NOIDA METRO RAIL CORPORATION LTD.

BLOCK-III, 3rd Floor, Ganga Shopping Complex, Sector-29, Noida-201301

CONTRACT No.NGNDD-01 ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA- GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

TENDER DRAWINGS
(REVISED R1)
VOL - 1

SEP -2020

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

VIADUCT

LIST OF DRAWINGS OF CONTRACT No.NGNDD-01 GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2			
SL.	**DRAWING TITLE**	**DRAWING NO.**	**SHEET**
1	GENERAL ALIGNMENT DRAWING OF PLAN AND PROFILE	NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001	1 OF 32 TO 32 OF 32
2	GENERAL ARRANGEMENT DRAWINGS	NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001	1 OF 32 TO 32 OF 32
3	TYPICAL PIER CAP CROSS SECTION AND U GIRDER	NGNDD-01-LKT-NMRC-ST-03-CP-ST-3001	1 OF 1
4	TYPICAL SPAN PLAN AND ELEVATION OF SUPER STR	NGNDD-01-LKT-NMRC-ST-03-CP-ST-3002	1 OF 1
5	TYPICAL PIER CAP CROSS SECTION AND U GIRDER SECTION	NGNDD-01-LKT-NMRC-ST-03-CP-ST-3003	1 OF 1
6	STRAIGHT SPAN PRESTRESSING LAYOUT PLAN	NGNDD-01-LKT-NMRC-ST-03-CP-ST-3004	1 OF 1
7	TYPICAL DETAIL OF CAST IN SITU PORTAL BEAM AND PIER	NGNDD-01-LKT-NMRC-ST-03-CP-ST-3005	1 OF 1
8	TYPICAL DETAIL OF PRECAST PORTAL BEAM AND PIER	NGNDD-01-LKT-NMRC-ST-03-CP-ST-3006	1 OF 1
9	TYPICAL DETAIL OF CANTILEVER PIER	NGNDD-01-LKT-NMRC-ST-03-CP-ST-3007	1 OF 1
10	DETAIL OF PILE AND PILE CAP	NGNDD-01-LKT-NMRC-ST-03-CP-ST-3008	1 OF 1
11	SPACIAL SPAN OF 54.0M SUPER STR	NGNDD-01-LKT-NMRC-ST-03-CP-ST-3009	1 OF 2
12	SPACIAL SPAN OF 54.0M SUPER STR	NGNDD-01-LKT-NMRC-ST-03-CP-ST-3009	2 OF 2
13	EARTHING ARRANGEMENT	NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4001	1 OF 3
14	EARTHING ARRANGEMENT	NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4002	2 OF 3
15	EARTHING ARRANGEMENT	NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4003	3 OF 3
16	OHE MAST ANCHORES	NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4004	1 OF 1
17	DETAIL OF CABLE TRAY	NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4005	1 OF 1
18	DETAILS OF PROTECTIVE CRASH BARRIER AROUND COLUMNS	NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4006	1 OF 1
19	TYPICAL DRAWING OF BARRICADING 1M HT	NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4007	1 OF 2
20	TYPICAL DRAWING OF BARRICADING 2 M HT	NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4008	2 OF 2

PLAN AND PROFILE

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

| | | |

TO NOIDA CITY CENTRE

TO GREATER NOIDA

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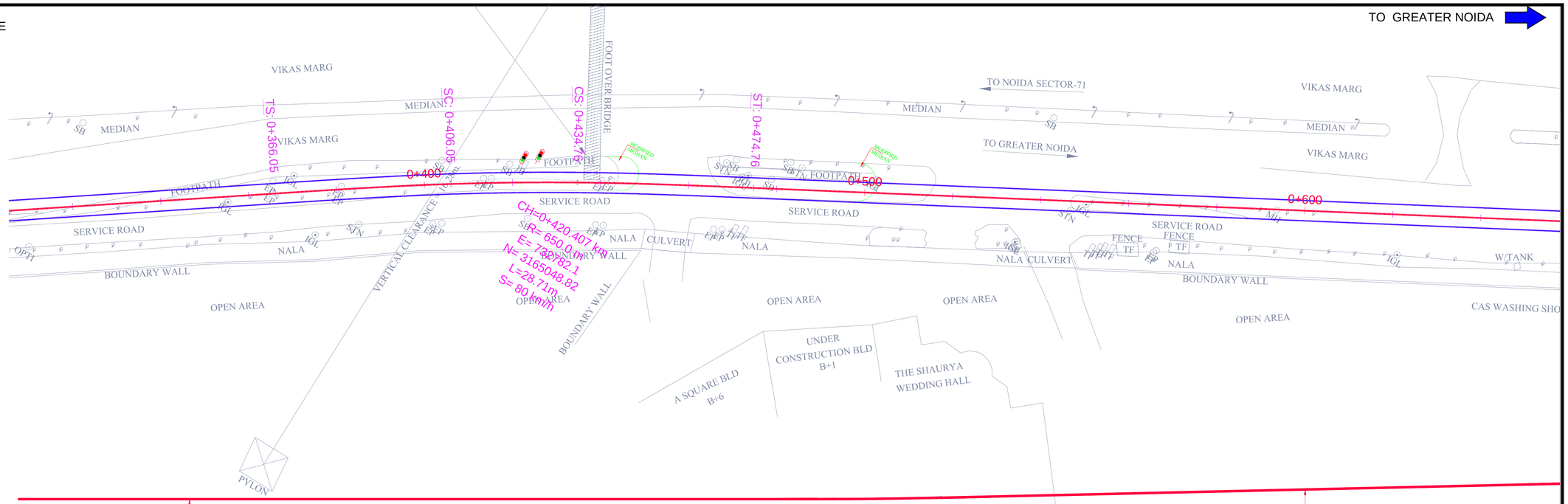

Curve No.	Curve Detail
C1	CH=0+420.407 km R= 650.0 m E= 732782.1 N= 3165048.82 A= 2.53 L=28.71m S= 80 km/h

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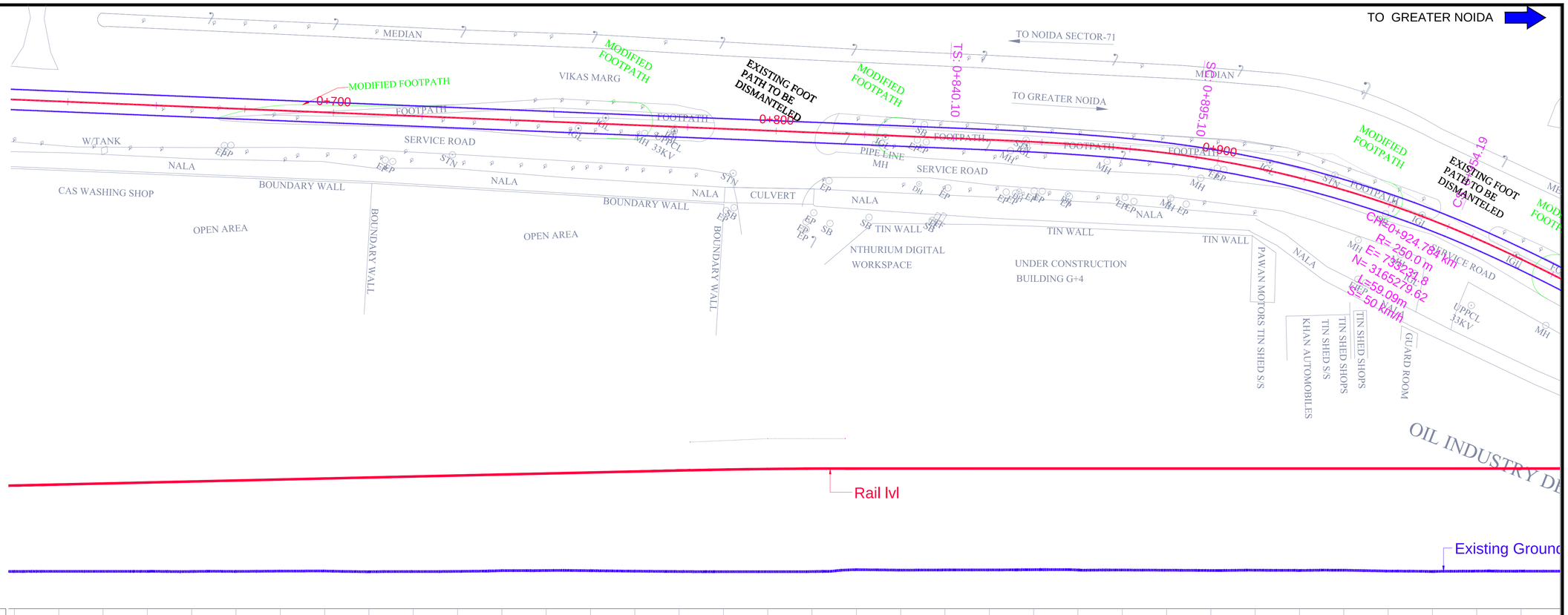

Curve No.	Curve Detail
C2	CH=0+924.784 km R= 250.0 m E= 733231.8 N= 3165279.62 A= 13.54 L=59.09m S= 50 km/h

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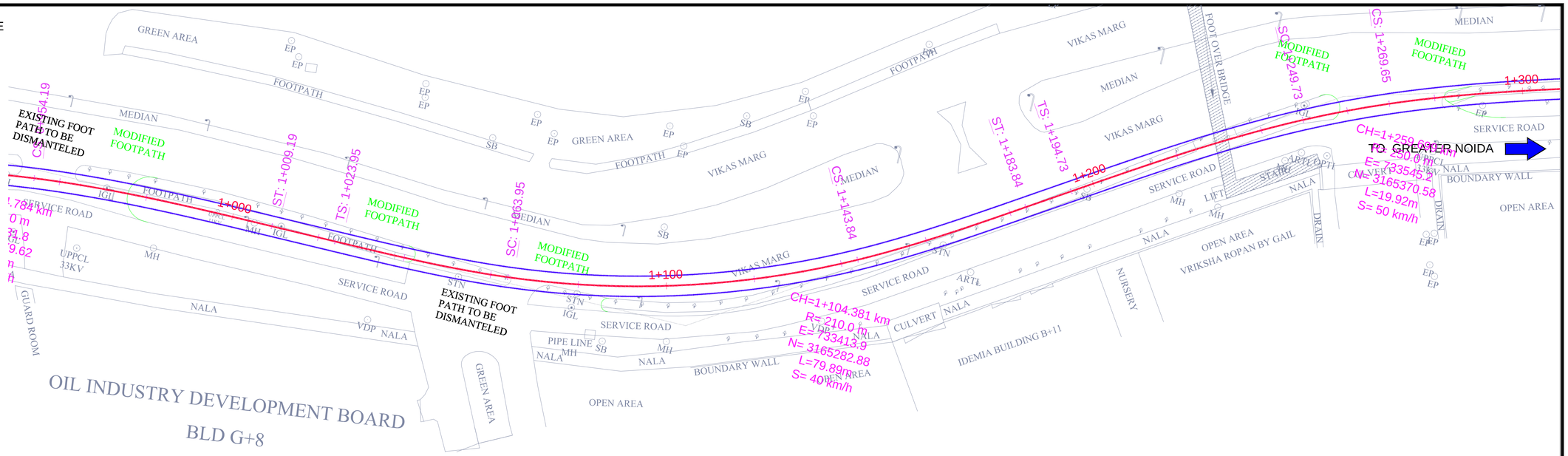

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TO NOIDA CITY CENTRE

LEGEND

TRACK CENTRE

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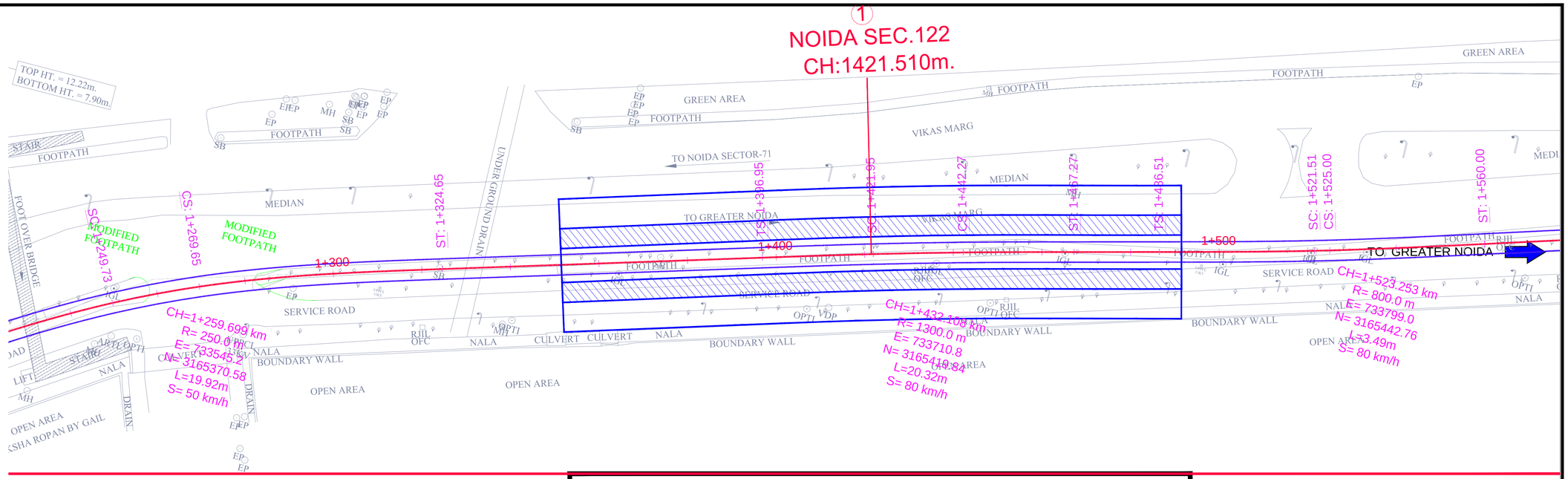

NOIDA SEC.122 CH:1421.510m.

Existing Ground Levels

| | | |

TO NOIDA CITY CENTRE

LEGEND

- TRACK CENTRE

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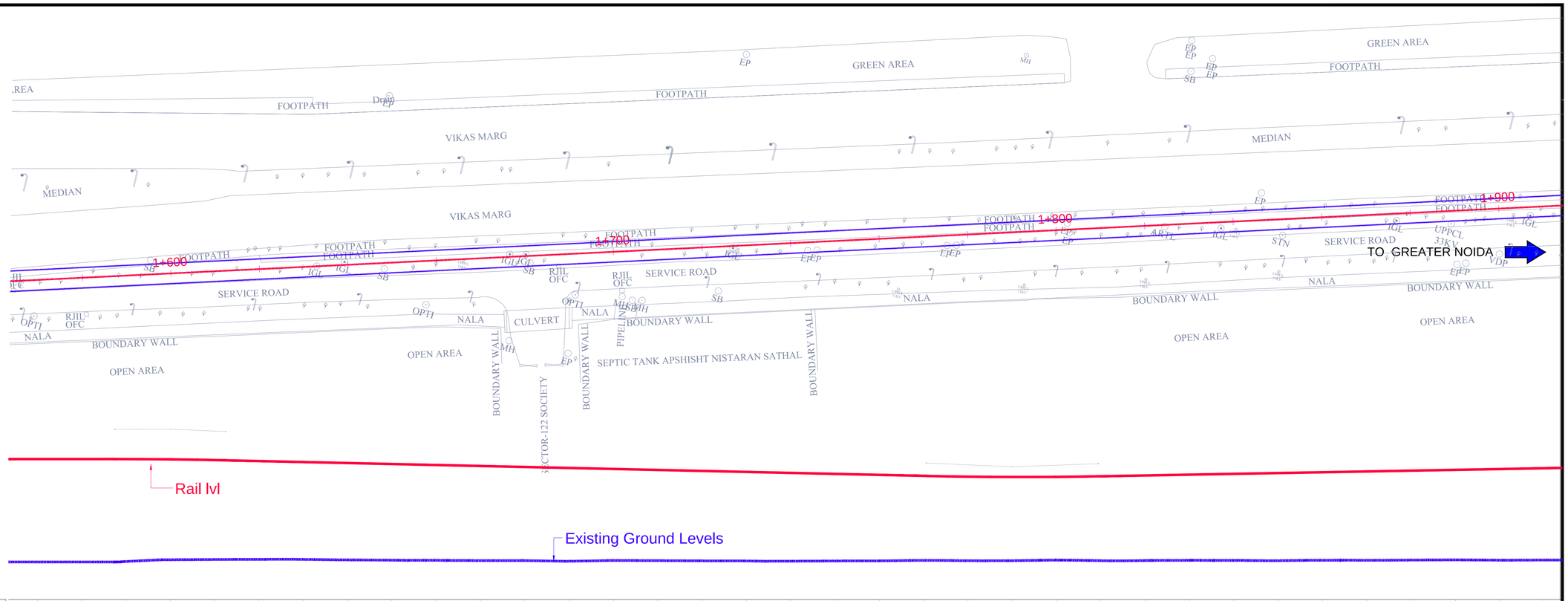

CHAINAGE	Rail lvl	Existing Ground Levels
1+570	215.850	201.750
1+580	215.850	201.758
1+590	215.849	201.857
1+600	215.836	202.255
1+610	215.805	202.308
1+620	215.761	202.011
1+630	215.716	202.339
1+640	215.671	202.218
1+650	215.626	202.147
1+660	215.582	202.113
1+670	215.537	202.000
1+680	215.492	202.070
1+690	215.447	201.887
1+700	215.403	202.087
1+710	215.358	202.049
1+720	215.313	202.153
1+730	215.268	201.986
1+740	215.224	201.927
1+750	215.179	201.971
1+760	215.134	201.996
1+770	215.089	202.093
1+780	215.054	202.016
1+790	215.039	202.031
1+800	215.045	202.181
1+810	215.072	202.041
1+820	215.108	202.067
1+830	215.144	202.113
1+840	215.181	202.102
1+850	215.217	202.033
1+860	215.253	202.124
1+870	215.289	202.120
1+880	215.325	202.182
1+890	215.361	202.232
1+900	215.397	202.146
1+910	215.433	202.182

Vertical Geometry: Rc=5588.24, Lc=25.00, K=55.882 | L=158.07, G=-0.45% | Rc=4806.62, Lc=38.86, K=48.066 | L=142.97, G=0.36%

Horizontal Geometry: ɔut=800.000, Length=35.000 | =3.492, Delta=179.7499 | ɹt=INFINITY, Length=35.000 | L=526.21m

