



# उत्तर प्रदेश मेट्रो रेल कॉर्पोरेशन लि०

## UTTAR PRADESH METRO RAIL CORPORATION LTD.

(Formerly Known as Lucknow Metro Rail Corporation Ltd.)  
(भारत सरकार एवं उत्तर प्रदेश सरकार का एक संयुक्त उपक्रम)  
(A JOINT VENTURE OF GOVT. OF INDIA & GOVT. OF U.P.)

No. UPMRC/CE-Contract/AGCC-05/2023-24

Date: 25.01.2024

### **ADDENDUM-04**

**Name of Work: Tender AGCC-05:** Design and Construction of elevated viaduct and 3 Nos. elevated stations (viz. ISBT, Guru Ka Taal & Sikandara Metro Station) including Civil, Associated Ancillary Structure, Architectural Finishes, Water Supply, Sanitary Installation, Drainage, External Development, Fire Fighting, Fire Detection, E&M works and PEB structures on Balance Section chainage (-) 42.96 m to 3682.941 m of Corridor-1 of Agra Metro at Agra, Uttar Pradesh, India

General Arrangement Drawings (GAD) is being uploaded on CPP Portal. Also, link for downloading Auto CAD drawings of same is as under:

[https://drive.google.com/file/d/1qcPsR7HkI9o4gN6s\\_apKAM1PtltGDHBm/view?usp=sharing](https://drive.google.com/file/d/1qcPsR7HkI9o4gN6s_apKAM1PtltGDHBm/view?usp=sharing)

For any further modifications/changes (if any), bidders are advised to stay updated on e-tendering portal (<https://etenders.gov.in/eprocure/app>) for information please.

**Sd--xx**  
**CE/Contract**

**Legend :**

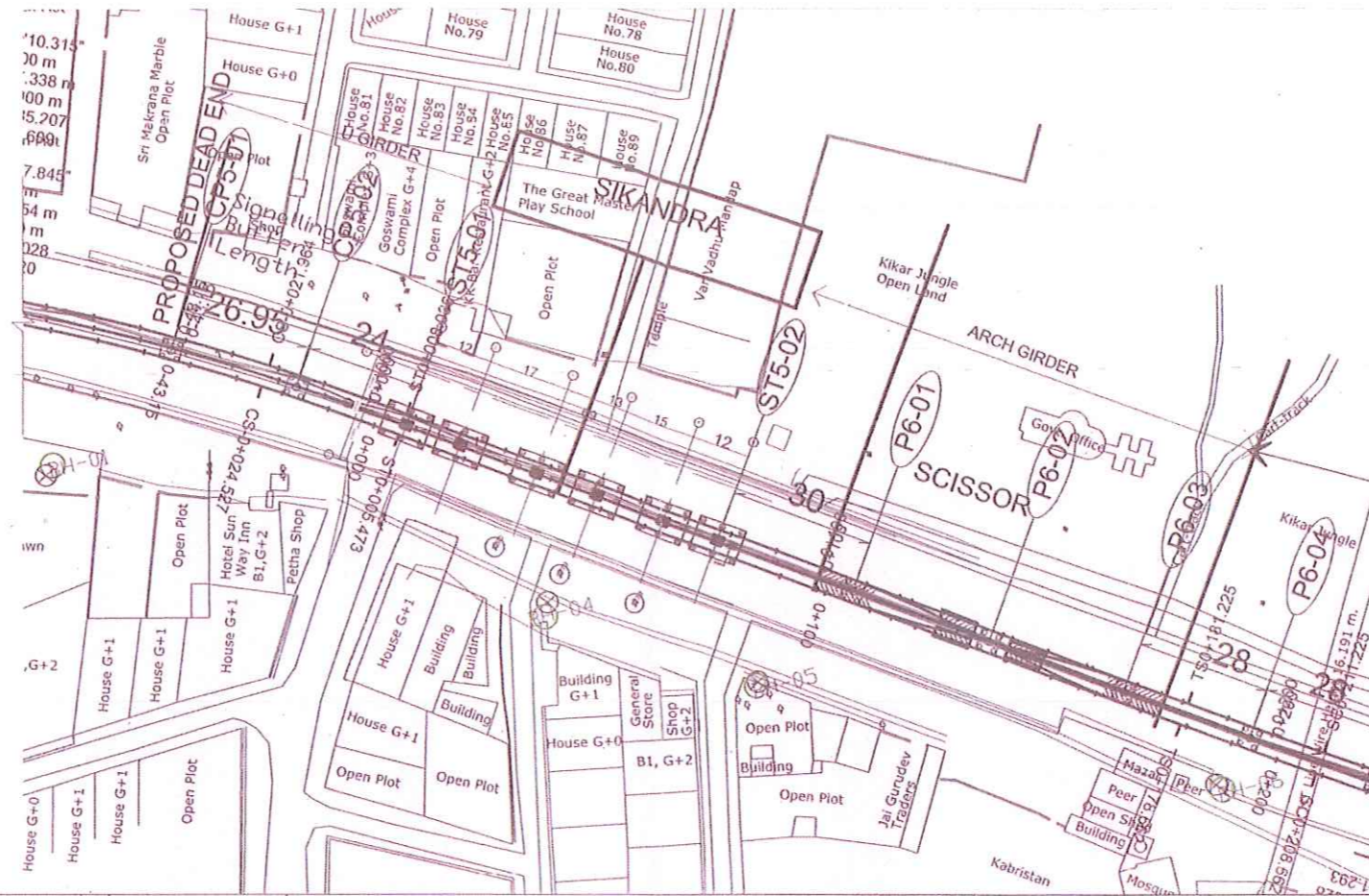
Tangent

Circular Curve

Spiral Curve

**ABBREVIATION :**

TS = Tangent to Spiral	SRJ = Stock Rail Joint
SC = Spiral to Curve	ELEV = Real Elevation
CS = Curve to Spiral	CH = Drainage
ST = Spiral to Tangent	DLC = Down line Horizontal Curve
SS = Spiral to Spiral	ULC = UP line Horizontal Curve
CCL = Circular Curve Length	CLC = Center line Horizontal Curve
TRL / TL = Length of Spiral Curve	PVC = Point of Vertical Curvature
(Transition Length)	PVI = Point of Vertical Intersection
R = Radius of Curve	PVT = Point of Vertical Tangent
L / CL = Length of Curve	D = Degree of Curve
SL = Straight Length	DE = DEAD END
G = Grade in %	



CENTRE LINE	Sikandra Elevated Station CH:42.37 m																											
	L=390.401m G=0.000%																											
VERTICAL ALIGNMENT	L=390.401m G=0.000%																											
HORIZONTAL ALIGNMENT	TL=30.00m								SL=173.19m																			
	TL=30.00m																											
DIFFERENCE IN ELEVATION (M)	12.113	12.343	12.473	12.478	12.430	12.390	12.333	12.342	12.350	12.380	12.181	12.420	12.401	12.405	12.446	12.693	12.429	12.465	12.493	12.386	12.356	12.449	12.392	12.196	12.275	12.202	12.236	
RAIL LEVELS (M) (CENTRE LINE)	181.800	181.800	181.800	181.800	181.800	181.800	181.800	181.800	181.800	181.800	181.800	181.800	181.800	181.800	181.800	181.800	181.800	181.800	181.800	181.800	181.800	181.800	181.800	181.800	181.800	181.800	181.800	181.800
GROUND LEVELS	169.687	169.457	169.327	169.322	169.370	169.410	169.467	169.458	169.450	169.420	169.619	169.380	169.399	169.395	169.354	169.107	169.371	169.335	169.307	169.414	169.444	169.351	169.418	169.604	169.525	169.598	169.554	169.554
CHAINAGES	-60.000	-50.000	-40.000	-30.000	-20.000	-10.000	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	160.000	170.000	180.000	190.000	200.000	

- GENERAL NOTES:**
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  - STATIONS LOCATIONS MENTIONED HERE ARE ONLY INDICATIVE FOR STATIONS LAYOUT LOCATION & DETAILS REFER LATEST ARCHITECTURAL DRAWINGS.
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REV NO	DATE	DESCRIPTION	SIGN
P1	23-01-2024	REVISED ALIGNMENT & PIER SETTING OUT	
P0	26-09-2023	ISSUED FOR TENDER PURPOSE	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT / CODAL PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT.

PI	SIGN	DRN	DSN	CHD	AR	EL	IC	ME	PE/PM	APPD	DATE
											23-01-2024

DETAIL DESIGN CONSULTANT

TATA CONSULTING ENGINEERS LIMITED	3TI PROGETTI S.p.A	LEAP INFRAASYS PRIVATE LIMITED

THIS DRAWING, DESIGN AND DETAILING HAVE BEEN PROOF CHECKED BY US AND IS SUITABLE FOR EXECUTION AND IS APPROVED.

