TITLE: Utility Relocation Plan (For Telephone Department) (Ch. 0+500 to Ch. 1+000)</p> <p>DRAWN BY: SD</p> <p>DESIGNED BY: SCK/MM</p> <p>APPROVED BY: KG</p> <p>SCALE: 1:1000</p> <p>REVISION: R-1</p>									
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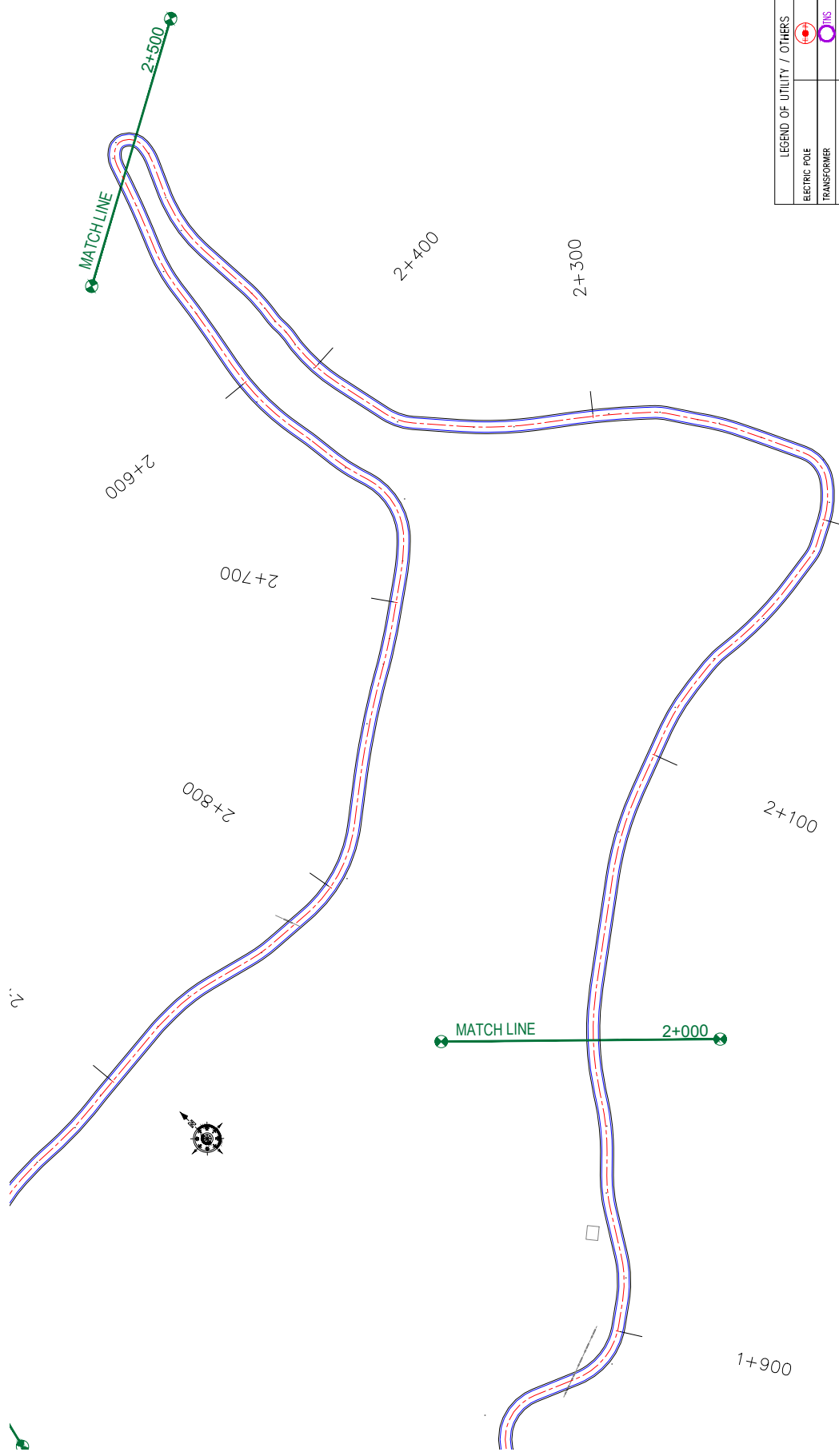


NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
TELEPHONE POLE (TP)	0	0
OFC	0	0

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	
IP BOX	

<p>CLIENT:</p> <p>Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.</p>	<p>PROJECT:</p> <p>Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)</p>	<p>DESIGN CONSULTANT:</p> <p>epi <i>servicios de Ingenieria S.L.</i> 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.epiisa.com</p>	<p>TITLE: Utility Relocation Plan (For Telephone Department) (Ch. 1+000 to Ch. 2+000)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DRAWN BY: SD</td> <td>SCALE: 1:1000</td> </tr> <tr> <td>DESIGNED BY: SCK/MM</td> <td>REVISION: R-1</td> </tr> <tr> <td>APPROVED BY: KG</td> <td>DATE:</td> </tr> <tr> <td>DRG. NO.: EPTISAJTRFRPDRJ8KURP/03</td> <td>DESCRIPTION:</td> </tr> </table>	DRAWN BY: SD	SCALE: 1:1000	DESIGNED BY: SCK/MM	REVISION: R-1	APPROVED BY: KG	DATE:	DRG. NO.: EPTISAJTRFRPDRJ8KURP/03	DESCRIPTION:
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DESIGNED BY: SCK/MM	REVISION: R-1										
APPROVED BY: KG	DATE:										
DRG. NO.: EPTISAJTRFRPDRJ8KURP/03	DESCRIPTION:										

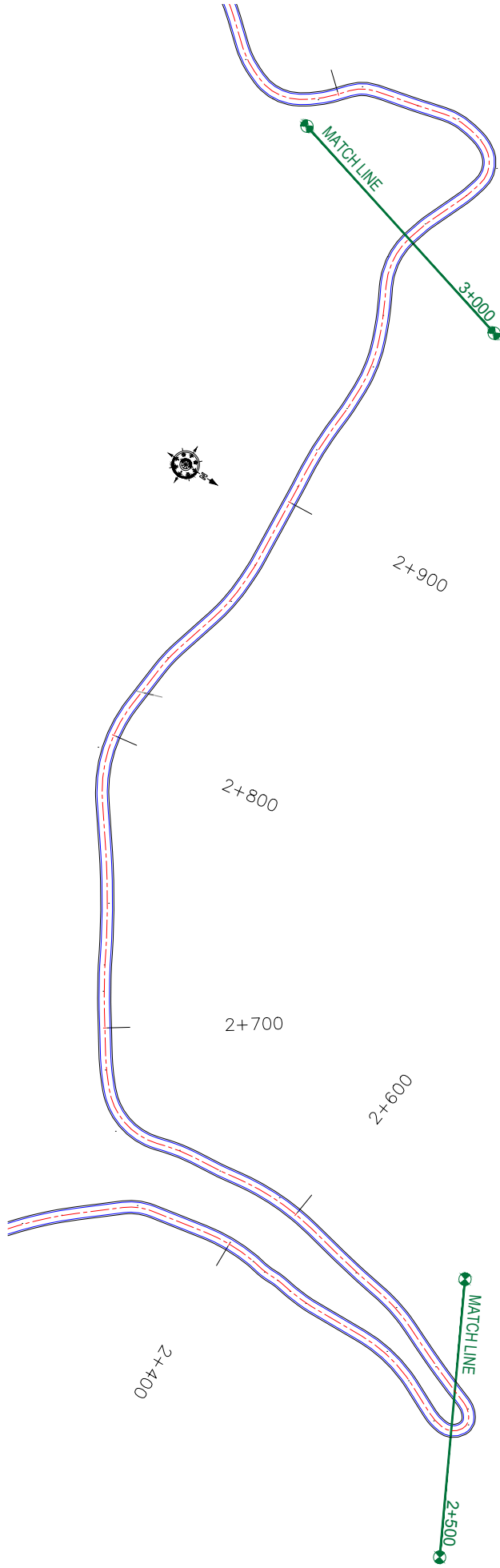


NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
TELEPHONE POLE (TP)	0	0
OFC	0	0

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	

<p>CLIENT :</p> <p>Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.</p>	<p>PROJECT :</p> <p>Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)</p>	<p>DESIGN CONSULTANT:</p> <p>epi <i>servicios de Ingenieria S.L.</i> 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.epiisa.com</p>	<p>TITLE : Utility Relocation Plan (For Telephone Department) (Ch. 2+000 to Ch. 2+500)</p>									
<p>DRAWN BY : SD</p> <p>DESIGNED BY : SCK/MM</p> <p>APPROVED BY : KG</p>		<p>SCALE : 1:1000</p> <p>REVISION : R-1</p>										
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REV	DATE	DESCRIPTION										




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

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	--- (dashed green line)
PROPOSED CARRIAGEWAY	--- (dashed blue line)
PROPOSED CENTER LINE	--- (dashed red line)
PROPOSED SHOULDER	--- (dashed black line)

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:

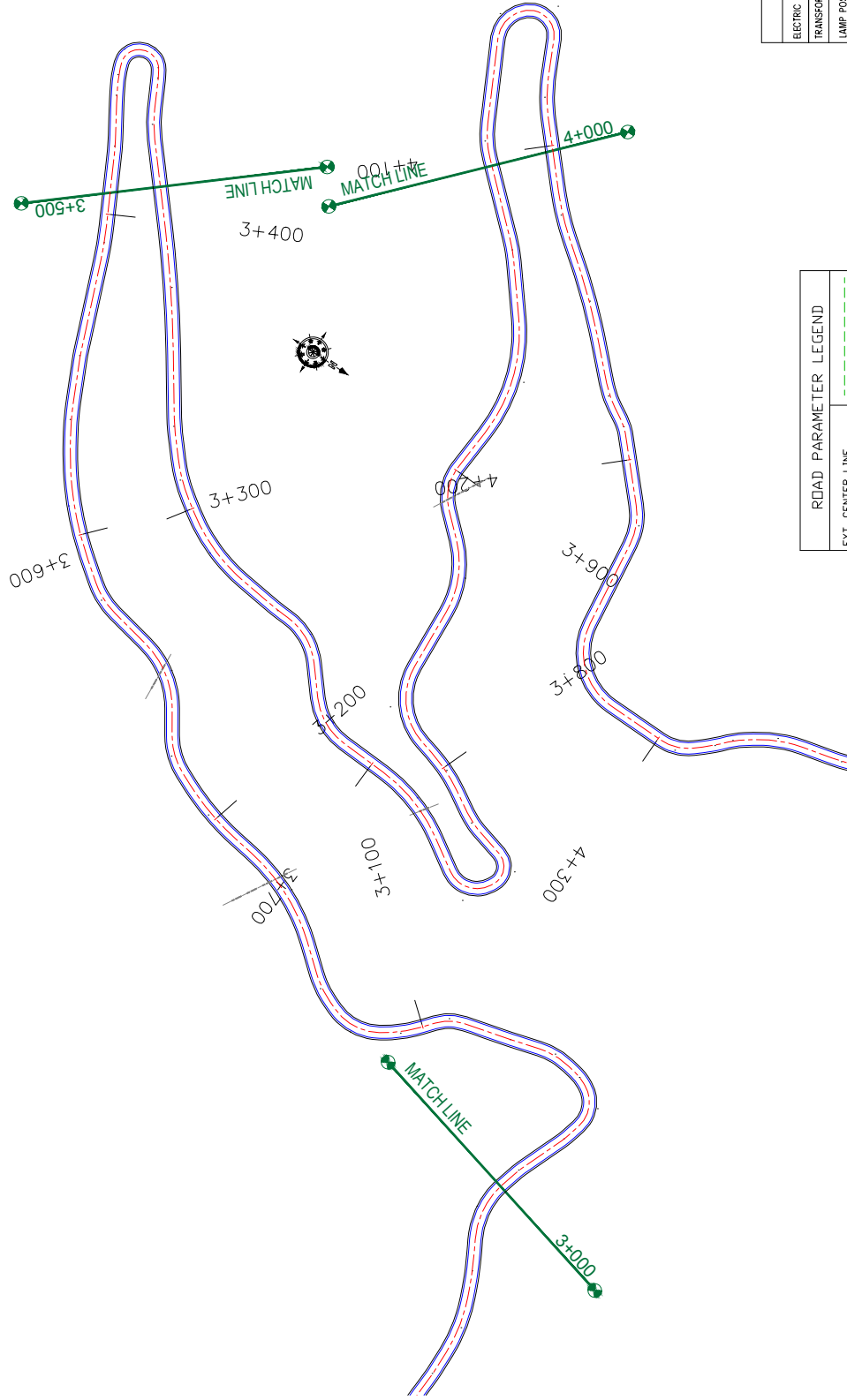
Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir
(Malaini to Chakrabatti Road in Doda District)

DESIGN CONSULTANT:



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	TITLE:
					Utility Relocation Plan (For Telephone Department) (Ch. 2+500 to Ch. 3+000)
			DESIGNED BY: SCK/MM		
			APPROVED BY: KG		
				SCALE: 1:1000	DRG. NO.: EPTISAJTRPDRJ8KURP/05
					REVISION: R-1
					September 2019



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

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	
FP BOX	

CLIENT:



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

PROJECT:

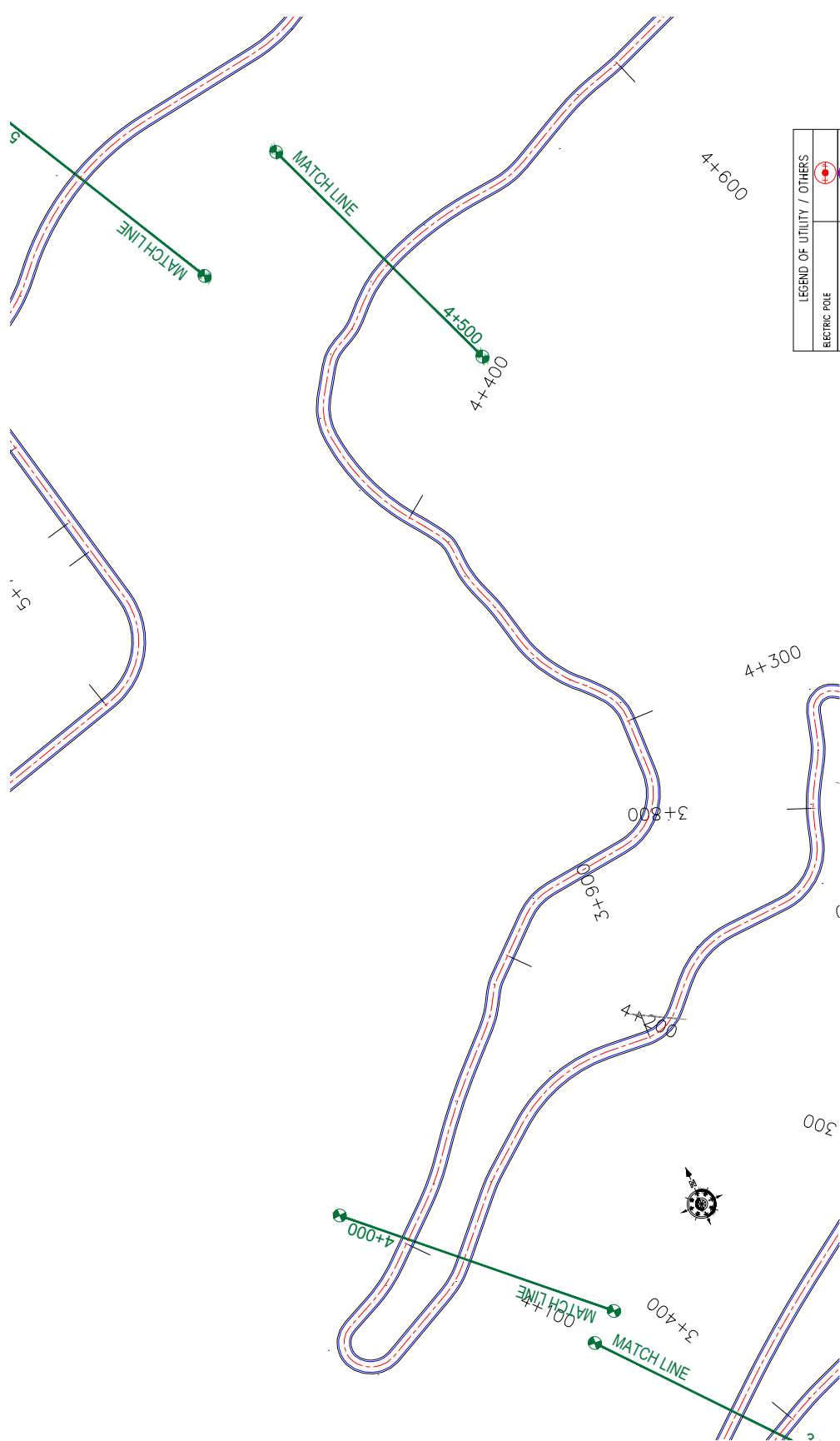
Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir
 (Malaini to Chakrabatti Road in Doda District)

DESIGN CONSULTANT:



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

DRAWN BY:	SD	TITLE:	Utility Relocation Plan (For Telephone Department) (Ch. 3+000 to Ch. 4+000)
DESIGNED BY:	SCK/MM	DRG. NO.:	EPTISAJTFRRPDRJUKURP/06
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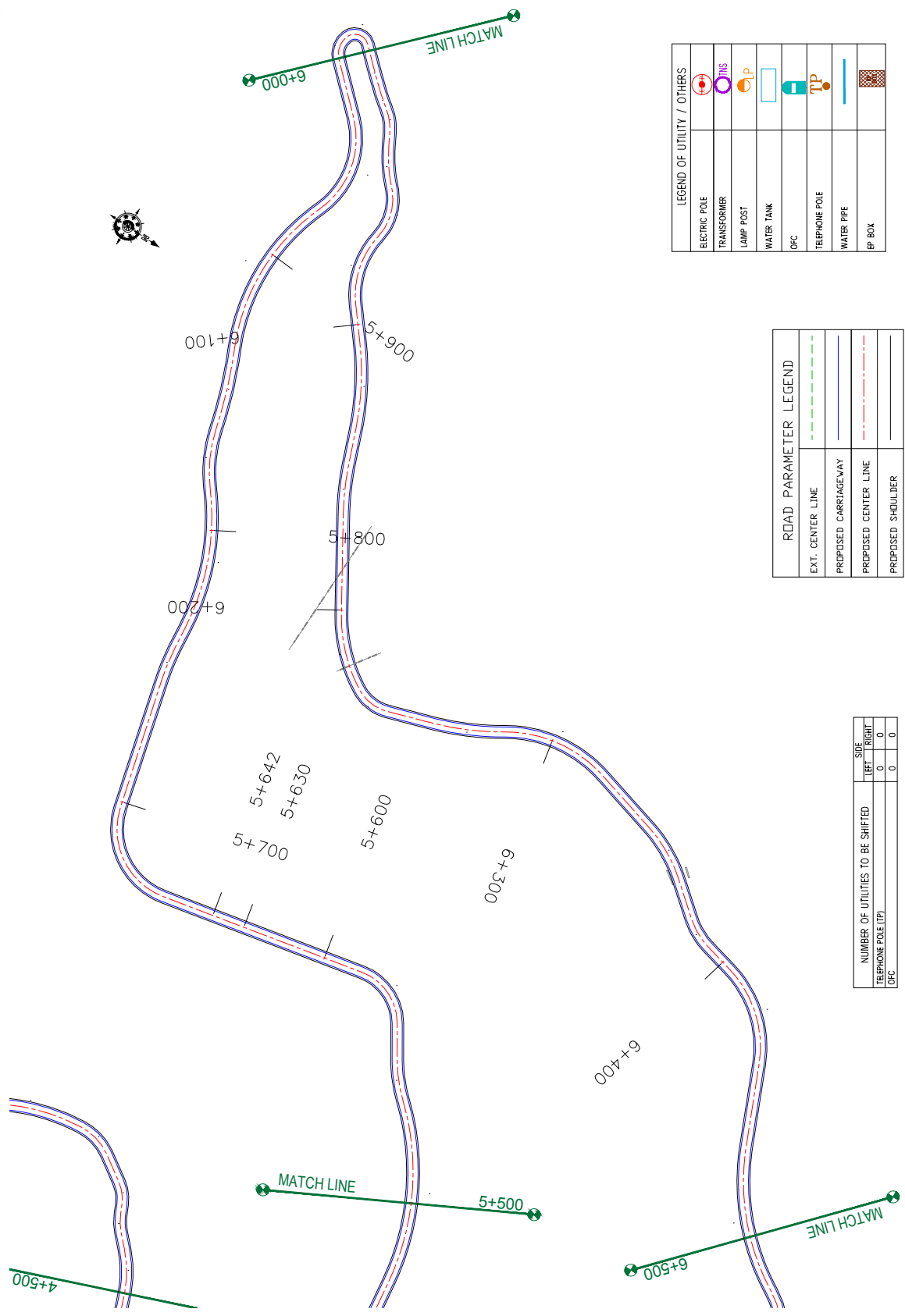


NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
TELEPHONE POLE (TP)	0	0
OPC	0	0

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

LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OPC	
TELEPHONE POLE	
WATER PIPE	
IP BOX	

<p>CLIENT:</p> <p>Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.</p>	<p>PROJECT:</p> <p>Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)</p>	<p>DESIGN CONSULTANT:</p> <p>epitisa 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.epitisa.com</p>	<p>TITLE: Utility Relocation Plan (For Telephone Department) (Ch. 4+000 to Ch. 4+500)</p> <p>DRAWN BY: SD</p> <p>DESIGNED BY: SCK/MM</p> <p>APPROVED BY: KG</p> <p>SCALE: 1:1000</p> <p>REVISION: R-1</p>						
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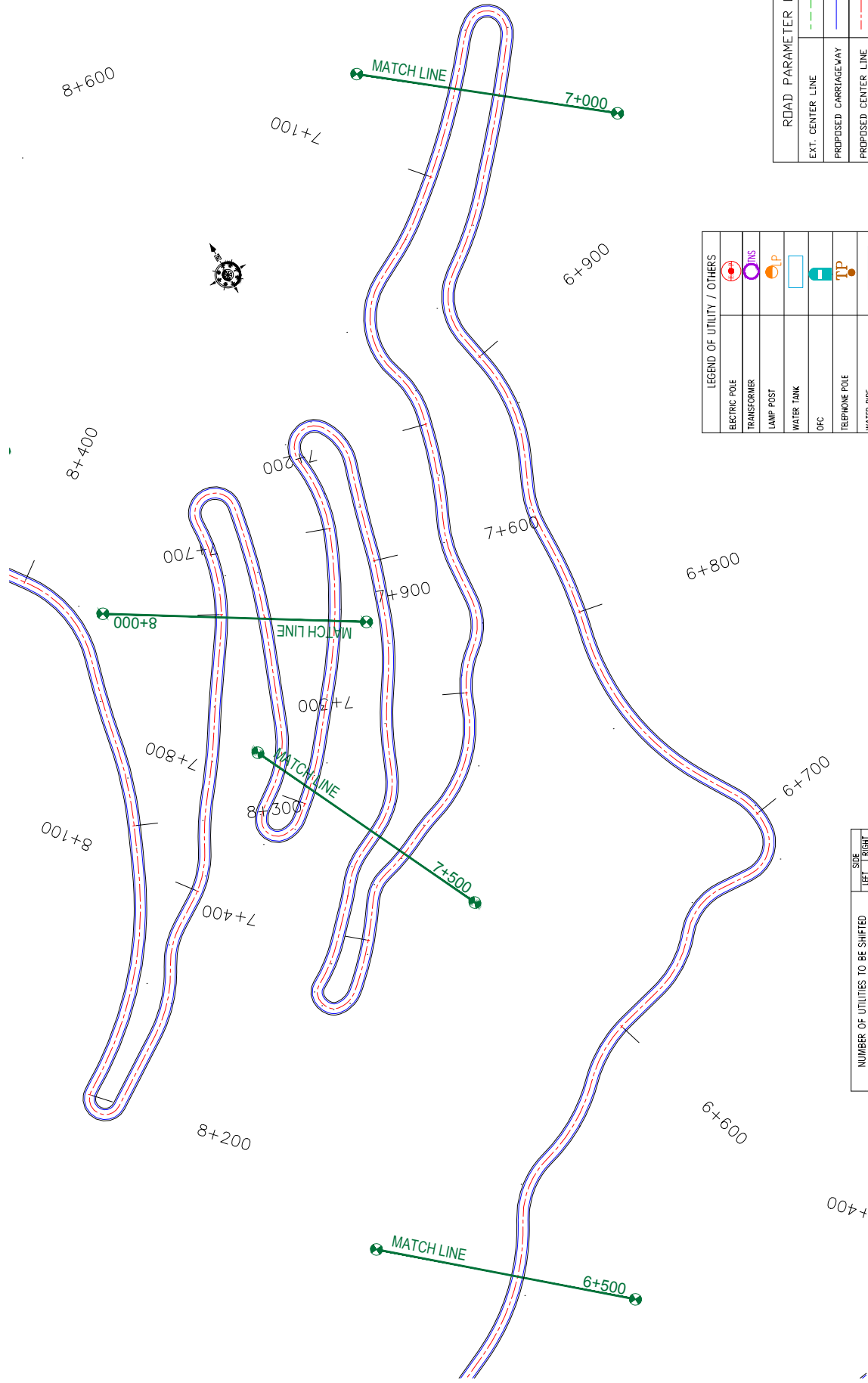


ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

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 Talavi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.	PROJECT:	Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)	
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DRAWN BY: SD		TITLE: Utility Relocation Plan (For Telephone Department) (Ch. 5+500 to Ch. 6+500)		
DESIGNED BY: SCK/MM		DRG. NO.: EPTISAJTRPDRJ8KURP/09	REVISION: R-1	
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REV	DATE	DESCRIPTION		



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	

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 works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)	DESIGN CONSULTANT: eptisa 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		TITLE: Utility Relocation Plan (For Telephone Department) (Ch. 6+500 to Ch. 8+000)	
		DRAWN BY: SD	DESIGNED BY: SCK/MM	APPROVED BY: KG	DRG. NO.: EPTISAJTRPPDRJ8KURP/10
		REV: DATE DESCRIPTION	SCALE: 1:1000	REVISION: R-1	(September 2019)

LEGEND OF UTILITY / OTHERS

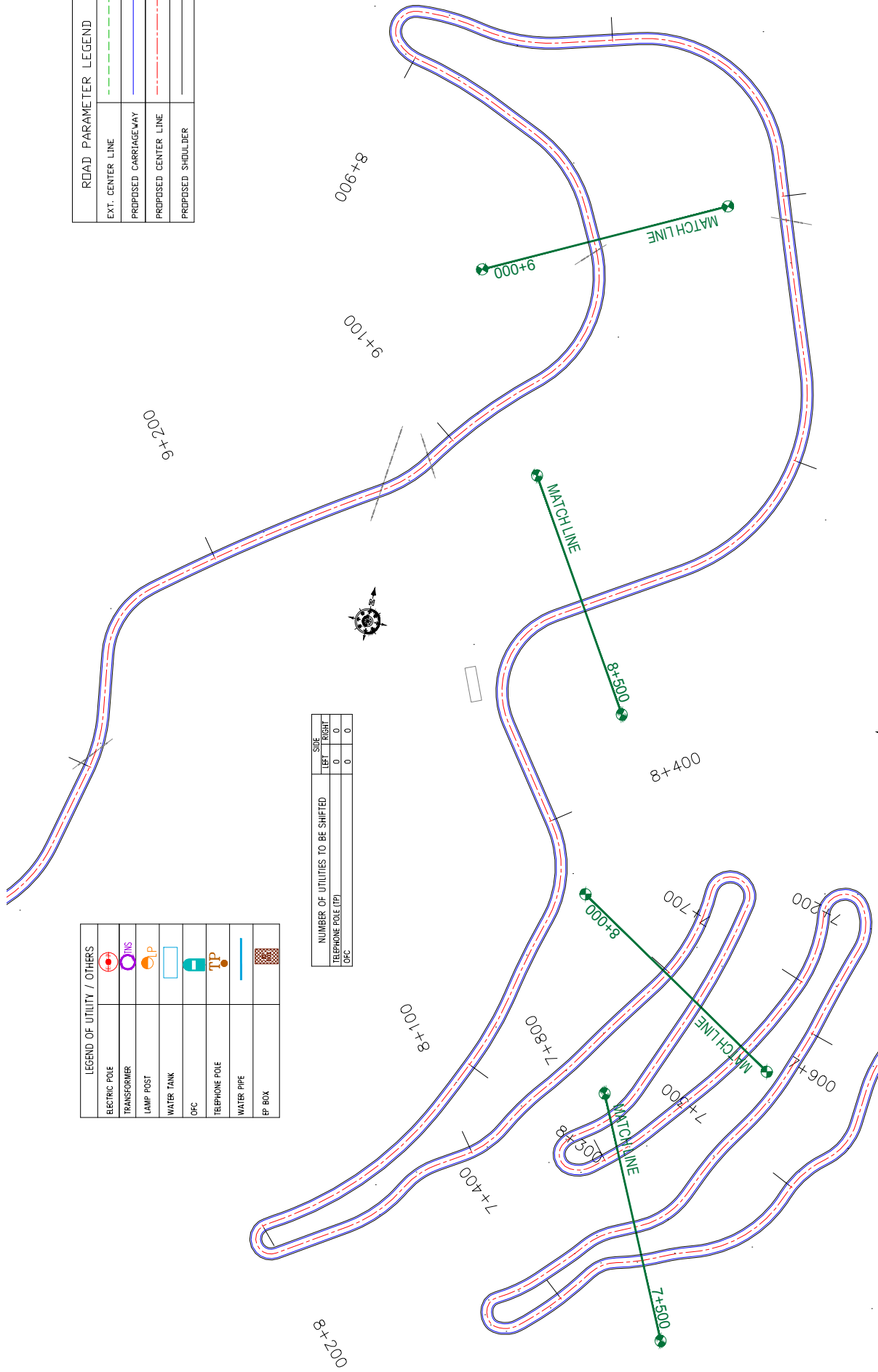
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OPC	
TELEPHONE POLE	
WATER PIPE	
BP BOX	

NUMBER OF UTILITIES TO BE SHIFTED

TELEPHONE POLE (TP)	SIDE	
	LEFT	RIGHT
OPC	0	0
	0	0

ROAD PARAMETER LEGEND

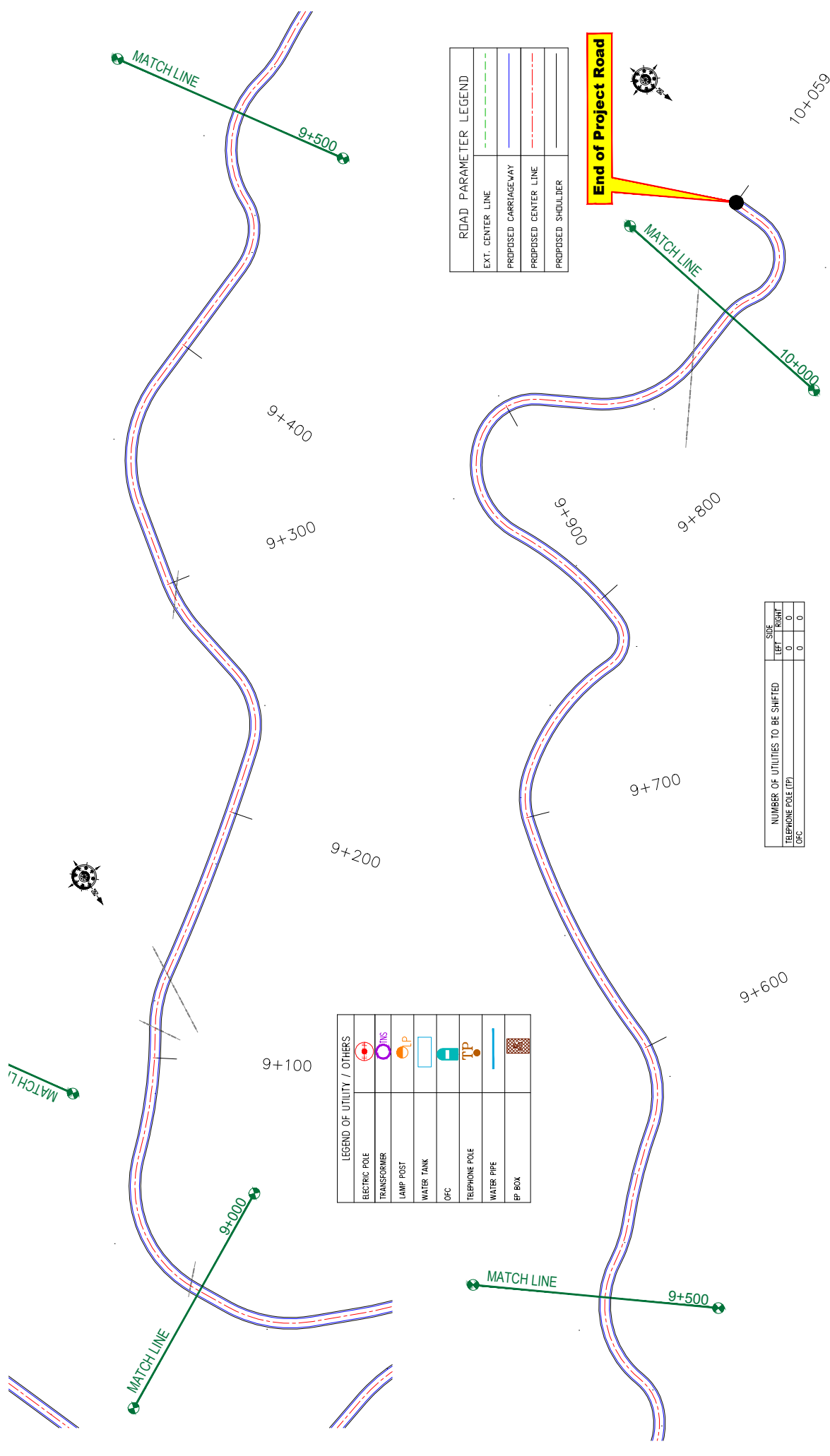
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	



CLIENT:	 Jhelum Talavi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.	PROJECT:	Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)		
			DESIGN CONSULTANT:	servicios de Ingenieria S.L. epi sa Corporate Park, Plot No. 2, Block EP & GP, Sector v. Salt Lake Kolkata - 700091, West Bengal Ph: 033-40347200 www.epiisa.com	
TITLE:	Utility Relocation Plan (For Telephone Department) (Ch. 8+000 to Ch. 9+000)	DRAWN BY:	SD	SCALE:	1:1000
		DESIGNED BY:	SCK/MM	APPROVED BY:	KG
		DRG. NO.:	EPTISAJTFRRPDRJ8KURP/11	REVISION:	R-1
REV.	DATE	DESCRIPTION			
					(September 2019)

Chakrabatti Road

Malaini



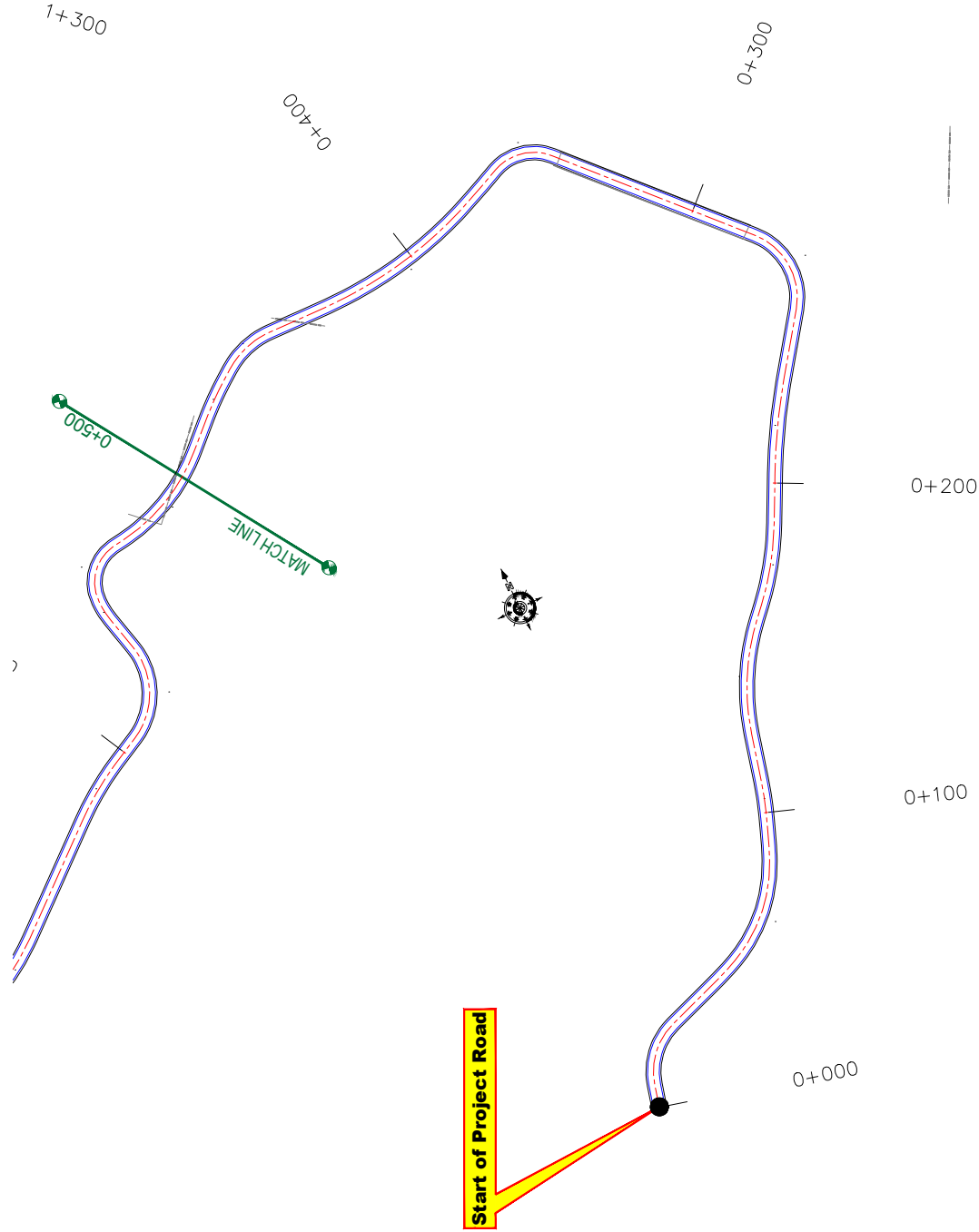
ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

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	0	0

CLIENT: Jhelum Tarai Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.	PROJECT: Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)	DESIGN CONSULTANT: eptisa 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	TITLE: Utility Relocation Plan (For Telephone Department) (Ch. 9+000 to Ch. 10+059)
			DRAWN BY: SD
			DESIGNED BY: SCK/MM
			APPROVED BY: KG
REV:	DATE:	DESCRIPTION:	SCALE: 1:1000
REVISION: R-1			DRG. NO.: EPTISAJTRPRDPRJ8KURP/12 (September 2019)

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



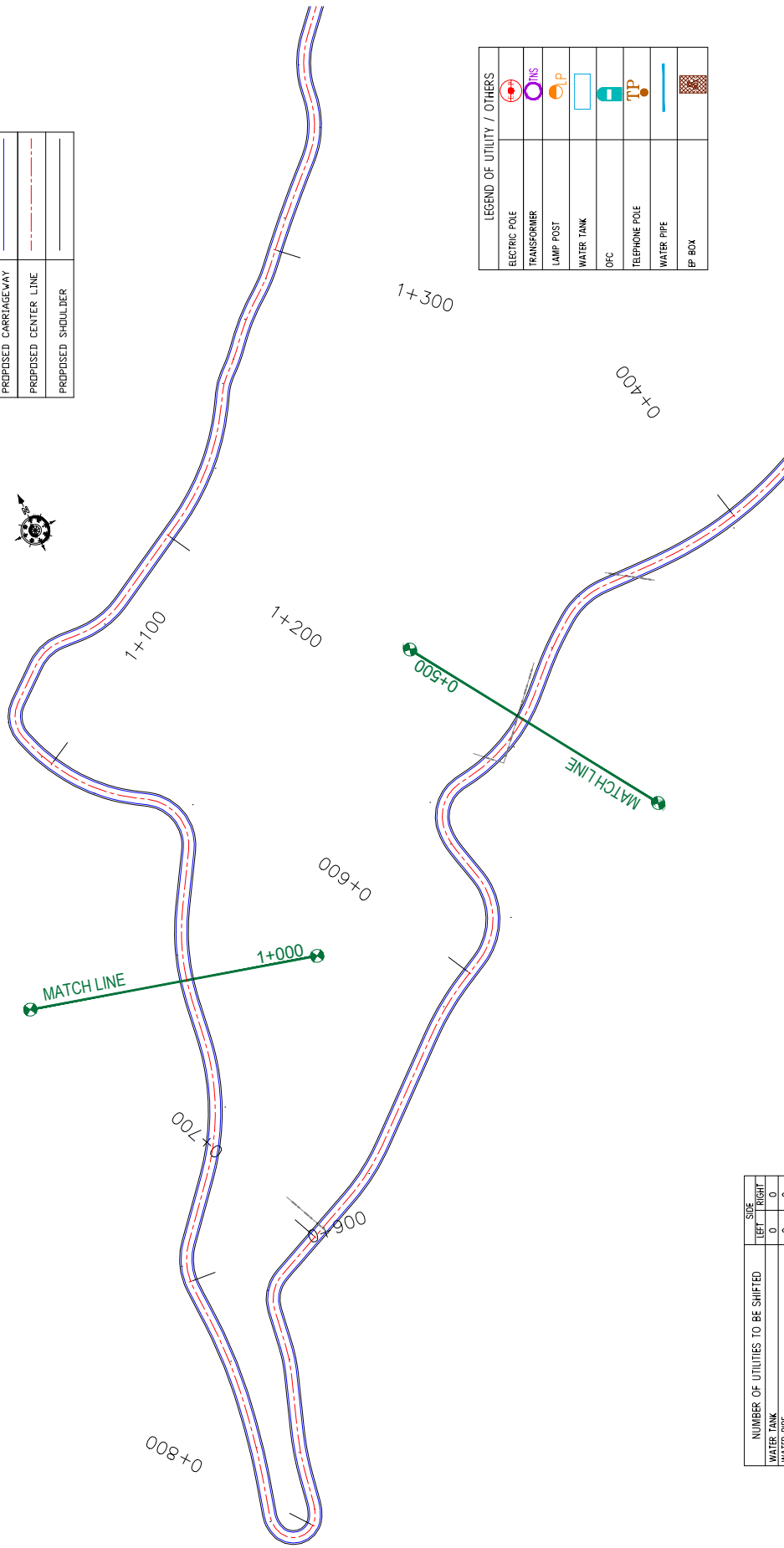
ROAD PARAMETER LEGEND	
EXT. CENTER LINE	--- --
PROPOSED CARRIAGEWAY	— — — —
PROPOSED CENTER LINE	— · — · — ·
PROPOSED SHOULDER	— — — —

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
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 works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)	DESIGN CONSULTANT:  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: Utility Relocation Plan (For Water Department) (Ch. 0+000 to Ch. 0+500)	DRG. NO.: EPTISAJTFRRPDRJ8KURP/01 REVISION: R-1

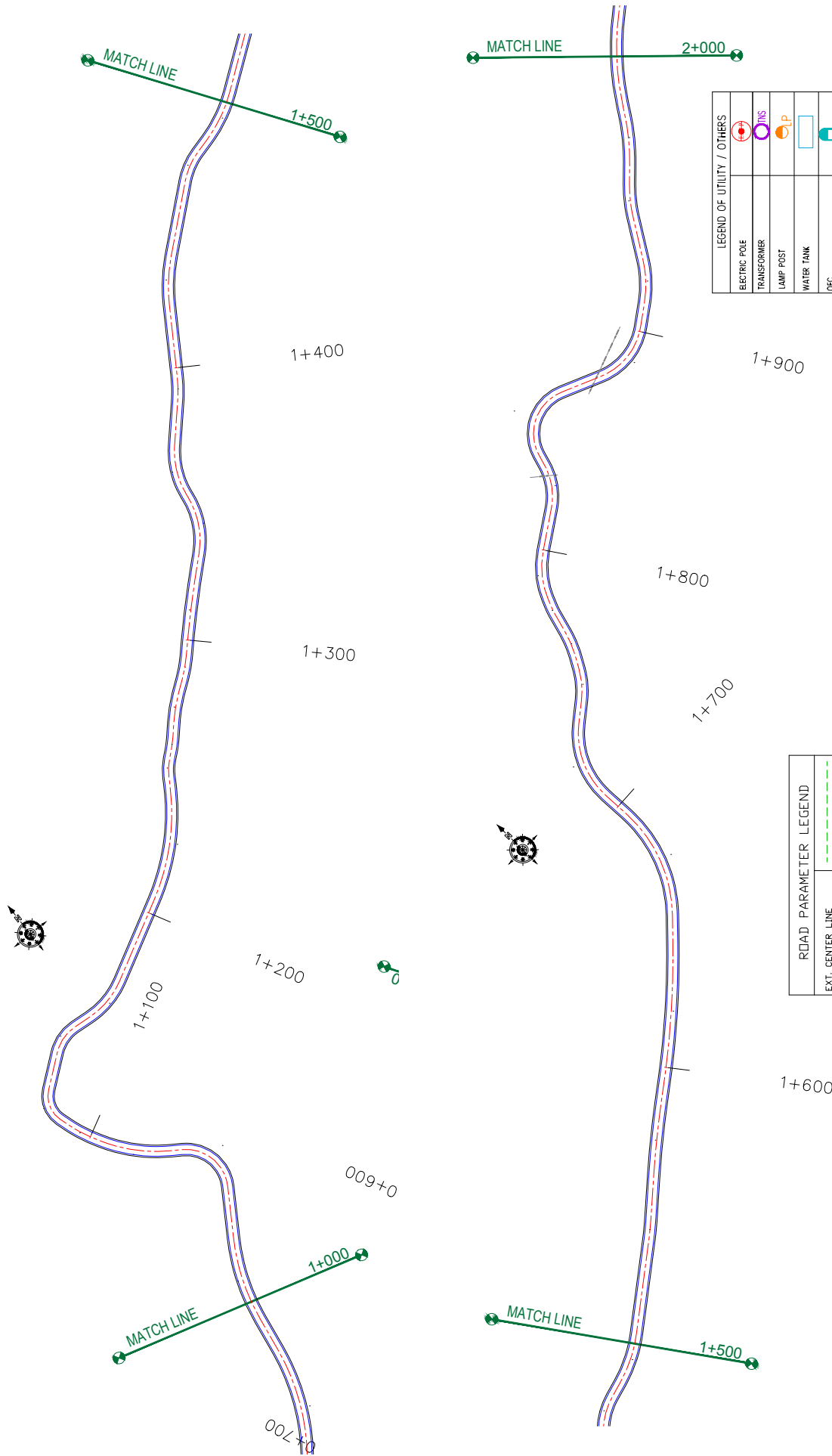
ROAD PARAMETER LEGEND	
EXT. CENTER LINE	- - - - -
PROPOSED CARRIAGEWAY	—————
PROPOSED CENTER LINE	- · - · -
PROPOSED SHOULDER	—————



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 Talavi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.	PROJECT: Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)	DESIGN CONSULTANT: eptisa 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		TITLE: Utility Relocation Plan (For Water Department) (Ch. 0+500 to Ch. 1+000)
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REV.	DATE	SCALE: 1:1000	REVISION: R-1	

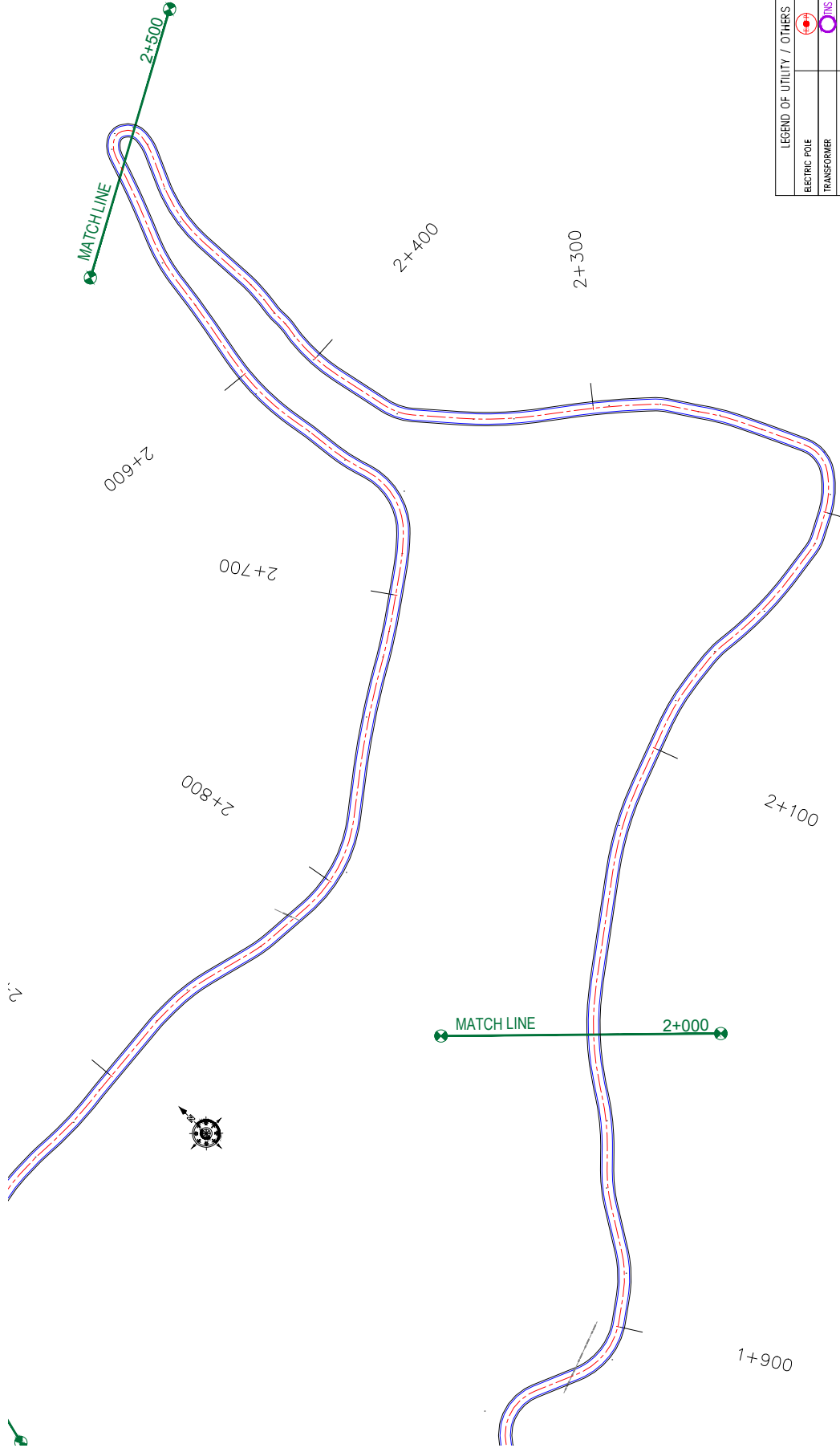


NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
WATER TANK	0	0
WATER PIPE	0	0