ELEVATION

TENTATIVE TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

L E G E N D

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1	Road	ROAD	15	Bridge		29	U. P., Pvt., Co, Ltd.,	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Indraprastha G. Ltd,	
6	POND	POND	20	Man Hole	MH	34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F.Cable	OFC	36	Junction Box	
9	PARK/GREEN	PARK	23	Vodafone OFC	VOFC	37	Electric Pole	
10	Building	BLD	24	Transformer	TF	38	Bore Hole	
11	Shop	SHOP	25	Airtel OFC	AOFC	39	Sign Board	
12	Shed	SHED	26	Flood Light	FL	40	Tree No.	
13	Temple	TMPL	27	Km Stone	KM	41	Gtr.N.Ind.Dvp.Athy.	
14	Gate		28	Handpump	HP	42	Noida,Pwr,Co,Ltd,	

TO NOIDA CITY CENTRE — TO GREATER NOIDA

KEY PLAN:

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS	Vibhas	26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH:1+570 to 1+910

SCALE 1:200
DATE SEP-20
REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001
6 OF 32

TO NOIDA CITY CENTRE

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
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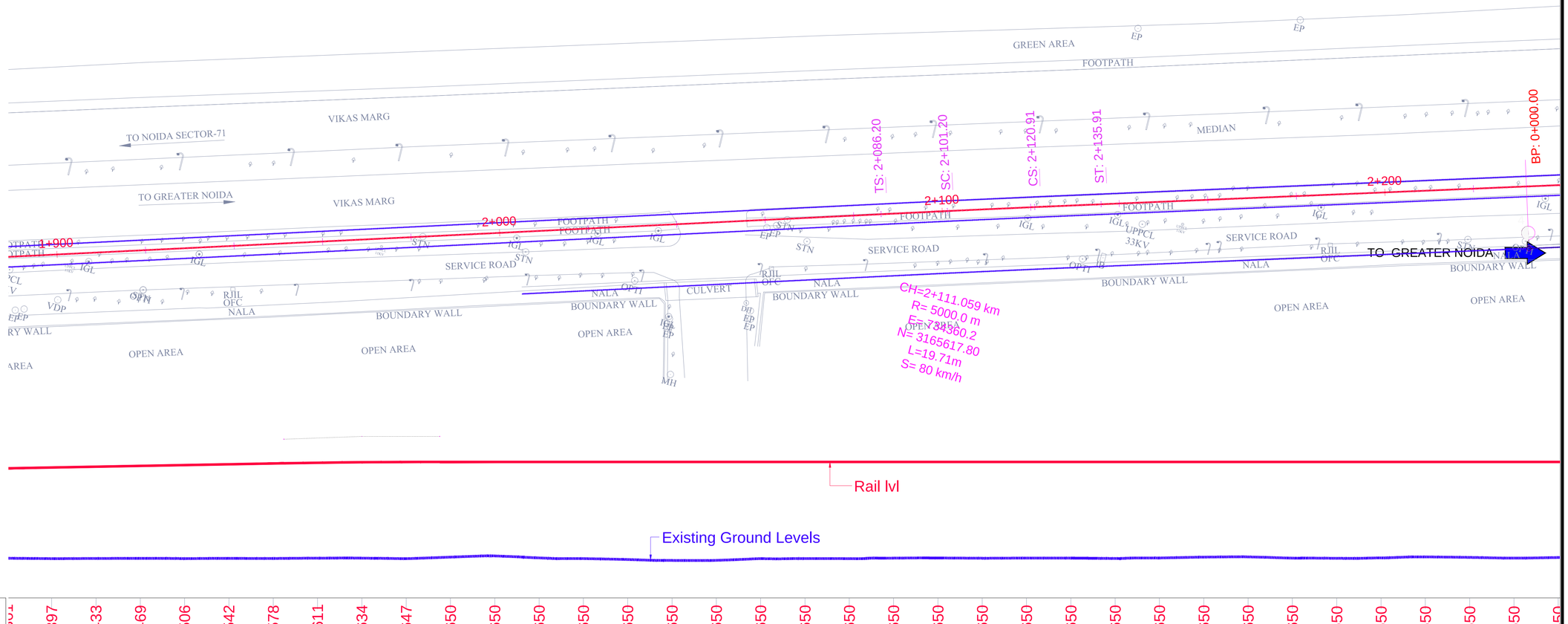

| | | |

TO NOIDA CITY CENTRE

2

LEGEND

- TRACK CENTRE

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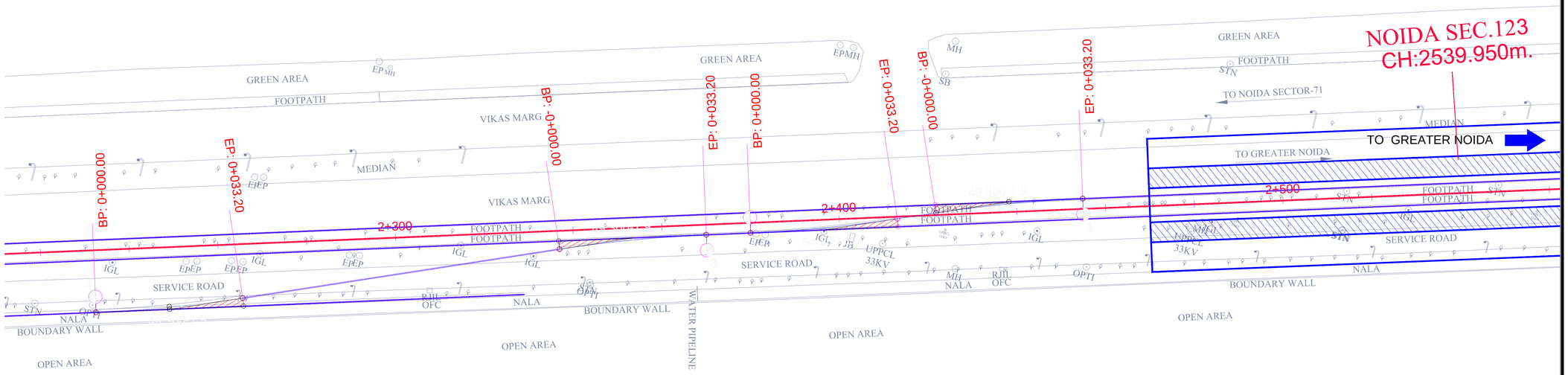

Rail lvl

NOIDA SEC.123 CH:253

Existing Ground Levels

CHAINAGE	Rail lvl	Existing Ground Levels
2+220	215.650	202.435
2+230	215.650	202.218
2+240	215.650	202.406
2+250	215.650	202.466
2+260	215.650	202.319
2+270	215.650	201.959
2+280	215.650	202.338
2+290	215.650	202.287
2+300	215.650	202.226
2+310	215.650	202.360
2+320	215.650	202.384
2+330	215.650	202.490
2+340	215.650	202.325
2+350	215.650	202.130
2+360	215.650	202.338
2+370	215.650	202.385
2+380	215.650	202.279
2+390	215.650	202.080
2+400	215.650	202.374
2+410	215.650	202.235
2+420	215.650	202.047
2+430	215.650	202.112
2+440	215.650	201.732
2+450	215.650	202.146
2+460	215.650	201.878
2+470	215.650	201.989
2+480	215.650	202.010
2+490	215.650	202.015
2+500	215.650	202.030
2+510	215.650	202.200
2+520	215.650	202.250
2+530	215.650	201.780
2+540	215.650	201.838
2+550	215.650	202.289
2+560	215.650	202.145

Vertical Geometry: L=779.90, G=0.00%

Horizontal Geometry

ELEVATION

TENTATIVE TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
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FLAT NO. 75/288 SFS G-8-A
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NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

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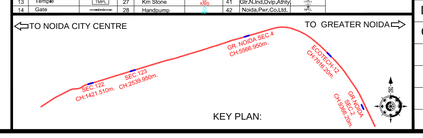
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole		33	Krishnaprabha G. Ltd,	
6	POND		20	Man Hole		34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F.Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building		24	Transformer		38	Bore Hole	
11	Shop	SHOP	25	Airtel OFC		39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	
13	Temple	TMPL	27	Km Stone		41	Gtr.N.Ind.Dvp.Athy.	
14	Gate		28	Handpump		42	Noida,Pwr.Co.Ltd.,	



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DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

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DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH:2+230 to 2+560

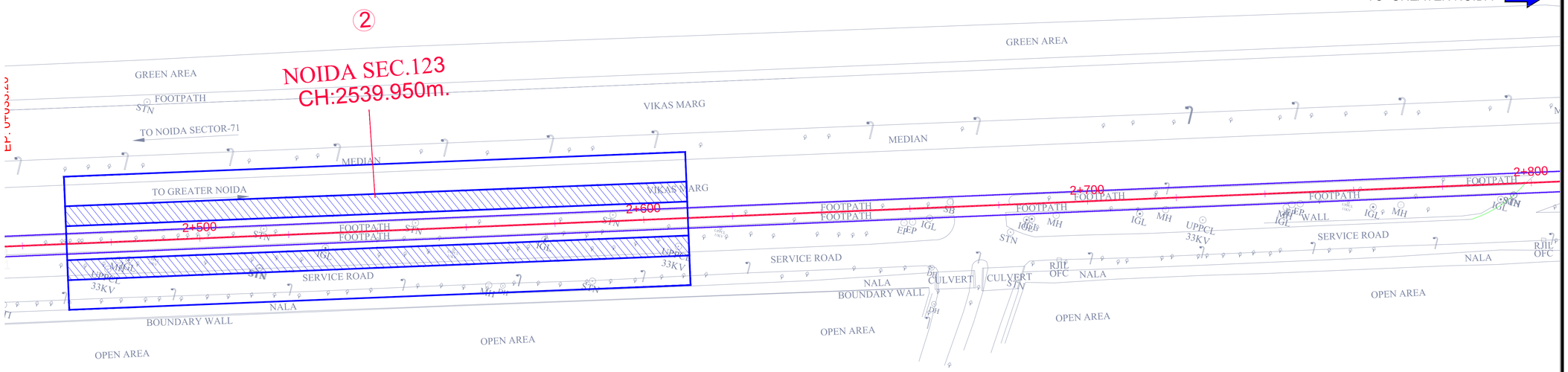
SCALE 1:200
DATE SEP-20
REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

2



NOIDA SEC.123 CH:2539.950m.

Rail lvl

Existing Ground Levels

ELEVATION

| | | |

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE
- Ls - LENGTH OF SPIRAL
- Lc - CIRCULAR CURVE LENGTH
- VCL - VERTICAL CURVE LENGTH
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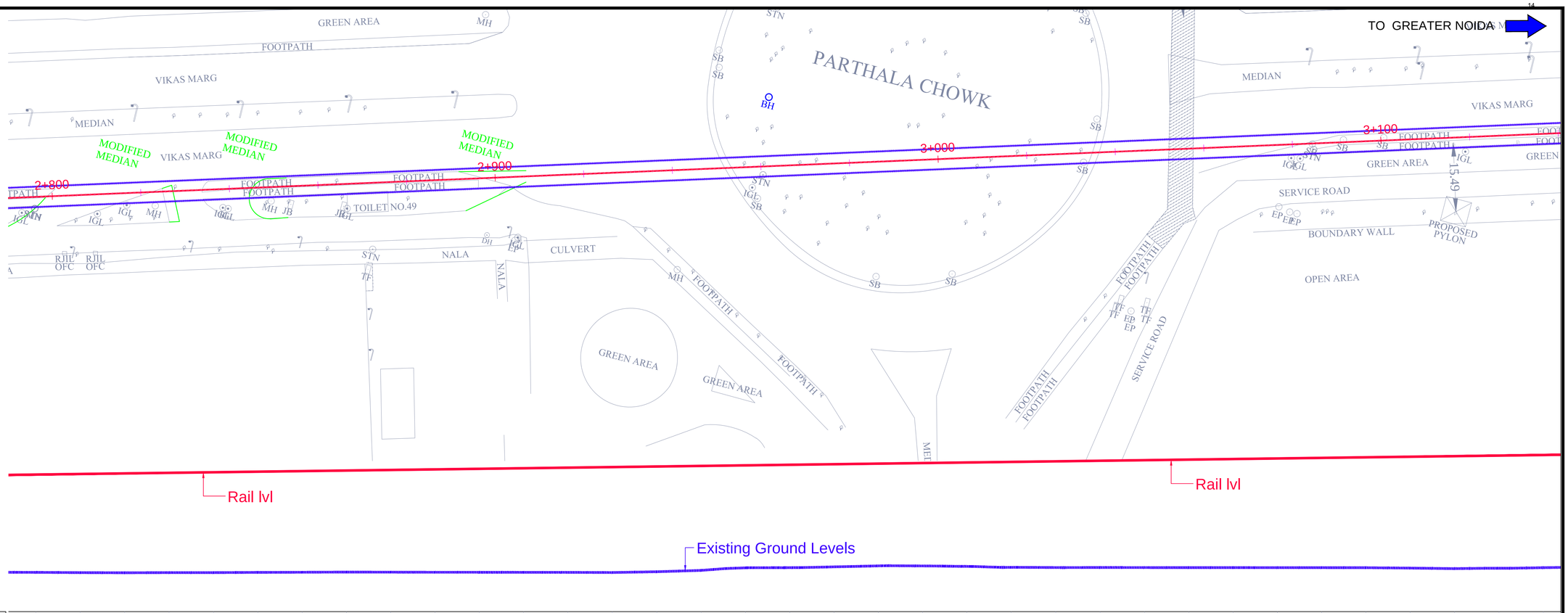

CHAINAGE	Vertical Geometry	Horizontal Geometry	Existing Ground Levels	Rail lvl
2+800			202.150	215.702
2+810			201.877	215.728
2+820			202.220	215.754
2+830			201.868	215.780
2+840			202.185	215.806
2+850			202.179	215.832
2+860			202.165	215.858
2+870			201.967	215.884
2+880			202.190	215.910
2+890			202.300	215.936
2+900			202.600	215.962
2+910			201.967	215.988
2+920			202.156	216.013
2+930			202.121	216.039
2+940			201.937	216.065
2+950			201.831	216.091
2+960			203.182	216.117
2+970			203.223	216.143
2+980			203.397	216.169
2+990			203.259	216.195
3+000			203.241	216.221
3+010			203.235	216.247
3+020			203.230	216.273
3+030			203.226	216.299
3+040			203.220	216.325
3+050			202.654	216.351
3+060			203.120	216.377
3+070			203.000	216.403
3+080			202.728	216.429
3+090			203.215	216.455
3+100			203.211	216.481
3+110			202.906	216.507
3+120			202.956	216.533
3+130			203.082	216.559
3+140			202.979	216.585

Vertical Geometry: L=495.00, G=0.26%

ELEVATION

TENTATIVE TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
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L E G E N D

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5	Electric Line		19	Drain Hole		33	Indraprastha G. Ltd.	
6	POND		20	Man Hole		34	Wall	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable		36	Junction Box	
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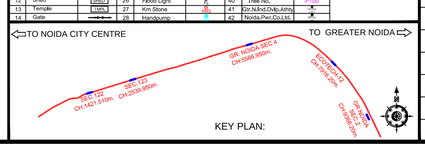
10	Building		24	Transformer		38	Bore Hole	
11	Shop		25	Airtel OFC		39	Sign Board	
12	Shed		26	Flood Light		40	Tree No.	
13	Temple		27	Km Stone		41	Gn.N.Ind.Dvlp.Athty.	
14	Gate		28	Handpump		42	Noida Pwr.Co.Ltd.	



QUALITY ASSURANCE

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NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH:2+800 to 3+140

SCALE 1:200

DATE SEP-20

REV. R1

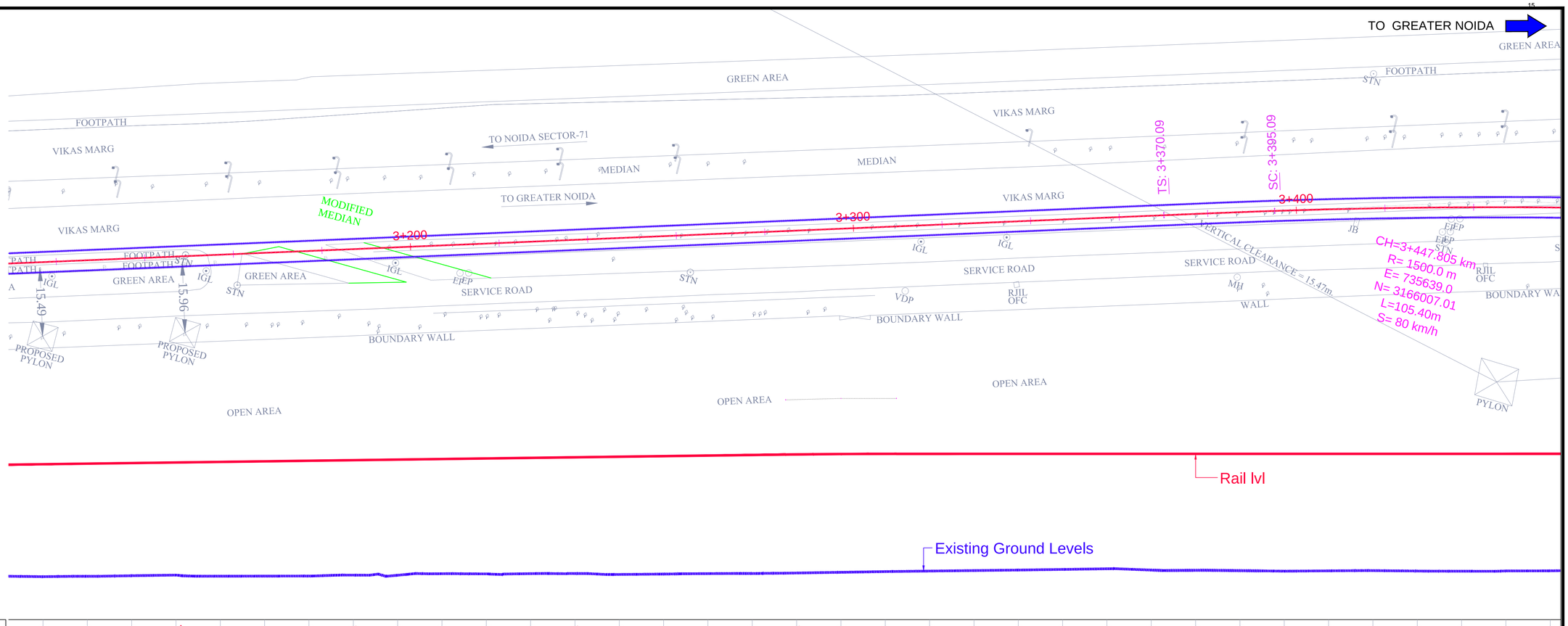
DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE
- Ls - LENGTH OF SPIRAL
- Lc - CIRCULAR CURVE LENGTH
- VCL - VERTICAL CURVE LENGTH
- R - RADIUS
- G - GRADIENT
- L - LENGTH



CHAINAGE	Rail lvl	Existing Ground Levels
3+120	216.533	202.956
3+130	216.559	203.082
3+140	216.585	202.979
3+150	216.611	203.355
3+160	216.637	203.085
3+170	216.662	203.126
3+180	216.688	203.138
3+190	216.714	203.346
3+200	216.740	203.321
3+210	216.766	203.668
3+220	216.792	203.626
3+230	216.818	203.679
3+240	216.844	203.705
3+250	216.870	203.500
3+260	216.896	203.588
3+270	216.922	203.685
3+280	216.948	203.715
3+290	216.974	203.822
3+300	216.992	203.983
3+310	217.000	204.143
3+320	217.000	204.265
3+330	217.000	204.376
3+340	217.000	204.488
3+350	217.000	204.632
3+360	217.000	204.778
3+370	217.000	204.486
3+380	217.000	204.430
3+390	217.000	204.357
3+400	217.000	204.290
3+410	217.000	204.315
3+420	217.000	204.465
3+430	217.000	204.580
3+440	217.000	204.230
3+450	217.000	204.933
3+460	217.000	204.800

Vertical Geometry: Rc=9629.63, Lc=25.00, K=96.296

Horizontal Geometry: L=25.00m, R=1500.00m

Spiral 1: Radius in=INFINITY, Radius out=1

Curve 1: Radius=1500.000, Length=105.