NOC  NOWC  RESUBMIT

SIGN:	SIGN:	SIGN:
DATE: 23.01.2024	DATE: 23.01.2024	DATE: 23.01.2024
NAME: ASO	NAME: MSJ	NAME: BKJ
DESIGNATION: SE	DESIGNATION: SSE	DESIGNATION: CSE

REVIEWED BY: APPROVED BY: VETTED BY:

GENERAL CONSULTANT

Consortium of Tecnica y Proyectos, S.A. and Italferr S.P.A

710, 7th Floor, Cyber Heights  
Vishub Khari, Gurgaon Nagar,  
Lucknow-226010

COUNTER SIGNED BY	DATE	SIGNATURE
UPMRCI		
DY.CE/DESIGN	24/01/24	
CE/DESIGN	24/01/24	
DY.CE/CIVIL	23/01/24	
CPM	23/01/24	

PROJECT: UTTAR PRADESH METRO RAIL CORPORATION LTD.  
AGRA METRO RAIL PROJECT-CORRIDOR 1  
AGCC-05: BALANCE ELEVATED SECTION FROM SIKANDRA TO RBS RAMP

CLIENT: UP METRO RAIL CORPORATION LTD.

LOCATION: BALANCE ELEVATED SECTION FROM SIKANDRA TO RBS RAMP

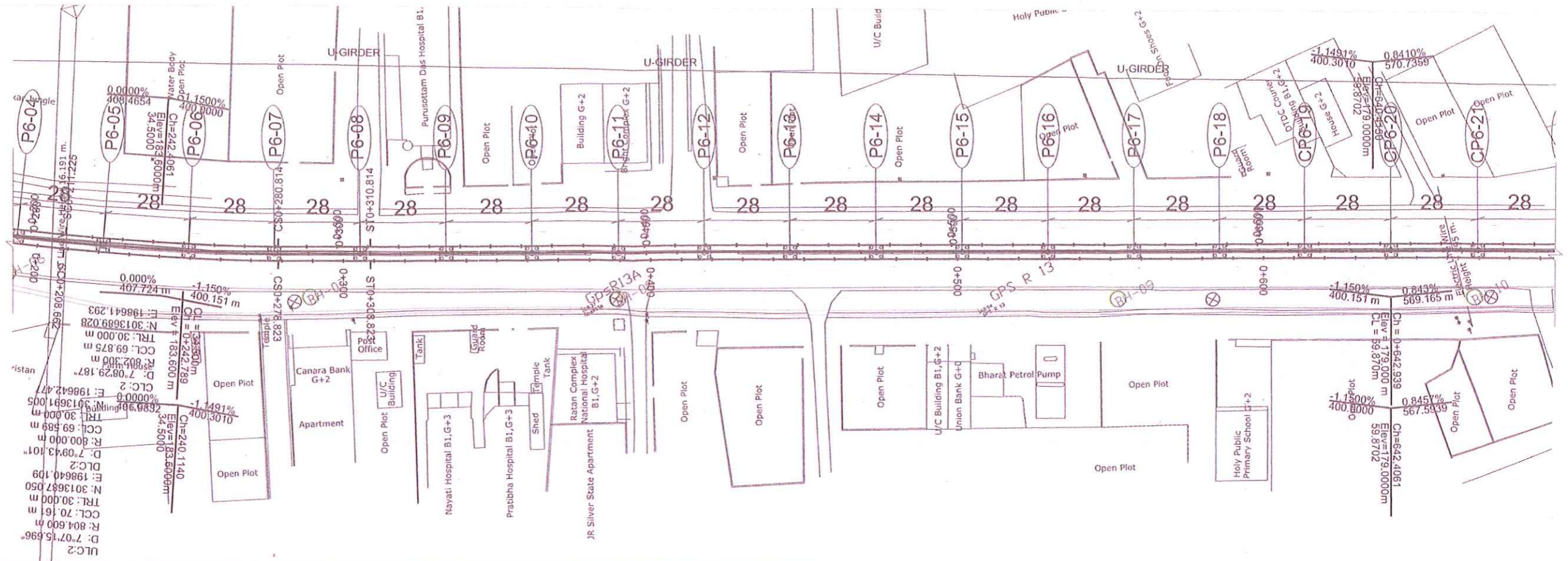
TITLE: TRACK ALIGNMENT GAD (TOPO REFERENCE) SHEET 01 OF 09

SCALE: 1:750 DATE: 23-01-2024 STAGE: TDR

DRG NO: AGCC05-11718A-TDR-AE5-CV-GAD-51820

OFFICE OF ORIGIN

REVISION NO:  
P1



CHAINAGES	GROUND LEVELS	RAIL LEVELS (M) (CENTRE LINE)	DIFFERENCE IN ELEVATION (M)	HORIZONTAL ALIGNMENT	VERTICAL ALIGNMENT	CENTRE LINE
200.000	169.564	181.800	12.236	TL=30.00m R=802.30m L=69.875m	L=34.636m R=4200.00m	175
210.000	169.550	181.800	12.250			
220.000	169.588	181.800	12.212	SL=656.16m	L=361.875m G=-0.825%	170
230.000	169.651	181.793	12.142			
240.000	169.654	181.762	12.108			
250.000	169.709	181.707	11.998			
260.000	169.705	181.630	11.925			
270.000	169.700	181.548	11.848			
280.000	169.748	181.465	11.717			
290.000	169.726	181.383	11.657			
300.000	169.724	181.300	11.576			
310.000	169.711	181.218	11.507			
320.000	169.740	181.135	11.395		165	
330.000	169.770	181.053	11.283			
340.000	169.801	180.970	11.169			
350.000	169.760	180.888	11.128			
360.000	169.734	180.805	11.071			
370.000	169.720	180.723	11.003			
380.000	169.549	180.640	11.091			
390.000	169.471	180.558	11.087			
400.000	169.377	180.475	11.098			
410.000	169.209	180.393	11.184			
420.000	169.358	180.311	10.953			
430.000	169.318	180.228	10.910			
440.000	169.275	180.146	10.871			
450.000	169.394	180.063	10.669			
460.000	169.598	179.981	10.383			
470.000	169.247	179.898	10.651			
480.000	169.454	179.816	10.362			
490.000	169.157	179.733	10.576			
500.000	169.268	179.651	10.383			
510.000	169.471	179.568	10.097			
520.000	169.044	179.486	10.442			
530.000	169.042	179.403	10.361			
540.000	169.033	179.321	10.288			
550.000	168.963	179.238	10.275			
560.000	169.100	179.156	10.056			
570.000	169.256	179.073	9.817			
580.000	168.943	178.991	10.048			
590.000	168.921	178.909	9.988			
600.000	169.037	178.826	9.789			
610.000	169.491	178.744	9.253			
620.000	169.022	178.662	9.640			
630.000	168.960	178.605	9.645			
640.000	169.522	178.588	9.066			
650.000	169.213	178.611	9.398			
660.000	169.065	178.674	9.609			
670.000	169.501	178.760	9.259			
680.000	169.050	178.845	9.795			
690.000	169.381	178.930	9.549			

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P1	23-01-2024	REVISED ALIGNMENT & PIER SETTING OUT	
P0	26-09-2023	ISSUED FOR TENDER PURPOSE	

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PI	SIGN.	DRN	DSN	CHD	AR	EL	IC	ME	PE/PM	APPD	DATE
											23-01-2024

DETAIL DESIGN CONSULTANT

TATA CONSULTING ENGINEERS LIMITED  
3TI PROJECTS S.p.A.  
LEAP INFRAASYS PRIVATE LIMITED

THIS DRAWING, DESIGN AND DETAILING HAS BEEN PROOF CHECKED BY US AND IS SUITABLE FOR EXECUTION AND IS APPROVED.

NOC  NOWC  RESUBMIT

SIGN.	DATE	NAME	DESIGNATION
	23.01.2024	ASO	SE
	23.01.2024	MSJ	SSE
	23.01.2024	BKJ	CSE

REVIEWED BY: APPROVED BY: VETTED BY:

GENERAL CONSULTANT: Consortium of Tecnica y Projectos, S.A. and Italferr S.P.A.

COUNTER SIGNED BY	DATE	SIGNATURE
UPMRCCL	23/01/24	[Signature]
DY.CE/DESIGN	23/01/24	[Signature]
CE/DESIGN	23/01/24	[Signature]
DY.CE/CIVIL	23/01/24	[Signature]
CPM	23/01/24	[Signature]

PROJECT: **UTTAR PRADESH METRO RAIL CORPORATION LTD.**  
AGRA METRO RAIL PROJECT-CORRIDOR 1  
AGCC-05: BALANCE ELEVATED SECTION FROM SIKANDRA TO RBS RAMP