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	

<p>CLIENT:</p> <p>Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.</p>	<p>PROJECT:</p> <p>Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)</p>	<p>DESIGN CONSULTANT:</p> <p>epitisa <i>servicios de Ingenieria S.L.</i> 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.epitisa.com</p>	<p>TITLE: Utility Relocation Plan (For Water Department) (Ch. 1+000 to Ch. 2+000)</p> <p>DRAWN BY: SD</p> <p>DESIGNED BY: SCK/MM</p> <p>APPROVED BY: KG</p> <p>SCALE: 1:1000</p> <p>REVISION: R-1</p>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV	DATE	DESCRIPTION							<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DRG. NO.:</th> <th>REVISION:</th> </tr> </thead> <tbody> <tr> <td>EPTISAJUTFRPDRJ8KURP/03</td> <td>R-1</td> </tr> </tbody> </table>	DRG. NO.:	REVISION:	EPTISAJUTFRPDRJ8KURP/03	R-1	<p>SEPTEMBER 2019</p>	
REV	DATE	DESCRIPTION														
DRG. NO.:	REVISION:															
EPTISAJUTFRPDRJ8KURP/03	R-1															



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

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	

CLIENT:



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

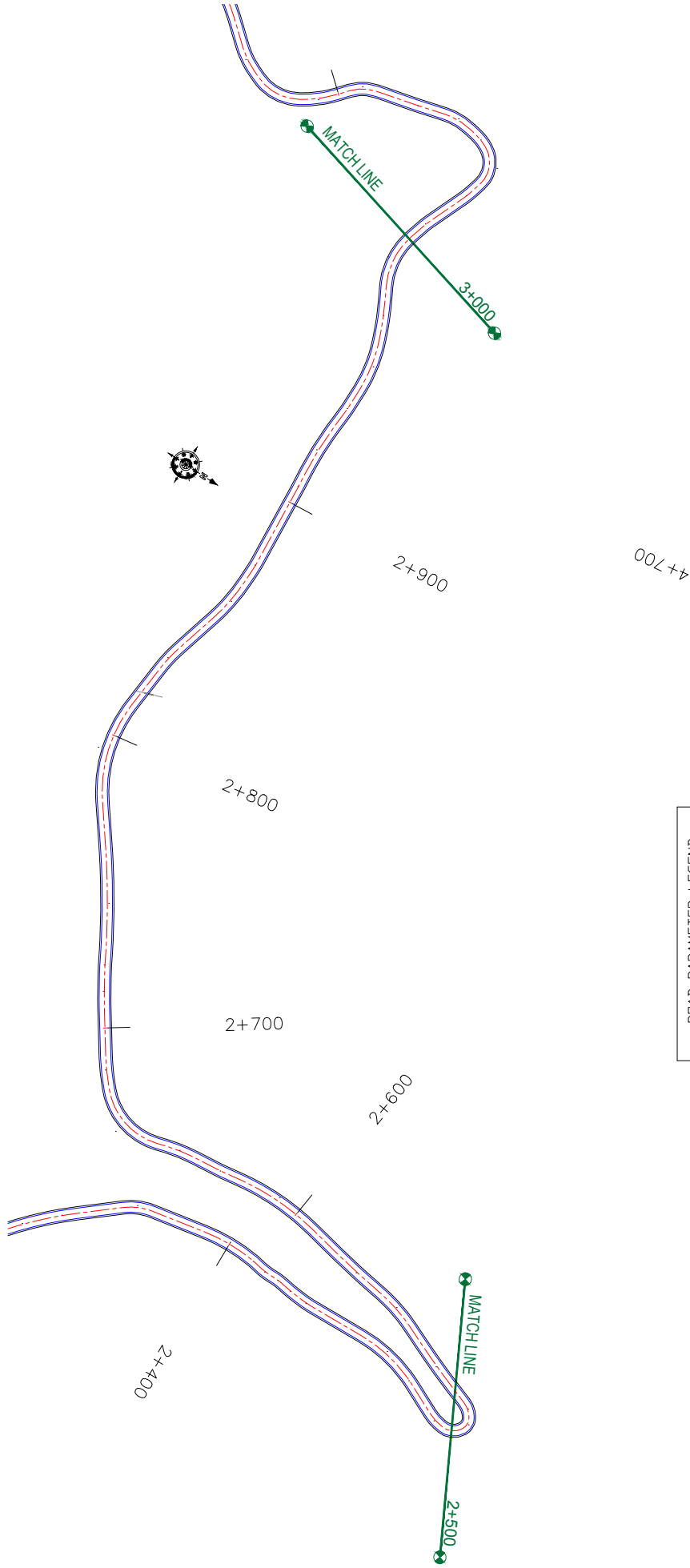
PROJECT:

Consultancy Services for Preparing Detailed Project Report
 for the Road works in Jammu and Kashmir
 (Malaini to Chakrabatti Road in Doda District)

DESIGN CONSULTANT:

epi *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.epiisa.com

DRAWN BY:	SD	TITLE:	Utility Relocation Plan (For Water Department)
DESIGNED BY:	SCK/MM		(Ch. 2+000 to Ch. 2+500)
APPROVED BY:	KG	DRG. NO.:	EPTISAJTRPPDRJUKURP/04
SCALE:	1:1000	REVISION:	R-1
REV.	DATE	DESCRIPTION	



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

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	--- (dashed green line)
PROPOSED CARRIAGEWAY	— (solid blue line)
PROPOSED CENTER LINE	- - - (dashed red line)
PROPOSED SHOULDER	— (solid black line)

LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	⊙ (circle with cross)
TRANSFORMER	⊙ (circle with 'X')
LAMP POST	⊙ (circle with 'L')
WATER TANK	⊙ (circle with 'W')
OPC	⊙ (circle with 'O')
TELEPHONE POLE	⊙ (circle with 'T')
WATER PIPE	— (solid blue line)
EP BOX	⊙ (circle with 'E')

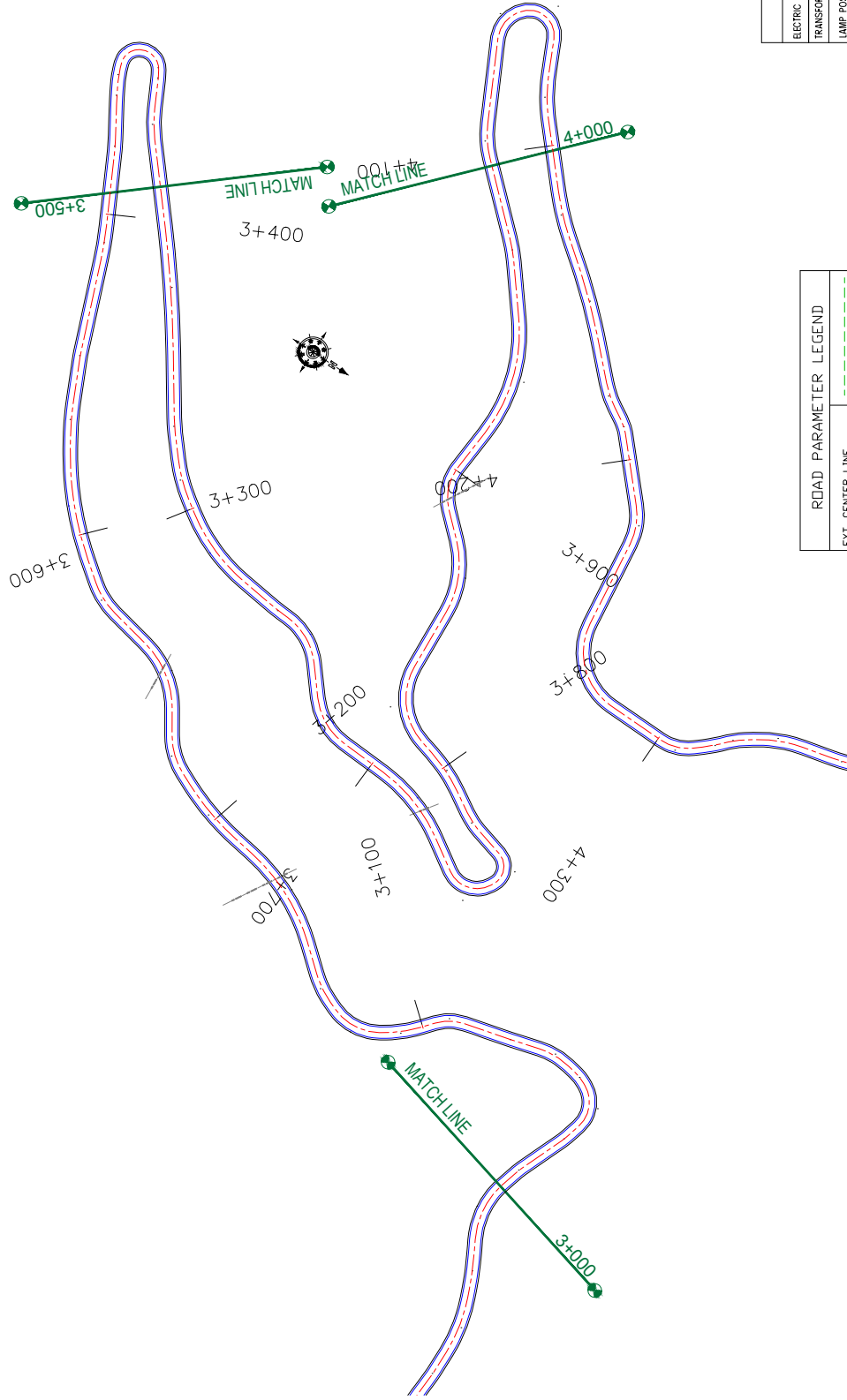


Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT:
Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)

DESIGN CONSULTANT:
epi *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.epiisa.com

REV	DATE	DESCRIPTION	DRAWN BY:	SD	TITLE:
					Utility Relocation Plan (For Water Department) (Ch. 2+500 to Ch. 3+000)
			DESIGNED BY:	SCK/MM	
			APPROVED BY:	KG	
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					REVISION: R-1

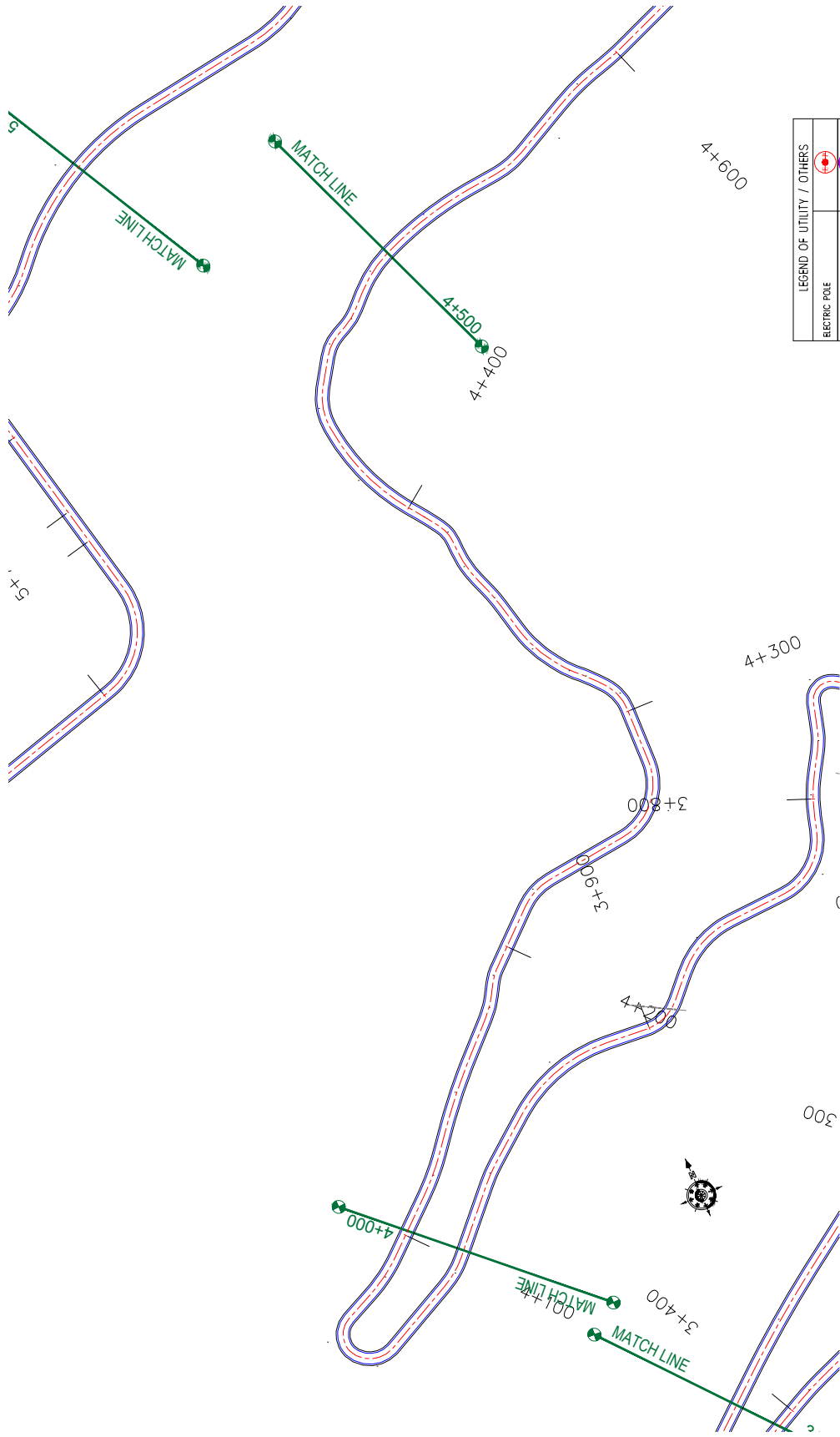


NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
WATER TANK	0	0
WATER PIPE	0	0

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	

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 works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)	
			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
DRAWN BY:		SD	TITLE: Utility Relocation Plan (For Water Department) (Ch. 3+000 to Ch. 4+000)	
DESIGNED BY:		SCK/MM	DRG. NO.: EPTISAJTRPPDRJUKURP/06	
APPROVED BY:		KG	REVISION: R-1	
REV.	DATE	DESCRIPTION	SCALE: 1:1000	SEPTEMBER 2019



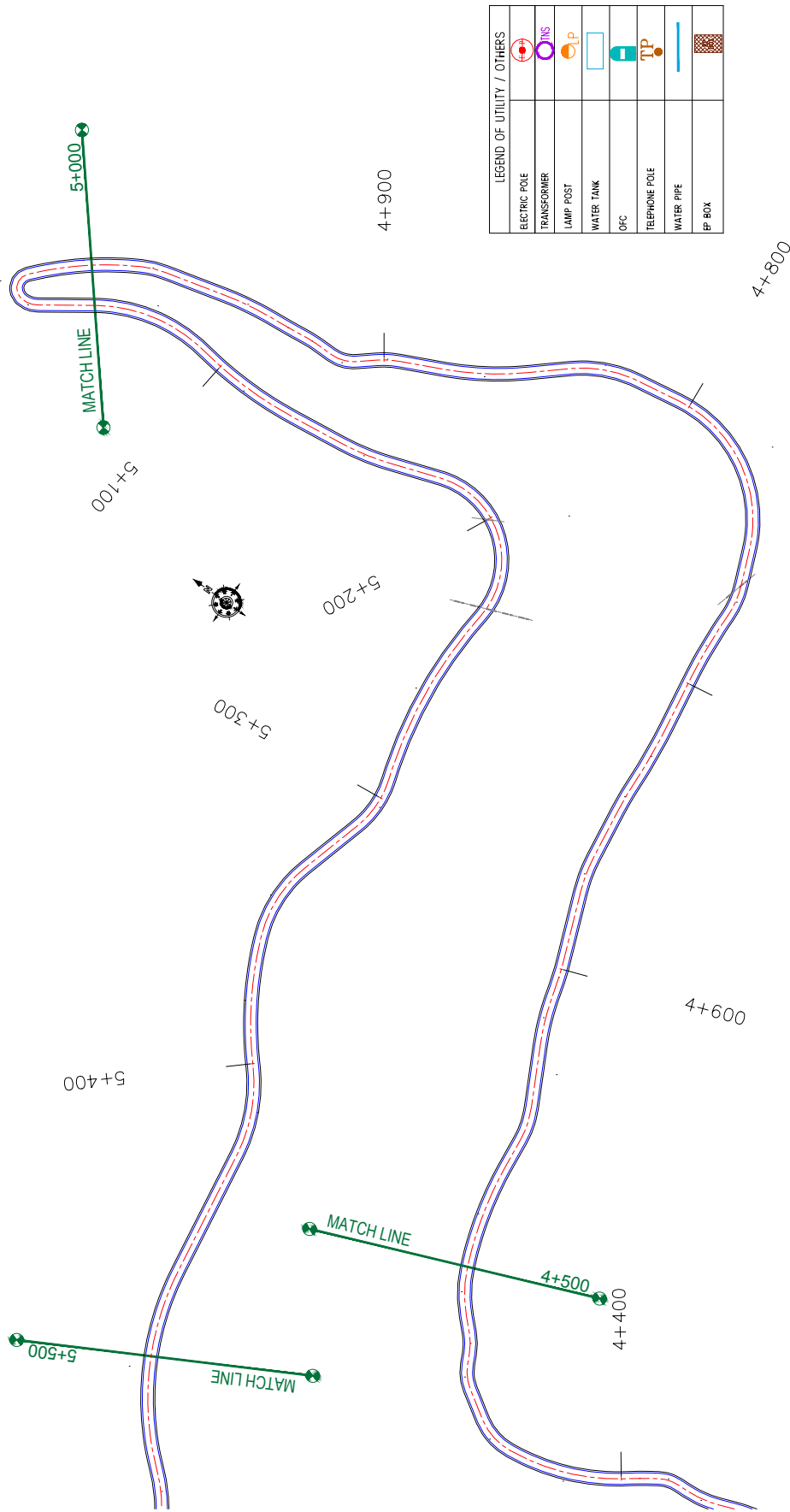
NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
WATER TANK	0	0
WATER PIPE	0	0

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

LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OPC	
TELEPHONE POLE	
WATER PIPE	
IP BOX	

CLIENT: Jhelum Talavi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.	PROJECT: Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)	DESIGN CONSULTANT: eptisa 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		REVISION: REV. DATE DESCRIPTION
		DESIGN CONSULTANT: 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	PROJECT: Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)	REVISION: REV. DATE DESCRIPTION
CUSTOMER: Malaini	PROJECT: Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)	DESIGN CONSULTANT: 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	REVISION: REV. DATE DESCRIPTION	
CLIENT: Malaini	PROJECT: Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)	DESIGN CONSULTANT: 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	REVISION: REV. DATE DESCRIPTION	

TITLE: Utility Relocation Plan (For Water Department) (Ch. 4+000 to Ch. 4+500)	DRAWN BY: SD
DESIGNED BY: SCK/MM	SCALE: 1:1000
APPROVED BY: KG	REVISION: R-1
DRG. NO.: EPTISAJTRPPDRJ8KURP/07	DATE: September 2019

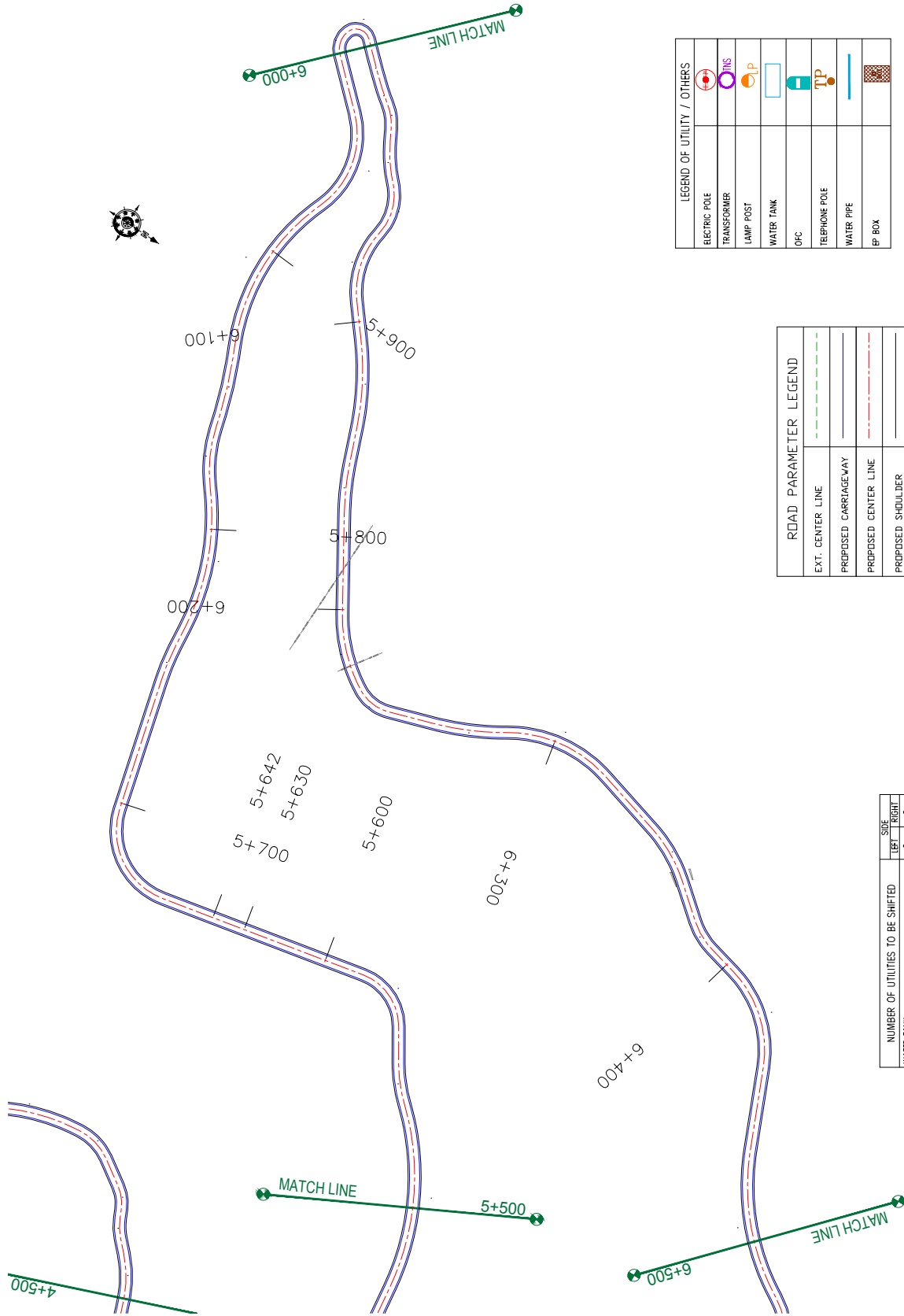


LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
GFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

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

<p>CLIENT:</p> <p>Jhelum Tarai Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.</p>	<p>PROJECT:</p> <p>Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)</p>	<p>DESIGN CONSULTANT:</p> <p>epitisa <i>servicios de ingeniería S.L.</i> 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.epitisa.com</p>	<p>TITLE: Utility Relocation Plan (For Water Department) (Ch. 4+500 to Ch. 5+500)</p> <p>DRAWN BY: SD</p> <p>DESIGNED BY: SCK/MM</p> <p>APPROVED BY: KG</p> <p>SCALE: 1:1000</p> <p>REVISION: R-1</p>




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	
DFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

CLIENT:



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

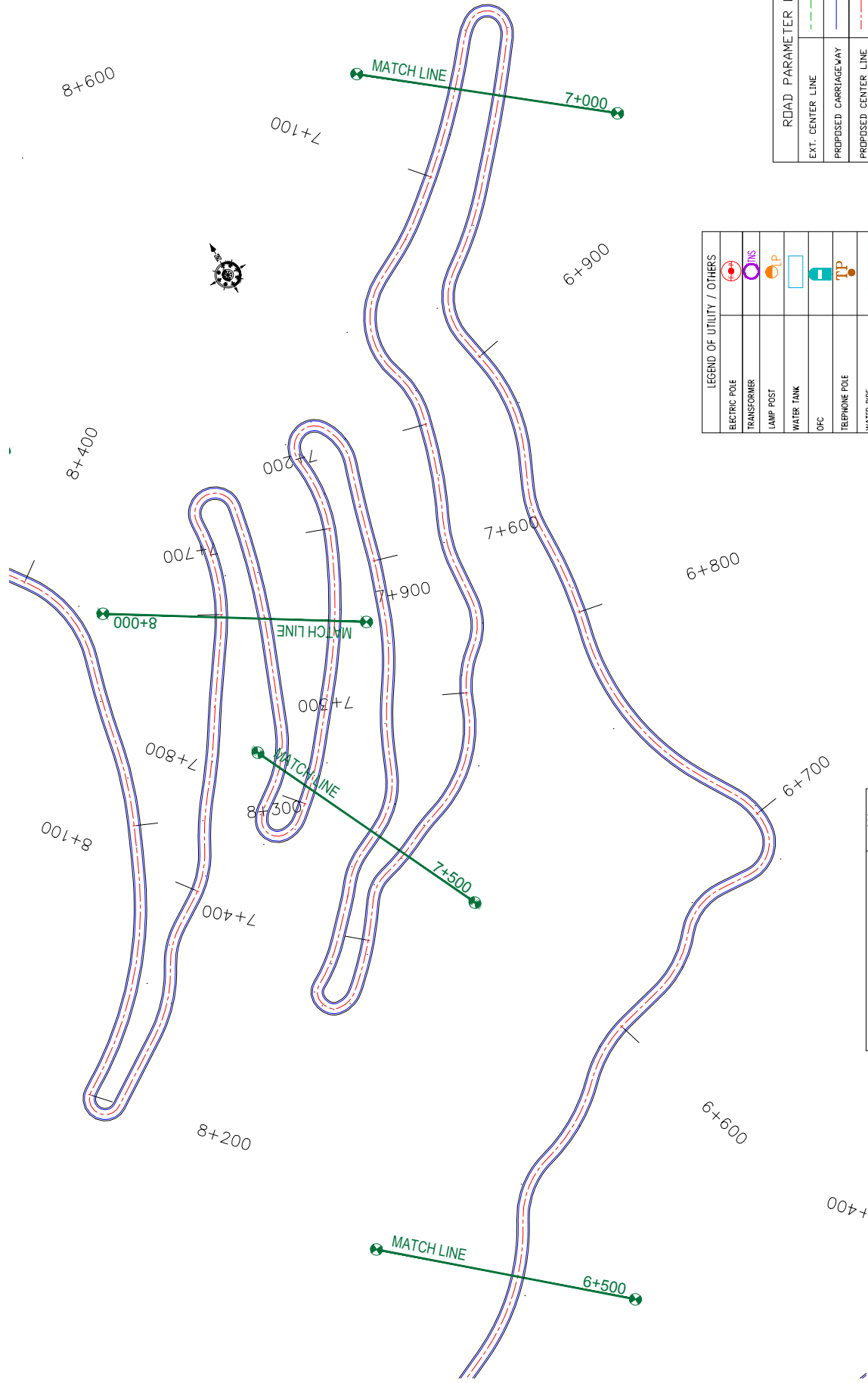
PROJECT:

Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir
(Malaini to Chakrabatti Road in Doda District)

DESIGN CONSULTANT:

epi *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.epiisa.com

DRAWN BY:	SD	TITLE:	Utility Relocation Plan (For Water Department) (Ch. 5+500 to Ch. 6+500)
DESIGNED BY:	SCK/MM	DRG. NO.:	EPTISAJTRPPDRJ8KURP/09
APPROVED BY:	KG	SCALE:	1:1000
REV.	DATE	DESCRIPTION	REVISION: R-1



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	

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 works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)	DESIGN CONSULTANT: eptisa 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		TITLE: Utility Relocation Plan (For Water Department) (Ch. 6+500 to Ch. 8+000)	
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		REVISION: R-1		September 2019	

LEGEND OF UTILITY / OTHERS

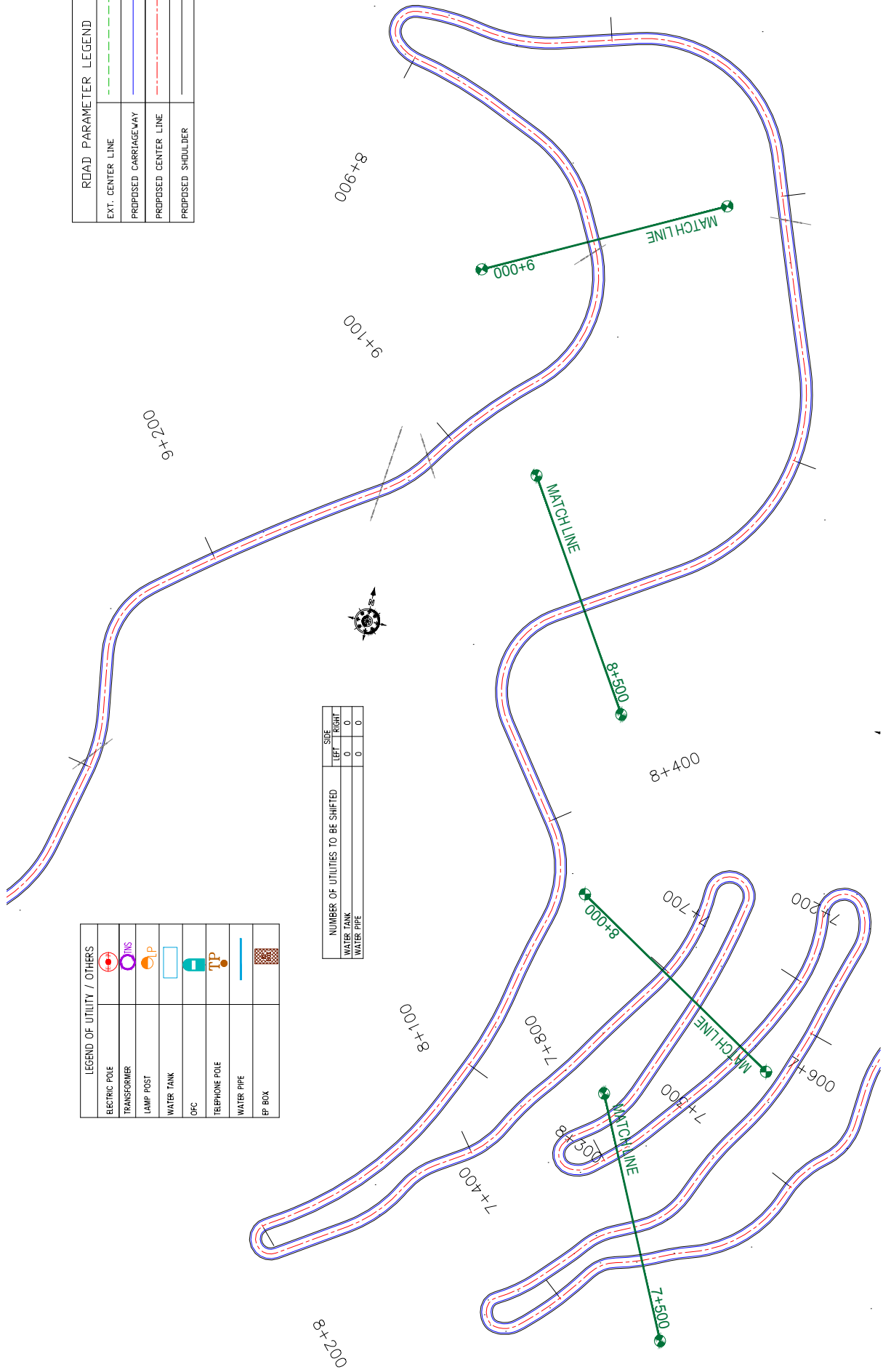
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OPC	
TELEPHONE POLE	
WATER PIPE	
BP BOX	

NUMBER OF UTILITIES TO BE SHIFTED

	SIDE	
	LEFT	RIGHT
WATER TANK	0	0
WATER PIPE	0	0

ROAD PARAMETER LEGEND

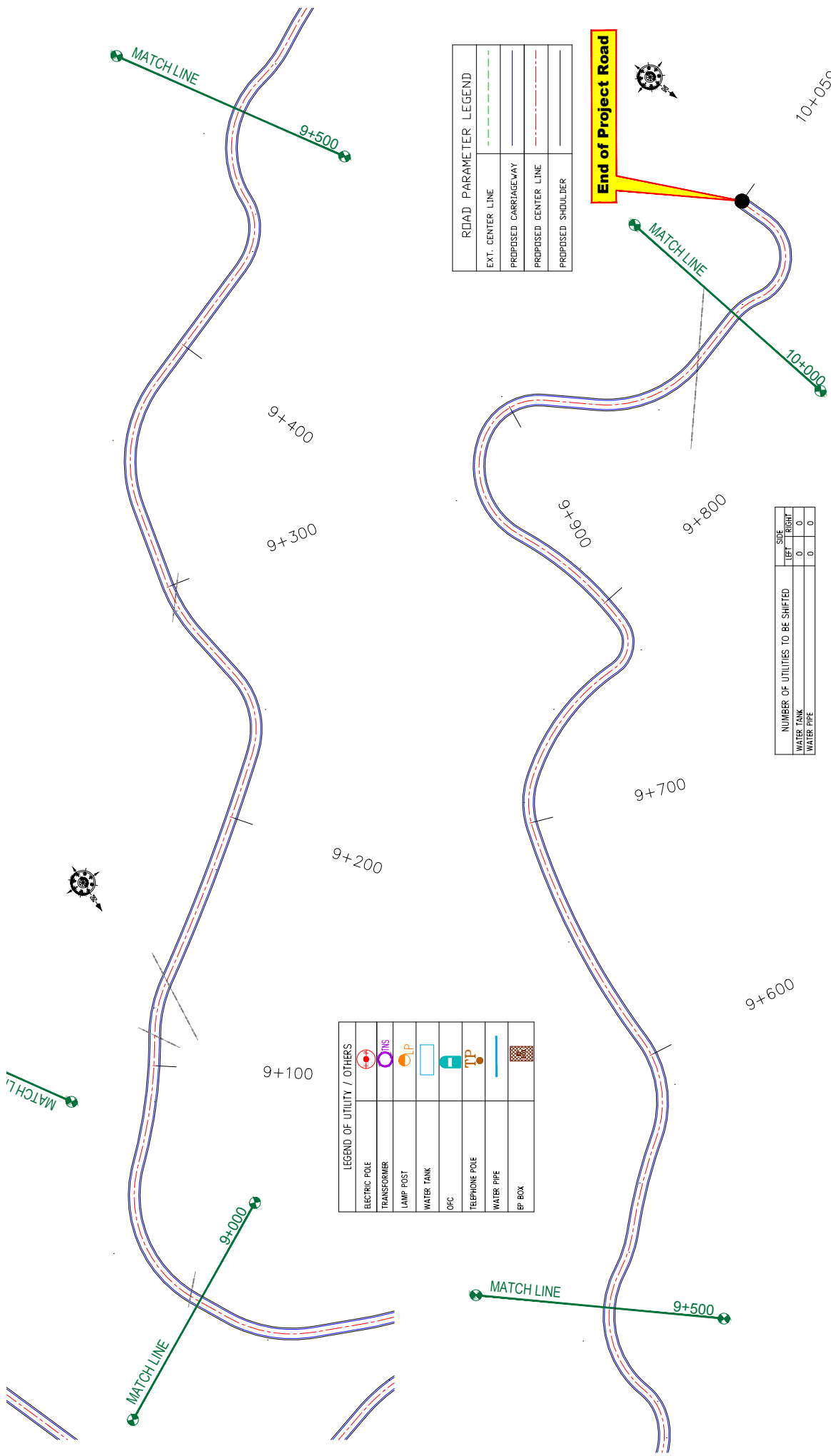
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	



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 works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)	
			DESIGN CONSULTANT:	servicios de Ingenieria S.L. epi sa Corporate Park, Plot No. 2, Block EP & GP, Sector v. Salt Lake Kolkata - 700091, West Bengal Ph: 033-40347200 www.epiisa.com
DRAWN BY:	SD	TITLE:	Utility Relocation Plan (For Water Department) (Ch. 8+000 to Ch. 9+000)	
DESIGNED BY:	SCK/MM	APPROVED BY:	KG	DRG. NO.: EPTISAJTFRRPDRJ8KURP/11
SCALE:	1:1000	REVISION:	R-1	September 2019
REV.	DATE	DESCRIPTION		

Malaini

Chakrabatti Road



ROAD PARAMETER LEGEND

EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

LEGEND OF UTILITY / OTHERS

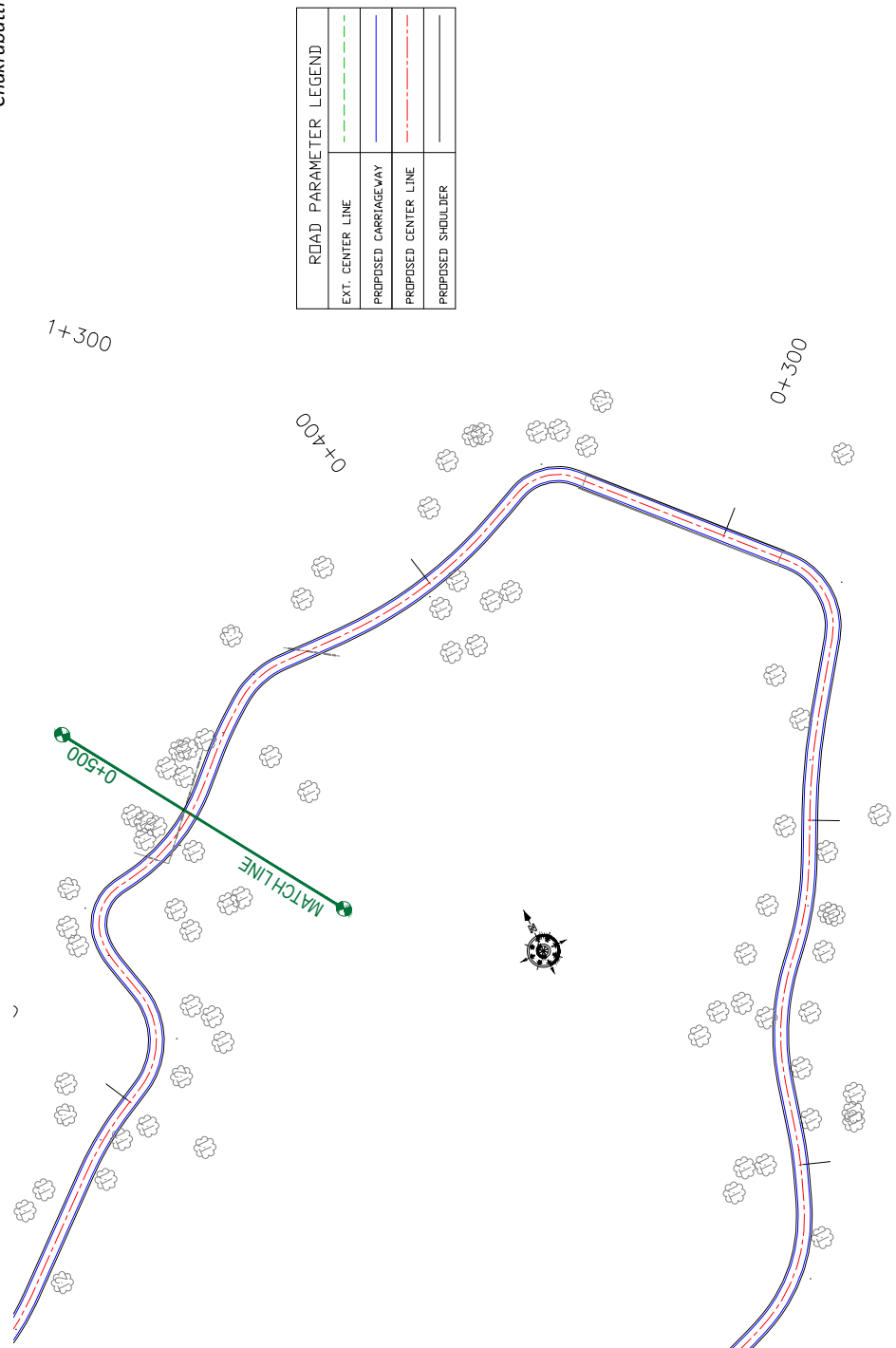
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

NUMBER OF UTILITIES TO BE SHIFTED

	SIDE	
	LEFT	RIGHT
WATER TANK	0	0
WATER PIPE	0	0

<p>CLIENT:</p> <p>Jhelum Tarai Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.</p>	<p>PROJECT:</p> <p>Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)</p>	<p>DESIGN CONSULTANT:</p> <p>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</p>	<p>TITLE: Utility Relocation Plan (For Water Department) (Ch. 9+000 to Ch. 10+059)</p>
			<p>DRAWN BY: SD</p> <p>DESIGNED BY: SCK/MM</p> <p>APPROVED BY: KG</p> <p>SCALE: 1:1000</p>
<p>REV. DATE DESCRIPTION</p>		<p>REVISION: R-1</p>	

≡ TREE CUTTING (MAIN ROAD) ≡



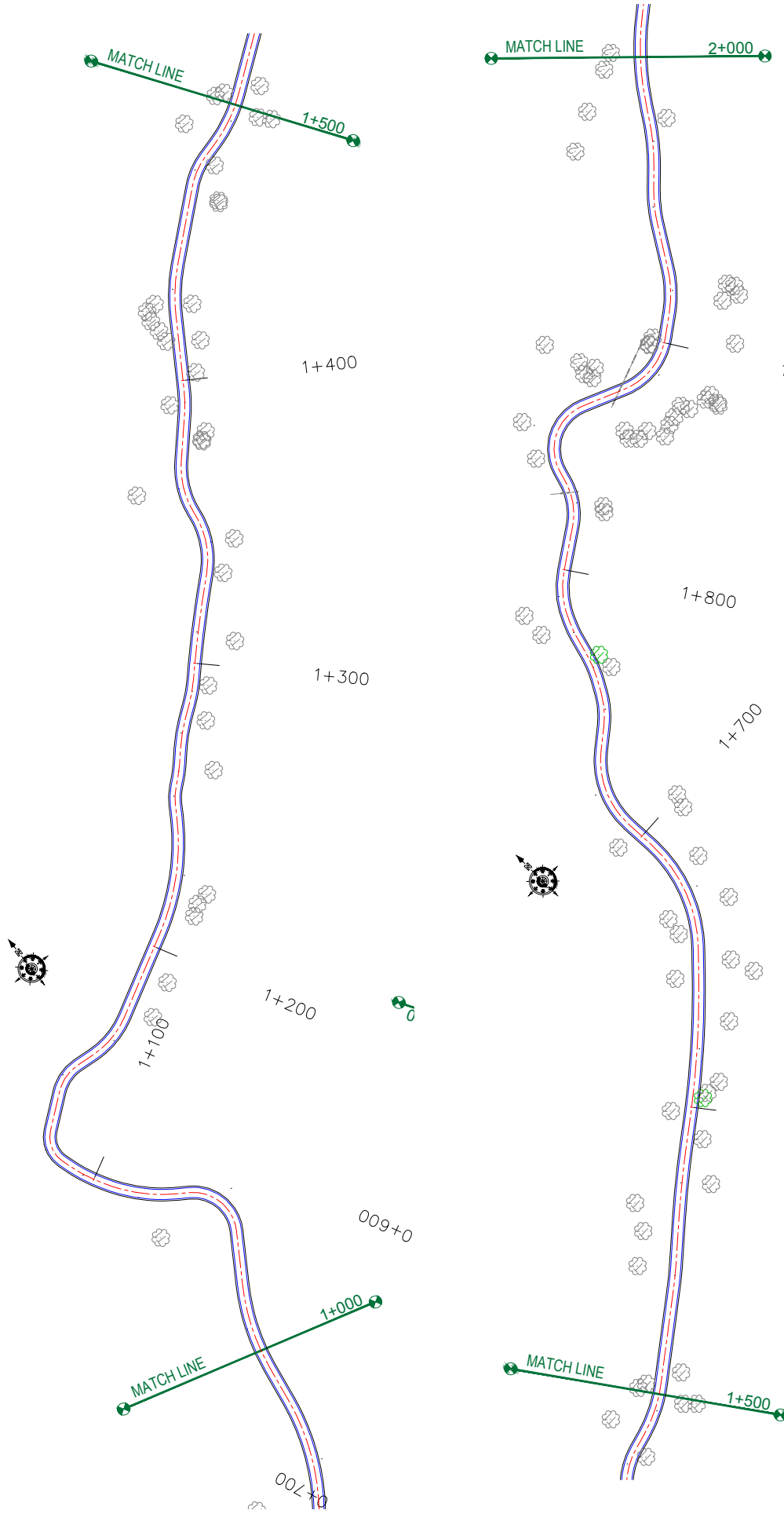
ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

Start of Project Road

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

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	0	0
T2	0	0
T3	0	0
T4	00	00

CLIENT:	 Jhelum Talavi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.	PROJECT:	Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)	
			DESIGN CONSULTANT:	servicios de Ingenieria S.L. eptisa 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
DRAWN BY: SD		TITLE: TREE CUTTING		
DESIGNED BY: SCK/MM		(Ch. 0+000 to Ch. 0+500)		
APPROVED BY: KG		DRG. NO.: EPTISAJTRPDRPJ8K7C01		
SCALE: 1:1000		REVISION: R-1		
REV.	DATE	DESCRIPTION	SEPTEMBER 2019	



LEGEND OF TREES

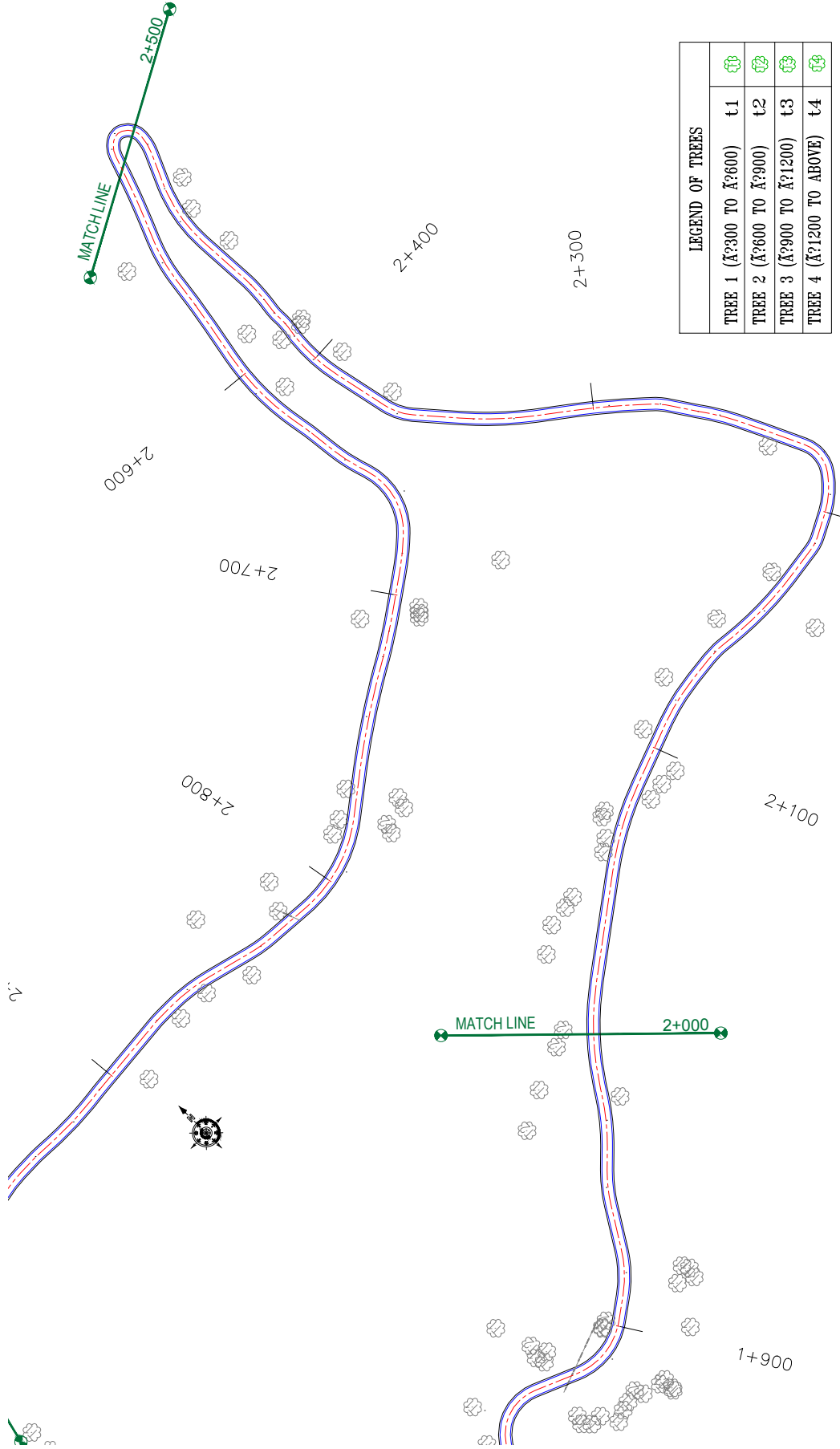
TREE	STATION RANGE	SYMBOL
TREE 1	(\bar{A} ?300 TO \bar{A} ?600)	t1
TREE 2	(\bar{A} ?600 TO \bar{A} ?900)	t2
TREE 3	(\bar{A} ?900 TO \bar{A} ?1200)	t3
TREE 4	(\bar{A} ?1200 TO ABOVE)	t4

ROAD PARAMETER LEGEND

EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	0	2
T2	0	0
T3	0	0
T4	00	00