Spiral 2: Radius in=1500.000, Radius out=I

ELEVATION

TENTATIVE TENDER DRAWINGS

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

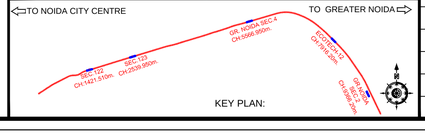
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

LEGEND

SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL
1	Road	ROAD	15	Bridge		29	U, P, Pwr, Co, Ltd,	
2	Boundary Wall		16	Bus Stop	BUSTOP	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole		33	Indraprastha G, Ltd	
6	POND	POND	20	Man Hole		34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nalla		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building	BLDG	24	Transformer		38	Bore Hole	
11	Shop	SHOP	25	Airtel OFC		39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	
13	Temple	TEMPLE	27	Km Stone		41	Gn.N,Ind,Dvlp,Athty	
14	Gate		28	Handpump		42	Noida,Pwr,Co,Ltd,	



KEY PLAN:

QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ALIGNMENT DRAWING FROM CH:3+140 to 3+460

SCALE: 1:200

DATE: SEP-20

REV.: R1

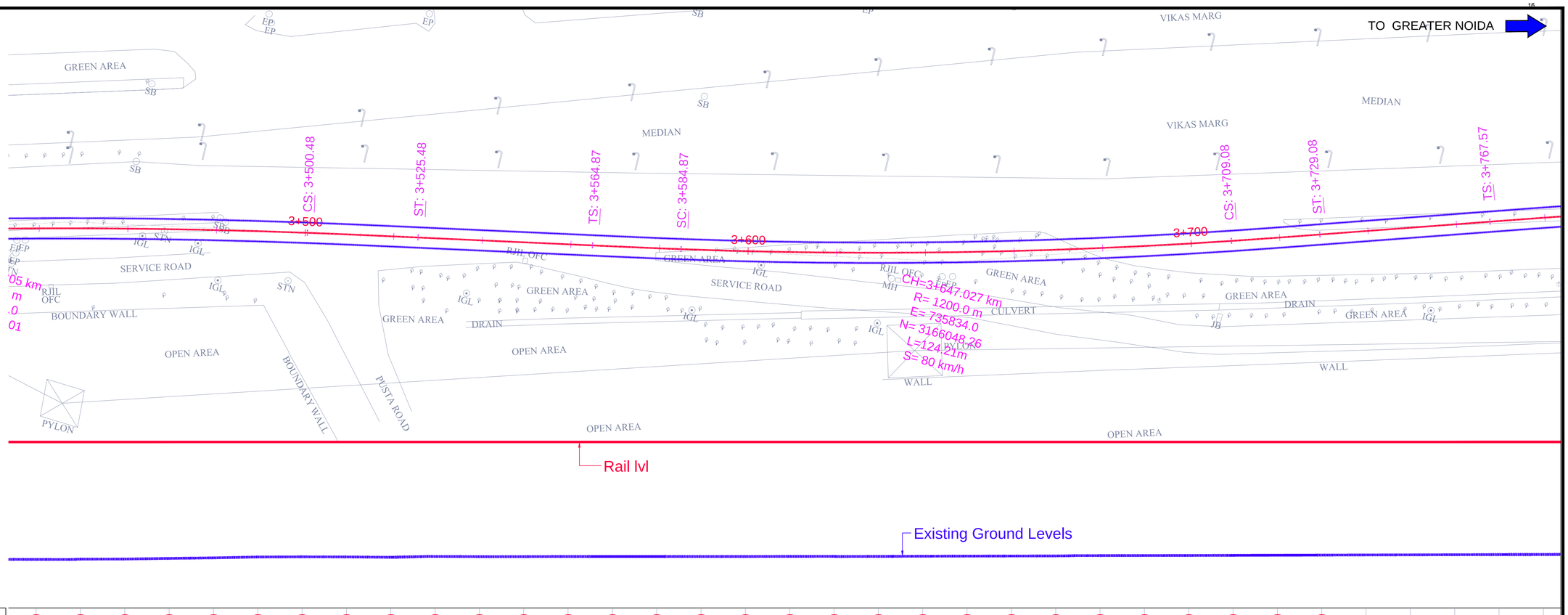
DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE
- Ls - LENGTH OF SPIRAL
- Lc - CIRCULAR CURVE LENGTH
- VCL - VERTICAL CURVE LENGTH
- R - RADIUS
- G - GRADIENT
- L - LENGTH



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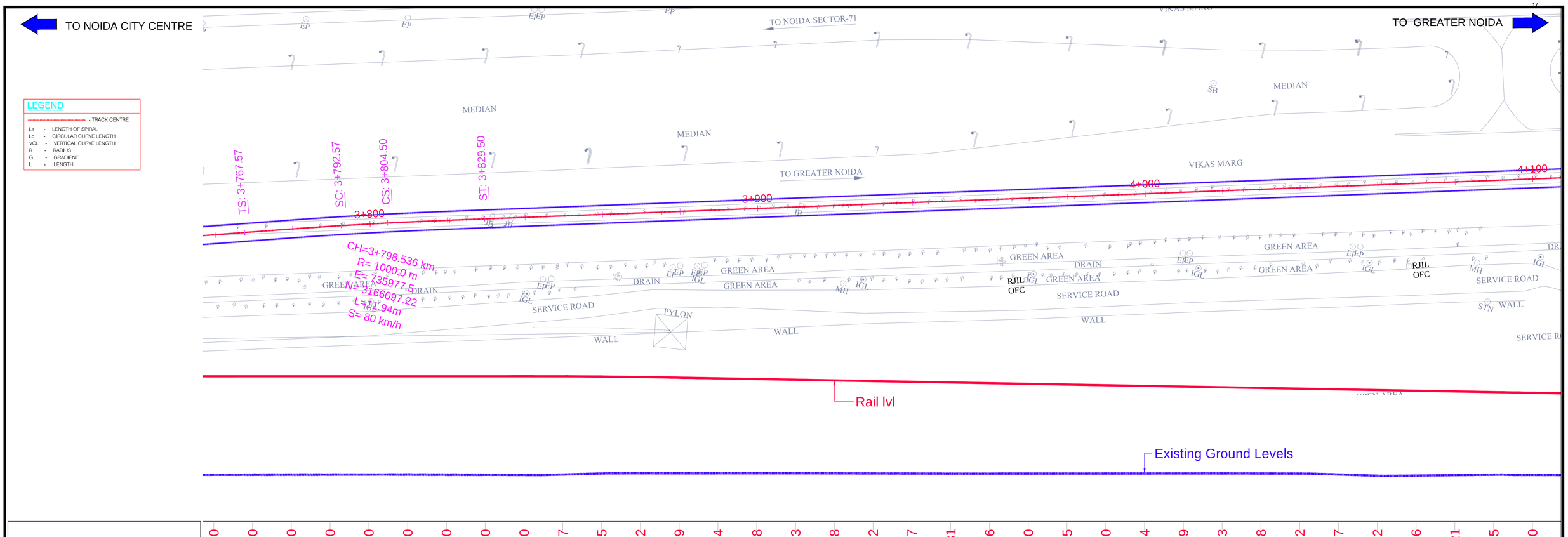


LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

Rail lvl	217.000 217.000 217.000 217.000 217.000 217.000 217.000 217.000 217.000 216.997 216.985 216.962 216.929 216.894 216.858 216.823 216.788 216.752 216.717 216.681 216.646 216.610 216.575 216.540 216.504 216.469 216.433 216.398 216.362 216.327 216.292 216.256 216.221 216.185 216.150
Existing Ground Levels	205.293 205.323 205.343 205.361 205.375 205.369 205.334 205.294 205.252 205.375 205.645 205.701 205.686 205.697 205.709 205.701 205.689 205.663 205.644 205.613 205.617 205.625 205.634 205.642 205.651 205.659 205.668 205.653 205.622 205.397 205.230 205.215 205.207 205.200 205.198
Vertical Geometry	Rc=9882.35 Lc=35.00 K=98.824 L=449.5 G=-0.35
Horizontal Geometry	L=25.00m R=1000.00m L=25.00m .: Radius in=INFINITY, Radius out=1000.000, Length=25.000 've 1: Radius=1000.000, Length=11.936, Delta=179.3161 ': Radius in=1000.000, Radius out=INFINITY, Length=25.000 L=55
CHAINAGE	3+760 3+770 3+780 3+790 3+800 3+810 3+820 3+830 3+840 3+850 3+860 3+870 3+880 3+890 3+900 3+910 3+920 3+930 3+940 3+950 3+960 3+970 3+980 3+990 4+000 4+010 4+020 4+030 4+040 4+050 4+060 4+070 4+080 4+090 4+100

ELEVATION

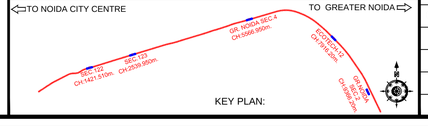
CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

LEGEND

SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U. P. Pwr. Co. Ltd.	
2	Boundary Wall		16	Bus Stop	BUStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Prajnashtha G. Ltd.	
6	POND	POND	20	Man Hole	MH	34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building	BLDG	24	Transformer		38	Bore Hole	
11	Shop	SHOP	25	Airtel OFC		39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	
13	Temple	TEMPLE	27	Km Stone		41	Xin.N.Ind.O.Adj.Ashraf	
14	Gate		28	Handpump		42	Noida.Pwr.Co.Ltd.	



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DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH:3+780 to 4+100

SCALE 1:200
DATE SEP-20
REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

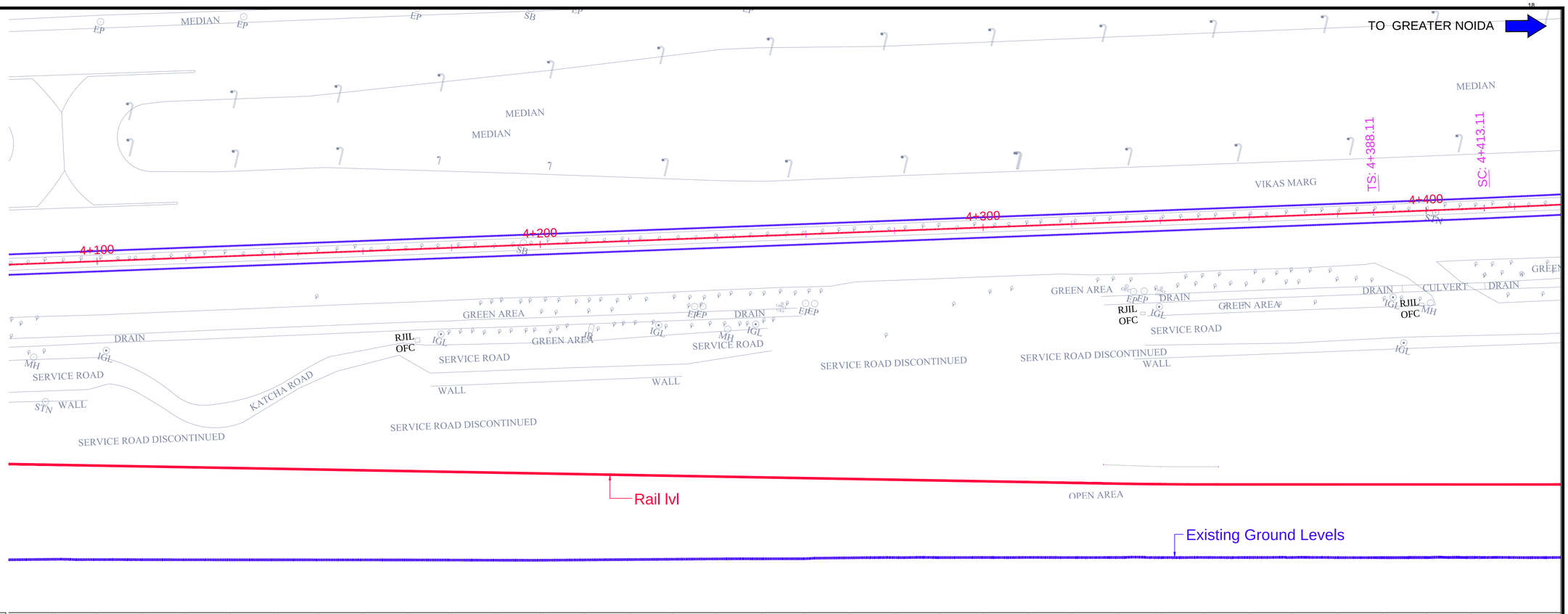
TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH



CHAINAGE	Rail lvl	Existing Ground Levels
4+090	216.221	205.207
4+100	216.185	205.200
4+110	216.150	205.198
4+120	216.115	205.195
4+130	216.079	205.180
4+140	216.044	205.154
4+150	216.008	205.125
4+160	215.973	204.278
4+170	215.938	204.712
4+180	215.902	204.426
4+190	215.867	204.661
4+200	215.831	204.896
4+210	215.796	205.440
4+220	215.760	205.185
4+230	215.725	205.264
4+240	215.690	205.342
4+250	215.654	205.421
4+260	215.619	205.262
4+270	215.583	205.460
4+280	215.548	205.664
4+290	215.512	205.719
4+300	215.477	205.711
4+310	215.442	205.735
4+320	215.406	205.744
4+330	215.371	205.727
4+340	215.336	205.732
4+350	215.311	205.717
4+360	215.300	205.738
4+370	215.300	205.736
4+380	215.299	205.746
4+390	215.299	205.707
4+400	215.299	205.701
4+410	215.299	205.727
4+420	215.298	205.737
4+430	215.298	205.727
	215.298	205.746

Vertical Geometry: L=449.50, G=-0.35%; Rc=7391.96, Lc=26.00, K=73.920

Horizontal Geometry: L=558.61m; Spiral 1: Curve Spiral 2: L=25.00m

ELEVATION

TENTATIVE TENDER DRAWINGS

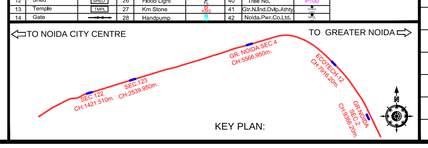
CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-45565814-18
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

LEGEND

SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL
1	Road		15	Bridge		29	LI, Pr, Pvr, Co, Ltd,	
2	Boundary Wall		16	Bus Stop		30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole		33	Indraprastha G, Ltd,	
6	POND		20	Man Hole		34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building		24	Transformer		38	Bore Hole	
11	Shop		25	Airtel OFC		39	Sign Board	
12	Shed		26	Flood Light		40	Tree No,	
13	Temple		27	Km Stone		41	Gn.N.Ind.Dvlp.Athrty	
14	Gate		28	Handpump		42	Noida.Pwr.Co.Ltd.	