CLIENT: **UP METRO RAIL CORPORATION LTD.**

LOCATION: BALANCE ELEVATED SECTION FROM SIKANDRA TO RBS RAMP

TITLE: TRACK ALIGNMENT GAD (TOPO REFERENCE) SHEET 02 OF 09

SCALE: 1:750 DATE: 23-01-2024 STAGE: TDR

DRG NO: AGCC05-11718A-TDR-AE5-CV-GAD-51821

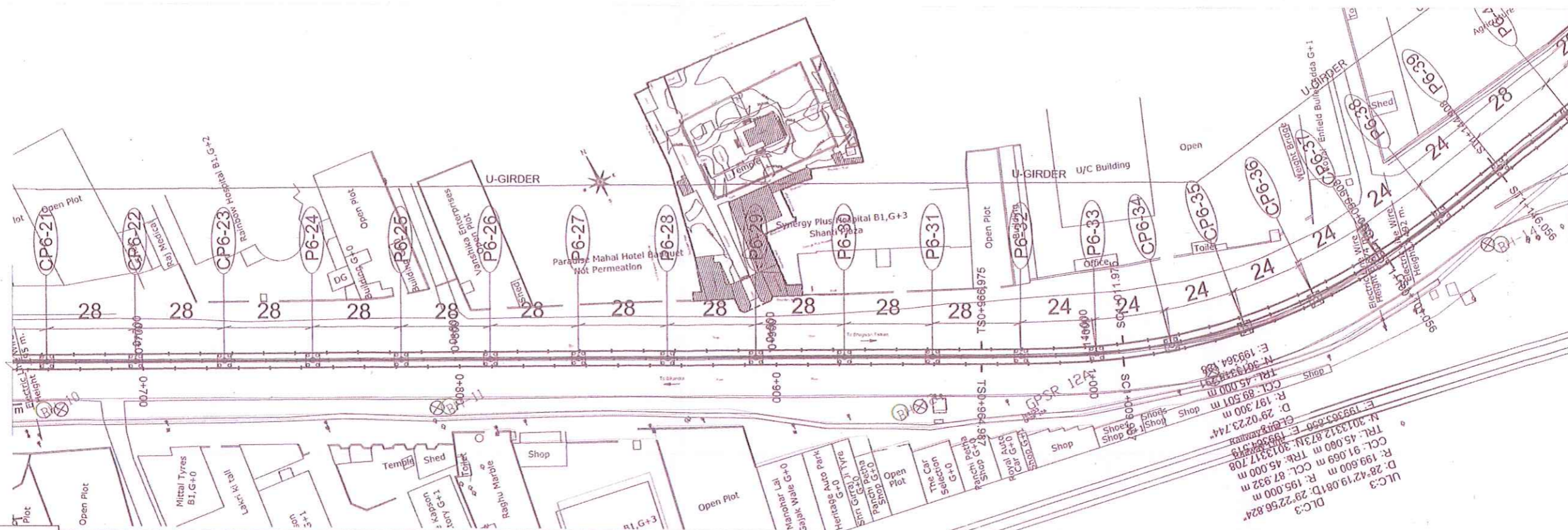
OFFICE OF ORIGIN

TATA

3TI

lipl

REVISION NO: P1



CHAINAGES	GROUND LEVELS	RAIL LEVELS (M) (CENTRE LINE)	DIFFERENCE IN ELEVATION (M)	HORIZONTAL ALIGNMENT	VERTICAL ALIGNMENT	CENTRE LINE
680.000	-169.050	-178.845	9.795	TL=45.00m	L=376.158m G=0.852%	180
690.000	-169.381	-178.930	9.549			R=3200.00m
700.000	-169.021	-179.015	9.994	TL=45.00m	L=376.158m G=0.852%	
710.000	-169.078	-179.100	10.022			R=3200.00m
720.000	-169.455	-179.186	9.731	TL=45.00m	L=376.158m G=0.852%	
730.000	-169.089	-179.271	10.182			R=3200.00m
740.000	-169.143	-179.356	10.213	TL=45.00m	L=376.158m G=0.852%	
750.000	-169.329	-179.441	10.112			R=3200.00m
760.000	-169.055	-179.526	10.471	TL=45.00m	L=376.158m G=0.852%	
770.000	-169.033	-179.612	10.579			R=3200.00m
780.000	-169.211	-179.697	10.486	TL=45.00m	L=376.158m G=0.852%	
790.000	-169.039	-179.782	10.743			R=3200.00m
800.000	-169.041	-179.867	10.826	TL=45.00m	L=376.158m G=0.852%	
810.000	-169.202	-179.952	10.750			R=3200.00m
820.000	-168.988	-180.038	11.050	TL=45.00m	L=376.158m G=0.852%	
830.000	-169.005	-180.123	11.118			R=3200.00m
840.000	-169.271	-180.208	10.937	TL=45.00m	L=376.158m G=0.852%	
850.000	-169.060	-180.293	11.233			R=3200.00m
860.000	-169.266	-180.379	11.113	TL=45.00m	L=376.158m G=0.852%	
870.000	-169.262	-180.464	11.202			R=3200.00m
880.000	-169.134	-180.549	11.415	TL=45.00m	L=376.158m G=0.852%	
890.000	-169.296	-180.634	11.338			R=3200.00m
900.000	-169.310	-180.719	11.409	TL=45.00m	L=376.158m G=0.852%	
910.000	-169.317	-180.805	11.488			R=3200.00m
920.000	-169.339	-180.890	11.551	TL=45.00m	L=376.158m G=0.852%	
930.000	-169.312	-180.975	11.663			R=3200.00m
940.000	-169.135	-181.060	11.925	TL=45.00m	L=376.158m G=0.852%	
950.000	-169.282	-181.145	11.863			R=3200.00m
960.000	-169.457	-181.231	11.774	TL=45.00m	L=376.158m G=0.852%	
970.000	-169.088	-181.316	12.228			R=3200.00m
980.000	-169.083	-181.401	12.318	TL=45.00m	L=376.158m G=0.852%	
990.000	-169.083	-181.486	12.403			R=3200.00m
1000.000	-169.205	-181.571	12.366	TL=45.00m	L=376.158m G=0.852%	
1010.000	-169.417	-181.657	12.240			R=3200.00m
1020.000	-169.555	-181.742	12.187	TL=45.00m	L=376.158m G=0.852%	
1030.000	-169.633	-181.827	12.194			R=3200.00m
1040.000	-169.647	-181.911	12.264	TL=45.00m	L=376.158m G=0.852%	
1050.000	-169.619	-181.970	12.355			R=3200.00m
1060.000	-169.587	-181.998	12.411	TL=45.00m	L=376.158m G=0.852%	
1070.000	-169.645	-182.000	12.355			R=3200.00m
1080.000	-169.983	-182.000	12.017	TL=45.00m	L=376.158m G=0.852%	
1090.000	-169.782	-182.000	12.218			R=3200.00m
1100.000	-169.482	-182.000	12.518	TL=45.00m	L=376.158m G=0.852%	
1110.000	-169.476	-182.000	12.524			R=3200.00m
1120.000	-169.508	-182.000	12.492	TL=45.00m	L=376.158m G=0.852%	
1130.000	-169.533	-182.000	12.467			R=3200.00m
1140.000	-169.541	-182.000	12.459	TL=45.00m	L=376.158m G=0.852%	
1150.000	-169.442	-182.000	12.558			R=3200.00m

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P0	26-09-2023	ISSUED FOR TENDER PURPOSE	

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DDC

PI	SIGN.	DATE
		23-01-2024

ISSUE: DRN, DSN, CHD, AR, EL, IC, ME, PE/PM, APPD, DATE

DETAIL DESIGN CONSULTANT:

TATA CONSULTING ENGINEERS LIMITED  
3TI PROGETTI Sp.A  
LEAP INFRAASYS PRIVATE LIMITED

THIS DRAWING, DESIGN AND DETAILING HAVE BEEN PROOF CHECKED BY US AND IS SUITABLE FOR EXECUTION AND IS APPROVED.

HOC, HOWC, RESUBMIT

SIGN.	DATE	DESIGNATION
	23.01.2024	SE
	23.01.2024	SSS
	23.01.2024	CSE

REVIEWED BY: APPROVED BY: VETTED BY:

GENERAL CONSULTANT: Consortium of Tecnica y Proyectos, S.A. and Italferr S.P.A.

COUNTER SIGNED BY: UPMRCL, DATE, SIGNATURE

PROJECT: UTTAR PRADESH METRO RAIL CORPORATION LTD. AGRA METRO RAIL PROJECT-CORRIDOR 1 AGCC-05: BALANCE ELEVATED SECTION FROM SIKANDRA TO RBS RAMP

CLIENT: UP METRO RAIL CORPORATION LTD.