<p>CLIENT:</p>  <p>Jhelum Talavi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.</p>	<p>PROJECT:</p> <p>Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)</p>	<p>DESIGN CONSULTANT:</p> <p>epitisa <i>servicios de Ingenieria S.L.</i> 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.epitisa.com</p>
<p>CUSTOMER:</p> <p>Malaini</p>	<p>PROJECT TITLE:</p> <p>TREE CUTTING (Ch. 1+000 to Ch. 2+000)</p>	<p>DATE:</p> <p>September 2019</p>
<p>DESIGNED BY:</p> <p>SCK/MM</p>	<p>DRAWN BY:</p> <p>SD</p>	<p>SCALE:</p> <p>1:1000</p>
<p>APPROVED BY:</p> <p>KG</p>	<p>DESIGNED BY:</p> <p>SCK/MM</p>	<p>REVISION:</p> <p>R-1</p>
<p>REV:</p> <p>DATE</p>	<p>DESCRIPTION</p>	<p>DRG. NO.:</p> <p>EPTISAJTRFRPDRJ8K7C103</p>



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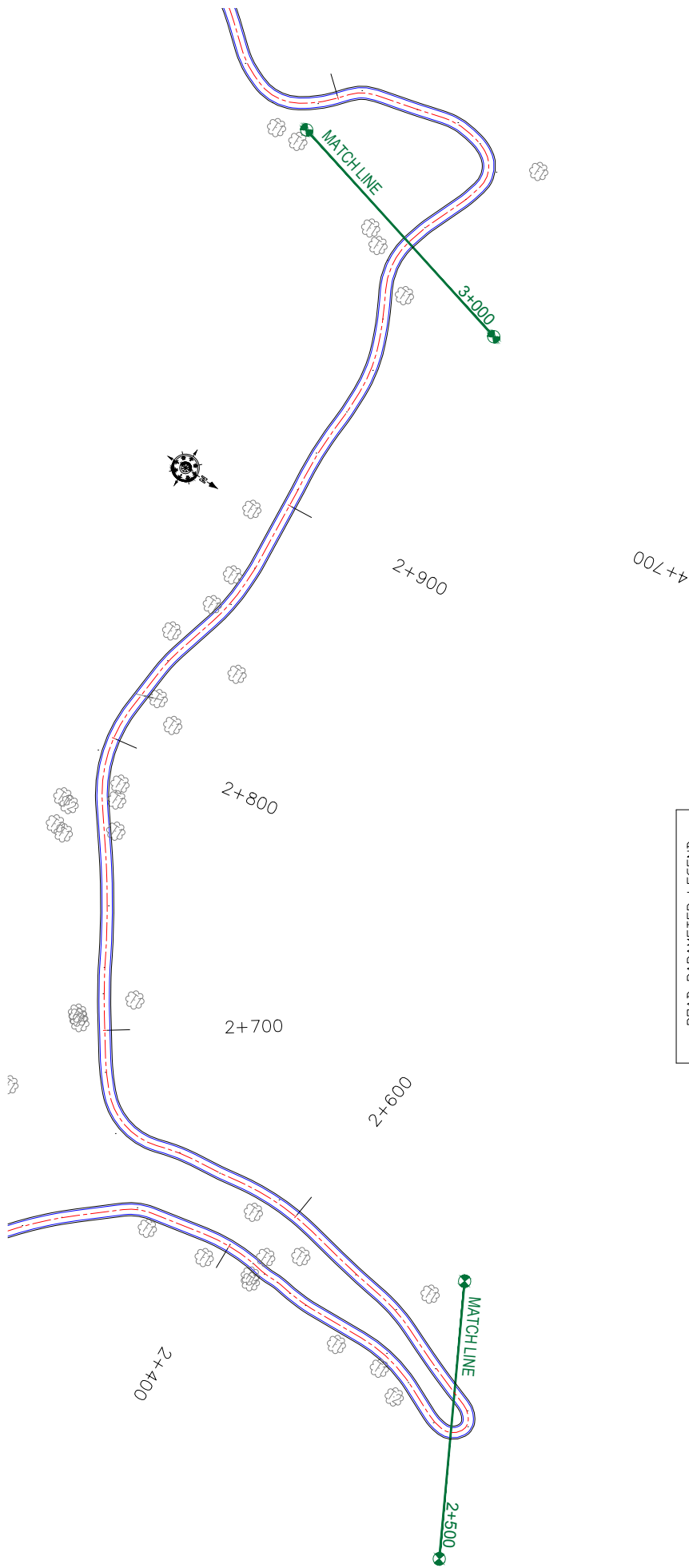


LEGEND OF TREES	
TREE 1 (A?300 TO A?600)	t1
TREE 2 (A?600 TO A?900)	t2
TREE 3 (A?900 TO A?1200)	t3
TREE 4 (A?1200 TO ABOVE)	t4

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	0	0
T2	0	0
T3	0	0
T4	00	00

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	--- (dashed green)
PROPOSED CARRIAGEWAY	--- (dashed blue)
PROPOSED CENTER LINE	--- (dashed red)
PROPOSED SHOULDER	--- (solid black)

<p>CLIENT:</p>  <p>Jhelum Talavi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.</p>	<p>PROJECT:</p> <p>Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)</p>	<p>DESIGN CONSULTANT:</p>  <p>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</p>									
<p>DRAWN BY: SD</p> <p>DESIGNED BY: SCK/MM</p> <p>APPROVED BY: KG</p> <p>SCALE: 1:1000</p>	<p>TITLE:</p> <p>TREE CUTTING (Ch. 2+000 to Ch. 2+500)</p> <p>DRG. NO.: EPTISAJTRPRDPRJ8K7C/04</p> <p>REVISION: R-1</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV.	DATE	DESCRIPTION						
REV.	DATE	DESCRIPTION									




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

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

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	0	0
T2	0	0
T3	0	0
T4	00	00

CLIENT:



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

PROJECT:

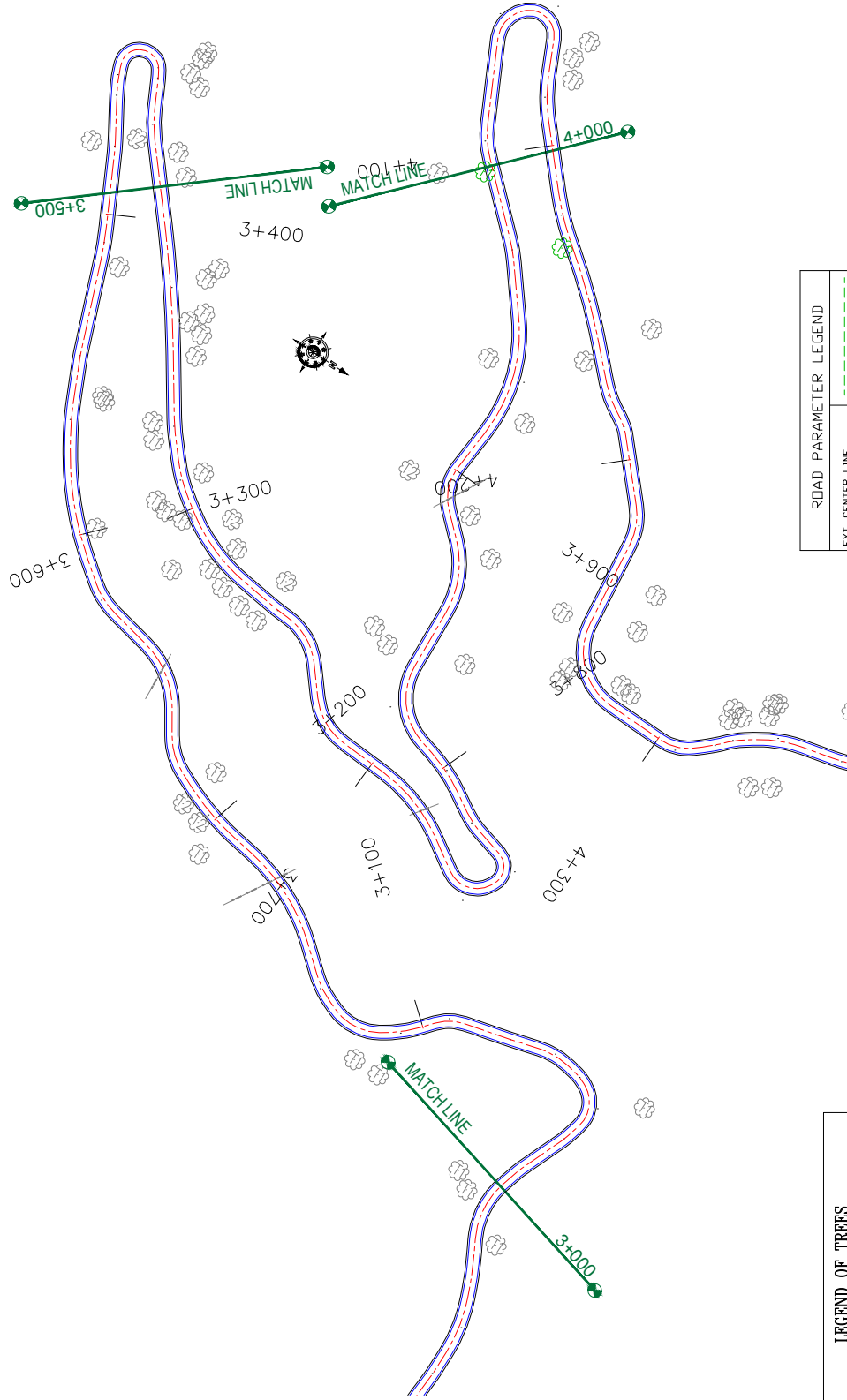
Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir
(Malaini to Chakrabatti Road in Doda District)

DESIGN CONSULTANT:



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

DRAWN BY: SD	TITLE: TREE CUTTING
DESIGNED BY: SCK/MM	(Ch. 2+500 to Ch. 3+000)
APPROVED BY: KG	DRG. NO. : EPTISAJTRPRDPRJ8K7C05
SCALE: 1:1000	REVISION: R-1
REV.	DATE
DESCRIPTION	




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

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	1	0
T2	0	0
T3	0	0
T4	00	00

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

CLIENT:




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

PROJECT:

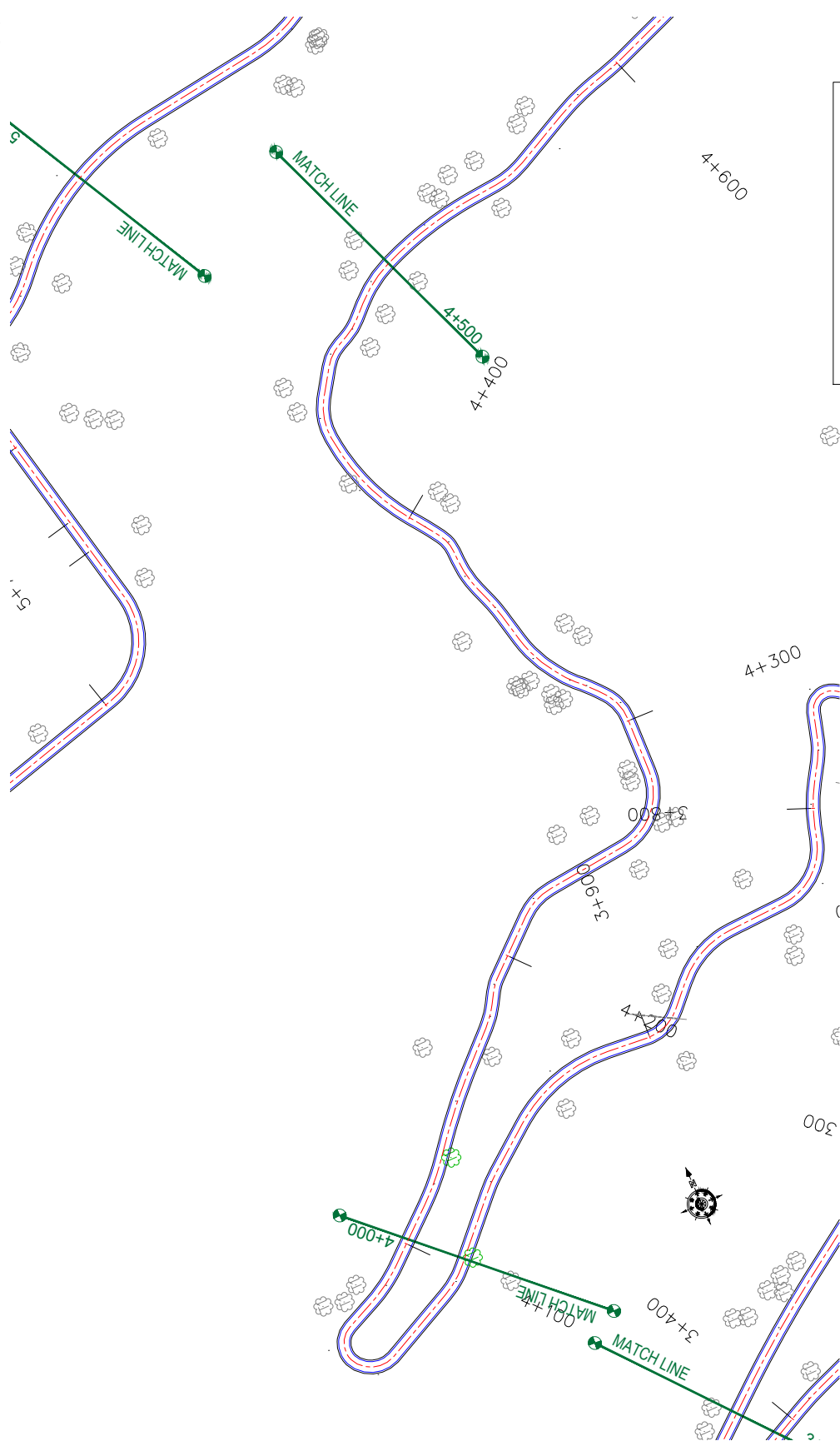
Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)

DESIGN CONSULTANT:



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

DRAWN BY :	SD	TITLE :	TREE CUTTING
DESIGNED BY :	SCK/MM		(Ch. 3+000 to Ch. 4+000)
APPROVED BY :	KG	DRG. NO. :	EPTISAJTFRRPDRJ8K7C06
SCALE :	1:1000	REVISION :	R-1
REV.	DATE	DESCRIPTION	



NUMBER OF TREES	SIDE	
	LEFT	RIGHT
t1	0	1
t2	0	0
t3	12	0
t4	13	0
	14	00

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

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



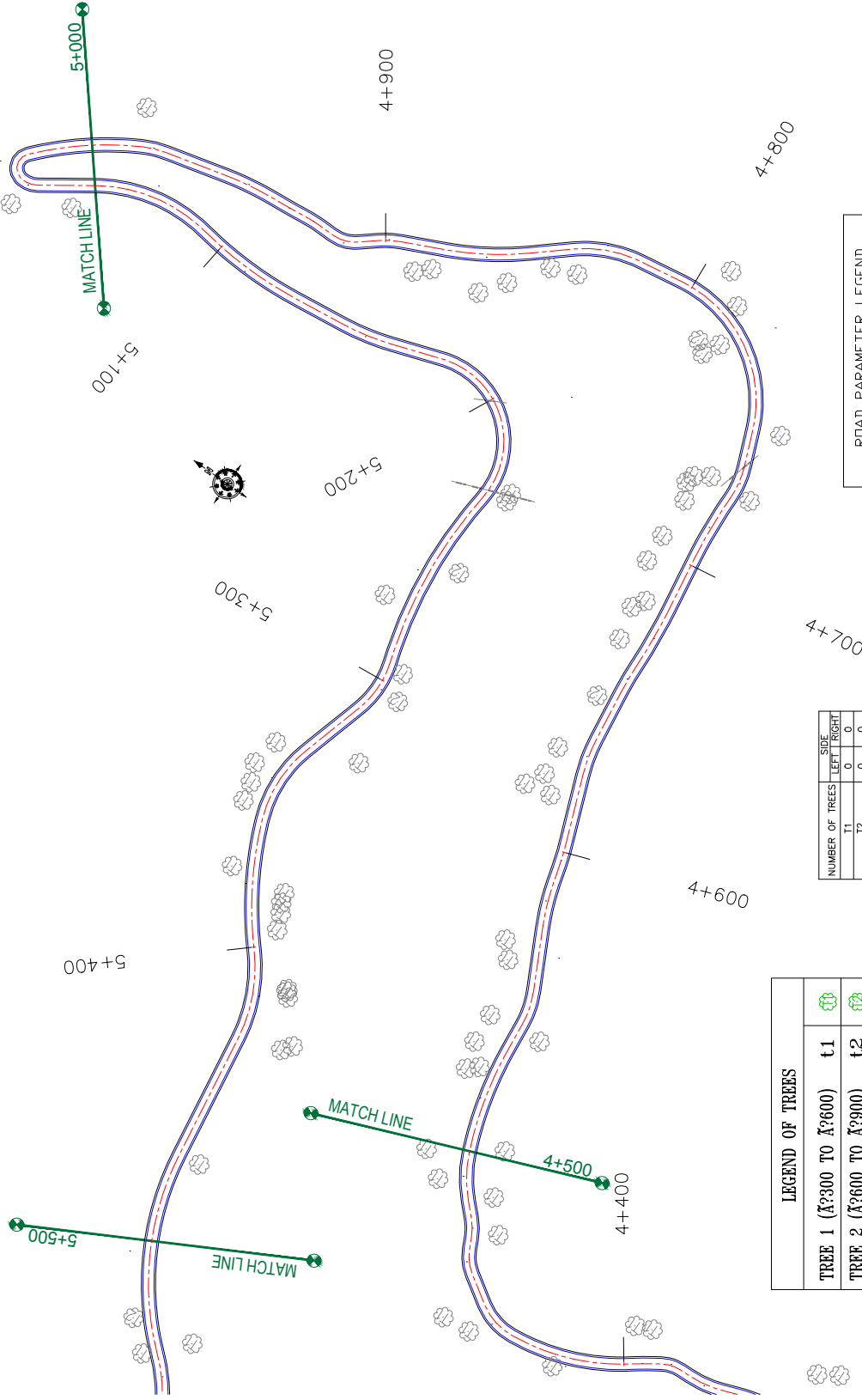
CLIENT:
 Jhelum Talavi Flood Recovery Project
 2nd Floor ERA Commercial Complex Rambagh
 Srinagar-190 009.

PROJECT:
 Consultancy Services for Preparing Detailed Project Report
 for the Road works in Jammu and Kashmir
 (Malaini to Chakrabatti Road in Doda District)

DESIGN CONSULTANT:
epitisa *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.epitisa.com

REV	DATE	DESCRIPTION	SCALE	TITLE
			1:1000	TREE CUTTING (Ch. 4+000 to Ch. 4+500)
				DRG. NO. : EPTISAJTFRRPDRJ8K7C107
				REVISION : R-1
				September 2019

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



LEGEND OF TREES

TREE 1 (A?300 TO A?600)	t1	
TREE 2 (A?600 TO A?900)	t2	
TREE 3 (A?900 TO A?1200)	t3	
TREE 4 (A?1200 TO ABOVE)	t4	

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	0	0
T2	0	0
T3	0	0
T4	00	00

ROAD PARAMETER LEGEND

EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

CLIENT:



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

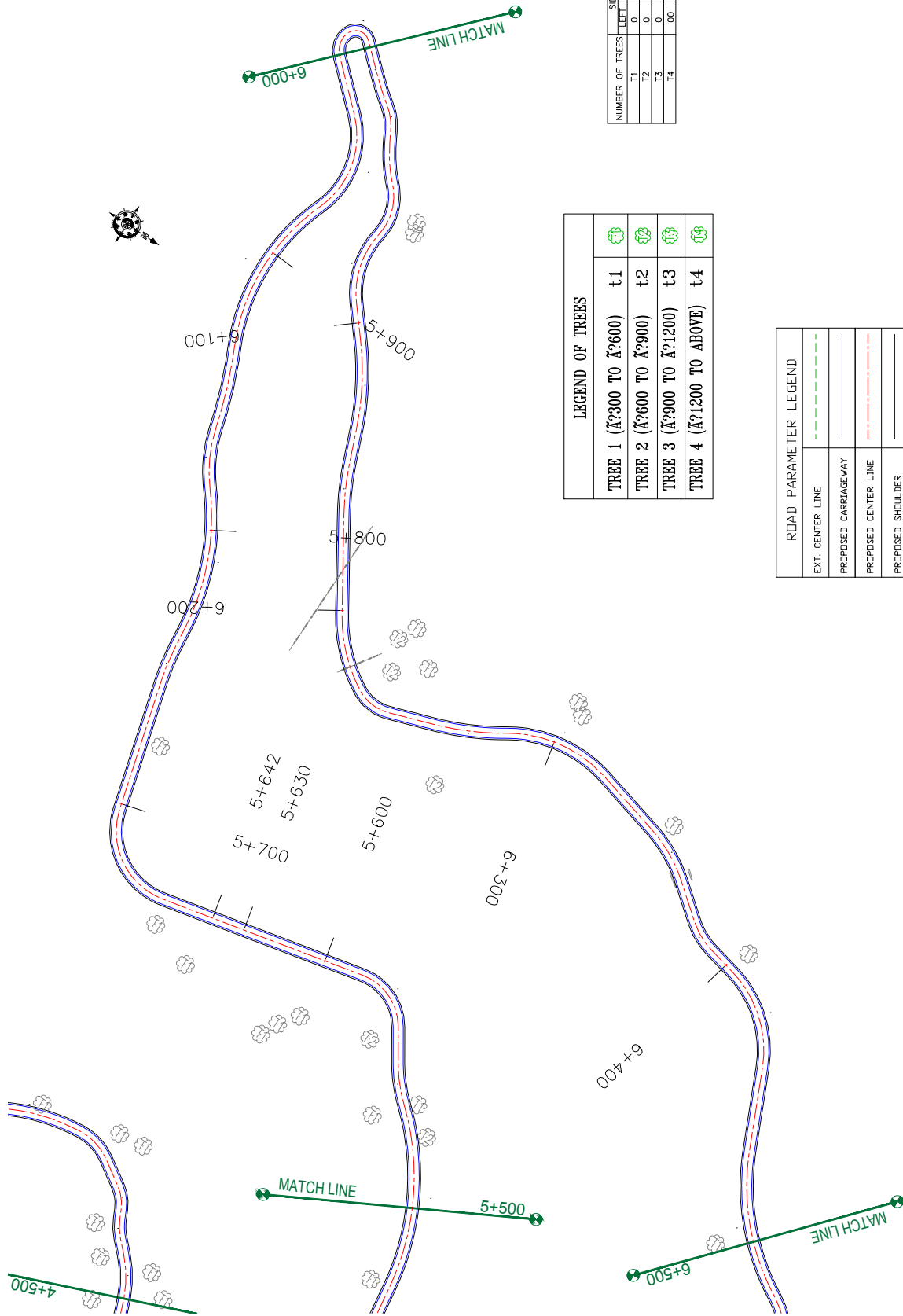
PROJECT:

Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir
(Malaini to Chakrabatti Road in Doda District)

DESIGN CONSULTANT:

epitisa *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.epitisa.com

REV	DATE	DESCRIPTION	SCALE	1:1000
DRAWN BY:	SD	TITLE:	TREE CUTTING	
DESIGNED BY:	SCK/MM	(Ch. 4+500 to Ch. 5+500)		
APPROVED BY:	KG	DRG. NO.:	EPTISAJTRPRDPRJ8K7C08	
REVISION: R-1				September 2019

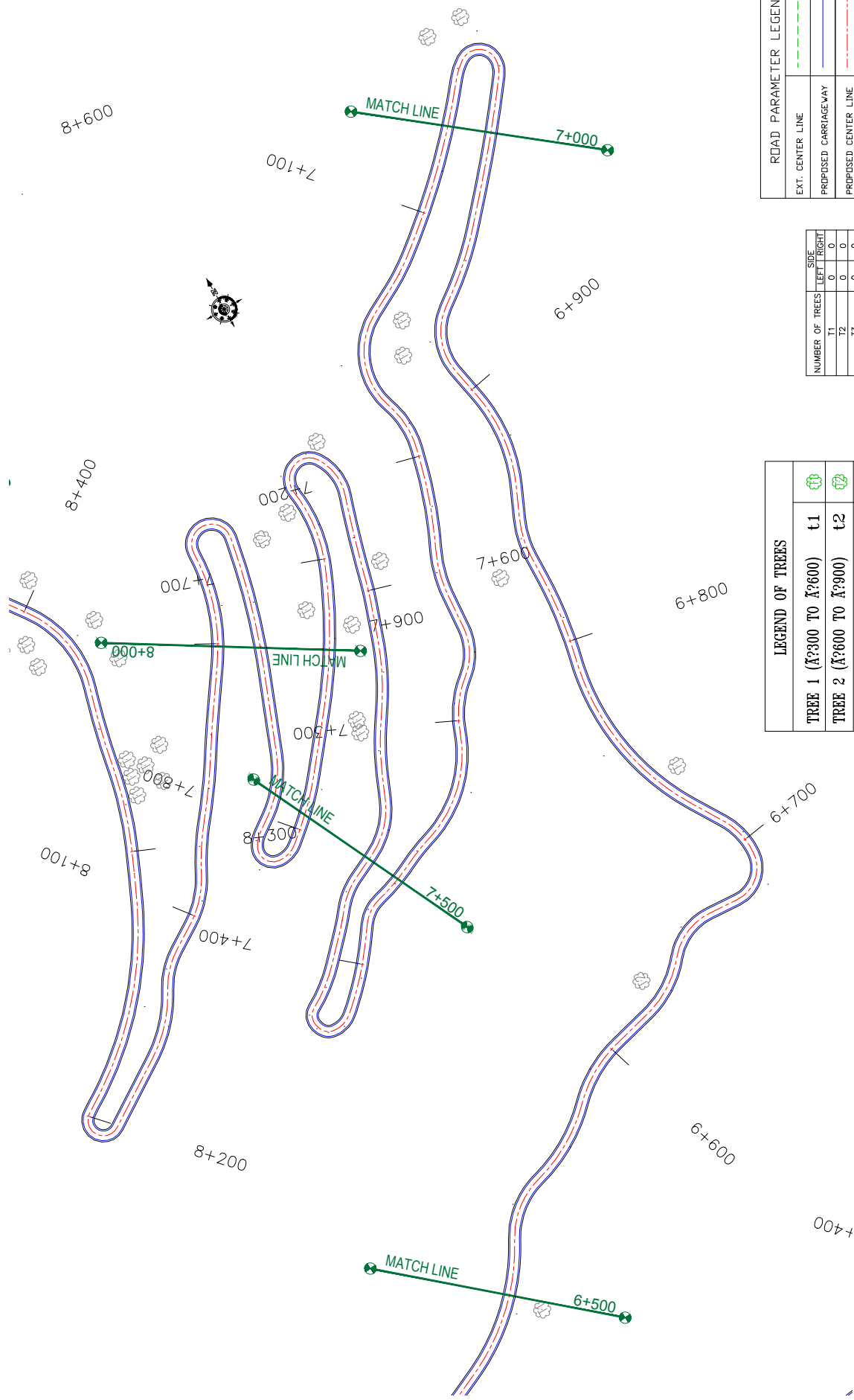


LEGEND OF TREES	
TREE 1 (A?300 TO A?600)	t1
TREE 2 (A?600 TO A?900)	t2
TREE 3 (A?900 TO A?1200)	t3
TREE 4 (A?1200 TO ABOVE)	t4