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MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH: 4+100 to 4+420

SCALE 1:200
DATE SEP-20
REV. R1

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE
- Ls - LENGTH OF SPIRAL
- Lc - CIRCULAR CURVE LENGTH
- VCL - VERTICAL CURVE LENGTH
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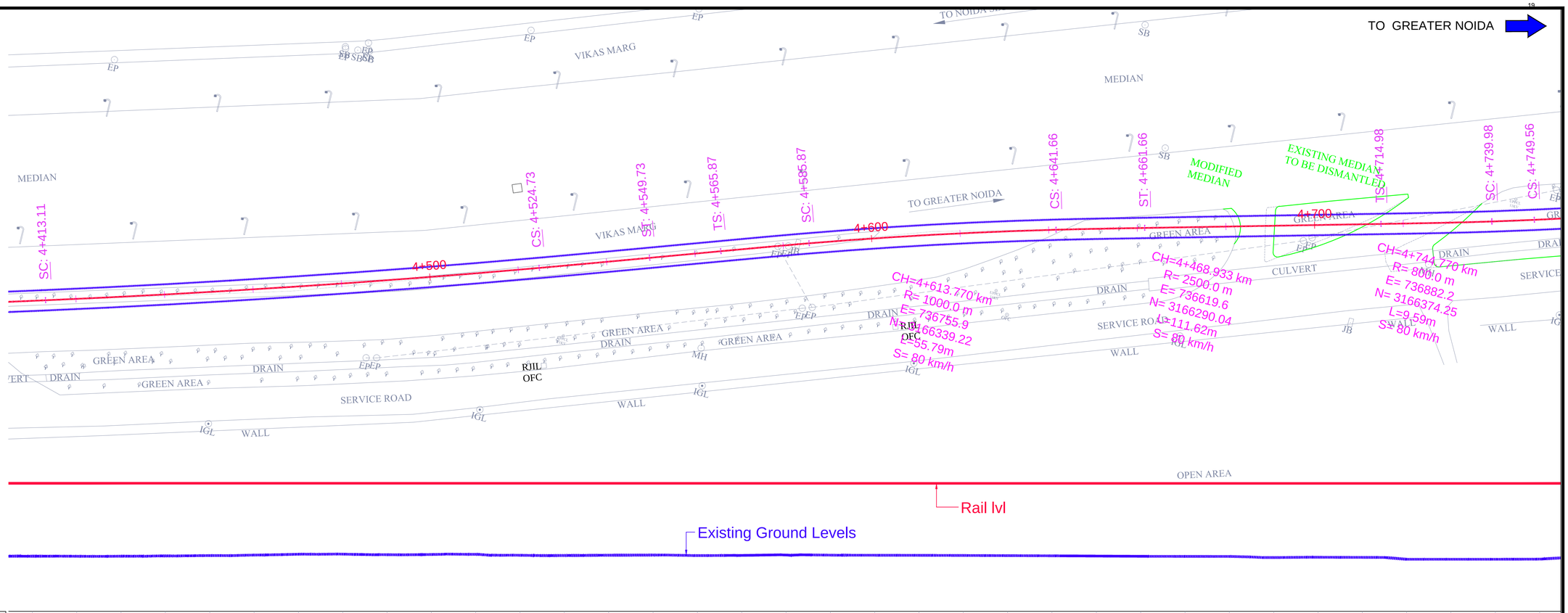
- G - GRADIENT
- L - LENGTH



| | | |

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
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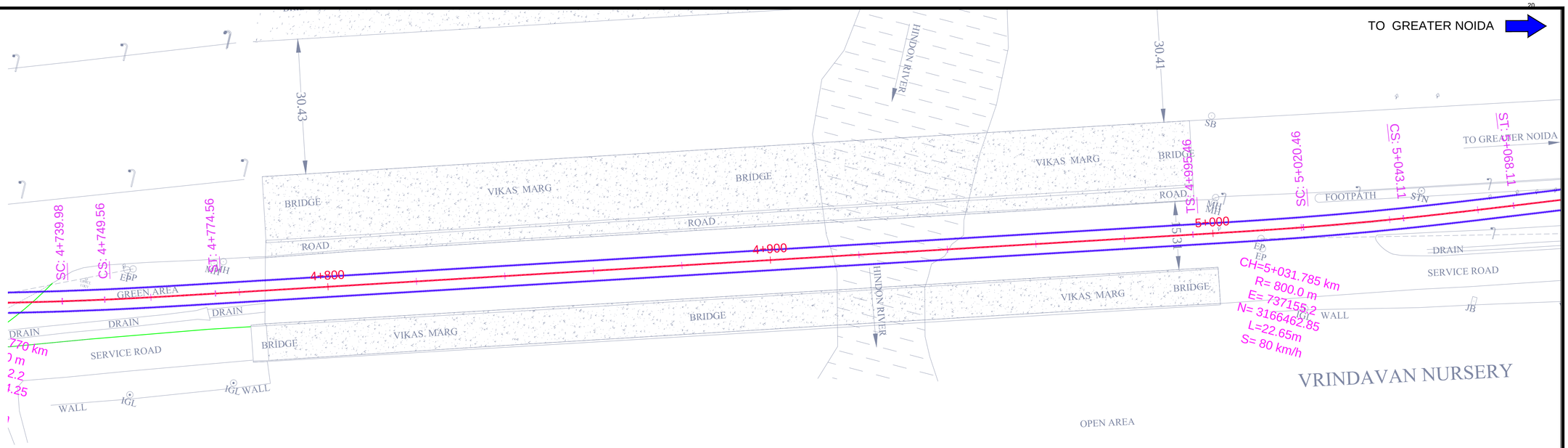
L - LENGTH



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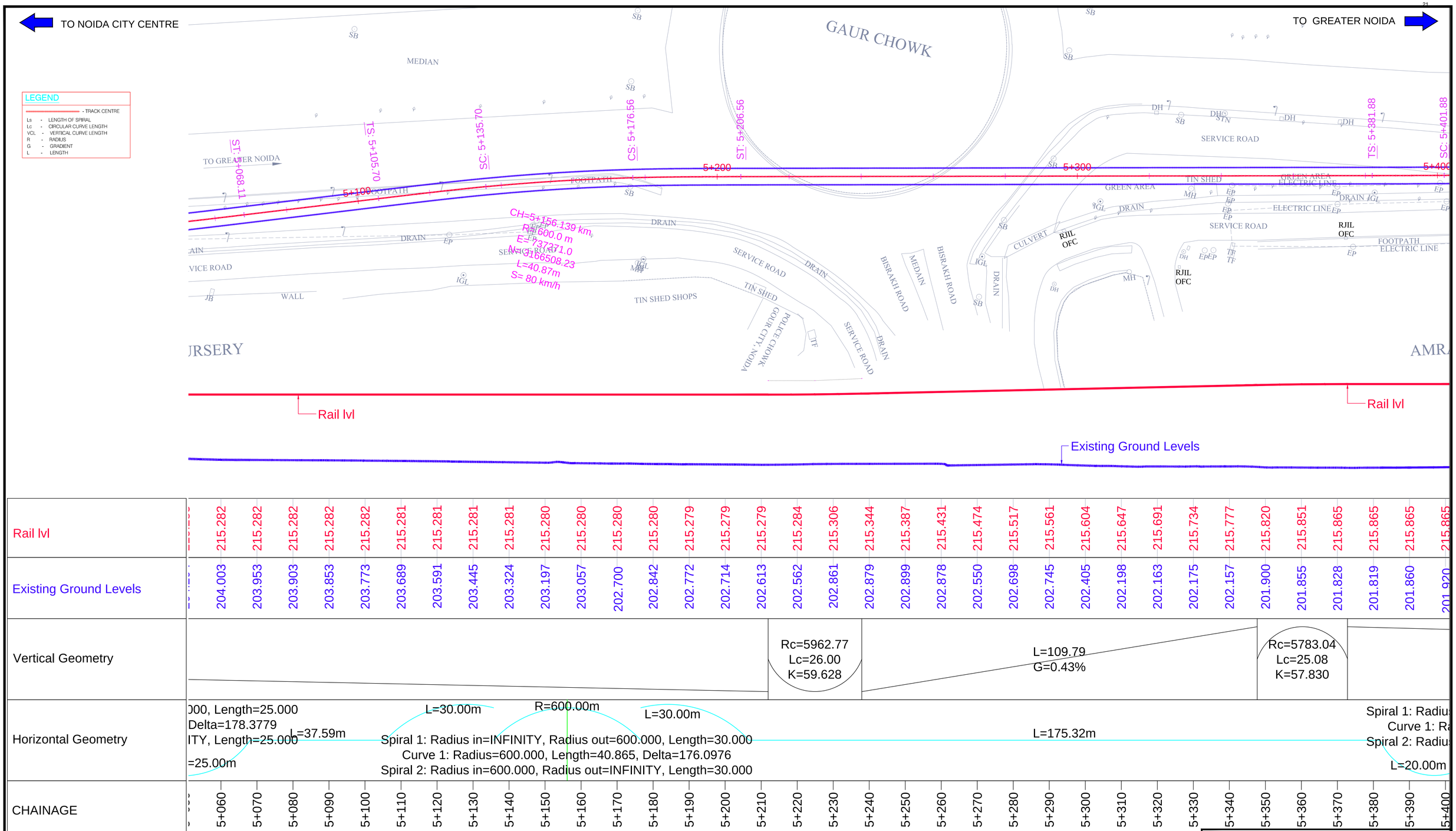
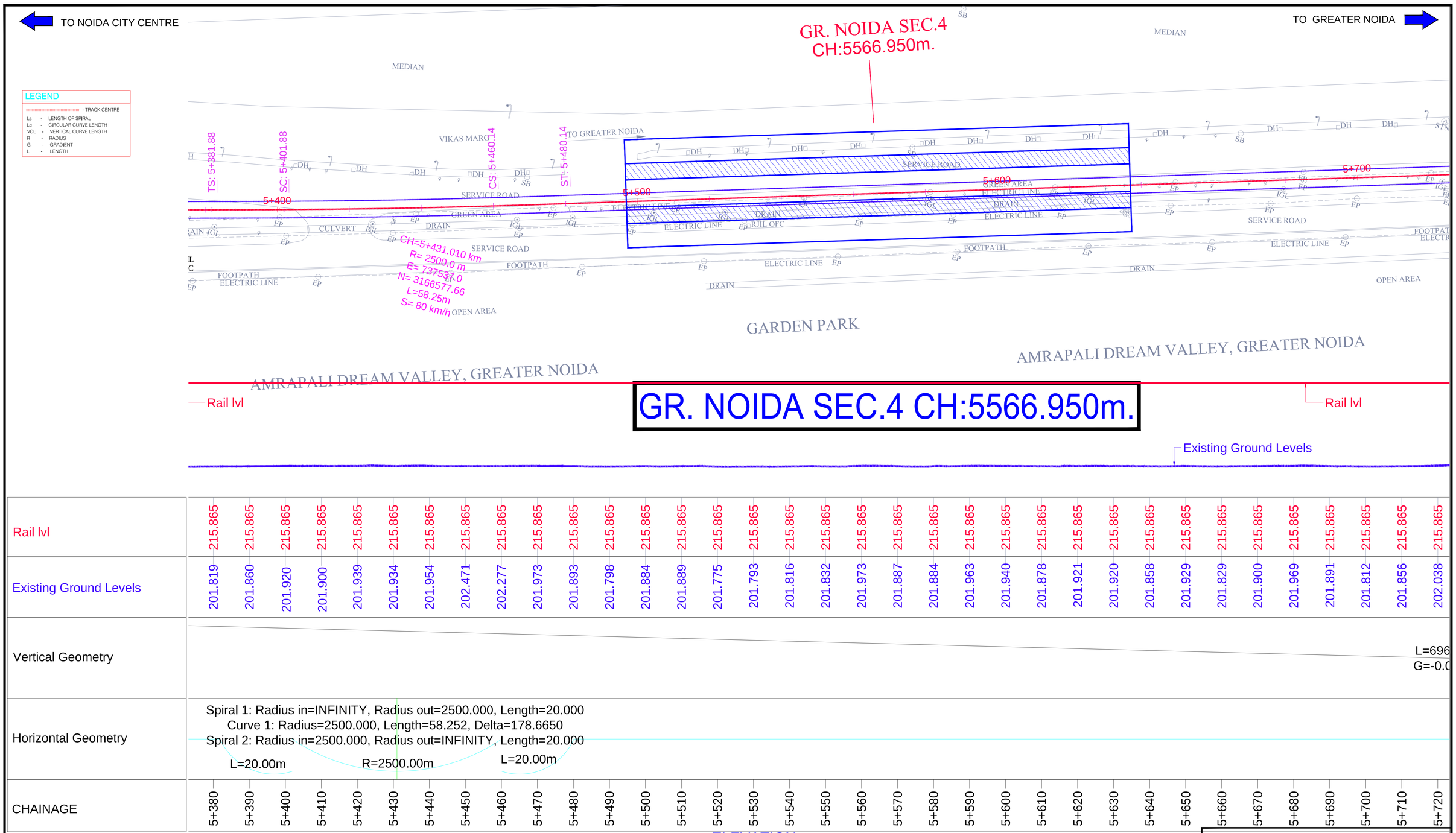

TO NOIDA CITY CENTRE
TO GREATER NOIDA
LEGEND
- TRACK CENTRE
Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH
GAUR CHOWK
MEDIAN
SERVICE ROAD
FOOTPATH
DRAIN
TIN SHED SHOPS
WALL
TIN SHED
POLICE CHOWK GOUR CITY, NOIDA
BISRAKH ROAD
MEDAIN
CULVERT
GREEN AREA
ELECTRIC LINE
RJIL OFC
TS: 5+105.70
SC: 5+135.70
CS: 5+176.56
ST: 5+206.56
TS: 5+381.88
SC: 5+401.88
5+100
5+200
5+300
5+400
CH=5+156.139 km
R=600.0 m
E=7337271.0
N=3166508.23
L=40.87m
S= 80 km/h
Rail lvl
Existing Ground Levels

| | | |


TO NOIDA CITY CENTRE
TO GREATER NOIDA
GR. NOIDA SEC.4
CH:5566.950m.
LEGEND
- TRACK CENTRE
Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH
TS: 5+381.88
SC: 5+401.88
CS: 5+460.14
ST: 5+480.14
5+400
5+500
5+600
5+700
CH=5+431.010 km
R= 2500.0 m
E= 737537.0
N= 3166577.66
L=58.25m
S= 80 km/h
MEDIAN
VIKAS MARG
SERVICE ROAD
GREEN AREA
CULVERT
DRAIN
ELECTRIC LINE
RJIL OFC
FOOTPATH
OPEN AREA
GARDEN PARK
AMRAPALI DREAM VALLEY, GREATER NOIDA
Rail lvl
GR. NOIDA SEC.4 CH:5566.950m.
Existing Ground Levels

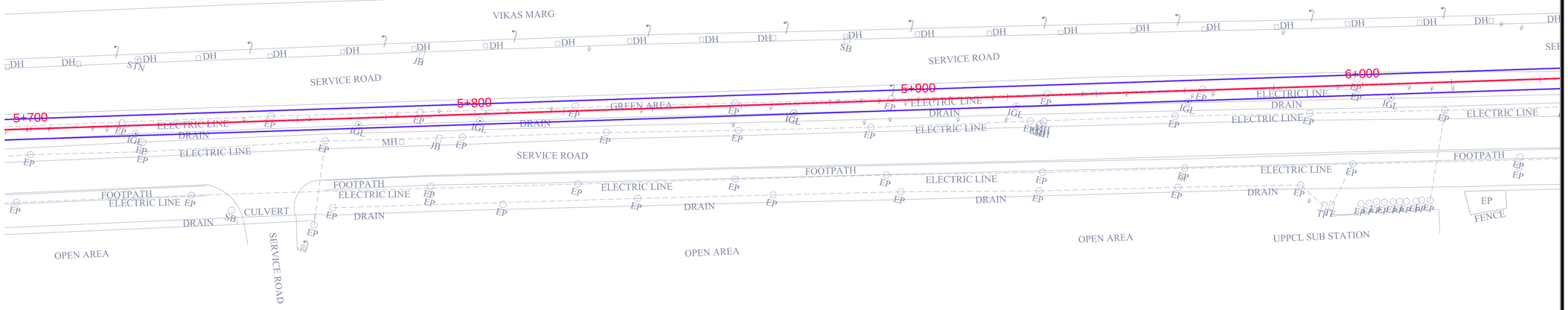
| | | |

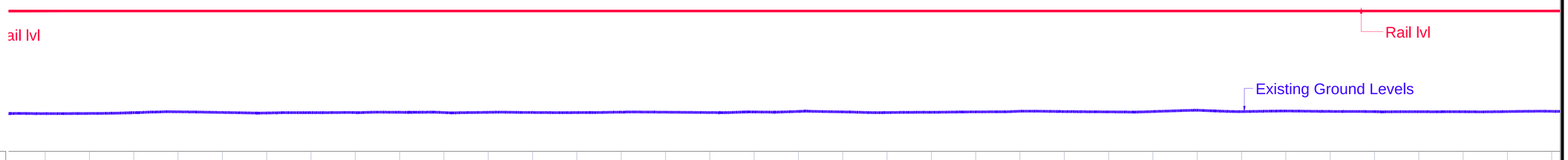
TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE
- Ls - LENGTH OF SPIRAL
- Lc - CIRCULAR CURVE LENGTH
- VCL - VERTICAL CURVE LENGTH
- R - RADIUS
- G - GRADIENT
- L - LENGTH





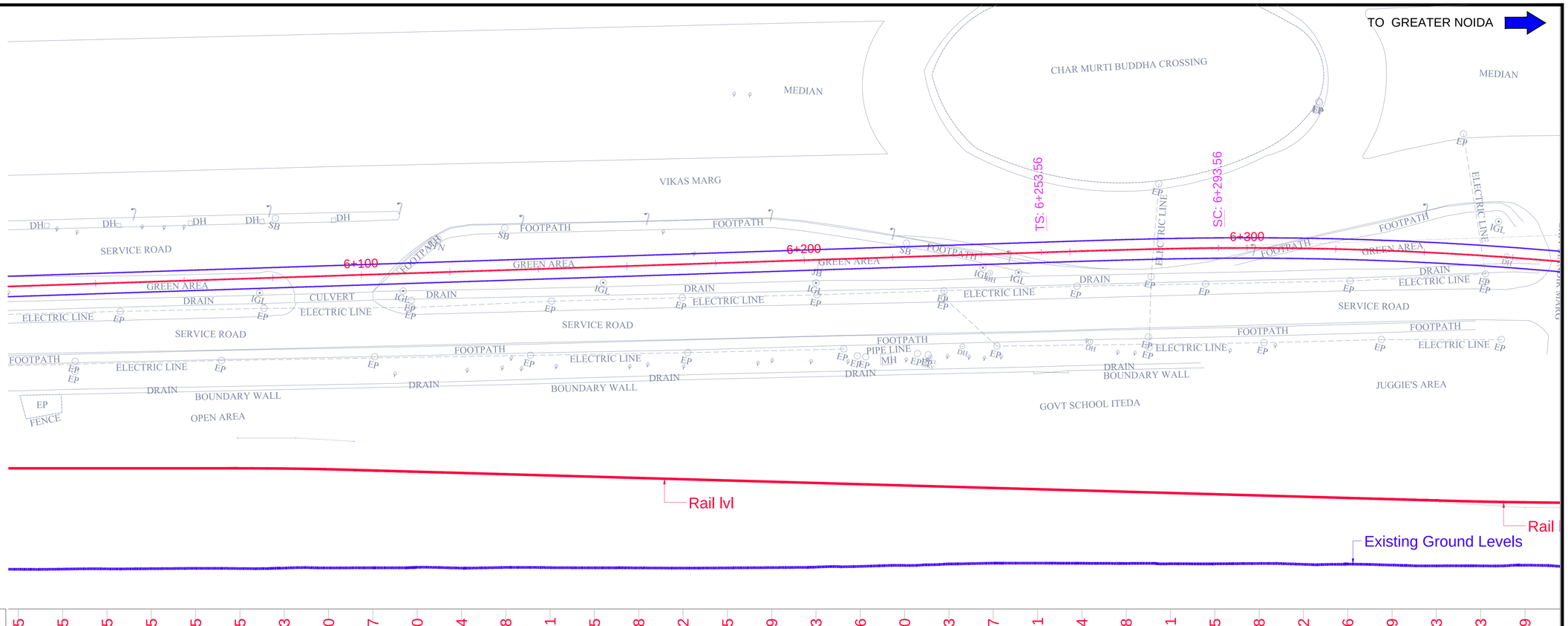
| | | |

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE
- Ls - LENGTH OF SPIRAL
- Lc - CIRCULAR CURVE LENGTH
- VCL - VERTICAL CURVE LENGTH
- R - RADIUS
- G - GRADIENT
- L - LENGTH