LOCATION: BALANCE ELEVATED SECTION FROM SIKANDRA TO RBS RAMP

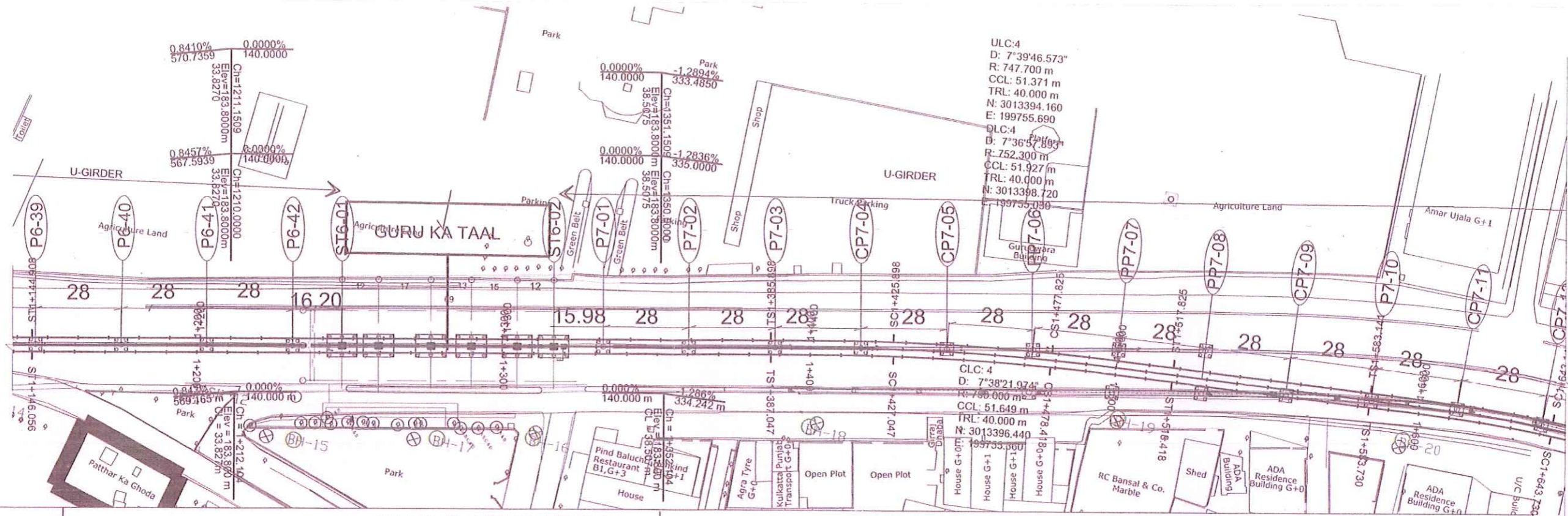
TITLE: TRACK ALIGNMENT GAD (TOPO REFERENCE) SHEET 03 OF 09

SCALE: 1:750, DATE: 23-01-2024, STAGE: TDR

ORG NO: AGCC05-11718A-TDR-AE5-CV-GAD-51822

OFFICE OF ORIGIN: TATA, 3TI, lipl

REVISION NO: P1



CHAINAGES	GROUND LEVELS		RAIL LEVELS (M) (CENTRE LINE)		DIFFERENCE IN ELEVATION (M)		HORIZONTAL ALIGNMENT		VERTICAL ALIGNMENT	
	CH	EL	CH	EL	CH	EL	SL	TL	L	G
1150.000	169.442	-182.000	12.558							
1160.000	169.446	-182.000	12.554							
1170.000	169.484	-182.000	12.516							
1180.000	169.500	-182.000	12.500							
1190.000	169.447	-182.000	12.553							
1200.000	169.538	-182.000	12.462							
1210.000	169.622	-182.000	12.378							
1220.000	169.653	-182.000	12.347							
1230.000	169.672	-182.000	12.328							
1240.000	169.647	-182.000	12.353							
1250.000	169.506	-182.000	12.494							
1260.000	169.700	-182.000	12.300							
1270.000	169.632	-182.000	12.368							
1280.000	169.371	-182.000	12.629							
1290.000	169.429	-182.000	12.571							
1300.000	169.611	-182.000	12.389							
1310.000	169.793	-182.000	12.207							
1320.000	169.795	-182.000	12.205							
1330.000	169.814	-181.999	12.185							
1340.000	169.804	-181.972	12.168							
1350.000	169.821	-181.910	12.089							
1360.000	169.890	-181.817	11.927							
1370.000	169.905	-181.720	11.815							
1380.000	169.920	-181.623	11.703							
1390.000	169.813	-181.526	11.713							
1400.000	169.756	-181.429	11.673							
1410.000	169.637	-181.332	11.695							
1420.000	169.854	-181.235	11.381							
1430.000	169.869	-181.138	11.269							
1440.000	169.883	-181.041	11.158							
1450.000	169.786	-180.944	11.158							
1460.000	169.861	-180.847	10.986							
1470.000	169.935	-180.751	10.816							
1480.000	169.937	-180.654	10.717							
1490.000	169.706	-180.557	10.851							
1500.000	169.894	-180.460	10.566							
1510.000	170.061	-180.363	10.302							
1520.000	169.901	-180.266	10.365							
1530.000	169.890	-180.169	10.279							
1540.000	169.927	-180.072	10.145							
1550.000	169.932	-179.975	10.043							
1560.000	169.910	-179.878	9.968							
1570.000	169.893	-179.781	9.888							
1580.000	169.859	-179.684	9.825							
1590.000	169.874	-179.587	9.713							
1600.000	169.945	-179.490	9.545							
1610.000	169.908	-179.393	9.485							
1620.000	169.954	-179.296	9.342							

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REV NO	DATE	DESCRIPTION	SIGN
P1	23-01-2024	REVISED ALIGNMENT & PIER SETTING OUT	
PO	26-09-2023	ISSUED FOR TENDER PURPOSE	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT / CODAL PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT.

DDC

P1	SIGN.	AR	EL	IC	ME	PE/PM	APPD	DATE
								23-01-2024

ISSUE

DETAIL DESIGN CONSULTANT

TATA CONSULTING ENGINEERS LIMITED  
3TI PROGETTI S.p.A.  
LEAP INFRASTRAS PRIVATE LIMITED

THIS DRAWING, DESIGN AND DETAILING HAVE BEEN PROOF CHECKED BY US AND IS SUITABLE FOR EXECUTION AND IS APPROVED.

NOC  NOWC  RESUBMIT

SIGN:	SIGN:	SIGN:
DATE: 23.01.2024	DATE: 23.01.2024	DATE: 23.01.2024
NAME: ASO	NAME: MSJ	NAME: BKJ
DESIGNATION: SE	DESIGNATION: SBE	DESIGNATION: CSE

REVIEWED BY: APPROVED BY: VETTED BY:

GENERAL CONSULTANT: Consortium of Tecnica y Projectos, S.A. and Italferr S.P.A.

TYPSA - ITALFERR

COUNTER SIGNED BY UPMRCL

DATE	SIGNATURE
24/01/24	[Signature]
20/01	[Signature]
23/01/24	[Signature]
23/01/24	[Signature]

DY.CE/DESIGN  
CE/DESIGN  
DY.CE/CIVIL  
CPM

PROJECT: **UTTAR PRADESH METRO RAIL CORPORATION LTD.**  
AGRA METRO RAIL PROJECT-CORRIDOR 1  
AGCC-05: BALANCE ELEVATED SECTION FROM SIKANDRA TO RBS RAMP

CLIENT: **UP METRO RAIL CORPORATION LTD.**

LOCATION: BALANCE ELEVATED SECTION FROM SIKANDRA TO RBS RAMP

TITLE: TRACK ALIGNMENT GAD (TOPO REFERENCE) SHEET 04 OF 09

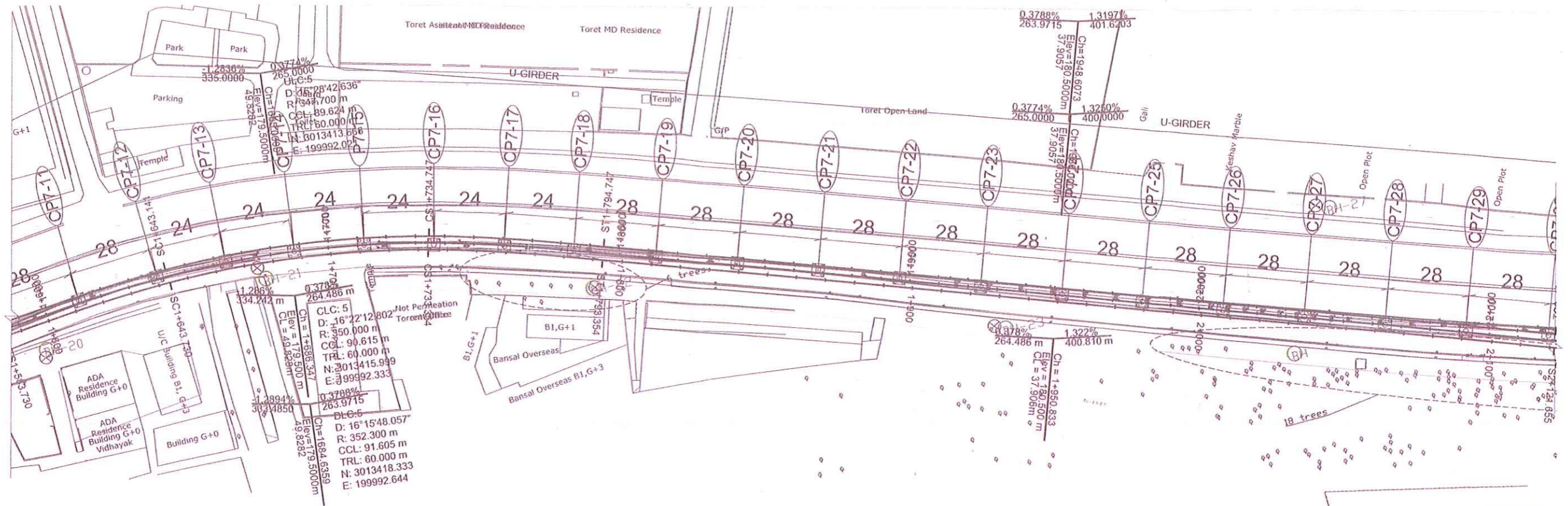
SCALE: 1:750 DATE: 23-01-2024 STAGE: TDR