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	0	0
T2	0	0
T3	0	0
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 works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)	DESIGN CONSULTANT:  eptisa 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	TITLE: TREE CUTTING (Ch. 5+500 to Ch. 6+500)	SD SCK/MM
			SCALE: 1:1000	REVISION: R-1
REV.	DATE	DESCRIPTION	DRAWN BY:	APPROVED BY:
DESIGNED BY:	APPROVED BY:	DRG. NO.: EPTISAJTRPRDPRJ8K7C109	SCALE:	DATE:



LEGEND OF TREES	
TREE 1 (A?300 TO A?600)	T1
TREE 2 (A?600 TO A?900)	T2
TREE 3 (A?900 TO A?1200)	T3
TREE 4 (A?1200 TO ABOVE)	T4

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

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	0	0
T2	0	0
T3	0	0
T4	00	00

<p>CLIENT:</p>  <p>Jhelum Talavi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.</p>	<p>PROJECT:</p> <p>Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)</p>	<p>DESIGN CONSULTANT:</p>  <p>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</p>
<p>DRAWN BY: SD</p> <p>DESIGNED BY: SCK/MM</p> <p>APPROVED BY: KG</p> <p>SCALE: 1:1000</p>	<p>TITLE: TREE CUTTING (Ch. 6+500 to Ch. 8+000)</p> <p>DRG. NO.: EPTISAJTRPRDPRJ08K7C/10</p> <p>REVISION: R-1</p>	<p>DATE:</p> <p>DESCRIPTION:</p>

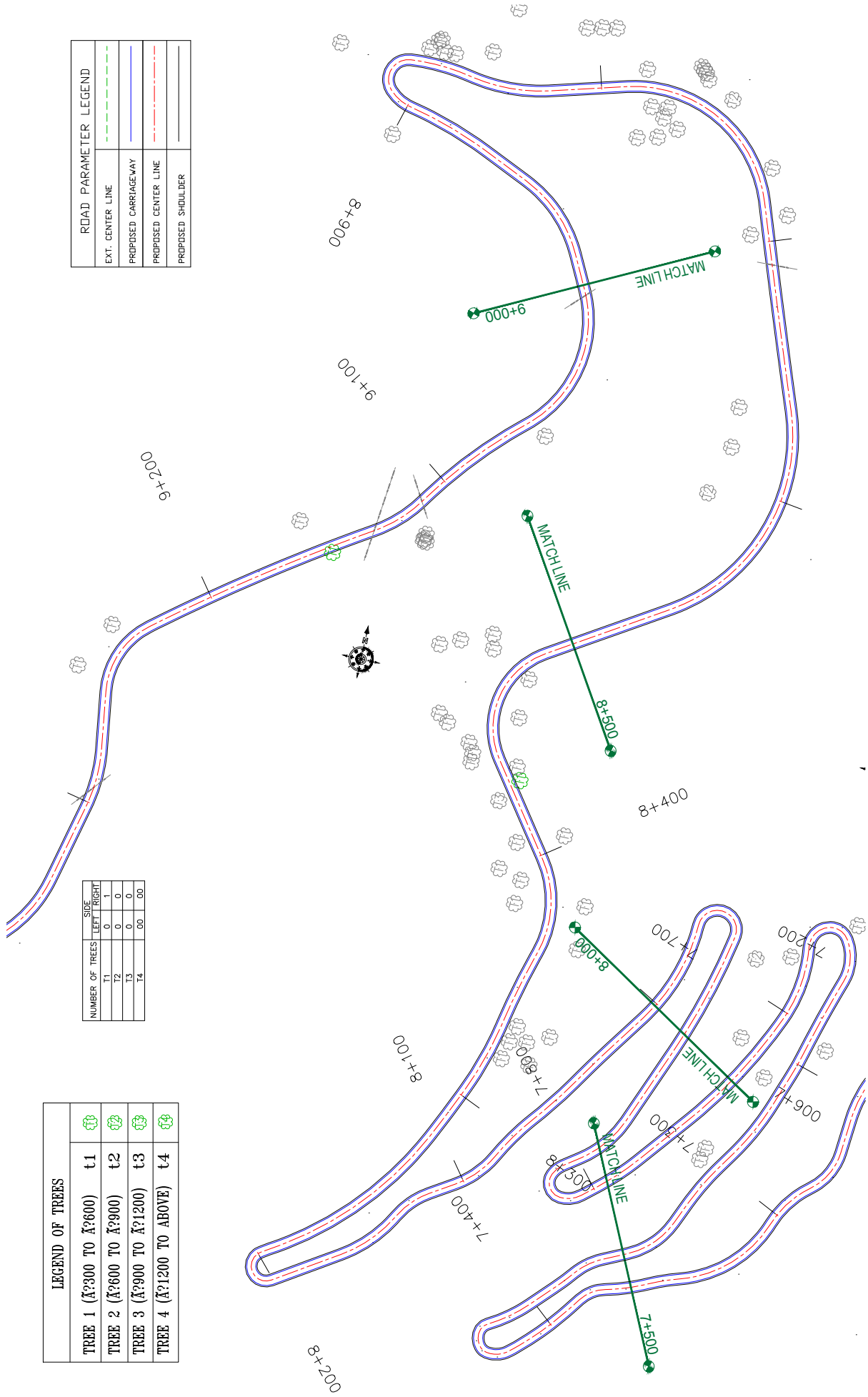
LEGEND OF TREES

TREE 1 (A?300 TO A?600)	t1	
TREE 2 (A?600 TO A?900)	t2	
TREE 3 (A?900 TO A?1200)	t3	
TREE 4 (A?1200 TO ABOVE)	t4	

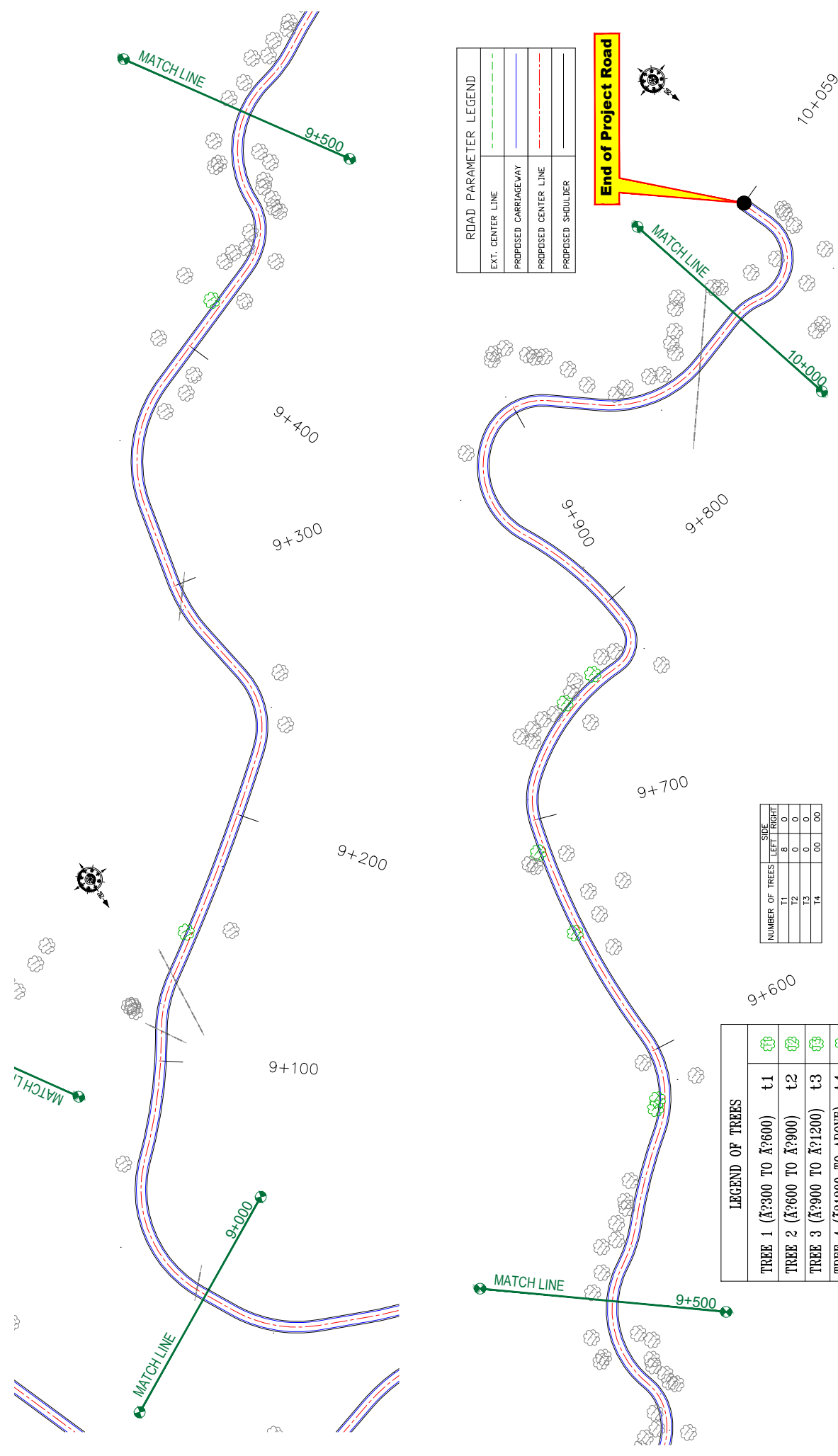
NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	0	1
T2	0	0
T3	0	0
T4	00	00

ROAD PARAMETER LEGEND

EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	



CLIENT:	 Jhelum Talavi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.	PROJECT:	Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)	
			DESIGN CONSULTANT:	servicios de Ingenieria S.L. epi sa 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.epiisa.com
DRAWN BY: SD		TITLE: TREE CUTTING		
DESIGNED BY: SCK/MM		(Ch. 8+000 to Ch. 9+000)		
APPROVED BY: KG		DRG. NO.: EPTISAJTFRRPDRJ8K7C/11		
SCALE: 1:1000		REVISION: R-1		
REV.	DATE	DESCRIPTION	REVISION: R-1	
			September 2019	



ROAD PARAMETER LEGEND

EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

End of Project Road

NUMBER OF TREES

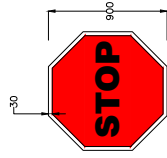
	SIDE	
	LEFT	RIGHT
T1	8	0
T2	0	0
T3	0	0
T4	00	00

LEGEND OF TREES

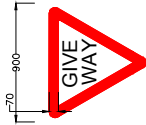
TREE 1 (A:300 TO A:600)	t1
TREE 2 (A:600 TO A:900) <th>t2</th>	t2
TREE 3 (A:900 TO A:1200) <th>t3</th>	t3
TREE 4 (A:1200 TO ABOVE) <th>t4</th>	t4

CLIENT:	 <p>Jhelum Talavi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.</p>		PROJECT:	<p>Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)</p>	
	DESIGN CONSULTANT:	<p>epi <i>servicios de Ingenieria S.L.</i> 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.epiisa.com</p>		DESCRIPTION:	
DRAWN BY:	SD	TITLE:	TREE CUTTING		
DESIGNED BY:	SCK/MM		(Ch. 9+000 to Ch. 10+059)		
APPROVED BY:	KG	DRG. NO.:	EPTISAJTRPRDRJ8K7C12		
SCALE:	1:1000	REVISION:	R-1		
REV.	DATE				September 2019

☰ MISCELLANEOUS DRAWINGS ☰



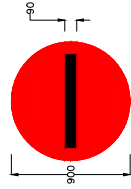
STOP SIGNS
Fig. 14.01
[MS-1]



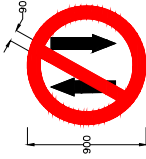
GIVE WAY
Fig. 14.02
[MS-2]



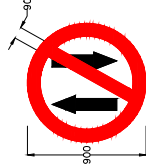
HORN PROHIBITED
Fig. 14.18
[MS-3]



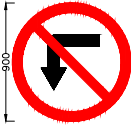
NO ENTRY
Fig. 14.19
[MS-4]



ONE WAY
Fig. 14.20
[MS-5]



ONE WAY
Fig. 14.20
[MS-6]



LEFT TURN PROHIBITED
Fig. 14.21
[MS-7]



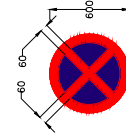
RIGHT TURN PROHIBITED
Fig. 14.22
[MS-8]



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]



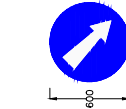
COMPULSORY
TURN RIGHT
Fig. 14.46
[MS-17]



COMPULSORY
TURN LEFT
Fig. 14.47
[MS-18]



COMPULSORY KEEP LEFT
Fig. 14.48
[MS-19]



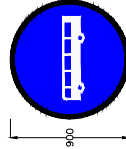
COMPULSORY KEEP RIGHT
Fig. 14.49
[MS-20]



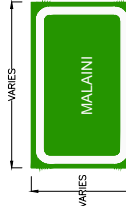
PASS EITHER SIDE
Fig. 14.50
[MS-21]



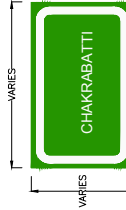
MINIMUM SPEED LIMIT
Fig. 14.51
[MS-22]



BUS WAY/BUSES ONLY
Fig. 14.56
[MS-23]





PLACE IDENTIFICATION SIGN
Fig. 16.06
[MS-01]

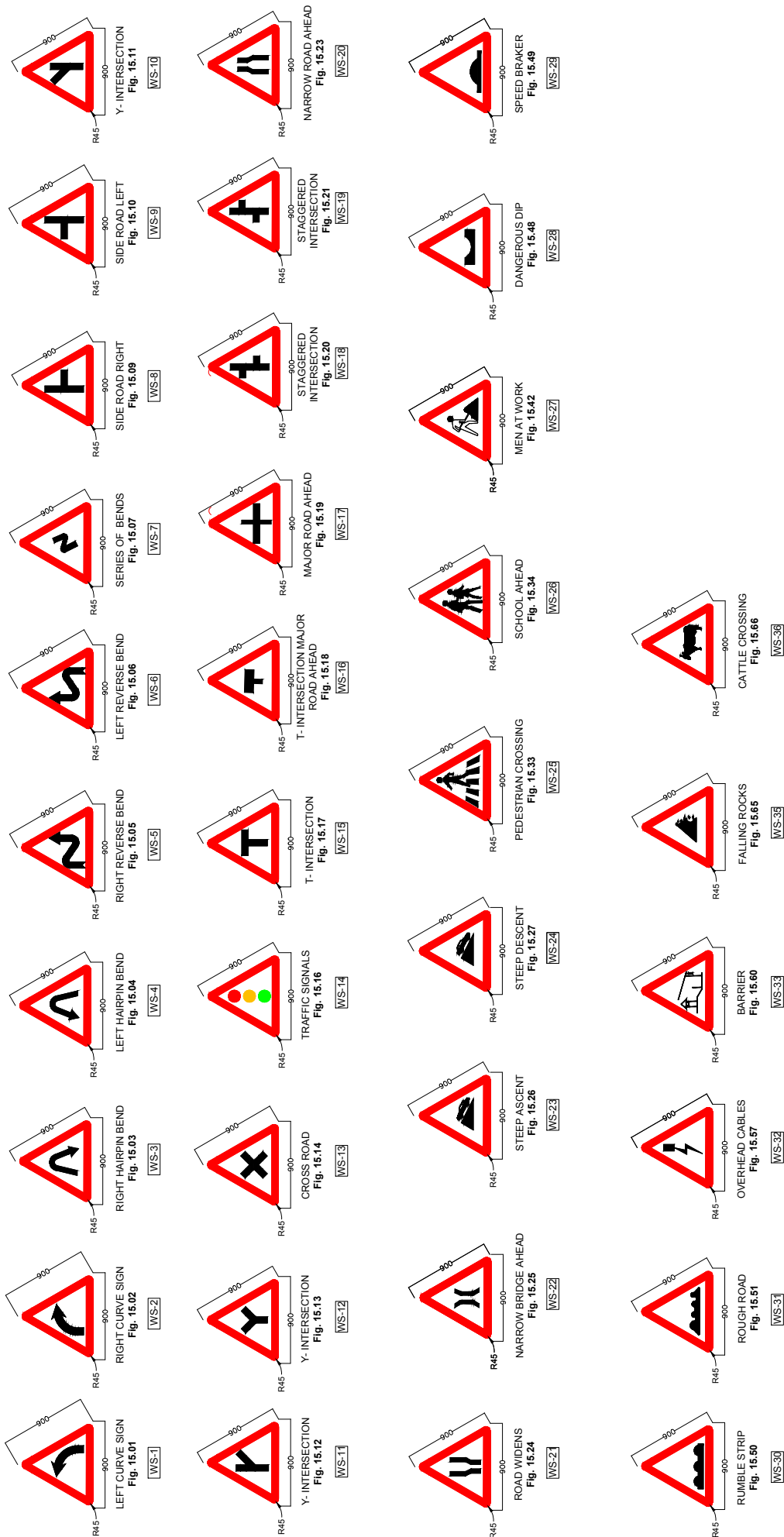


PLACE IDENTIFICATION SIGN
Fig. 16.06
[MS-02]

Notes:



- Road signs shall be erected as per IRC:67-2012.
- Sizes of arrows, letters and numerals for road signs shall be as per IRC:67-2012.
- Route marker signs, letters and numerals shall be erected as per IRC:2-1968.
- 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.
- All items indicated in this drawing may not be relevant for the subject project, these shall be used depending upon the requirement.
- Besides the above, standards and specifications mentioned in IRC : SP : 73-2015 shall be followed strictly whenever applicable.
- All dimensions are in millimetres unless otherwise mentioned.

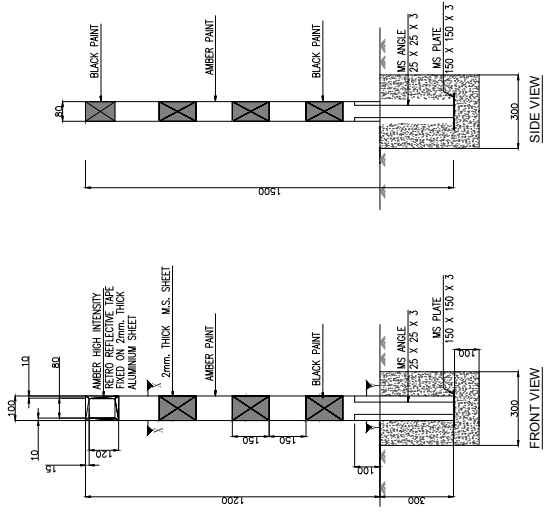
 Jhelum Talavi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.	PROJECT : Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)	DESIGN CONSULTANT:  Eptisa Servicios de Ingeniería S.L Unit 1203, 12th Floor, Tower 1, P5 Srijan Corporate Park, Plot No. 2, Block EP & GP, Sector V, Salt Lake Kolkata - 700091, West Bengal Ph: 033-40347200 www.eptisa.com	TITLE : Road Signs & Road Delineators
	CLIENT :	DRAWN BY : SD DESIGNED BY : SK/MM APPROVED BY : KG SCALE : N.T.S	REV : DATE : DESCRIPTION :



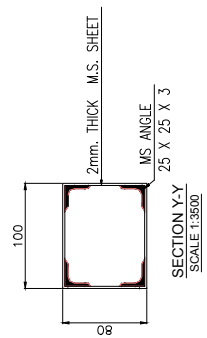
Notes:

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-79-2015 shall be followed strictly whenever applicable.
5. All dimensions are in millimetres unless otherwise mentioned.

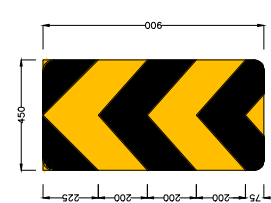
CLIENT:	PROJECT:		TITLE:
	 Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-180 009.		
DESIGN CONSULTANT:	 Eptisa <i>Servicios de Ingeniería S.L</i> Unit 1203, 12th Floor, Tower 1, P5 Srijan Corporate Park, Plot No. 2, Block EP & GP, Sector V, Salt Lake Kolkata - 700091, West Bengal Ph: 033-40347200 www.eptisa.com	DRAWN BY:	SD
		DESIGNED BY:	SCK/MM
PROJECT:	Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malawi to Chakrabatti Road in Doda District)	APPROVED BY:	KG
		SCALE:	N.T.S
REV.	DATE	DESCRIPTION	REV.
		DRG. NO. : EPTISAJTFRPPDRPJ&K/MISC/01 (Sheet 02 of 03)	REVISION : R-1
			SEPTEMBER 2019



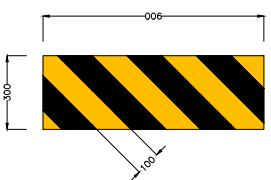
ROAD DELINEATORS
[TA-6]
SCALE 1:15000



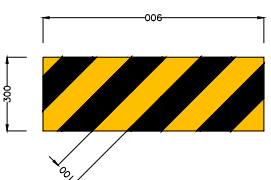
SECTION Y-Y
SCALE 1:3500
SECTION X-X
SCALE 1:3500



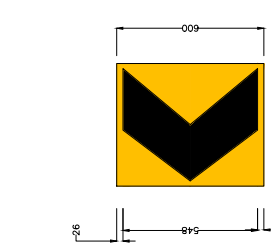
TWO WAY HAZARD MARKER
Fig. 15.78
[TA-4]
SCALE 1:15000



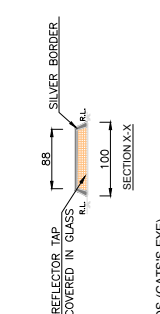
OBJECT HAZARD (RIGHT)
Fig. 15.77
[TA-3]
SCALE 1:15000



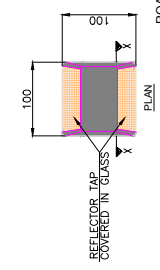
OBJECT HAZARD (LEFT)
Fig. 15.76
[TA-2]
SCALE 1:15000





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

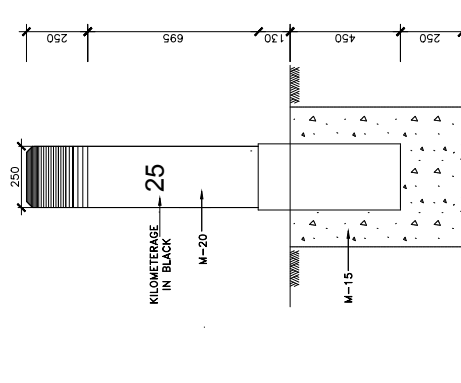


ROAD STUDS (CAT'S EYE)
[TA-7]
SCALE 1:5000

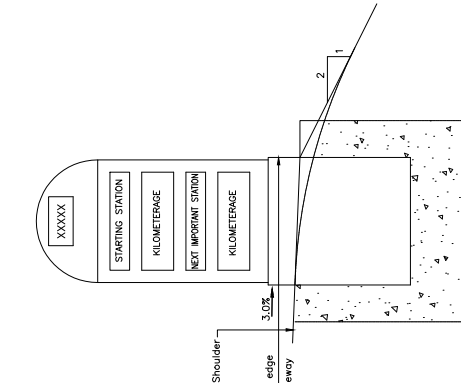


- Notes:**
- Road signs shall be erected as per IRC:67-2012.
 - Sizes of arrows, letters and numerals for road signs shall be as per IRC:67-2012
 - All items indicated in this drawing may not be relevant for the subject project, these shall be used depending upon the requirement.
 - Besides the above,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