CHAINAGE	Rail lvl	Existing Ground Levels
6+020	215.865	202.266
6+030	215.865	202.284
6+040	215.865	202.335
6+050	215.865	202.379
6+060	215.865	202.454
6+070	215.865	202.411
6+080	215.853	202.520
6+090	215.820	202.551
6+100	215.767	202.589
6+110	215.710	202.695
6+120	215.654	202.508
6+130	215.598	202.665
6+140	215.541	202.615
6+150	215.485	202.583
6+160	215.428	202.559
6+170	215.372	202.502
6+180	215.315	202.562
6+190	215.259	202.624
6+200	215.203	202.735
6+210	215.146	202.900
6+220	215.090	203.110
6+230	215.033	203.436
6+240	214.977	203.628
6+250	214.921	203.631
6+260	214.864	203.593
6+270	214.808	203.567
6+280	214.751	203.483
6+290	214.695	203.481
6+300	214.638	203.549
6+310	214.582	203.364
6+320	214.526	203.420
6+330	214.469	203.190
6+340	214.413	202.900
6+350	214.363	202.902
6+360	214.329	202.910

Vertical Geometry: Rc=4666.67, Lc=26.32, K=46.667; L=245.04, G=-0.56%; Rc=6304.7(, Lc=38.43, K=63.048

Horizontal Geometry: L=40.00m

ELEVATION

TENTATIVE TENDER DRAWINGS

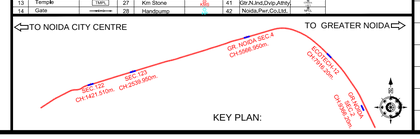
CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

L E G E N D

SLNO.	DESCRIPTION	SYMBOL	SLNO.	DESCRIPTION	SYMBOL	SLNO.	DESCRIPTION	SYMBOL
1	Road	ROAD	15	Bridge		29	U, P, Pwr, Co, Ltd,	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Indraprastha G, Ltd,	
6	POND		20	Man Hole	MH	34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable	OFC	36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC	VOFC	37	Electric Pole	
10	Building		24	Transformer		38	Bore Hole	
11	Shop	SHOP	25	Airtel OFC	AOFC	39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	
13	Temple	TEMPLE	27	Km Stone		41	GM,NJIA,Dvp,ARN	
14	Gate		28	Handpump		42	Noida,Pwr,Co,Ltd,	

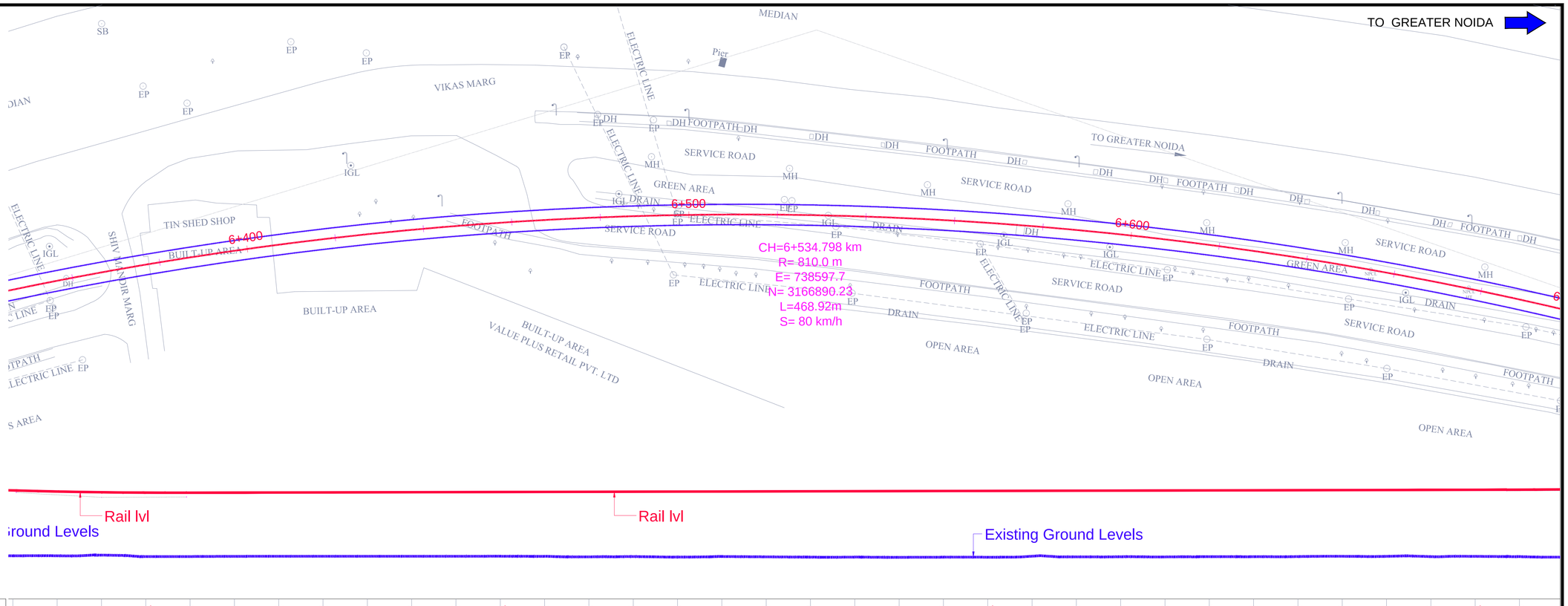


TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE
- Ls - LENGTH OF SPIRAL
- Lc - CIRCULAR CURVE LENGTH
- VCL - VERTICAL CURVE LENGTH
- R - RADIUS
- G - GRADIENT
- L - LENGTH



| | | |

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

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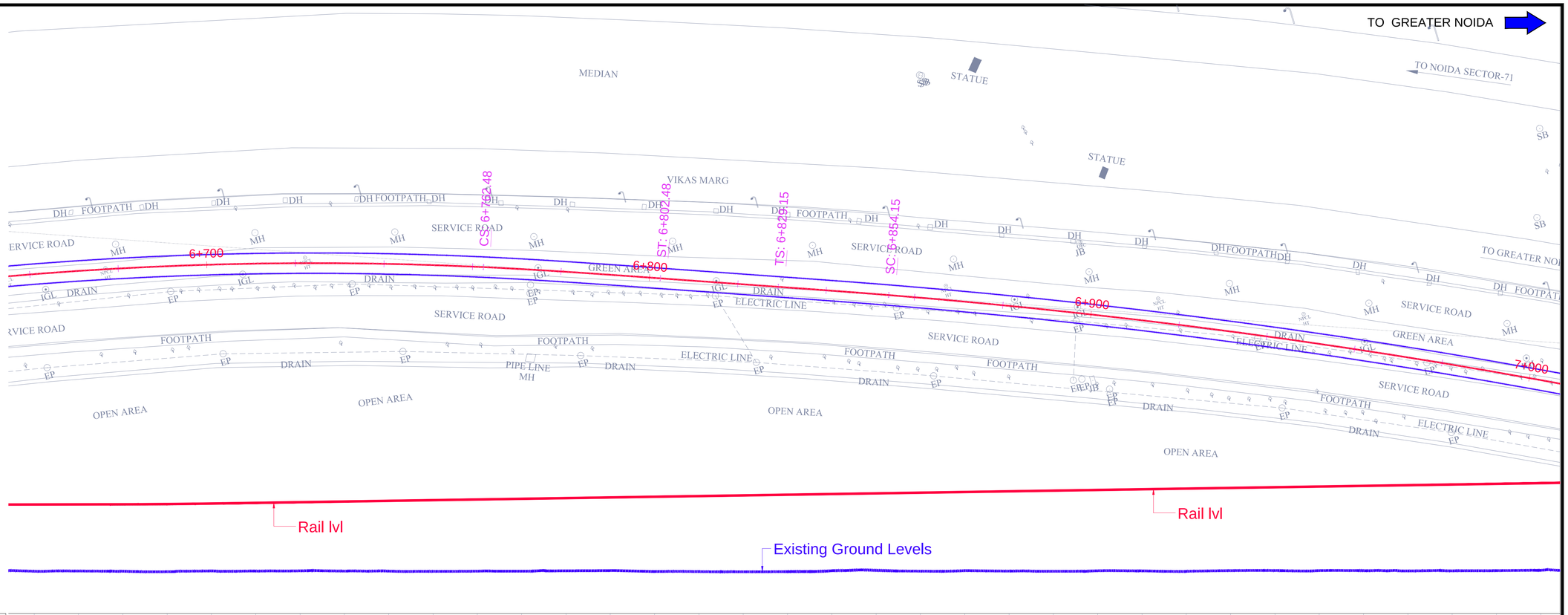


CHAINAGE	Rail lvl	Existing Ground Levels
6+660	214.436	202.833
6+670	214.441	202.889
6+680	214.446	202.843
6+690	214.459	202.732
6+700	214.481	202.907
6+710	214.511	202.867
6+720	214.542	202.930
6+730	214.573	202.873
6+740	214.603	202.858
6+750	214.634	202.800
6+760	214.664	202.845
6+770	214.695	202.854
6+780	214.725	202.934
6+790	214.756	202.988
6+800	214.786	202.770
6+810	214.817	202.754
6+820	214.848	202.716
6+830	214.878	202.747
6+840	214.909	202.959
6+850	214.939	203.041
6+860	214.970	202.853
6+870	215.000	202.972
6+880	215.031	202.862
6+890	215.061	202.825
6+900	215.092	202.944
6+910	215.122	202.922
6+920	215.153	202.808
6+930	215.184	202.981
6+940	215.214	203.002
6+950	215.245	202.993
6+960	215.275	202.976
6+970	215.306	202.909
6+980	215.336	202.932
6+990	215.367	202.977
7+000	215.397	203.056

Vertical Geometry: Rc=9800.00, Lc=25.48, K=98.000; L=515.34, G=0.31%

Horizontal Geometry: L=40.00m; L=26.67m; L=25.00m

ELEVATION

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

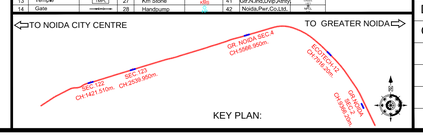
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-9-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

LEGEND

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U. P., Pwr., Co., Ltd.,	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Hydrapranha G., Ltd.,	
6	POND	POND	20	Man Hole	MH	34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building	BLDG	24	Transformer		38	Bore Hole	
11	Shop	SHOP	25	Airtel OFC		39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	P100
13	Temple	TEMPL	27	Km Stone		41	Edr.N.Ind.Dvp.Athy.	
14	Gate		28	Handpump		42	Noida,Pwr.Co.Ltd.,	



QUALITY ASSURANCE

The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of contract provisions in respect of design analysis and drawings rests with the design consultants.

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ALIGNMENT DRAWING FROM CH:6+680 to 7+00

SCALE 1:200

DATE SEP-20

REV. R1

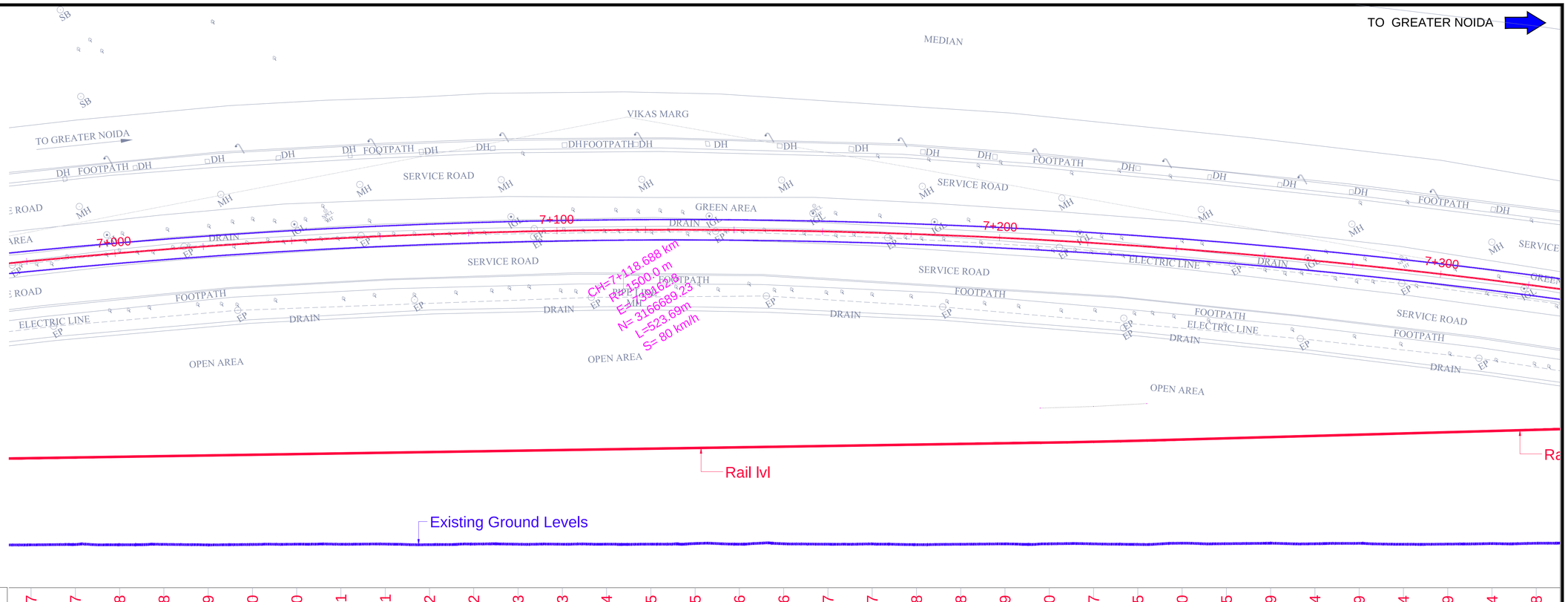
DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE
- Ls - LENGTH OF SPIRAL
- Lc - CIRCULAR CURVE LENGTH
- VCL - VERTICAL CURVE LENGTH
- R - RADIUS
- G - GRADIENT
- L - LENGTH



CHAINAGE	Rail lvl	Existing Ground Levels
6+990	215.367	202.977
7+000	215.397	203.056
7+010	215.428	202.992
7+020	215.458	203.087
7+030	215.489	202.964
7+040	215.520	203.064
7+050	215.550	203.129
7+060	215.581	203.108
7+070	215.611	203.152
7+080	215.642	203.027
7+090	215.672	203.158
7+100	215.703	203.120
7+110	215.733	203.113
7+120	215.764	203.130
7+130	215.795	203.131
7+140	215.825	203.277
7+150	215.856	203.132
7+160	215.886	203.223
7+170	215.917	203.125
7+180	215.947	203.186
7+190	215.978	203.029
7+200	216.008	203.113
7+210	216.039	203.194
7+220	216.070	203.209
7+230	216.107	203.204
7+240	216.155	203.079
7+250	216.210	203.353
7+260	216.265	203.241
7+270	216.319	203.346
7+280	216.374	203.228
7+290	216.429	203.321
7+300	216.484	203.107
7+310	216.539	203.151
7+320	216.594	203.259
7+330	216.648	203.342

Vertical Geometry: Rc=9920.00, Lc=24.10, K=99.200

Horizontal Geometry: R=1500.00m

Spiral 1: Radius in=INFINITY, Radius out=1500.000, Length=25.000
Curve 1: Radius=1500.000, Length=523.686, Delta=159.9967
Spiral 2: Radius in=1500.000, Radius out=INFINITY, Length=25.000

ELEVATION

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

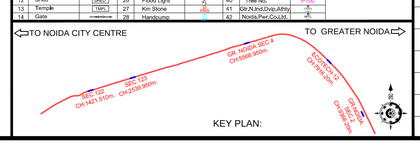
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

L E G E N D

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U. P., Pwr, Co, Ltd.	UPPCL
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	CTN
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Hydrojeetha G. Ltd.	
6	POND	POND	20	Man Hole	MH	34	Wall	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable	OFC	36	Junction Box	
9	PARK/GREEN	PARK	23	Vodafone OFC	VOFC	37	Electric Pole	
10	Building	BLDG	24	Transformer		38	Bore Hole	
11	Shop	SHOP	25	Airtel OFC	AOFC	39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	P100
13	Temple	TEMPL	27	Km Stone		41	Gtr.N.Ind.Dvp.Athrty	
14	Gate		28	Handpump		42	Noida,Pwr,Co,Ltd.	