DRG NO: AGCC05-11718A-TDR-AE5-CV-GAD-51823

OFFICE OF ORIGIN

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3TI  
lipl

REVISION NO: P1



CHAINAGES	GROUND LEVELS	RAIL LEVELS (M) (CENTRE LINE)	DIFFERENCE IN ELEVATION (M)	HORIZONTAL ALIGNMENT	VERTICAL ALIGNMENT	CENTRE LINE
1620.000	169.954	179.296	9.342	R=392.30m L=134.519m	L=32.587m R=2500.00m	175
1630.000	170.073	179.199	9.126			170
1640.000	170.086	179.109	9.023	TL=80.00m	G=0.334%	165
1650.000	170.084	179.055	8.971			170
1660.000	170.057	179.041	8.984	SL=290.20m	L=34.903m R=4500.00m	170
1670.000	170.014	179.065	9.051			170
1680.000	169.989	179.098	9.109	TL=20.00m		170
1690.000	170.076	179.132	9.056			170
1700.000	170.242	179.165	8.923			170
1710.000	169.834	179.199	9.365			170
1720.000	169.834	179.232	9.398			170
1730.000	170.075	179.265	9.190			170
1740.000	169.852	179.299	9.447			170
1750.000	169.874	179.332	9.458			170
1760.000	169.889	179.366	9.477			170
1770.000	169.914	179.399	9.485			170
1780.000	169.945	179.432	9.487			170
1790.000	169.963	179.466	9.503			170
1800.000	169.993	179.499	9.506			170
1810.000	170.126	179.533	9.407			170
1820.000	170.116	179.566	9.450			170
1830.000	170.041	179.599	9.558			170
1840.000	170.055	179.633	9.578			170
1850.000	170.099	179.666	9.567			170
1860.000	170.119	179.700	9.581			170
1870.000	170.115	179.733	9.618			170
1880.000	170.113	179.766	9.653			170
1890.000	170.124	179.800	9.676			170
1900.000	170.109	179.833	9.724			170
1910.000	170.140	179.867	9.727			170
1920.000	170.194	179.900	9.706			170
1930.000	169.902	179.934	10.032			170
1940.000	170.104	179.973	9.869			170
1950.000	170.078	180.035	9.957			170
1960.000	169.978	180.118	10.140			170
1970.000	170.053	180.223	10.170			170
1980.000	170.139	180.334	10.195			170
1990.000	170.168	180.445	10.277			170
2000.000	170.275	180.556	10.281			170
2010.000	170.337	180.667	10.330			170
2020.000	170.356	180.778	10.422			170
2030.000	170.375	180.889	10.514			170
2040.000	170.359	181.000	10.641			170
2050.000	170.368	181.111	10.743			170
2060.000	170.378	181.222	10.844			170
2070.000	170.363	181.333	10.970			170
2080.000	170.366	181.444	11.078			170
2090.000	170.286	181.555	11.269			170
2100.000	170.152	181.666	11.514			170
2110.000	169.966	181.777	11.811			170

GENERAL NOTES:

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REV NO	DATE	DESCRIPTION	SIGN
P1	23-01-2024	REVISED ALIGNMENT & PIER SETTING OUT	
P0	26-09-2023	ISSUED FOR TENDER PURPOSE	

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ISSUE	DRN	DSN	CHD	AR	EL	IC	ME	PE/IPM	APPD	DATE
										23-01-2024

DETAIL DESIGN CONSULTANT

TATA CONSULTING ENGINEERS LIMITED	3TI PROGETTI S.p.A	LEAP INFRAASYS PRIVATE LIMITED
-----------------------------------	--------------------	--------------------------------

THIS DRAWING, DESIGN AND DETAILING HAVE BEEN PROOF CHECKED BY US AND IS SUITABLE FOR EXECUTION AND IS APPROVED.

NOC  HOWC  RESUBMIT

SIGN	DATE	NAME	DESIGNATION
[Signature]	23.01.2024	ASO	SE
[Signature]	23.01.2024	MSJ	SSE
[Signature]	23.01.2024	BKJ	CSE

REVIEWED BY: [Signature] APPROVED BY: [Signature] VETTED BY: [Signature]

GENERAL CONSULTANT: Consortium of Tecnica y Proyectos, S.A. and Italferr S.P.A. 710, 7th Floor, Cyber Heights Vohra Road, Gurgaon, Haryana, Lucknow-226010

COUNTER SIGNED BY	DATE	SIGNATURE
UPMRC	24/01/24	[Signature]
UPMRC	24/01/24	[Signature]
UPMRC	23/01/24	[Signature]
UPMRC	23/01/24	[Signature]

PROJECT: UTTAR PRADESH METRO RAIL CORPORATION LTD. AGRA METRO RAIL PROJECT-CORRIDOR 1 AGCC-05. BALANCE ELEVATED SECTION FROM SIKANDRA TO RBS RAMP

CLIENT: UP METRO RAIL CORPORATION LTD.

LOCATION: BALANCE ELEVATED SECTION FROM SIKANDRA TO RBS RAMP

TITLE: TRACK ALIGNMENT GAD (TOPO REFERENCE) SHEET 05 OF 09

SCALE: 1:750 DATE: 23-01-2024 STAGE: TDR

DRG NO: AGCC05-11718A-TDR-AE5-CV-GAD-51824

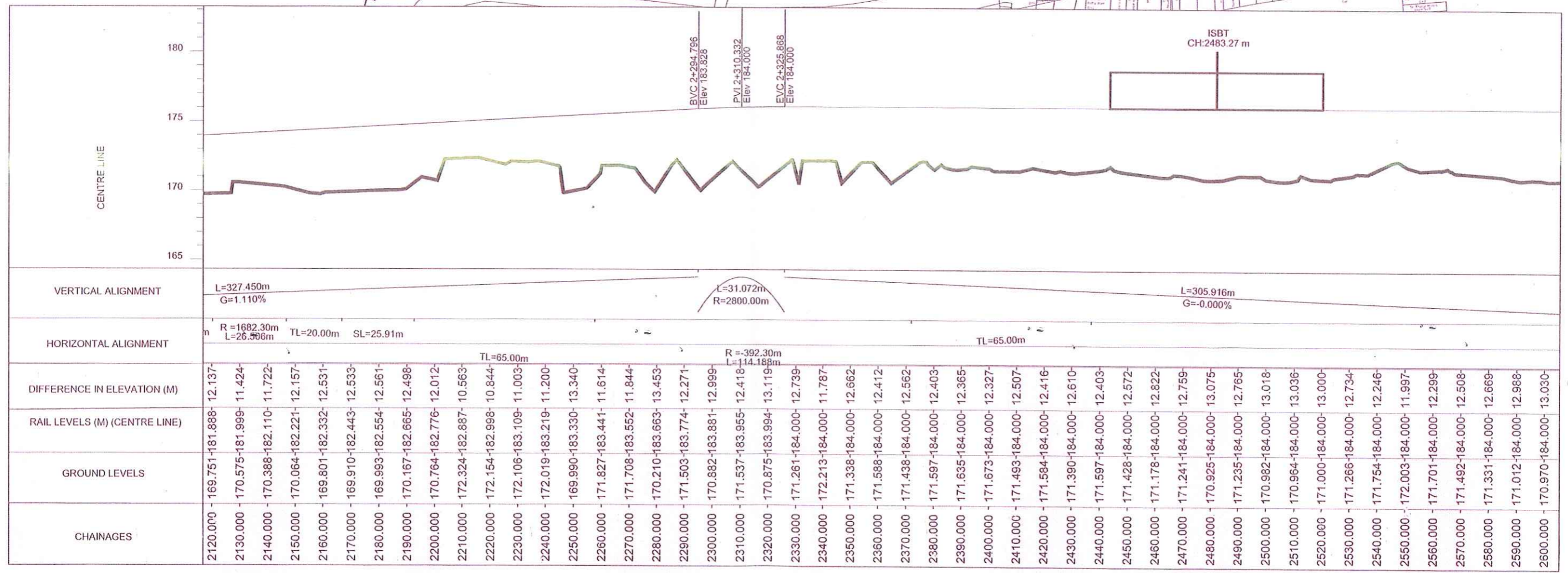
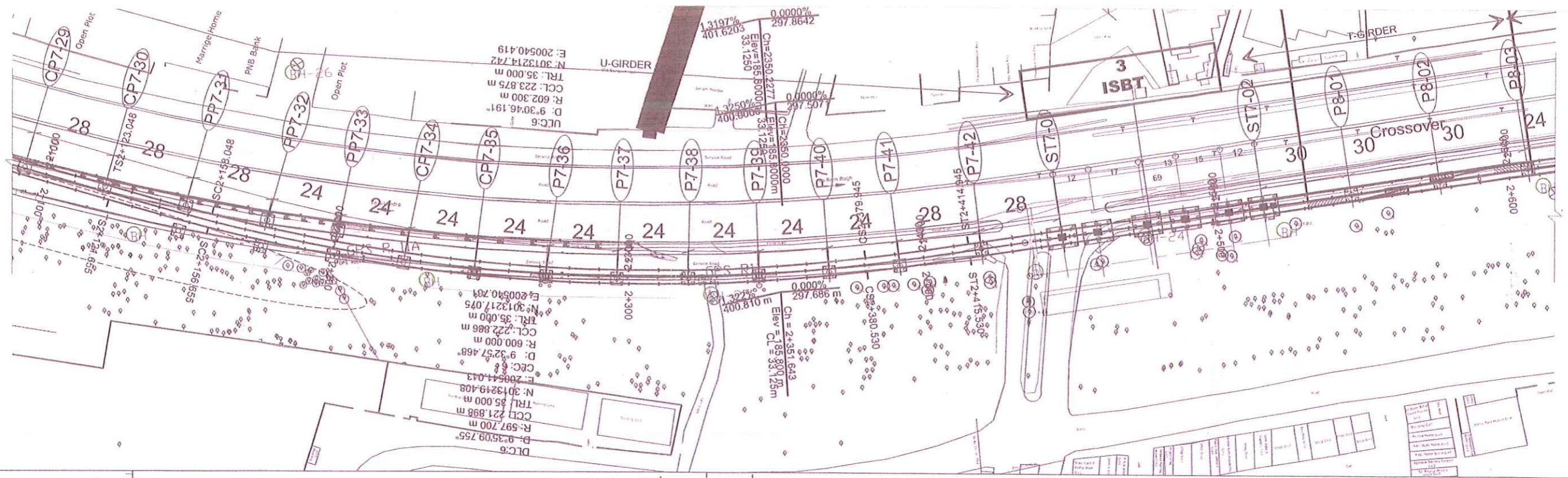
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REVISION NO: P1