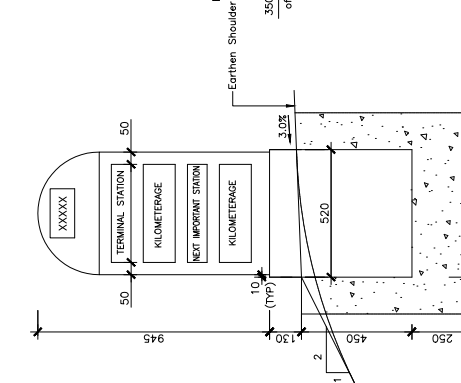
CLIENT:  Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.	PROJECT: Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)	DESIGN CONSULTANT:  Eptisa <i>Servicios de Ingeniería S.L</i> Unit 1203, 12th Floor, Tower 1, P5 Srijan Corporate Park, Plot No. 2, Block EP & GP, Sector V, Salt Lake Kolkata - 700091, West Bengal Ph: 033-40347200 www.eptisa.com	TITLE: Road Signs & Road Delineators
			DRAWN BY : SD DESIGNED BY : SCK/MM APPROVED BY : KG SCALE : AS SHOWN
REV. DATE DESCRIPTION	REV. DATE DESCRIPTION	REV. DATE DESCRIPTION	REVISION : R-1 September 2019



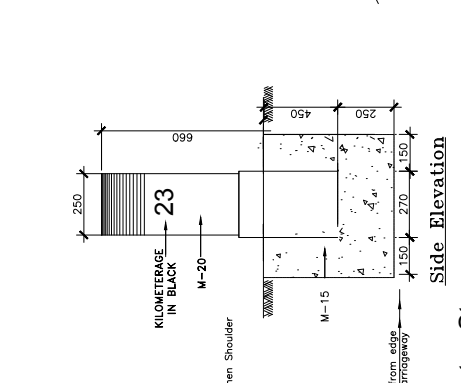
Side Elevation



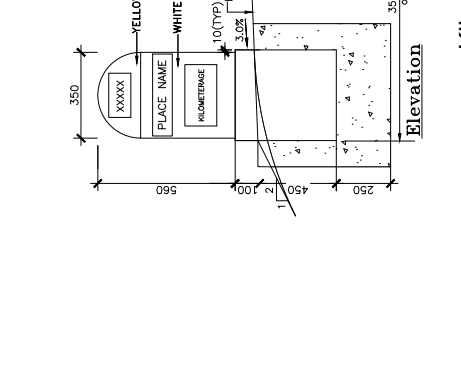
Face - II Elevation



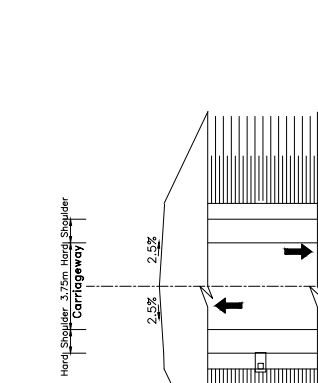
Face - I Elevation



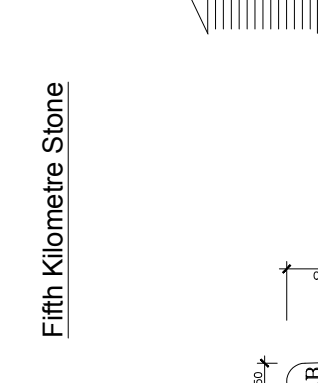
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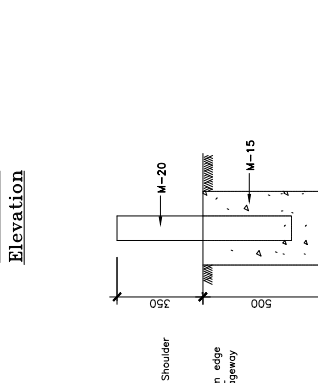
Elevation



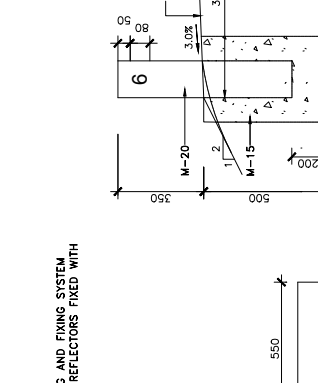
Plan



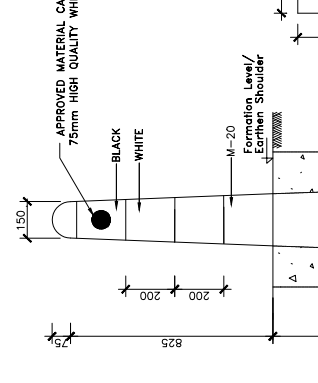
Plan



Side Elevation



Front Elevation



Elevation

200 metre Stone

200 metre Stone

200 metre Stone

200 metre Stone

200 metre Stone

Guard Post

Guard Post

Guard Post

Guard Post

Guard Post

Fifth Kilometre Stone

Fifth Kilometre Stone

Fifth Kilometre Stone

Fifth Kilometre Stone

Fifth Kilometre Stone

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.



Boundary Stone

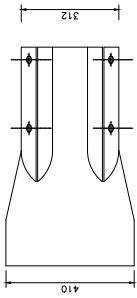
Boundary Stone

Boundary Stone

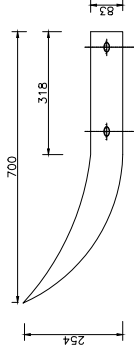
Boundary Stone

Boundary Stone

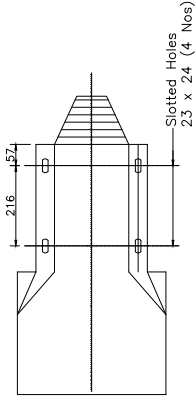
CLIENT :	 Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.		
	PROJECT : Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)		
DESIGN CONSULTANT :	 Eptisa <i>Epita</i> <i>Servicios de Ingeniería S.L</i> 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		
DRAWN BY :	SD	TITLE :	Typical Details of Distance Stone, Boundary Stone & Guard Post
DESIGNED BY :	SCK/MM	APPROVED BY :	KG
APPROVED BY :	KG	SCALE :	N.T.S
REV.	DATE	DESCRIPTION	REVISION : R-1
			September 2019



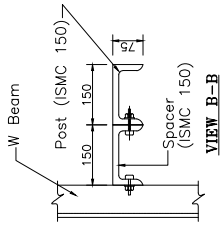
ROUNDED END SECTION
SIDE VIEW



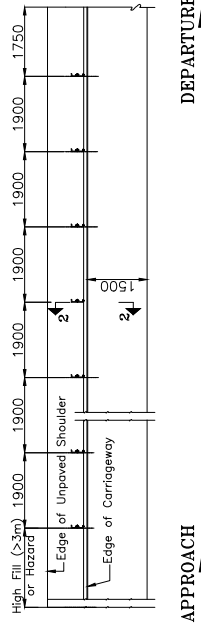
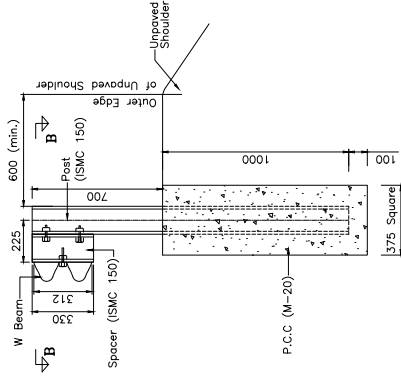
TOP VIEW OF ROUNDED END SECTION



ROUNDED END SECTION
SIDE VIEW



VIEW B-B



PLAN OF APPROACH END

- Notes:**
- All dimensions are in millimetres unless otherwise mentioned
 - Suitable reflectors are to be provided on W-beam at a spacing of 3 m c/c
 - All holes in posts and blocks shall be 21.5mm max.
 - W-beam shall be as per IS : 5986 - 1992 and post, spacers etc. shall be as per IS : 2082 - 1992
 - W-beam, posts & spacers shall be hot dip galvanized as per specifications
 - Besides the above, standards and specifications mentioned in IRC : SP : 73-2015 shall be followed whenever applicable.
 - Welding (Shielding and welding) 5 "W" mild beam crash barrier consisting of 3 mm thick structural sheet (Fe-510) metal beam roll, 70 mm above road/ground level fixed on ISMC (Fe-410) series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 1.8 m high, 1.1 m below ground/road level, all steel parts and fittings to be hot dip galvanized as per specifications.
 - IS-5986 and for post and spacer IS-2082; metal beam roll to be fixed on the vertical post with a spacer of channel section 150 x 75 x 5 mm, 350 mm long complete as per clause 810)



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

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
(Malaini to Chakrabatti Road in Doda District)

DESIGN CONSULTANT:

eptisa
Eptisa Servicios de Ingeniería 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

TITLE :

Details of Metal Beam Crash Barrier

DRAWN BY :

SD

DESIGNED BY :

SCK/MM

APPROVED BY :

KG

SCALE :

N.T.S

REV

DATE

DESCRIPTION

DRG. NO. :

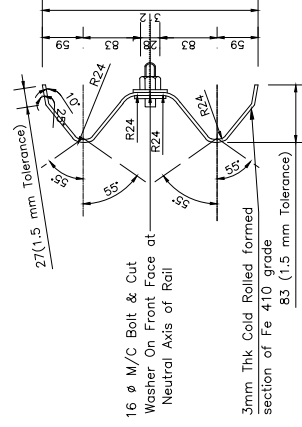
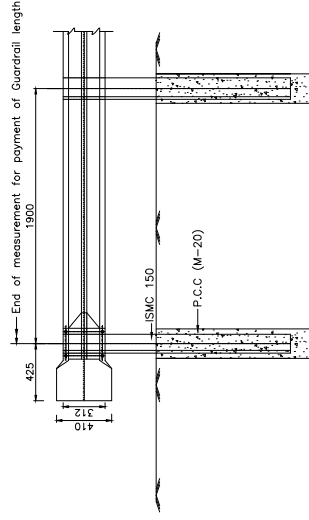
EPTISAJTFRPDRPJ8K/MISC/03

REVISION :

R-1

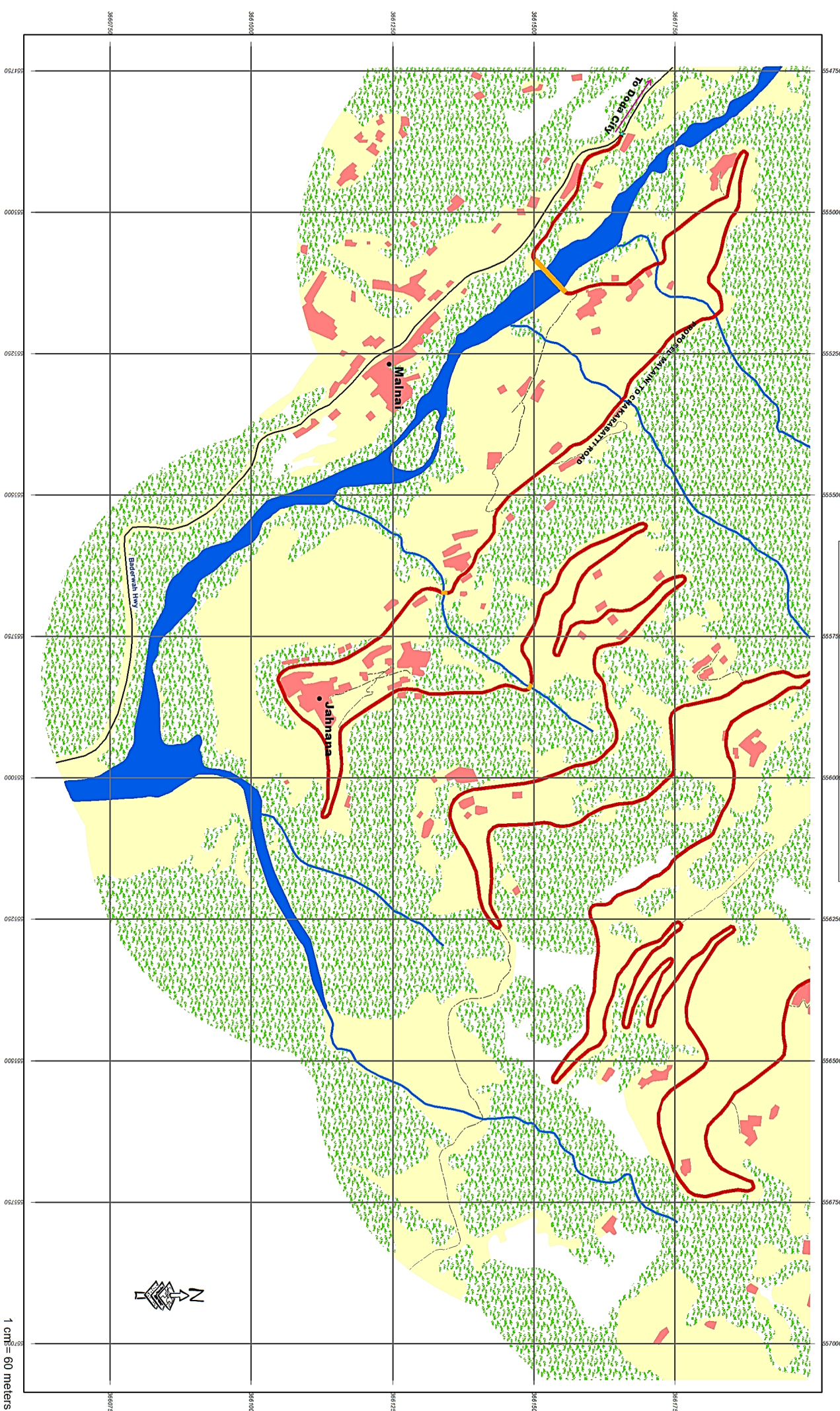
SEPTEMBER 2019

DETAIL OF BREAKAWAY CABLE ANCHOR ASSEMBLY



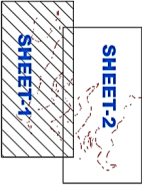
W-BEAM

MALAINI TO CHAKARABATTI ROAD



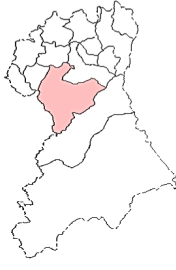
1 cm = 60 meters

INDEX MAP



Legend

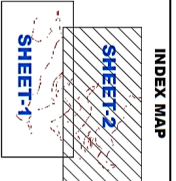
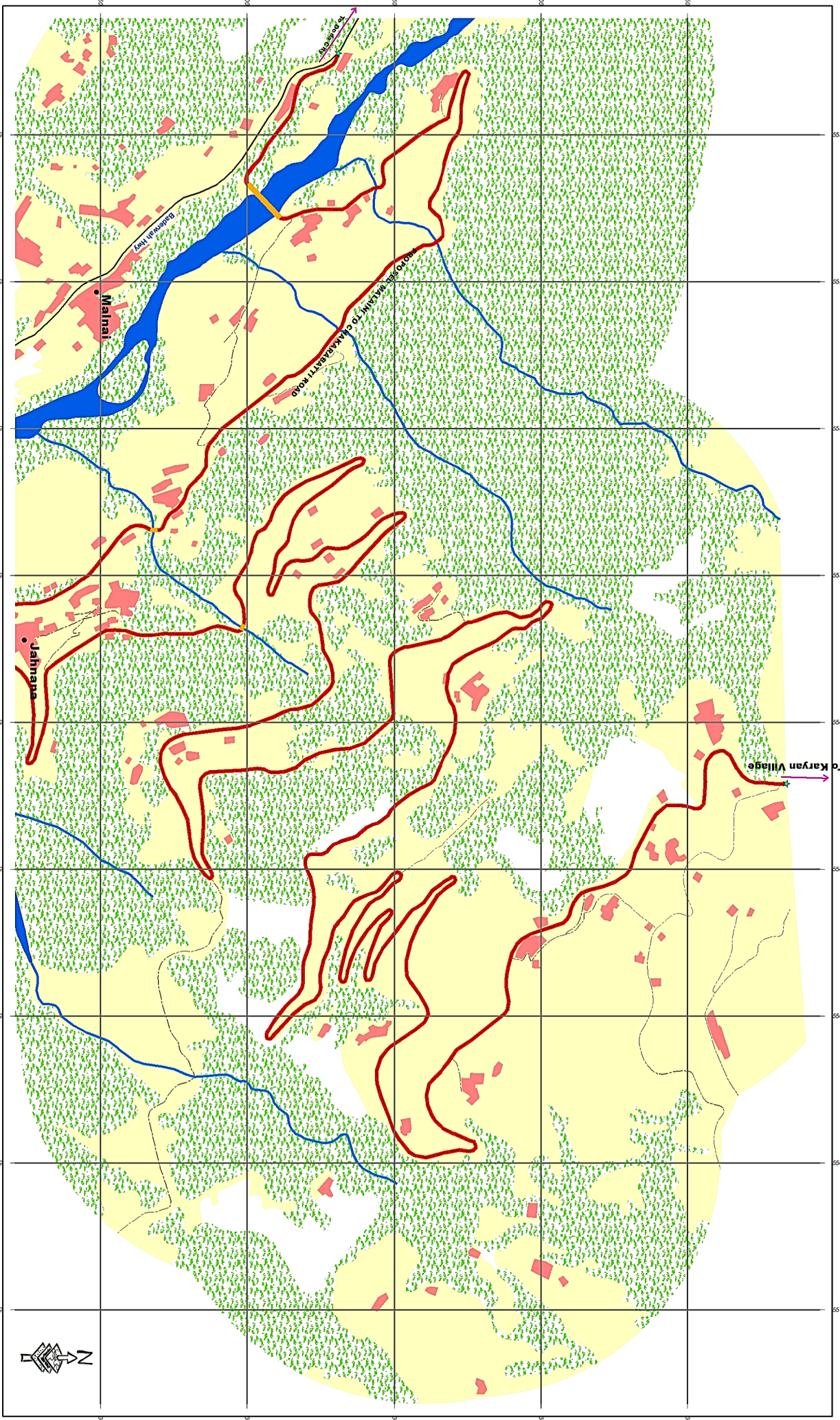
- ▲ Importance Landmark
- ★ Start End Point
- Village Name
- Park
- Bridge
- Restricted Area
- Road Centreline
- Proposed Road
- Major Road
- Other Road
- Building
- Forest
- Water
- Swamp
- Vegetation
- Swamp Area
- Open/Agriculture Land



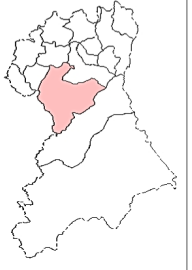
Project: JHELUM TAWI FLOOD RECOVERY PROJECT
Sub-Project: FOR RECONSTRUCTION OF MALAINI TO CHAKARABATTI ROAD UNDER JAMMU DIVISION
Agency: PROJECT MANAGEMENT UNIT JFRP



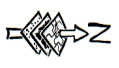
MALAINI TO CHAKARABATTI ROAD



- Legend**
- ▲ Importance Landmark
 - ★ Start End Point
 - Village Name
 - Park
 - Bridge
 - Restricted Area
 - Road Centreline
 - Proposed Road
 - Major Road
 - Other Road
 - Building
 - Forest
 - Water
 - Swamp
 - Vegetation
 - Swamp Area
 - Open/Agriculture Land



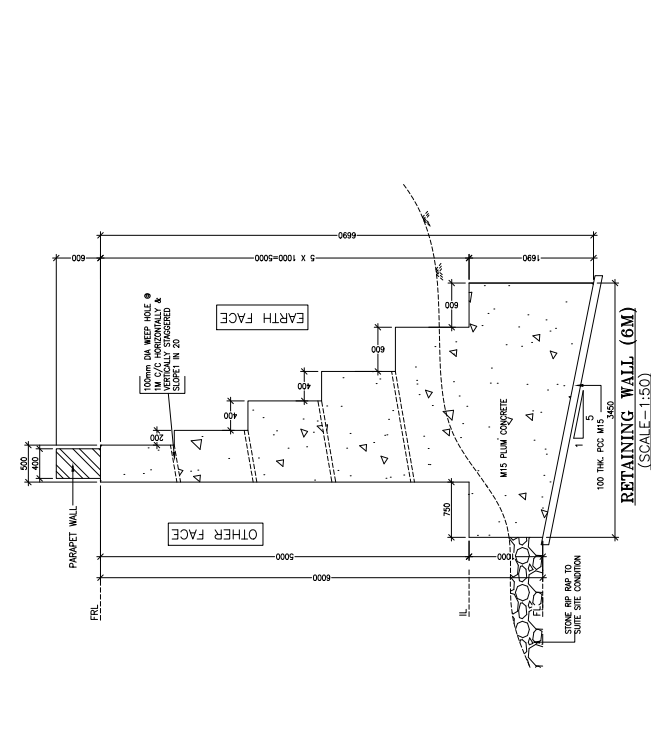
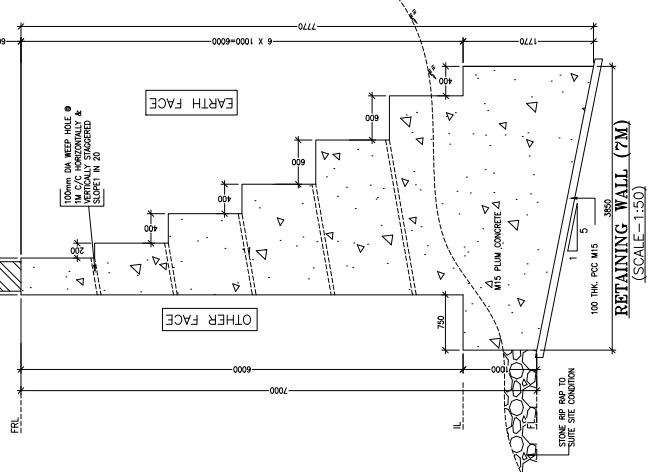
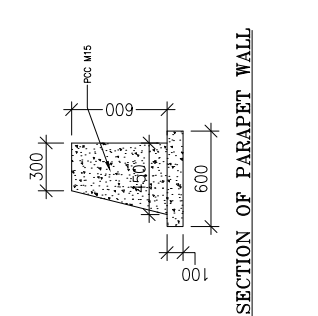
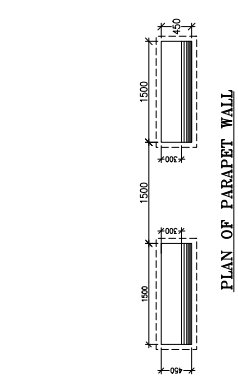
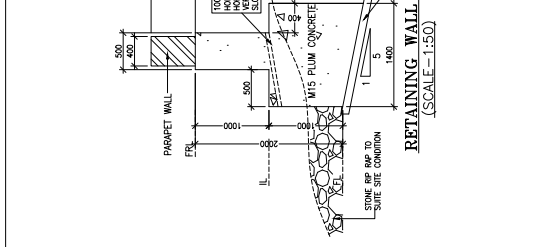
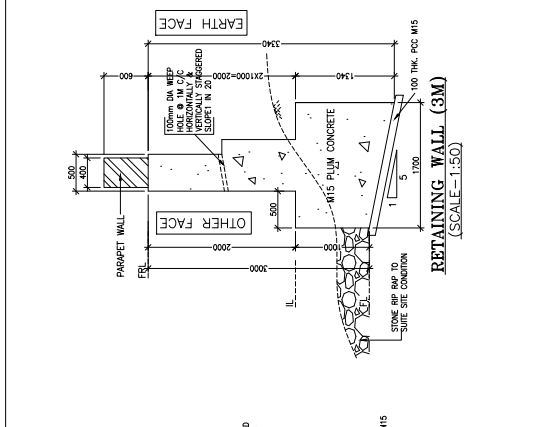
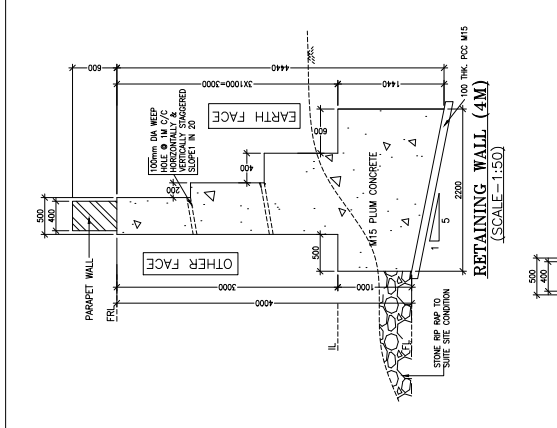
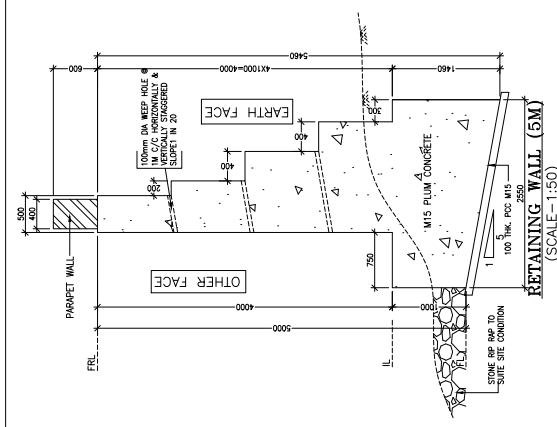
Project: JHELUM TAWI FLOOD RECOVERY PROJECT
Sub-Project: FOR RECONSTRUCTION OF MALAINI TO CHAKARABATTI ROAD UNDER JAMMU DIVISION
Agency: PROJECT MANAGEMENT UNIT JTFRP



1 cm = 60 meters



DETAILS OF PCC RETAINING WALL



NOTES:-

1. ALL DIMENSIONS ARE IN MM, UNLESS OTHERWISE MENTIONED.
2. DIMENSIONS SHALL BE FOLLOWED, UNLESS WRITTEN OTHERWISE.
3. 100mm DIA WEP HOLE @ 1200mm C/C SHALL BE PROVIDED IN C/C HORIZONTAL & VERTICALLY STAGGERED (STAGGERED IN FULL HEIGHT OF THE RETAINING WALL WITH 150mm CLEARANCE FROM THE TOP & BOTTOM).
4. BACK FILLING AND FILLER MEDIA BEHIND THE RETAINING WALL SHALL BE PROVIDED WITH SELECTED EARTH CONFORMING TO APPENDIX 8 OF REC-2000 HAVING PERMEABILITY $< 10^{-7}$ cm/s.
5. ALL PLUMS SHALL BE LAID ON A BED OF 100mm THICK PCC M15.
6. CONCRETE WITH PLUM REFER SPECIFICATIONS FOR PLUM CONCRETE WITH PLUM REFER SPECIFICATIONS FOR PLUM CONCRETE WITH PLUM.