QUALITY ASSURANCE

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NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ALIGNMENT DRAWING FROM CH:7+00 to 7+330

SCALE: 1:200

DATE: SEP-20

REV.: R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

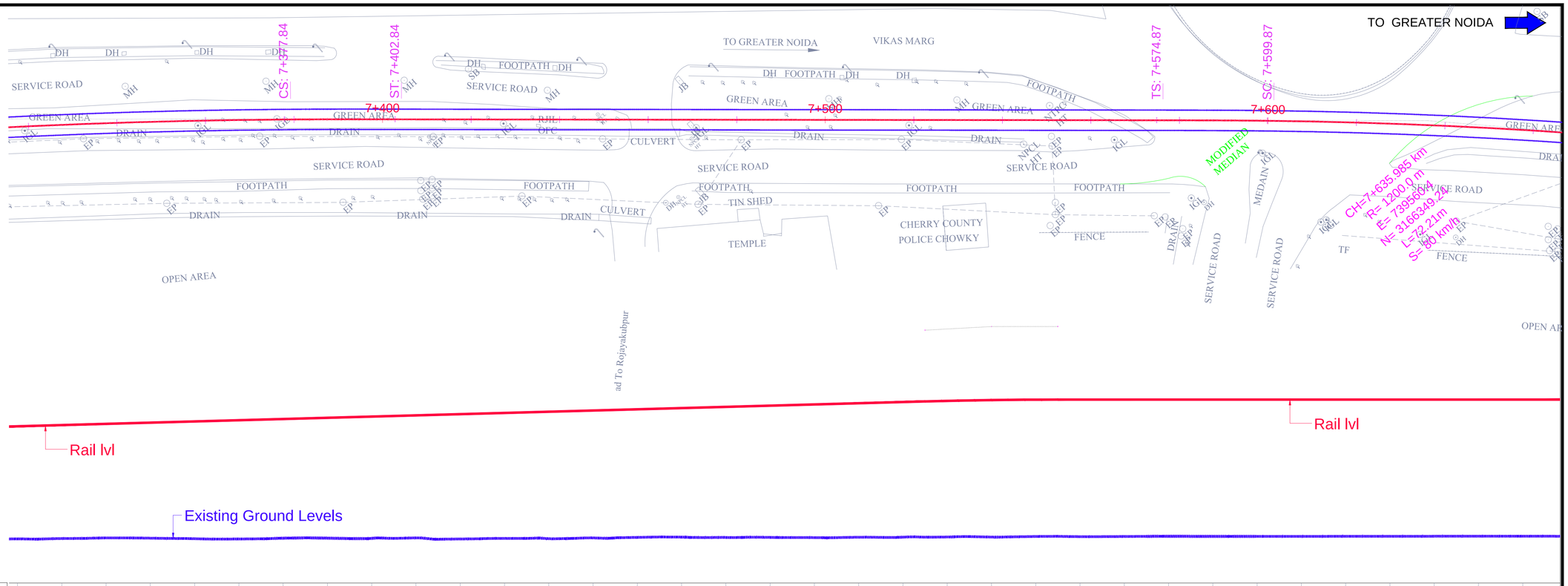
TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH



| | | |

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
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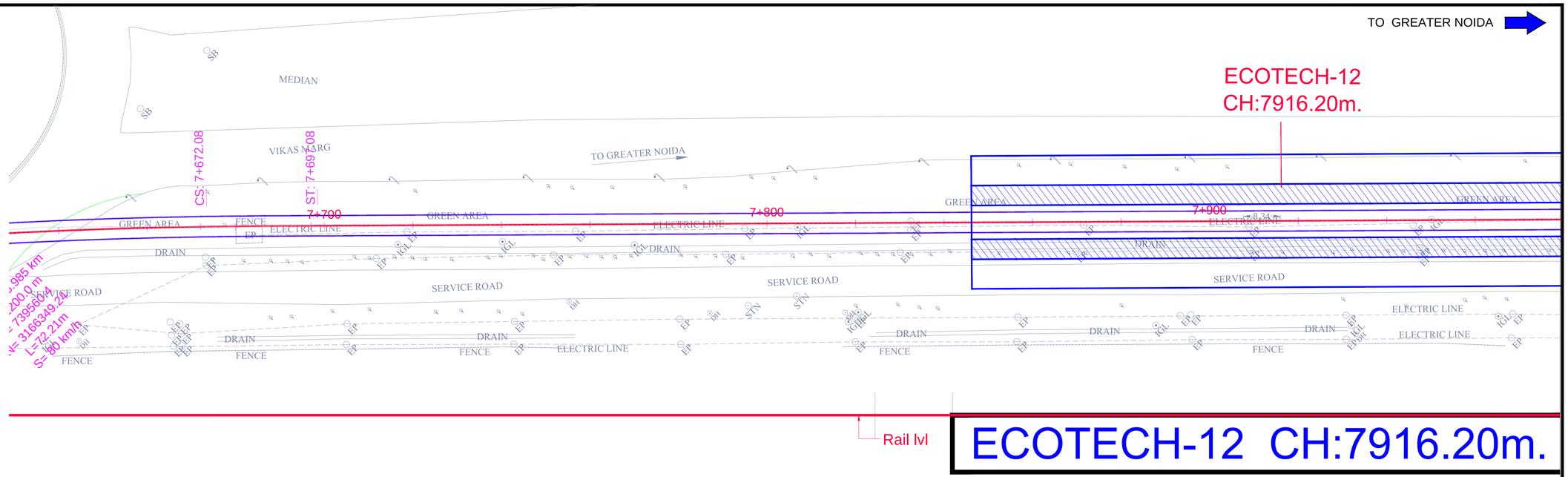
L - LENGTH



Rail lvl	217.800
Existing Ground Levels	203.852, 203.862, 203.869, 203.846, 203.823, 203.800, 203.798, 203.816, 203.835, 203.853, 203.869, 203.855, 203.843, 203.857, 203.872, 203.880, 203.867, 203.854, 203.841, 203.828, 203.815, 203.802, 203.789, 203.831, 203.885, 203.939, 203.992, 204.046, 204.100, 204.153, 204.207, 204.261, 204.314, 204.368, 204.422
Vertical Geometry	
Horizontal Geometry	200.00m; L=25.00m; adius out=1200.000, Length=25.000; Length=72.213, Delta=176.5521; adius out=INFINITY, Length=25.000; L=431.71m
CHAINAGE	7+640, 7+650, 7+660, 7+670, 7+680, 7+690, 7+700, 7+710, 7+720, 7+730, 7+740, 7+750, 7+760, 7+770, 7+780, 7+790, 7+800, 7+810, 7+820, 7+830, 7+840, 7+850, 7+860, 7+870, 7+880, 7+890, 7+900, 7+910, 7+920, 7+930, 7+940, 7+950, 7+960, 7+970, 7+980

ELEVATION

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

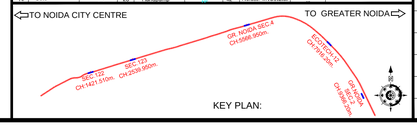
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-9-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

LEGEND

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U, P, Pwr, Co, Ltd,	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	CTN
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Kirloprashka G, Ltd,	
6	POND	POND	20	Man Hole	MH	34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN	GREEN	23	Vodafone OFC		37	Electric Pole	
10	Building	BLDG	24	Transformer		38	Bore Hole	
11	Shop	SHOP	25	Airtel OFC		39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	
13	Temple	TEMPL	27	Km Stone		41	Gtr.N.Ind.Crp.Athry	
14	Gate		28	Handpump		42	Noida,Pwr,Co,Ltd,	



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NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ALIGNMENT DRAWING FROM CH:7+760 to 7+980

SCALE 1:200

DATE SEP-20

REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

TO NOIDA CITY CENTRE

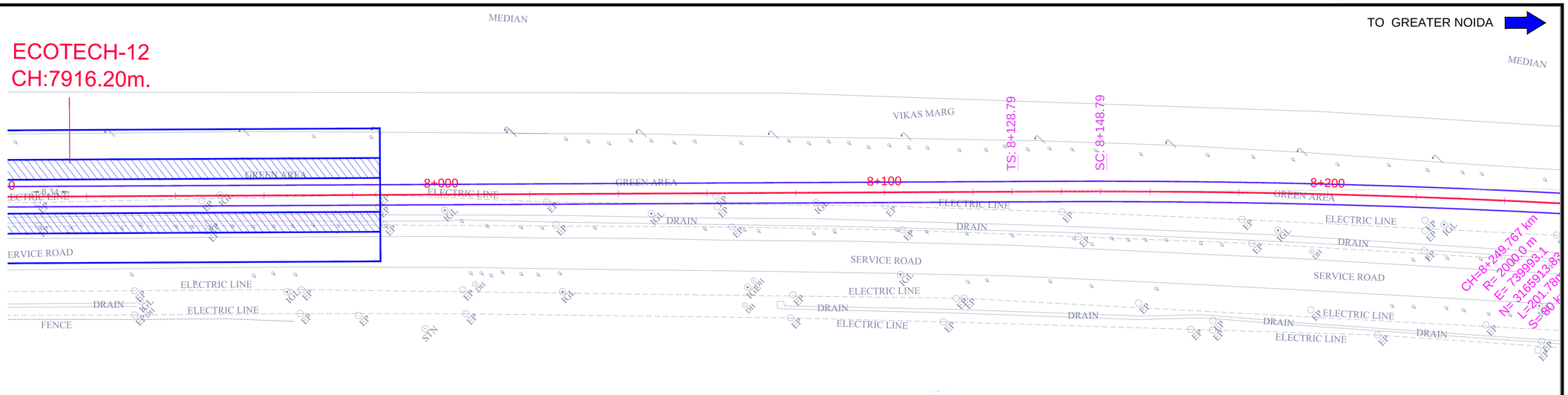
TO GREATER NOIDA

ECOTECH-12
CH:7916.20m.

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH



2 CH:7916.20m.

Rail lvl

Existing Ground Levels

| | | |

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
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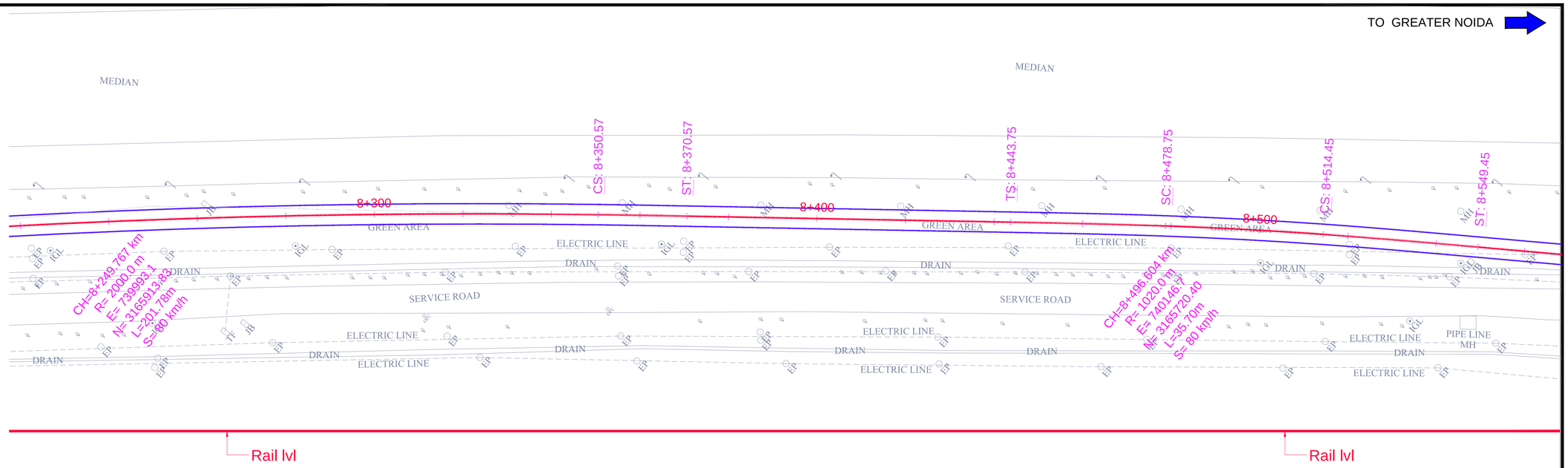


CHAINAGE	Rail lvl	Existing Ground Levels
8+230	217.800	205.735
8+240	217.800	205.719
8+250	217.800	205.726
8+260	217.800	205.786
8+270	217.800	205.782
8+280	217.800	205.779
8+290	217.800	205.788
8+300	217.800	205.825
8+310	217.800	205.815
8+320	217.800	205.788
8+330	217.800	205.757
8+340	217.800	205.792
8+350	217.800	205.807
8+360	217.800	205.820
8+370	217.800	205.925
8+380	217.800	205.704
8+390	217.800	205.709
8+400	217.800	205.730
8+410	217.800	205.770
8+420	217.800	205.792
8+430	217.800	206.027
8+440	217.800	206.023
8+450	217.800	205.761
8+460	217.800	205.829
8+470	217.800	205.898
8+480	217.800	205.836
8+490	217.800	205.944
8+500	217.800	205.928
8+510	217.800	205.787
8+520	217.800	205.827
8+530	217.800	205.871
8+540	217.800	205.903
8+550	217.800	205.966
8+560	217.800	206.013
8+570	217.800	205.984

Vertical Geometry

Horizontal Geometry

R=2000.00m
=INFINITY, Radius out=2000.000, Length=20.000
s=2000.000, Length=201.776, Delta=174.2195
=2000.000, Radius out=INFINITY, Length=20.000

L=20.00m

L=73.18m

L=35.00m
Spiral 1: Radius in=INFINITY, Radius out=1020.000, Length=35.000

R=1020.00m
Curve 1: Radius=1020.000, Length=35.702, Delta=177.9946

L=35.00m
Spiral 2: Radius in=1020.000, Radius out=INFINITY, Length=35.000

ELEVATION

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-45565814-18
info@lktengineering.com

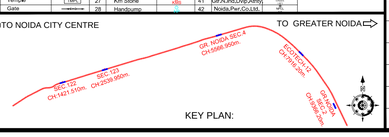
PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

L E G E N D

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U. P., Pwr, Co, Ltd.,	
2	Boundary Wall		16	Bus Stop	BUSstop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	CTN
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Indraprastha G, Ltd,	
6	POND	POND	20	Man Hole	MH	34	Well	
7	Drain		21	Lamp Post		35	Culvert	TRAFFIC BOX
8	Nala		22	Opticall F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building	BUILD	24	Transformer		38	Bore Hole	BH
11	Shop	SHOP	25	Airtel OFC		39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	P100
13	Temple	TEMPL	27	Km Stone		41	Dir,N,Ind,Dvp,Athrty	
14	Gate		28	Handpump		42	Noida,Pwr,Co,Ltd,	

TO NOIDA CITY CENTRE — TO GREATER NOIDA



KEY PLAN:

QUALITY ASSURANCE

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NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ALIGNMENT DRAWING FROM CH:8+250 to 8+570

SCALE 1:200

DATE SEP-20

REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE
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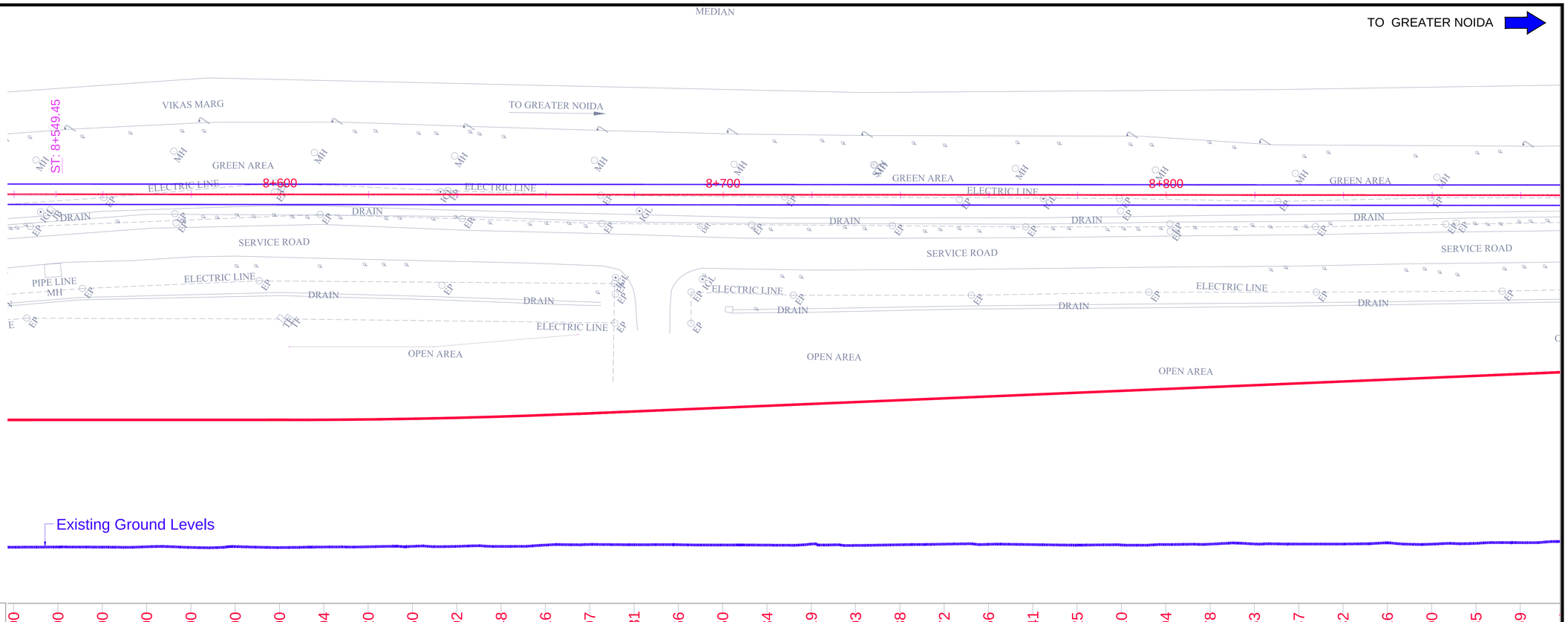
- L - LENGTH



CHAINAGE	Horizontal Geometry	Vertical Geometry	Existing Ground Levels	Rail lvl
8+550			205.966	217.800
8+560			206.013	217.800
8+570			205.984	217.800
8+580			206.068	217.800
8+590			205.912	217.800
8+600			206.110	217.800
8+610			205.886	217.800
8+620			206.011	217.804
8+630			206.067	217.820
8+640			206.157	217.850
8+650			206.151	217.892
8+660			206.141	217.948
8+670			206.446	218.016
8+680			206.598	218.097
8+690			206.527	218.181
8+700			206.532	218.266
8+710			206.465	218.350
8+720			206.437	218.434
8+730			206.670	218.519
8+740			206.362	218.603
8+750			206.519	218.688
8+760			206.656	218.772
8+770			206.613	218.856
8+780			206.553	218.941
8+790			206.430	219.025
8+800			206.458	219.110
8+810			206.569	219.194
8+820			206.656	219.278
8+830			206.690	219.363
8+840			206.673	219.447
8+850			206.681	219.532
8+860			206.957	219.616
8+870			206.649	219.700
8+880			206.824	219.785
8+890			206.991	219.869
	L=471.30m	Rc=7716.94 Lc=65.13 K=77.169 L=306.60 G=0.84%		

ELEVATION

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

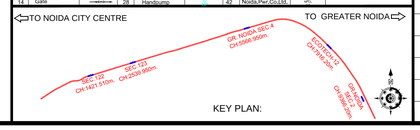
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

L E G E N D

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U. P., Pwr, Co, Ltd.	
2	Boundary Wall		16	Bus Stop	BUSstop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	CTN
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole		33	Indraprastha G, Ltd.	
6	POND	POND	20	Man Hole		34	Wall	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building	BUILD	24	Transformer		38	Bore Hole	
11	Shop	SHOP	25	Airtel OFC		39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	P100
13	Temple	TEMPL	27	Km Stone		41	Gtr.N.Ind.Dvp.Athrty.	
14	Gate		28	Handpump		42	Noida,Pwr.Co.Ltd.	