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P0	26-09-2023	ISSUED FOR TENDER PURPOSE	

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DDC

P1	SIGN.	DRN	DSN	CHD	AR	EL	IC	ME	PE/PM	APPD	DATE
											23-01-2024

ISSUE

DETAIL DESIGN CONSULTANT

TATA CONSULTING ENGINEERS LIMITED  
3TI PROGETTI S.p.A.  
LEAP INFRASTRYS PRIVATE LIMITED

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NOC  NOWC  RESUBMIT

SIGN.	DATE	SIGN.	DATE	SIGN.	DATE
ASO	23.01.2024	MSJ	23.01.2024	BKJ	23.01.2024

DESIGNATION: SE MSJ BKJ

REVIEWED BY APPROVED BY VETTED BY

GENERAL CONSULTANT

Consortium of Tecnica y Proyectos, S.A. and Italferr S.P.A.  
710, 7th Floor, Cyber Heights  
Vishu Kharia, Gurgaon Nagar,  
Lucknow-226010

TYPSA - ITALFERR

COUNTER SIGNED BY	DATE	SIGNATURE
DY.CE/DESIGN	24/01/24	[Signature]
CE/DESIGN	24/01/24	[Signature]
DY.CE/CIVIL	23/01/24	[Signature]
CPM	23/01/24	[Signature]

PROJECT: UTTAR PRADESH METRO RAIL CORPORATION LTD.  
AGRA METRO RAIL PROJECT-CORRIDOR 1  
AGCC-05 BALANCE ELEVATED SECTION FROM SIKANDRA TO RBS RAMP

CLIENT: UP METRO RAIL CORPORATION LTD.

LOCATION: BALANCE ELEVATED SECTION FROM SIKANDRA TO RBS RAMP

TITLE: TRACK ALIGNMENT GAD (TOPO REFERENCE) SHEET 06 OF 09

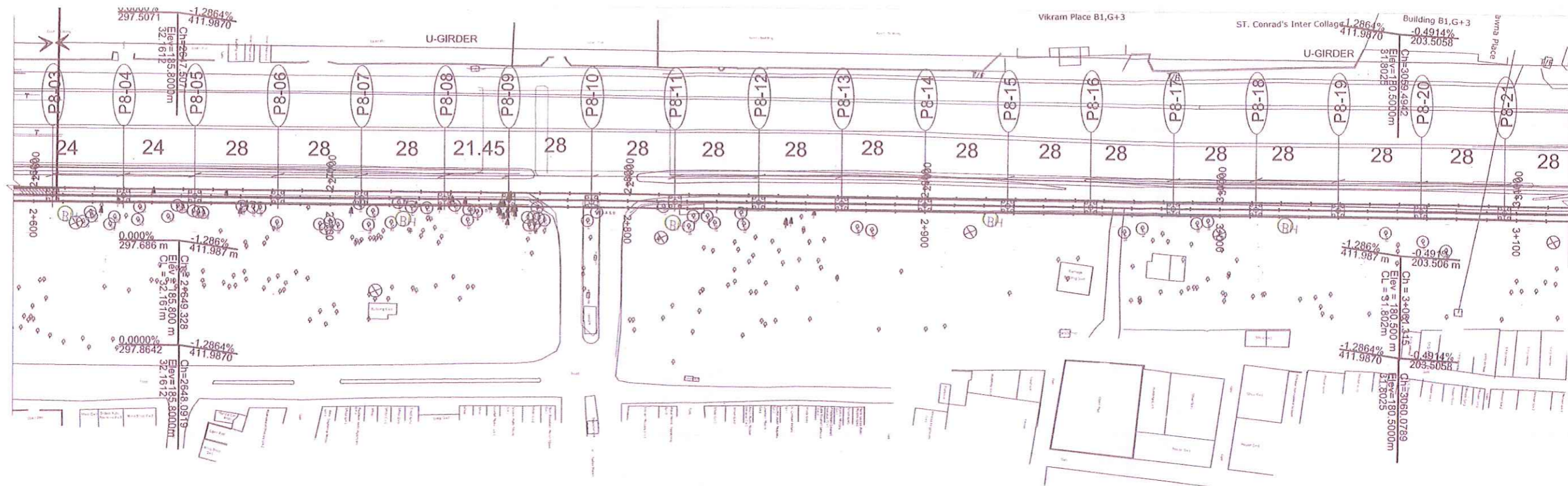
SCALE: 1:750 DATE: 23-01-2024 STAGE: TDR

DRG NO: AGCC05-11718A-TDR-AE5-CV-GAD-51825

OFFICE OF ORIGIN

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3TI  
lpl

REVISION NO: P1



CHAINAGES	GROUND LEVELS	RAIL LEVELS (M) (CENTRE LINE)	DIFFERENCE IN ELEVATION (M)	HORIZONTAL ALIGNMENT	VERTICAL ALIGNMENT	CENTRE LINE
2600.000	-170.970	-184.000	13.030			
2610.000	-170.926	-184.000	13.074			
2620.000	-171.532	-184.000	12.468			
2630.000	-171.709	-184.000	12.291			
2640.000	-170.918	-183.987	13.069			
2650.000	-171.065	-183.936	12.871			
2660.000	-170.750	-183.847	13.097			
2670.000	-171.063	-183.738	12.675			
2680.000	-170.933	-183.628	12.695			
2690.000	-171.075	-183.519	12.444			
2700.000	-170.908	-183.410	12.502			
2710.000	-171.256	-183.301	12.045			
2720.000	-171.292	-183.192	11.900			
2730.000	-171.327	-183.082	11.755			
2740.000	-171.233	-182.973	11.740			
2750.000	-170.882	-182.864	11.982			
2760.000	-171.312	-182.755	11.443			
2770.000	-171.085	-182.645	11.560			
2780.000	-170.830	-182.536	11.706			
2790.000	-170.997	-182.427	11.430			
2800.000	-170.056	-182.318	12.262			
2810.000	-169.496	-182.208	12.712			
2820.000	-169.712	-182.099	12.387			
2830.000	-169.394	-181.990	12.596			
2840.000	-169.233	-181.881	12.648			
2850.000	-169.178	-181.771	12.593			
2860.000	-169.118	-181.662	12.544			
2870.000	-169.163	-181.553	12.390			
2880.000	-169.167	-181.444	12.277			
2890.000	-169.199	-181.335	12.136			
2900.000	-169.205	-181.225	12.020			
2910.000	-169.205	-181.116	11.911			
2920.000	-167.873	-181.007	13.134			
2930.000	-167.818	-180.898	13.080			
2940.000	-168.567	-180.788	12.201			
2950.000	-168.694	-180.679	11.985			
2960.000	-168.219	-180.570	12.351			
2970.000	-168.596	-180.461	11.865			
2980.000	-167.802	-180.351	12.549			
2990.000	-167.851	-180.242	12.391			
3000.000	-167.841	-180.133	12.292			
3010.000	-168.440	-180.024	11.584			
3020.000	-168.708	-179.915	11.207			
3030.000	-168.512	-179.805	11.293			
3040.000	-168.515	-179.696	11.181			
3050.000	-168.745	-179.589	10.854			
3060.000	-168.034	-179.534	11.500			
3070.000	-168.245	-179.503	11.258			
3080.000	-168.713	-179.500	10.787			
3090.000	-168.601	-179.500	10.899			
3100.000	-168.490	-179.500	11.010			
3110.000	-168.766	-179.500	10.734			

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P1	23-01-2024	REVISED ALIGNMENT & PIER SETTING OUT	
PD	26-09-2023	ISSUED FOR TENDER PURPOSE	

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DDC

P1	SIGN.	SOOR	Amo	Raje	Abhy	23-01-2024

ISSUE

DRN	DSN	CHD	AR	EL	IC	ME	PE/PM	APPD	DATE

DETAIL DESIGN CONSULTANT

TATA CONSULTING ENGINEERS LIMITED  
3TI FROGETTI S.p.A  
LEAP INFRAASYS PRIVATE LIMITED

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NOC  NOWC  RESUBMIT

SIGN.	DATE	SIGN.	DATE	SIGN.	DATE
ASO	23.01.2024	MSJ	23.01.2024	BKJ	23.01.2024

DESIGNATION: SE, SSE, CSE

REVIEWED BY: APPROVED BY: VETTED BY:

GENERAL CONSULTANT: Consortium of Tecnica y Proyectos, S.A. and Italferr S.P.A

710, 7th Floor, Cyber Heights, Vishali Khari, Goro Nagar, Lucknow-226010

COUNTER SIGNED BY	DATE	SIGNATURE
UPMRC	24/01/24	[Signature]
UPMRC	24/01/24	[Signature]
UPMRC	23/01/24	[Signature]

PROJECT: UTTAR PRADESH METRO RAIL CORPORATION LTD.  
AGRA METRO RAIL PROJECT-CORRIDOR 1  
AGCC-05. BALANCE ELEVATED SECTION FROM SIKANDRA TO RBS RAMP

CLIENT: UP METRO RAIL CORPORATION LTD.