PLUM CONCRETE SPECIFICATIONS:

THE SIZE OF STONE PLUMS MAY BE FROM 150-200MM, THE MAXIMUM DIMENSION OF THESE STONES OR PLUMS SHALL NOT EXCEED 1/3RD OF THE LEAST DIMENSION OF THE ADJACENT.

MATERIAL:

ALL PLUMS SHALL BE HARD, DURABLE, CLEAN AND FREE FROM IMPURITIES, WHICH MAY CAUSE WEAKENING OR DELAYED SETTING IN THEM & SHALL NOT HAVE SHAPE:

CONSTRUCTION OPERATIONS:

DURING CONCRETING THE FIRST LAYER OF CONCRETE OF THE PARAPET WALL SHALL BE LAID ON A BED OF 100mm THICK M15 PCC. WHILE THE TOP PORTION OF THE CONCRETE IS STILL GREEN, THE PLUMS SHALL BE LAID ON THE TOP SURFACE OF THE CONCRETE. THE PLUMS UNDER THEIR OWN WEIGHT, THESE PLUMS SHALL BE EXPOSED TO AIR TO CURE IN PLACE WITH THE NEXT LAYER OF CONCRETE. NO PLUM SHALL BE USED FOR CONCRETE LAD UNDER.

WHILE PLACING THE PLUMS, CARE SHALL BE TAKEN TO SEE THAT THE CLEAR DISTANCE BETWEEN ANY TWO PLUMS IS NOT LESS THAN 100mm. THE PLUMS SHALL BE LAID ON THE TOP SURFACE OF THE CONCRETE. THE PLUMS TO THE OUTER SURFACE FROM THE PLUMS TO THE INNER SURFACE SHALL BE LAID ON THEIR NATURAL BED. STONES WITH CONCAVE SPACES SHALL NOT BE USED. THE PLUMS SHALL BE LAID ON THE NEXT AND SUCCESSIVE LAYERS OF CONCRETE SHALL BE AT THE SAME LEVEL.

QUANTITY OF PLUMS:

THE TOTAL VOLUME OF PLUMS SHALL NOT EXCEED 1% OF THE VOLUME OF THE FINISHED CONCRETE.

MIX OF CONCRETE:

PLUM CONCRETE: 1:2:4 (C:O:S), 2 SAND, 4 ORDERED STONE APPROXIMATELY 40mm NOMINAL SIZE WITH 10% FILLER.

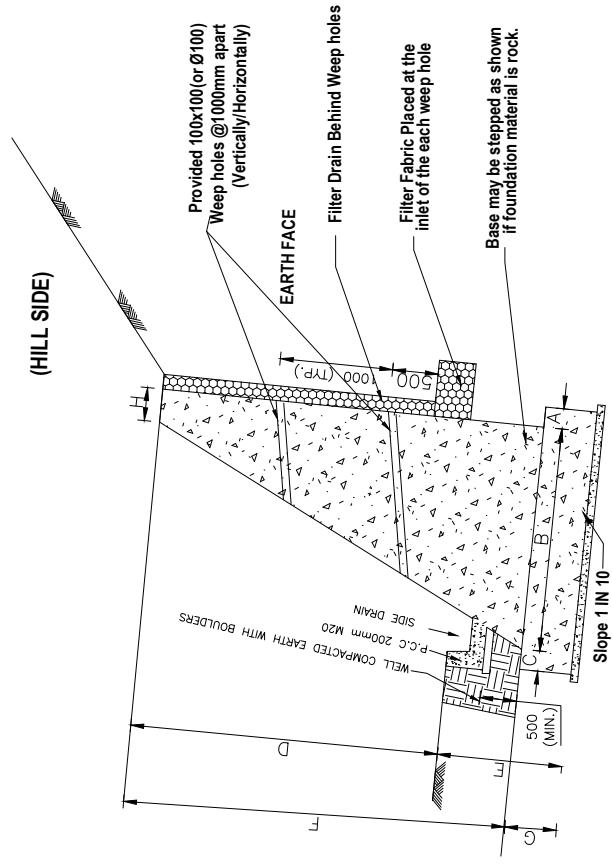
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	Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.				
REV	DATE	DESCRIPTION	SCALE	APPROVED BY :	DETAILS OF PCC RETAINING WALL
	DATE	DESCRIPTION	SCALE	APPROVED BY :	
REV	DATE	DESCRIPTION	SCALE	DESIGNED BY :	DRAWN BY :
REV	DATE	DESCRIPTION	SCALE	DESIGNED BY :	
REV	DATE	DESCRIPTION	SCALE	APPROVED BY :	SD
REV	DATE	DESCRIPTION	SCALE	APPROVED BY :	
REV	DATE	DESCRIPTION	SCALE	APPROVED BY :	SK/M/M
REV	DATE	DESCRIPTION	SCALE	APPROVED BY :	
REV	DATE	DESCRIPTION	SCALE	APPROVED BY :	KG
REV	DATE	DESCRIPTION	SCALE	APPROVED BY :	
REV	DATE	DESCRIPTION	SCALE	APPROVED BY :	N.T.S
REV	DATE	DESCRIPTION	SCALE	APPROVED BY :	
REV	DATE	DESCRIPTION	SCALE	APPROVED BY :	R-1
REV	DATE	DESCRIPTION	SCALE	APPROVED BY :	
REV	DATE	DESCRIPTION	SCALE	APPROVED BY :	EPTISA/JTFRP/DFR/J&K/RW-01
REV	DATE	DESCRIPTION	SCALE	APPROVED BY :	
REV	DATE	DESCRIPTION	SCALE	APPROVED BY :	September 2019
REV	DATE	DESCRIPTION	SCALE	APPROVED BY :	

episa
Eptisa Servicios de Ingenieria S.L.
Unit-1203, 12th Floor, Tower 1, PS Station
Corporate Park, Plot No. 2, Block EP & GP,
Sector-V, Salt Lake Kolkata - 700091,
West Bengal
Ph: 035-40347200
www.eptisa.com

DETAILS OF BREAST WALL

NOTES:—

- 1) ALL DIMENSIONS IN MILLIMETERS AND LEVELS IN METERS UNLESS WRITTEN OTHERWISE.
- 2) NO DIMENSION SHALL BE SCALED FROM THIS DRAWING, ONLY WRITTEN DIMENSION SHALL BE FOLLOWED.
- 3) GRADE OF PCC M20 (1:1.5:3)
- 4) SKIN/SURFACE REINFORCEMENT SHALL BE PROVIDED AS PER 8 ϕ @ 200mm C/C FOR WALL HEIGHT \geq 3M WITH MINIMUM CLEAR COVER OF 40mm.
- 5) THE SECTIONS ARE FOR GUIDANCE AND FOR ESTIMATION. EXACT STABILITY CALCULATIONS TO BE DONE WITH SITE PARAMETER.
- 6) BACK FILLING SHALL BE DONE AS PER APPENDIX-6 OF IRC:78
- 7) WEEP HOLES SHALL BE PROVIDED AT 1.0m c/c HORIZONTALLY AND VERTICALLY IN A STAGGERED MANNER.
- 8) LEVELLING COURSE BELOW SHOULD BE PROVIDED WITH SUITABLE OFFSET (0.15m Min.) TO RESTRICT BASE PRESSURE ON SOIL WITHIN PERMISSIBLE LIMITS.
- 9) WIDTH OF BASE SHALL BE INCREASED/DECREASED AS PER SEC REQUIREMENT.
- 10) THE PROPERTIES OF THE RETAINED EARTH/BACK FILL HAVE BEEN ASSUMED AS FOLLOWS:
 DRY DENSITY ---- 18 kN/m³
 ANGLE OF INTERNAL FRICTION ---- 30°
 ANGLE OF WALL FRICTION ---- 20°
 COHESION (c) = 0
- 11) FACTOR OF SAFETY FOR OVERTURNING IS 2.0 FOR NON SEISMIC CONDITION AND 1.5 FOR SEISMIC CONDITION.
- 12) WEEP HOLES SHALL BE PROVIDED IN MASONRY WALLS AT A SPACING OF 900MM IN EITHER DIRECTION.
- 13) SIZE OF PVC SHALL BE 100MM TO 150MM PVC.
- 14) IMPERVIOUS SILTY SOIL LAYER OR BACK FILL OF ABOUT 300MM ON THE TOP TO PREVENT SEEPAGE OF RAIN WATER IN THE BACKFILL OR IN FOUNDATION.
- 15) NATURAL GULLIES SHALL BE DIVERTED AWAY FROM THE SILT, SO THAT FLOW OF RAIN WATER DOES NOT CAUSE EROSION OF BREAST WALL ON TOPMOST TERRACE.
- 16) GRASS TURFING SHALL BE LAID ON THE GROUND SLOPE TO PREVENT EROSION.
- 17) SIDE WATER DRAINS SHALL BE AVOIDED NEAR THE TOP OF THE BREAST WALLS AS THEY ALLOW SEEPAGE OF WATER IN UNMAINTAINED CONDITIOS INTO THE OUT & DESTABILISE
- 18) SIDE WATER DRAINS TO BE PROVIDED AT THE TOE OF THE RETAINING WALLS
- 19) FOUNDATION TO BE 500MM BELOW THE SIDE DRAIN WITHIN SOIL OR HIGHLY JOINTED ROCK SIDE DRAIN
- 20) INCASE SIDE DRAINS AT TOE OF THE RETAINING WALL ARE NOT PROVIDED THEN DRY STONE PITCHING OF SIZE 150MM, MAY BE LAID ON SLOPE FOR A DISTANCE OF 1MTS BELOW THE TOE OF THE RETAINING WALLS.
- 21) FOR ERODABLE SOILS AND WEAK FOUNDATIONS (CLAY, WEAK SAND ETC.) GABION WALLS SHALL BE PREFERRED AS THEY WITH STAND HIGH DIFFERENTIAL SETTLEMENTS.



**TYPICAL CROSS SECTION OF BREAST WALL
(Embankment Section)**

Sl no.	Total Height Dimensions	1.75 m	2.25 m	2.75 m	3.25 m	3.75 m	4.25 m	4.75 m	5.25 m
1	A (in mm)	275	275	275	275	275	275	275	275
2	B (in mm)	990	1500	1740	1890	2250	2490	3018	3030
3	C (in mm)	275	275	275	275	275	275	275	275
4	D (in mm)	1000	1500	2000	2500	3000	3500	4000	4500
5	E (in mm)	750	750	750	750	750	750	750	750
6	F (in mm)	1250	1750	2150	2650	3150	3600	4100	4550
7	G (in mm)	500	500	600	600	600	650	650	700
8	H (in mm)	450	450	450	450	450	450	450	450
9	Base Pressure (in KN/m ²)	100	120	150	180	180	200	200	250

<p>CLIENT:</p>  <p>Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.</p>	<p>PROJECT:</p> <p>Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)</p>	<p>DESIGN CONSULTANT:</p>  <p>Eptisa Servicios de Ingeniería S.L. Unit 1.203, 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</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">DRAWN BY :</td> <td>SD</td> </tr> <tr> <td>DESIGNED BY :</td> <td>SK/M/M</td> </tr> <tr> <td>APPROVED BY :</td> <td>KG</td> </tr> <tr> <td>SCALE :</td> <td>N.T.S</td> </tr> <tr> <td>REVISION :</td> <td>R-1</td> </tr> </table>	DRAWN BY :	SD	DESIGNED BY :	SK/M/M	APPROVED BY :	KG	SCALE :	N.T.S	REVISION :	R-1	<p>TITLE :</p> <p style="text-align: center;">DIMENSION DETAIL OF BREAST WALL</p>
DRAWN BY :	SD													
DESIGNED BY :	SK/M/M													
APPROVED BY :	KG													
SCALE :	N.T.S													
REVISION :	R-1													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>		REV.	DATE	DESCRIPTION				<p style="text-align: right;">September 2019</p>						
REV.	DATE	DESCRIPTION												

≡ CULVERT DRAWINGS ≡

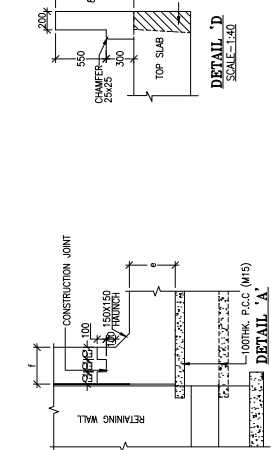
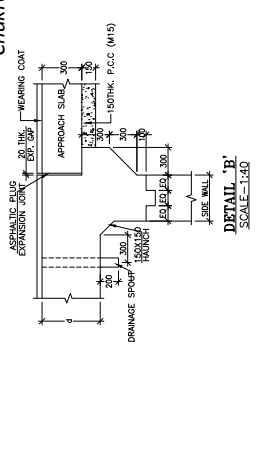
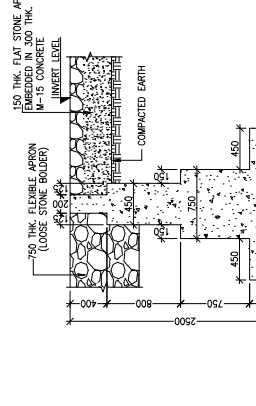
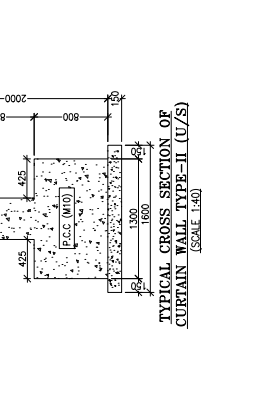
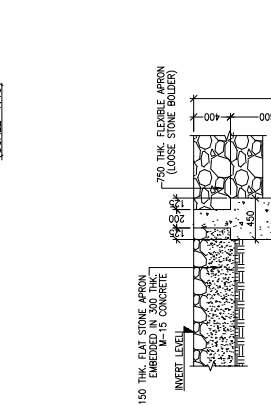
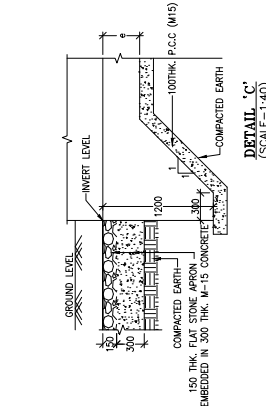
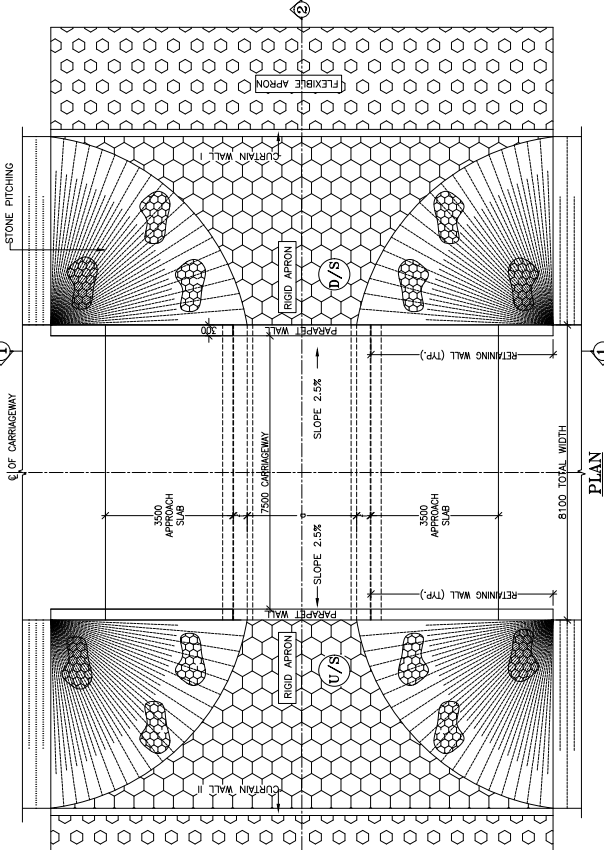
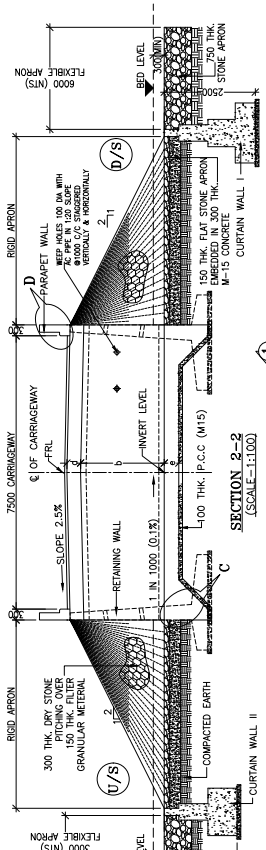


TABLE SHOWING SILENT DIMENSIONS

BOX CELL DESIGNATION	a (mm)	b (mm)	d (mm)	e (mm)	f (mm)
1/33/0	3000	3000	420	420	420
1/45/0	4000	3000	450	500	500

- NOTES:-
1. ALL DIMENSIONS ARE IN MILLIMETRES, LEVELS ARE IN METRES AND CHANGES ARE IN KILOMETRES, UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 2. THE WORK IS TO BE DONE IN CONJUNCTION WITH THE RELEVANT ROAD DRAWINGS AND SPECIFICATIONS.
 3. 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.
 4. GRADE OF CONCRETE FOR VARIOUS ELEMENTS SHALL BE AS FOLLOWS:
 - a) RCC BOX.....M25
 - b) RCC RETAINING WALL.....M25
 - c) RCC CURTAIN WALL.....M20
 - d) PARAPET WALL.....M25
 - e) PARAPET WALL.....M25
 - f) PARAPET WALL.....M25
 5. GRADE OF STEEL SHALL BE Fe-500 (H.Y.S.D. REBAR CONFORMING TO IS-1786)
 6. BACK FILLING BEHIND THE STRUCTURE SHALL CONSIST OF SELECTED EARTH CONFORMING TO APPENDIX 6 OF IRC:78-2014 HAVING PROPERTIES $\phi < 30$, $C=0$, $\gamma = 2.07/M^3$
 7. COMPRESSIBLE FILLER BOARD SHALL BE PROVIDED IN ALL EXPANSION GAPS AND SEALED WITH POLY-SULPHIDE SEALANT.
 8. FOUNDATION OF BOX SHALL BE PLACED OVER A FIRM STRATA HAVING UNDESIRABLE SOILS TO A DEPTH OF 1700 MM. UNDESIRABLE MATERIAL ENCOUNTERED SHALL BE REMOVED TO SUCH DEPTH AS TO PROVIDE 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. THE BACKFILLING SHALL BE PROVIDED BEHIND SIDE WALLS AND WING WALLS AS PER IR:78-2014.
 9. ALL THE LEVELS AND CHAMBERS TO BE VERIFIED WITH RESPECT TO PLAN & PROFILE DRAWINGS BEFORE EXCAVATION. ANY DISCREPANCY ENGINEER IMMEDIATELY REPORTED TO THE DESIGNER.
 10. BACK FILLING BEHIND WALLS SHALL BE DONE SIMULTANEOUSLY ON EITHER SIDE OF THE STRUCTURE WITH HEIGHT DIFFERENCE NOT MORE THAN 1.0M. BE DONE ONLY AFTER THE TOP SLAB IS CONCRETED AND CURED FOR 14 DAYS.
 11. SPRINGING & 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

TITLE : TYPICAL GENERAL ARRANGEMENT DRAWING FOR SINGLE BOX CULVERT

DESIGNED BY : SD

APPROVED BY : KG

SCALE : AS SHOWN

DRG. NO. : EPTISA/JTRF/DR/18/8/BOX/GAD/01

REVISION : R-1

September 2019

DESIGN CONSULTANT:

epitisa
 Epitisa Servicos de Engenharia 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.epitisa.com

CLIENT:

Jhelum Tawi Flood Recovery Project
 2nd Floor ERA Commercial Complex Rambagh Srinagar-180 009.

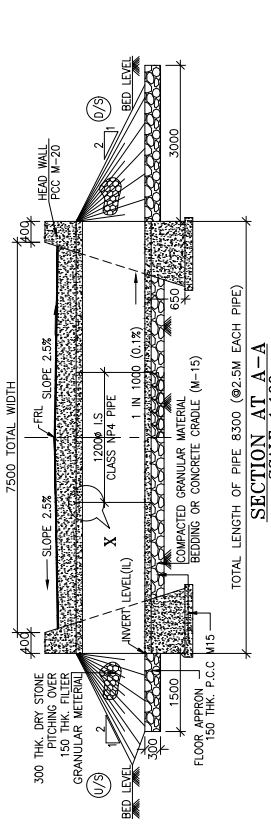
PROJECT:

Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)

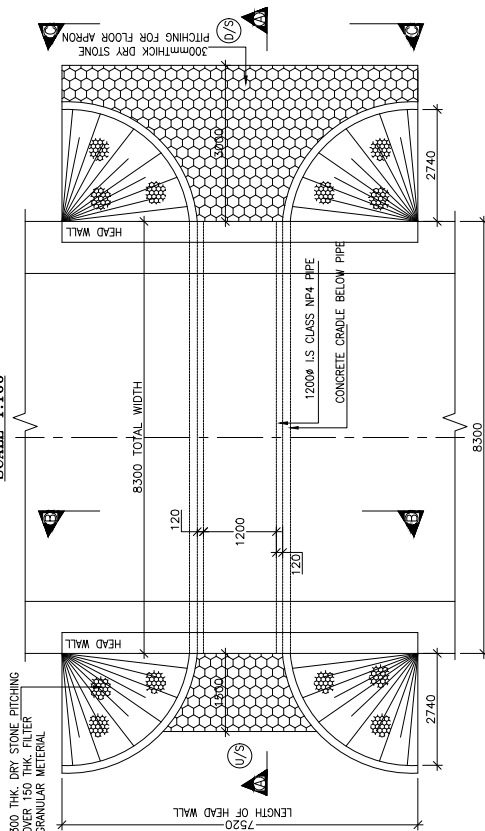
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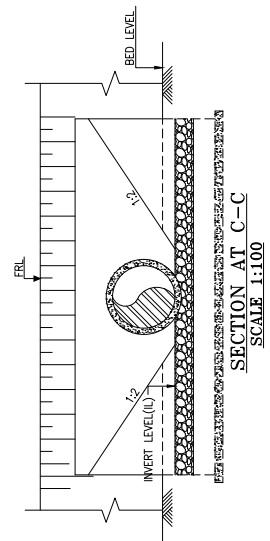
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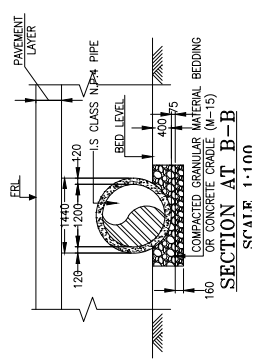
SECTION AT A-A
SCALE 1:100



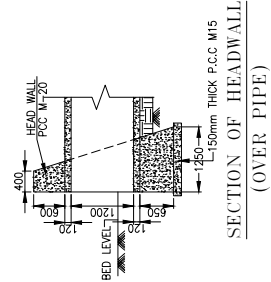
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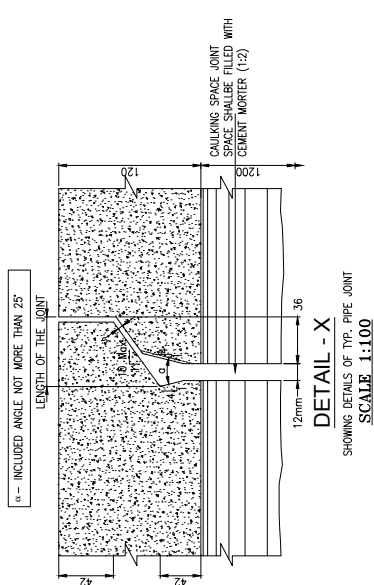
SECTION AT C-C
SCALE 1:100



SECTION AT B-B
SCALE 1:100




SECTION OF HEADWALL
(OVER PIPE)



DETAIL - X
SHOWING DETAILS OF TYP. PIPE JOINT
SCALE 1:100

NOTES:-

1. ALL DIMENSIONS ARE IN mm, EXCEPT OTHERWISE MENTIONED.
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 D.W.G. DISCREPANCY, IF ANY, IS TO BE CORRECTED 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.29/04.
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.

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		DESIGNED BY :	SD				
		APPROVED BY :	KG	DRG. NO. :	EPTISAJUTFRPDRJ&K(PIPE/GAD)01		
		SCALE :	AS SHOWN	REVISION :	R-1		September 2019