QUALITY ASSURANCE

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NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

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PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ALIGNMENT DRAWING FROM CH: 8+570 to 8+890

SCALE: 1:200

DATE: SEP-20

REV.: R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

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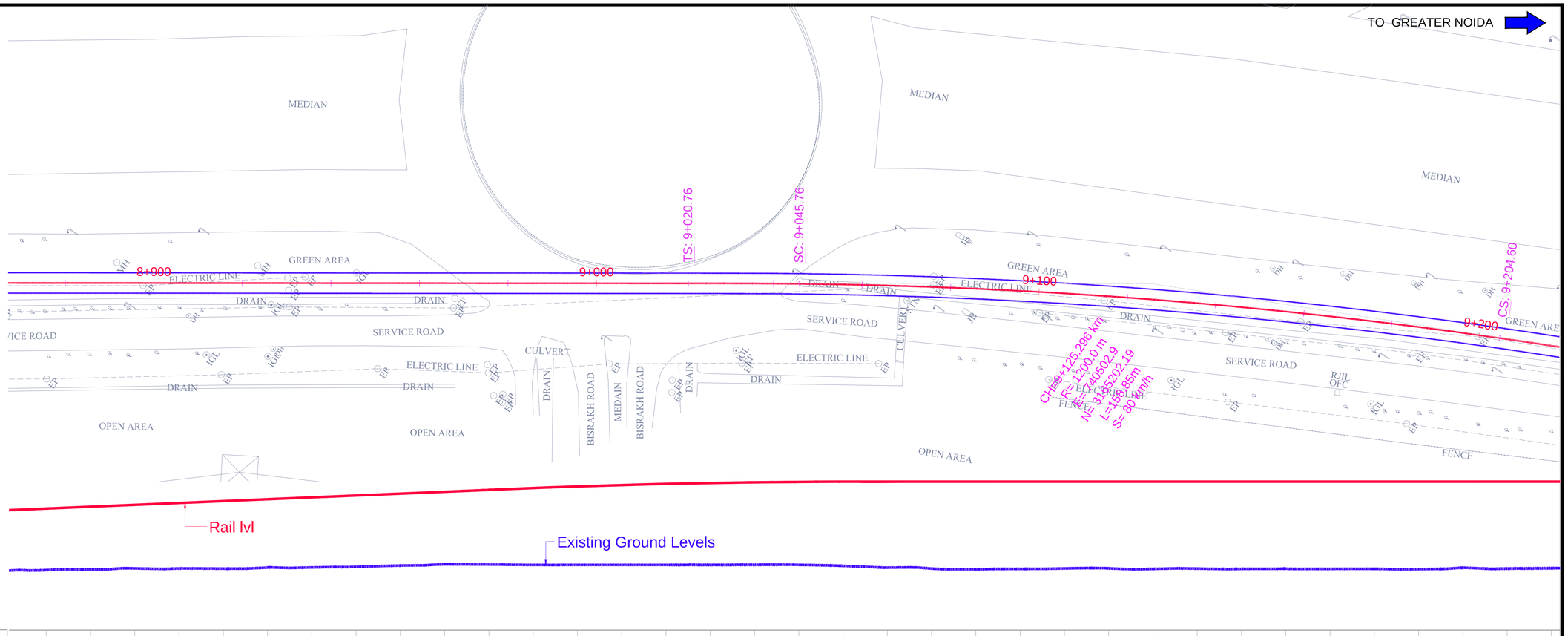

| | | |

TO NOIDA CITY CENTRE

TO GREATER NOIDA

④

LEGEND

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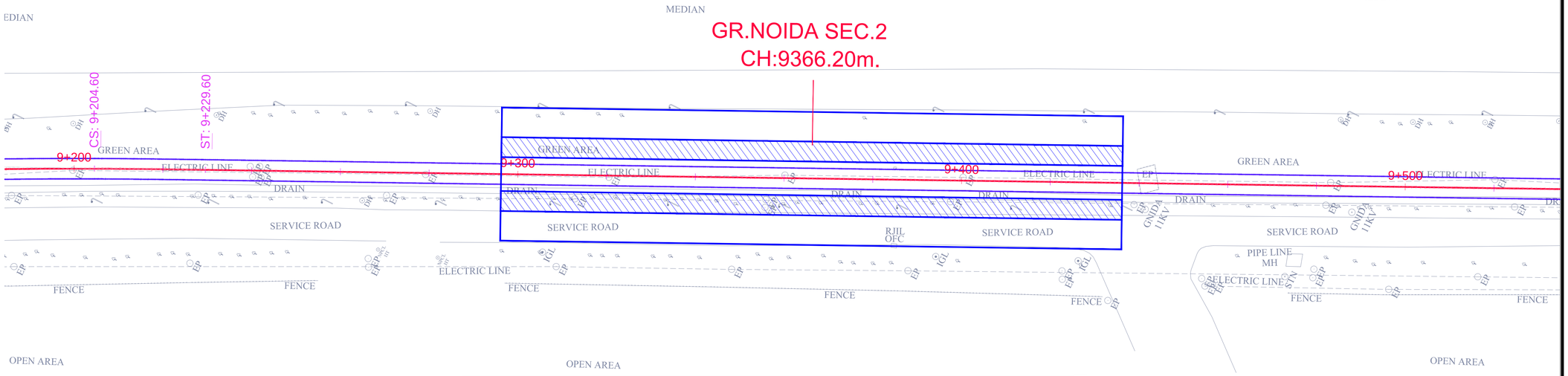
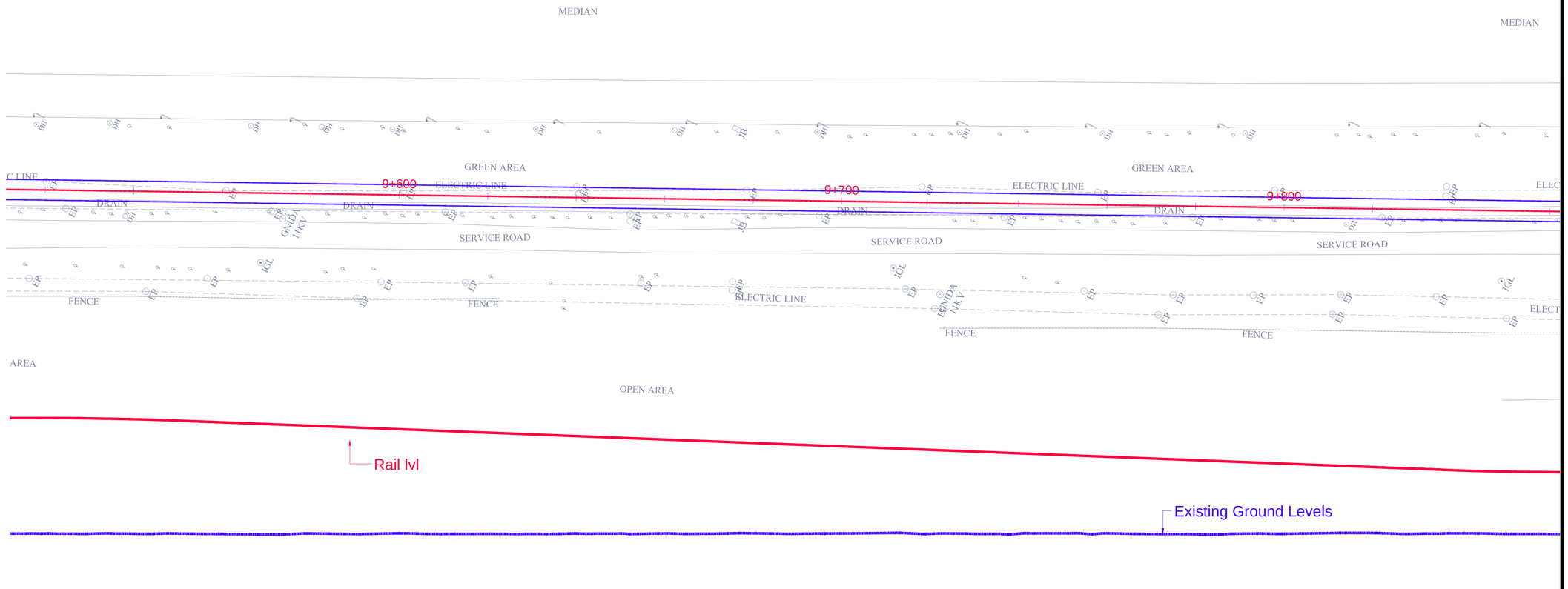


GR.NOIDA SEC.2 CH:9366.20m.

| | | |

TO NOIDA CITY CENTRE

TO GREATER NOIDA



LEGEND

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- G - GRADIENT
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CHAINAGE	Rail lvl	Existing Ground Levels
9+520	221.000	207.207
9+530	220.987	207.175
9+540	220.951	207.208
9+550	220.892	207.239
9+560	220.815	207.131
9+570	220.737	207.021
9+580	220.659	207.247
9+590	220.581	207.131
9+600	220.503	207.274
9+610	220.426	207.136
9+620	220.348	207.163
9+630	220.270	207.145
9+640	220.192	207.224
9+650	220.114	207.219
9+660	220.037	207.236
9+670	219.959	207.196
9+680	219.881	207.299
9+690	219.803	207.177
9+700	219.725	207.248
9+710	219.648	207.336
9+720	219.570	207.131
9+730	219.492	207.205
9+740	219.414	207.103
9+750	219.336	207.288
9+760	219.258	207.267
9+770	219.181	207.136
9+780	219.103	207.097
9+790	219.025	207.191
9+800	218.947	207.161
9+810	218.869	207.305
9+820	218.792	207.354
9+830	218.714	207.170
9+840	218.637	207.283
9+850	218.583	207.174
9+860	218.558	207.137

Vertical Geometry: Rc=4233.44, Lc=32.94, K=42.334 | L=284.56, G=-0.78% | Rc=3341.28, Lc=26.00, K=33.413

Horizontal Geometry: L=886.52m

ELEVATION

TENTATIVE TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-9-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

L E G E N D

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
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3	Footpath		17	Fly Over		31	Control Point	STN
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Hindprastha G, Ltd,	
6	POND	POND	20	Man Hole	MH	34	Wall	
7	Drain		21	Lamp Post		35	Culvert	CULV
8	Nala		22	Optical F-Cable		36	Junction Box	
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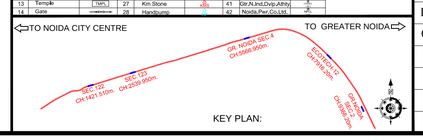
14	Gate		28	Handpump		42	Noida,Pwr,Co,Ltd.,	



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MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ALIGNMENT DRAWING FROM CH:9+540 to 9+860

SCALE 1:200

DATE SEP-20

REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-P&P-1001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

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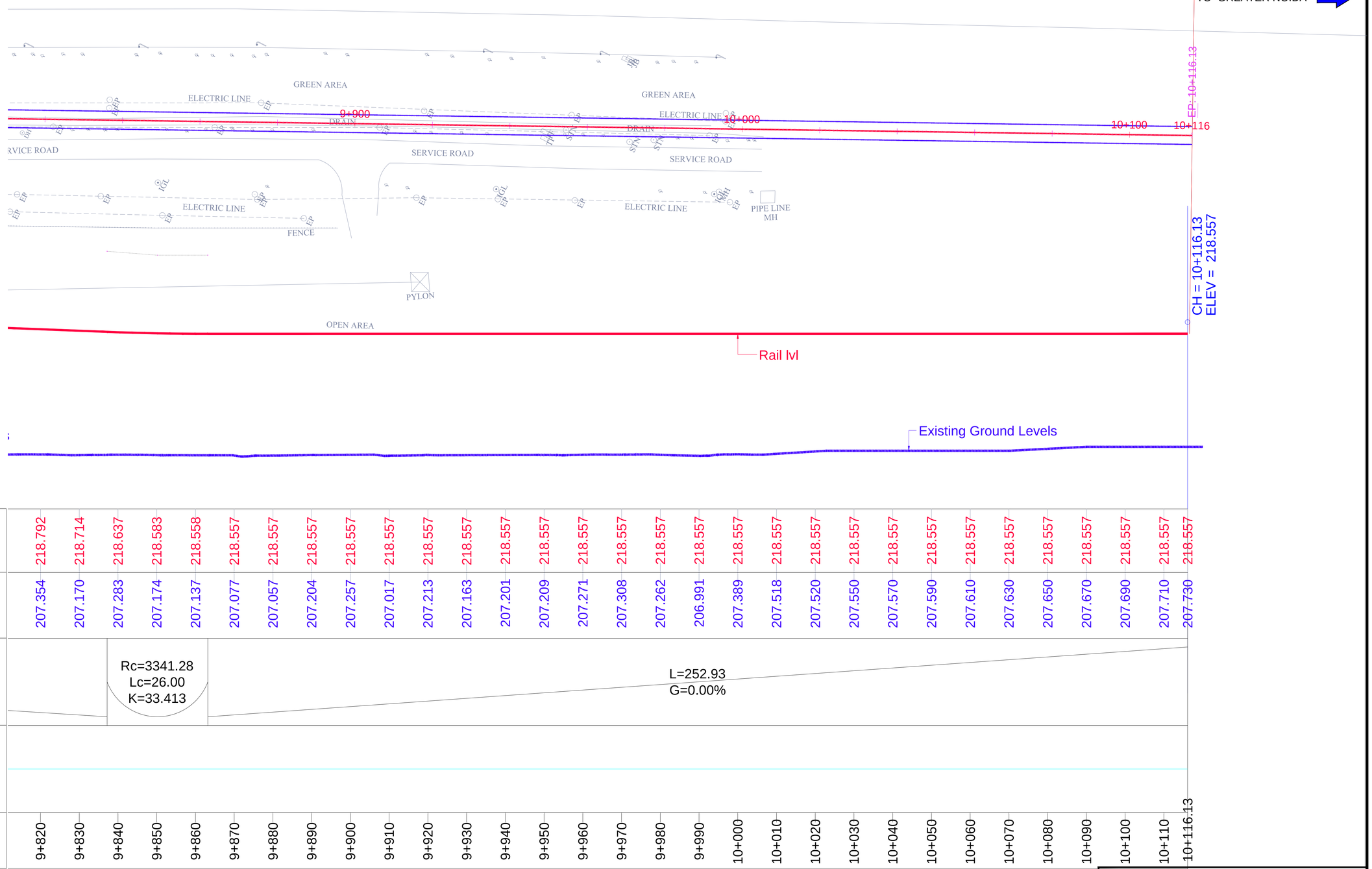

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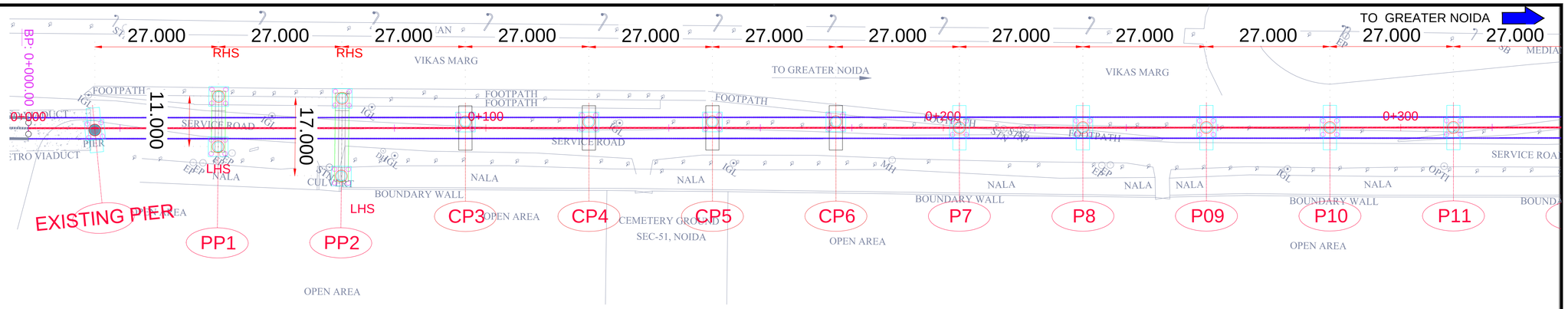
GENERAL ARRANGEMENT DRAWINGS

TO NOIDA CITY CENTRE

TO GREATER NOIDA



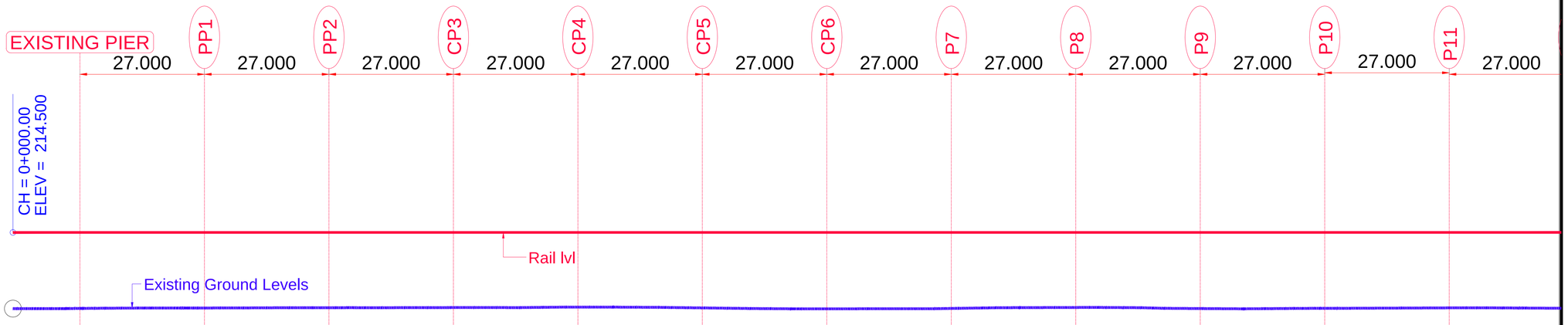
LEGEND

- TRACK CENTRE

Ls	-	LENGTH OF SPIRAL
Lc	-	CIRCULAR CURVE LENGTH
VCL	-	VERTICAL CURVE LENGTH
R	-	RADIUS
G	-	GRADIENT
L	-	LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER



Rail lvl	214.5	214.5	214.5	214.5	214.5	214.5	214.5	214.5	214.5	214.5	214.5
Existing Ground Levels	201.811	201.904	201.977	202.4	202.532	201.638	201.663	201.924	201.708	201.741	201.837
CHAINAGE	0.04152	0.06852	0.09552	0.12252	0.14952	0.17652	0.20352	0.23052	0.25752	0.28452	0.31152

ELEVATION

TENTATIVE TENDER DRAWINGS

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-9-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

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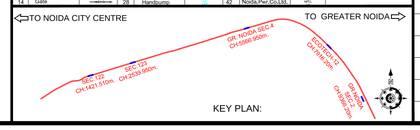
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Hindrapratha G, Ltd,	
6	POND	POND	20	Man Hole	MH	34	Wall	
7	Drain		21	Lamp Post		35	Culvert	CULV
8	Nala		22	Optical F-Cable	OFC	36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC	VOFC	37	Electric Pole	
10	Building	BLDG	24	Transformer		38	Bore Hole	BH
11	Shop	SHOP	25	Airtel OFC	AOFC	39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	P100
13	Temple	TEMPL	27	Km Stone	KM	41	Edn.N.Ind.Dvlp.Athrty	
14	Gate		28	Handpump	HP	42	Noida,Pwr.Co,Ltd.	