LOCATION: BALANCE ELEVATED SECTION FROM SIKANDRA TO RBS RAMP

TITLE: TRACK ALIGNMENT GAD (TOPO REFERENCE) SHEET 07 OF 09

SCALE: 1:750 DATE: 23-01-2024 STAGE: TDR

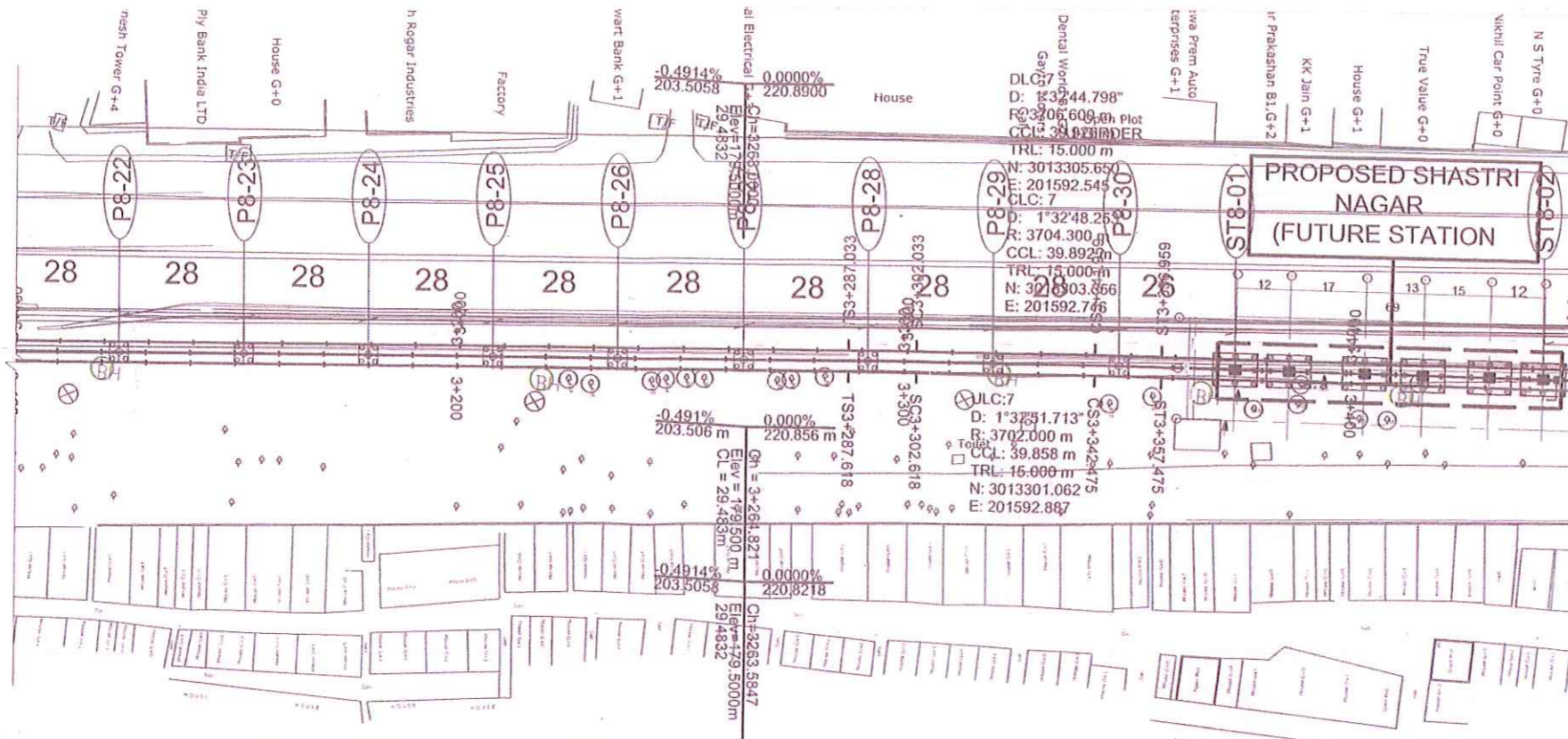
DRG NO: AGCC05-11718A-TDR-AE5-CV-GAD-51826

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REVISION NO: P1





CHAINAGES	GROUND LEVELS	RAIL LEVELS (M) (CENTRE LINE)	DIFFERENCE IN ELEVATION (M)	HORIZONTAL ALIGNMENT	VERTICAL ALIGNMENT	CENTRE LINE
3110.000	168.766	179.500	10.734	SL=182.74m	L=382.830m G=0.000%	165
3120.000	168.395	179.500	11.105			SL=308.11m
3130.000	168.240	179.500	11.260			175
3140.000	168.431	179.500	11.069			180
3150.000	168.581	179.500	10.919			
3160.000	168.597	179.500	10.903			
3170.000	168.459	179.500	11.041			
3180.000	168.619	179.500	10.881			
3190.000	168.408	179.500	11.092			
3200.000	168.227	179.500	11.273			
3210.000	168.196	179.500	11.304			
3220.000	168.081	179.500	11.419			
3230.000	168.078	179.500	11.422			
3240.000	168.209	179.500	11.291			
3250.000	168.316	179.500	11.184			
3260.000	168.616	179.500	10.884			
3270.000	168.356	179.500	11.142			
3280.000	168.485	179.500	11.015			
3290.000	168.492	179.500	11.008			
3300.000	168.672	179.500	10.828			
3310.000	168.669	179.500	10.831			
3320.000	168.419	179.500	11.081			
3330.000	168.248	179.500	11.252			
3340.000	168.570	179.500	10.930			
3350.000	168.603	179.500	10.897			
3360.000	168.532	179.500	10.968			
3370.000	168.567	179.500	10.933			
3380.000	168.461	179.500	11.039			
3390.000	168.449	179.500	11.051			
3400.000	168.749	179.500	10.751			
3410.000	168.432	179.500	11.068			
3420.000	168.532	179.500	10.968			
3430.000	168.249	179.500	11.251			
3440.000	168.289	179.500	11.211			
3450.000	168.345	179.500	11.155			

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P1	SIGN.	DRN	DSN	CHD	AR	EL	IC	ME	PE/PM	APPD	DATE
											23-01-2024

ISSUE: DRN, DSN, CHD, AR, EL, IC, ME, PE/PM, APPD, DATE

SIGN.	DATE	NAME	DESIGNATION
[Signature]	23.01.2024	ASO	SE
[Signature]	23.01.2024	MSJ	SSE
[Signature]	23.01.2024	BKJ	CBE

DETAIL DESIGN CONSULTANT

TATA CONSULTING ENGINEERS LIMITED (TATA)

3TI PROGETTI S.p.A. (3TI)

LEAP INFRAASYS PRIVATE LIMITED (lipl)

GENERAL CONSULTANT

Consortium of Tecnica y Projectos, S.A. and Italferr S.P.A.

710, 7th Floor, Cyber Heights, Vohus Khond, Gomti Nagar, Lucknow-226010

TYPSA-ITALFERR

COUNTER SIGNED BY	DATE	SIGNATURE
UPMRC	24/01/24	[Signature]
DY.CE/DESIGN	24/01	[Signature]
CE/DESIGN	24/01	[Signature]
DY.CE/CIVIL	23/01/24	[Signature]
CPM	23/01	[Signature]

PROJECT: UTTAR PRADESH METRO RAIL CORPORATION LTD. AGRA METRO RAIL PROJECT-CORRIDOR 1 AGCC-05: BALANCE ELEVATED SECTION FROM SIKANDRA TO RBS RAMP

CLIENT: UP METRO RAIL CORPORATION LTD.

LOCATION: BALANCE ELEVATED SECTION FROM SIKANDRA TO RBS RAMP

TITLE: TRACK ALIGNMENT GAD (TOPO REFERENCE) SHEET 08 OF 09

SCALE: 1:750 DATE: 23-01-2024 STAGE: TDR

DRG NO: AGCC05-11718A-TDR-AE5-CV-GAD-51827

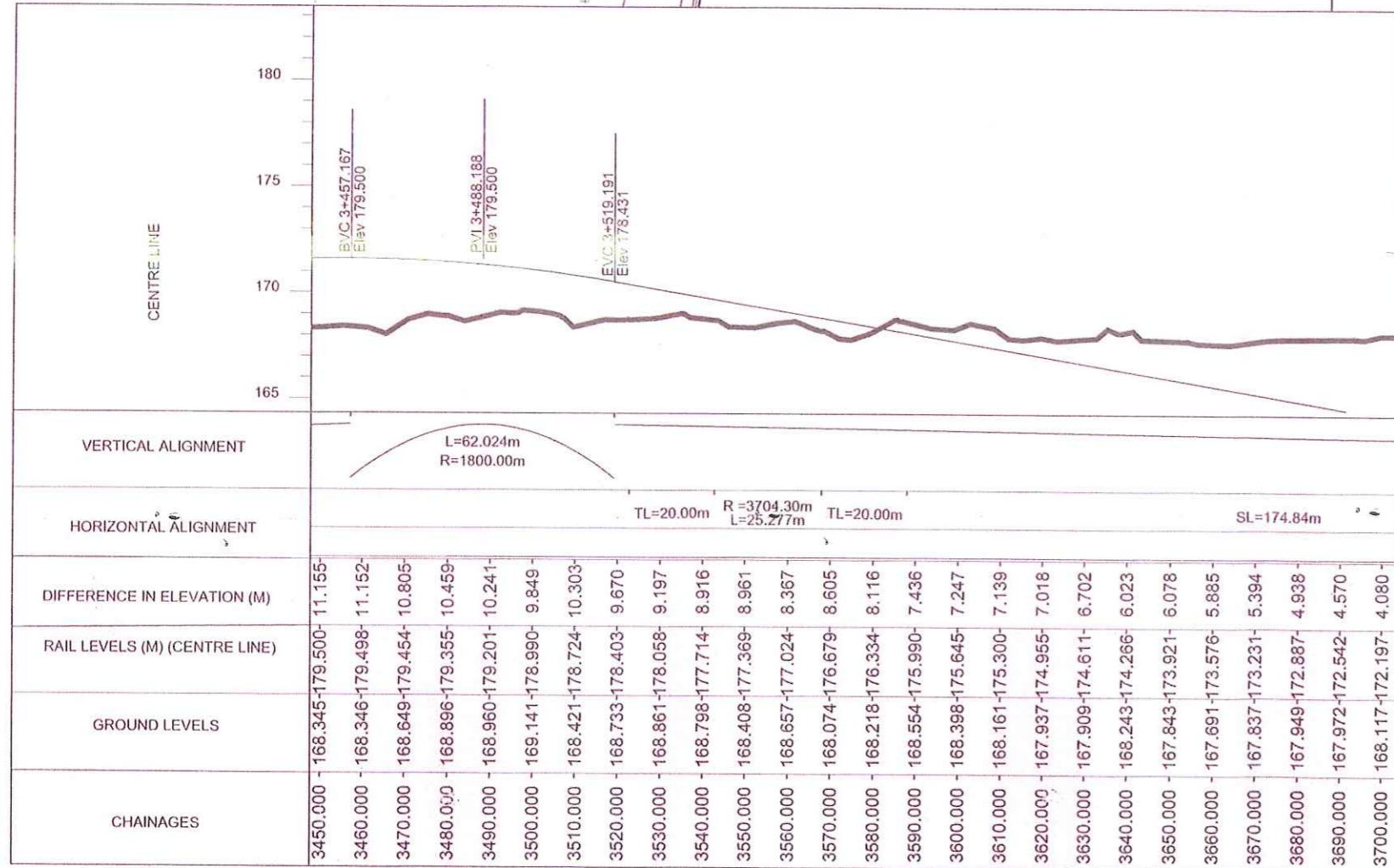
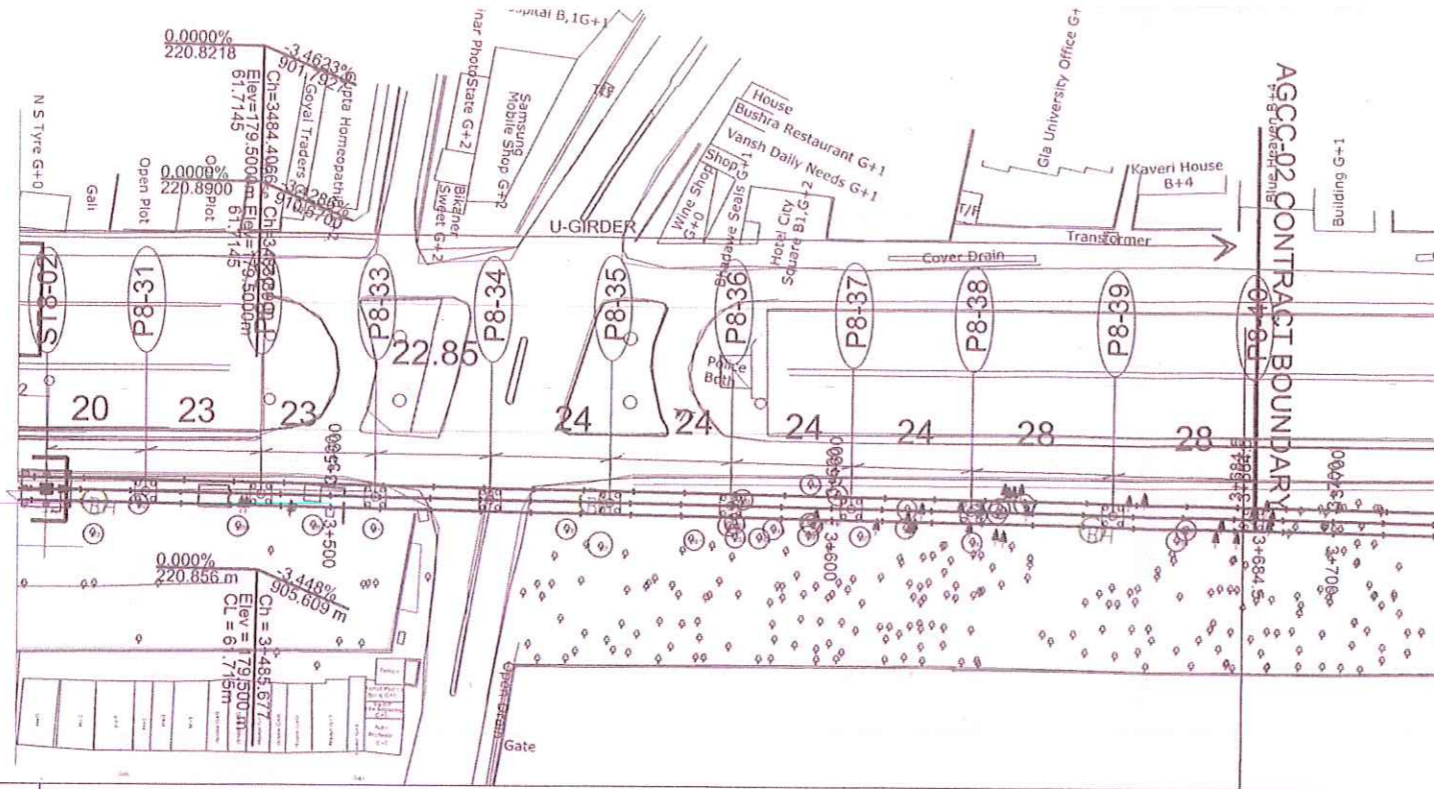
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TATA

3TI

lipl

REVISION NO: P1



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  - FOR STATIONS LAYOUT LOCATION & DETAILS REFER LATEST ARCHITECTURAL DRAWINGS.
  - PROPOSED SPAN LENGTH ARE INDICATIVE ONLY. EXACT PIER LOCATION/SPAN LENGTH SHALL BE PROPOSED BY THE CONTRACTOR DURING DETAILED DESIGN.
  - DIMENSION SHOWN HERE ARE INDICATIVE ONLY. ACTUAL DIMENSION SHALL BE AS PER DETAILED DESIGN BY CONTRACTOR.

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT / CODAL PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT.

P1	SIGN.	SOUR. ASB. DURE. Y.	Area n. Singh	Raje. ev. K.	Abhy. Vaidy. a.	23-01-2024				
ISSUE	DRN	DSN	CHD	AR	EL	IC	ME	PE/PM	APPD	DATE

DETAIL DESIGN CONSULTANT

TATA CONSULTING ENGINEERS LIMITED

3TI PROGETTI S.p.A. (ITALY)

LIPL LEAP INFRASTRAYS PRIVATE LIMITED (PUNJAB)

THIS DRAWING, DESIGN AND DETAILING HAVE BEEN PROOF CHECKED BY US AND IS SUITABLE FOR EXECUTION AND IS APPROVED.

SIGN.	DATE	NAME	DESIGNATION
[Signature]	23.01.2024	ASO	SE
[Signature]	23.01.2024	MSJ	SSR
[Signature]	23.01.2024	BKJ	CSE

GENERAL CONSULTANT

Consortium of Tecnica y Proyectos, S.A. and Italferr S.P.A.

710, 7th Floor, Cyber Heights, Vohra Khanda, Gomti Nagar, Lucknow-226016

COUNTER SIGNED BY	DATE	SIGNATURE
UPMRC	24.01.24	[Signature]
UPMRC	24/01	[Signature]
UPMRC	25/1/24	[Signature]
UPMRC	23/01	[Signature]

PROJECT: UTTAR PRADESH METRO RAIL CORPORATION LTD. AGRA METRO RAIL PROJECT-CORRIDOR 1 AGCC-05: BALANCE ELEVATED SECTION FROM SIKANDRA TO RBS RAMP

CLIENT: UP METRO RAIL CORPORATION LTD.

LOCATION: BALANCE ELEVATED SECTION FROM SIKANDRA TO RBS RAMP

TITLE: TRACK ALIGNMENT GAD (TOPO REFERENCE) SHEET 09 OF 09

SCALE: 1:750 DATE: 23-01-2024 STAGE: TDR

DRG NO: AGCC05-11718A-TDR-AE5-CV-GAD-51828

OFFICE OF ORIGIN

TATA

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REVISION NO: P1