QUALITY ASSURANCE

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NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

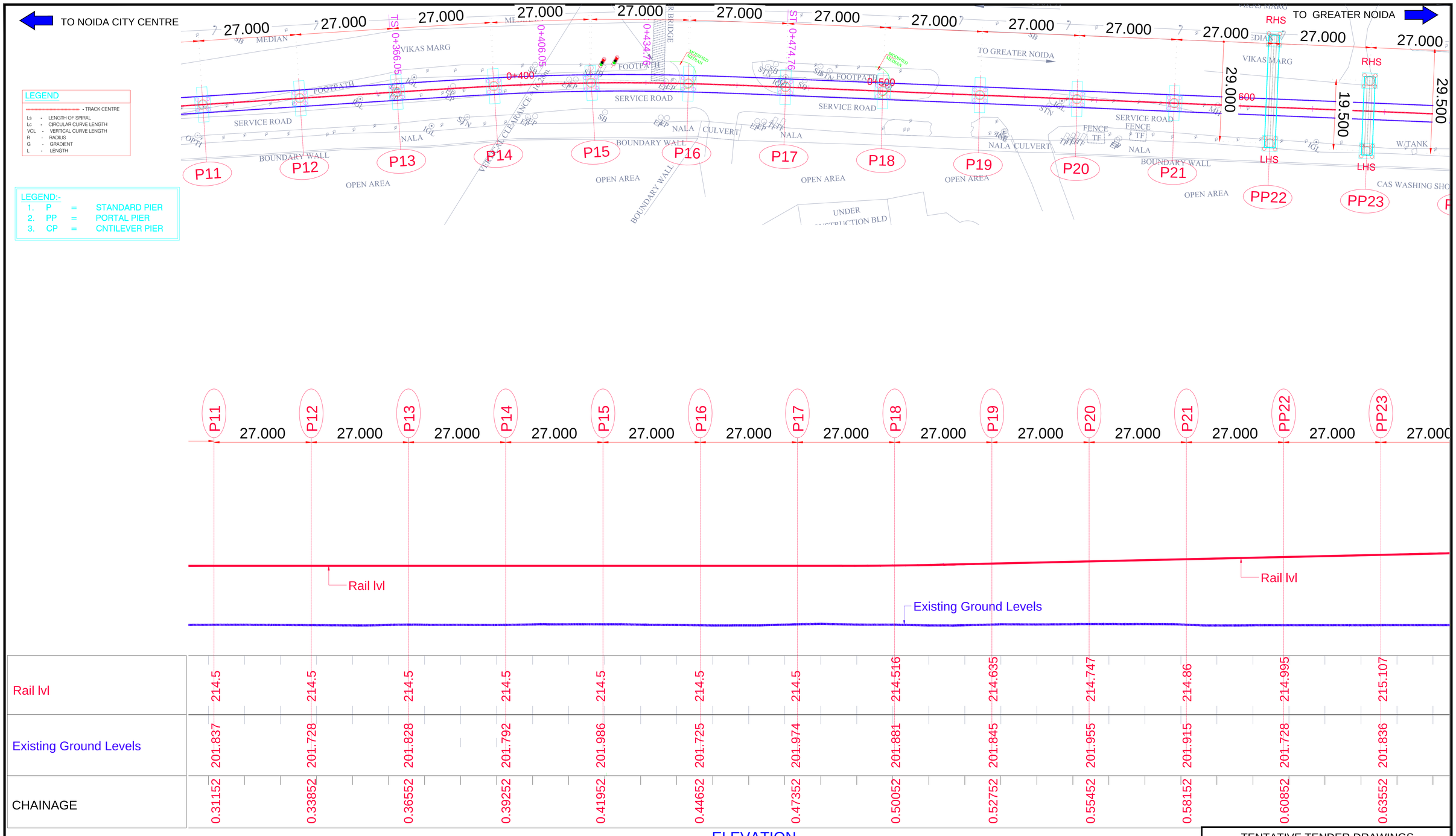
GENERAL ARRANGEMENT DRAWING

SCALE: 1:200

DATE: SEP-20

REV.: R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001



Rail lvl	214.5	214.5	214.5	214.5	214.5	214.5	214.5	214.5	214.516	214.635	214.747	214.86	214.995	215.107										
Existing Ground Levels	201.837	201.728	201.828	201.792	201.986	201.725	201.974	201.881	201.845	201.955	201.915	201.728	201.836											
CHAINAGE	0.31152	0.33852	0.36552	0.39252	0.41952	0.44652	0.47352	0.50052	0.52752	0.55452	0.58152	0.60852	0.63552											

ELEVATION

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

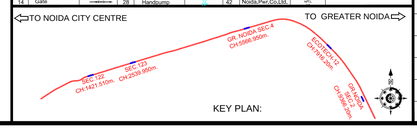
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-9-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

LEGEND

SLNO.	DESCRIPTION	SYMBOL	SLNO.	DESCRIPTION	SYMBOL	SLNO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U, P, Pwr, Co, Ltd.	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	STN
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Hydrapraisha G, Ltd.	
6	POND	POND	20	Man Hole	MH	34	Wall	
7	Drain		21	Lamp Post		35	Culvert	CULV
8	Nala		22	Optical F-Cable	OFC	36	Junction Box	
9	PARK/GREEN	GARDEN	23	Vodafone OFC	VOFC	37	Electric Pole	
10	Building	BUILD	24	Transformer		38	Bore Hole	BH
11	Shop	SHOP	25	Airtel OFC	AOFC	39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	P100
13	Temple	TEMPL	27	Km Stone	KM	41	IGN,N,Ind,Dvlp,Athry	
14	Gate		28	Handpump	HP	42	Noida,Pwr,Co,Ltd.	



QUALITY ASSURANCE

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DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE 1:200

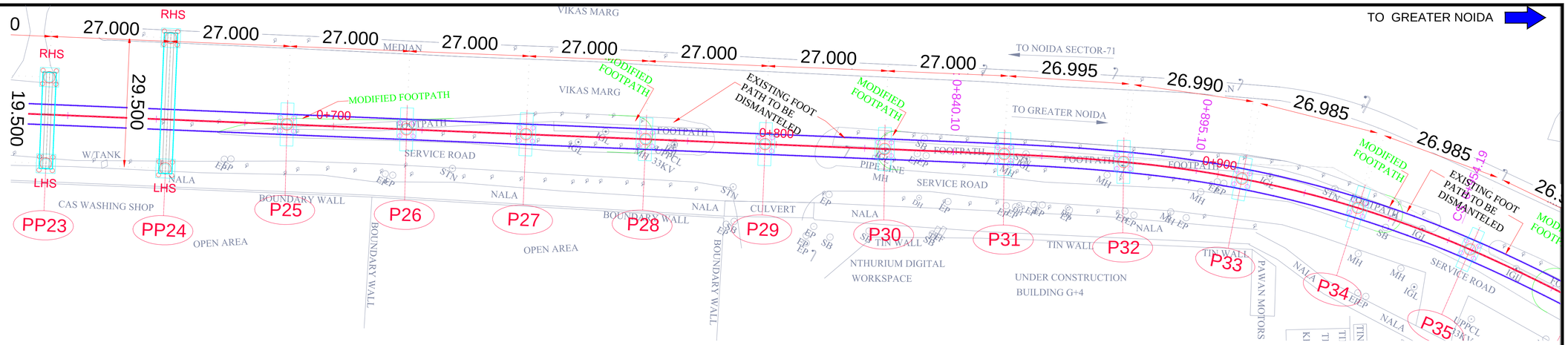
DATE SEP-20

REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA



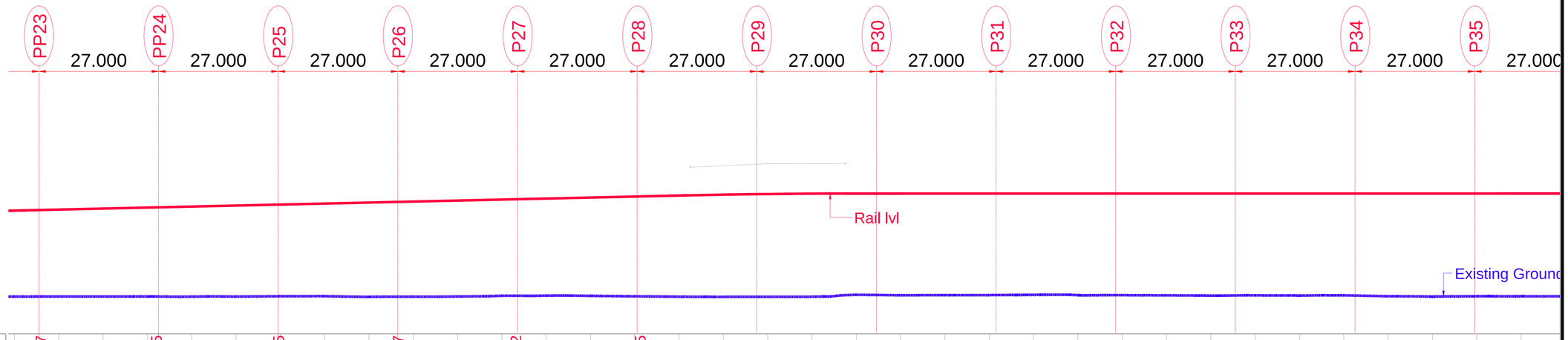
LEGEND

- TRACK CENTRE

Ls	-	LENGTH OF SPIRAL
Lc	-	CIRCULAR CURVE LENGTH
VCL	-	VERTICAL CURVE LENGTH
R	-	RADIUS
G	-	GRADIENT
L	-	LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER



Rail lvl	215.107	215.235	215.355	215.467	215.602	215.715	215.82	215.85	215.85	215.85	215.85	215.85	215.85
Existing Ground Levels	201.836	201.727	202.086	201.672	201.909	202.035	201.67	202.072	202.053	202.621	201.965	202.004	201.797
CHAINAGE	0.63552	0.66252	0.68952	0.71652	0.74352	0.77052	0.79752	0.82452	0.85152	0.87852	0.90552	0.93252	0.95952

ELEVATION

TENTATIVE TENDER DRAWINGS

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-9-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

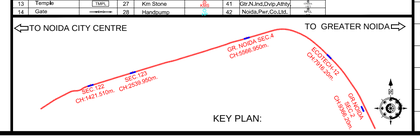
PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

L E G E N D

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U, P, Pwr, Co, Ltd.	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	STN
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Hindprastha G, Ltd.	
6	POND	POND	20	Man Hole	MH	34	Wall	
7	Drain		21	Lamp Post		35	Culvert	CULV
8	Nala	NALA	22	Optical F-Cable	OFC	36	Junction Box	
9	PARK/GREEN	GARDEN	23	Vodafone OFC	VOFC	37	Electric Pole	
10	Building	BUILDING	24	Transformer		38	Bore Hole	BH
11	Shop	SHOP	25	Airtel OFC	AOFC	39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	P100
13	Temple	TEMPLE	27	Km Stone	KM	41	Edr.N.Ind.Dvp.Athrty	
14	Gate		28	Handpump		42	Noida,Pwr.Co.Ltd.	

TO NOIDA CITY CENTRE — TO GREATER NOIDA



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DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

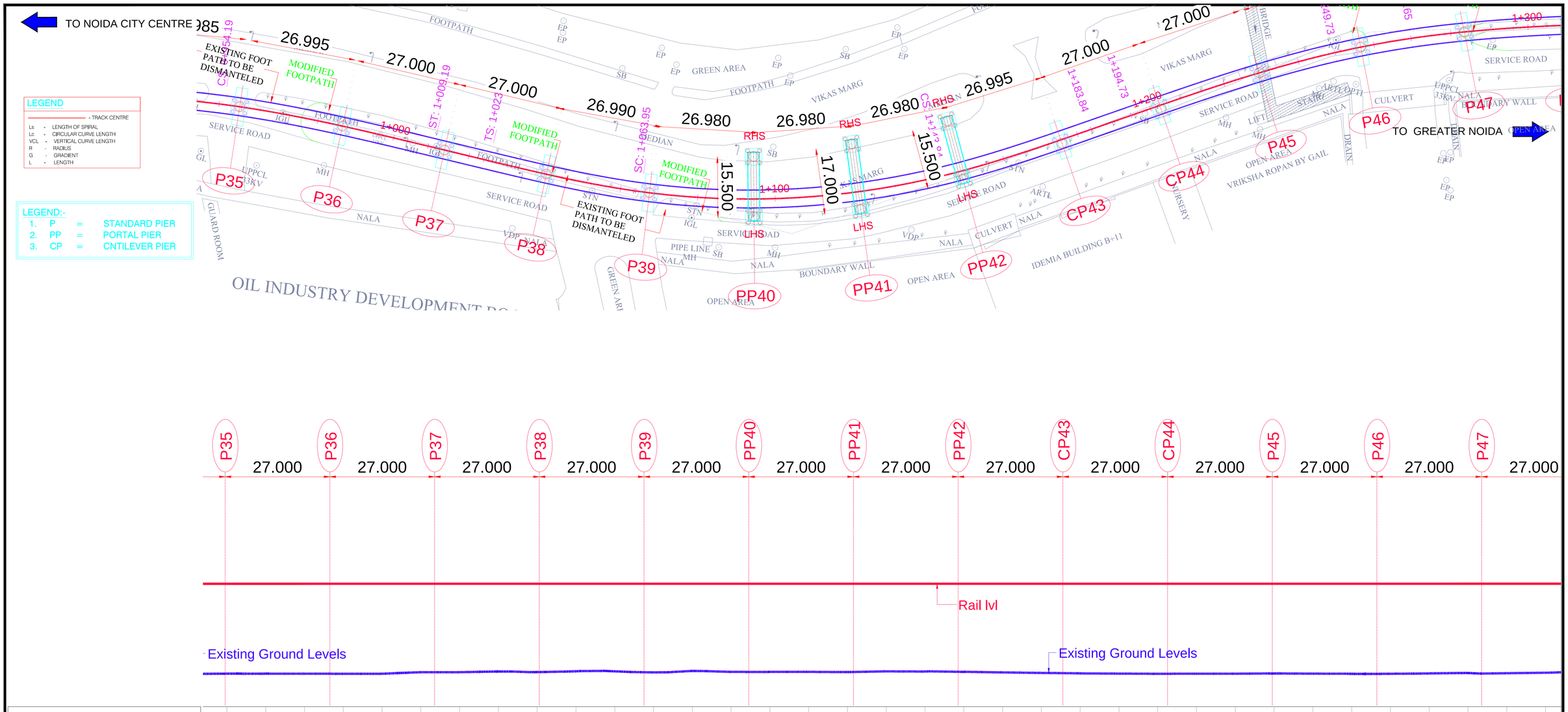
GENERAL ARRANGEMENT DRAWING

SCALE: 1:200

DATE: SEP-20

REV.: R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001


TO NOIDA CITY CENTRE
TO GREATER NOIDA
LEGEND
- TRACK CENTRE
Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH
LEGEND:-
1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER
EXISTING FOOT PATH TO BE DISMANTELED
MODIFIED FOOTPATH
SERVICE ROAD
FOOTPATH
VIKAS MARG
GREEN AREA
MEDIAN
BRIDGE
SERVICE ROAD
NALA
CULVERT
BOUNDARY WALL
OPEN AREA
VRIKSHA ROPAN BY GAIL
IDEMIA BUILDING B+11
OIL INDUSTRY DEVELOPMENT BO
P35
P36
P37
P38
P39
PP40
PP41
PP42
CP43
CP44
P45
P46
P47
26.995
27.000
26.990
26.980
15.500
17.000
1+009.19
1+023
1+063.95
1+100
1+183.84
1+194.73
1+200
1+300
RHS
LHS
27.000
Rail lvl
Existing Ground Levels
Existing Ground Levels

| | | |

TO NOIDA CITY CENTRE

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
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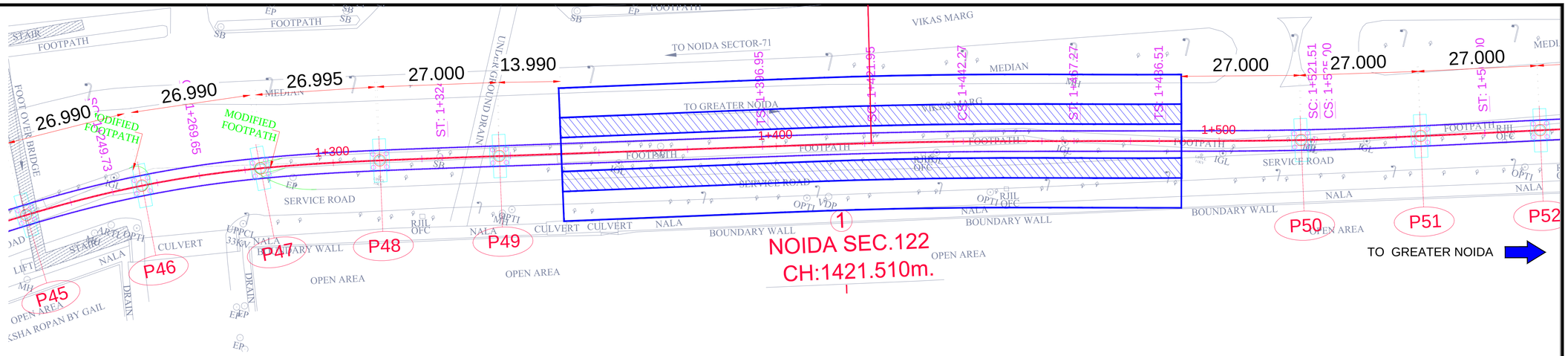

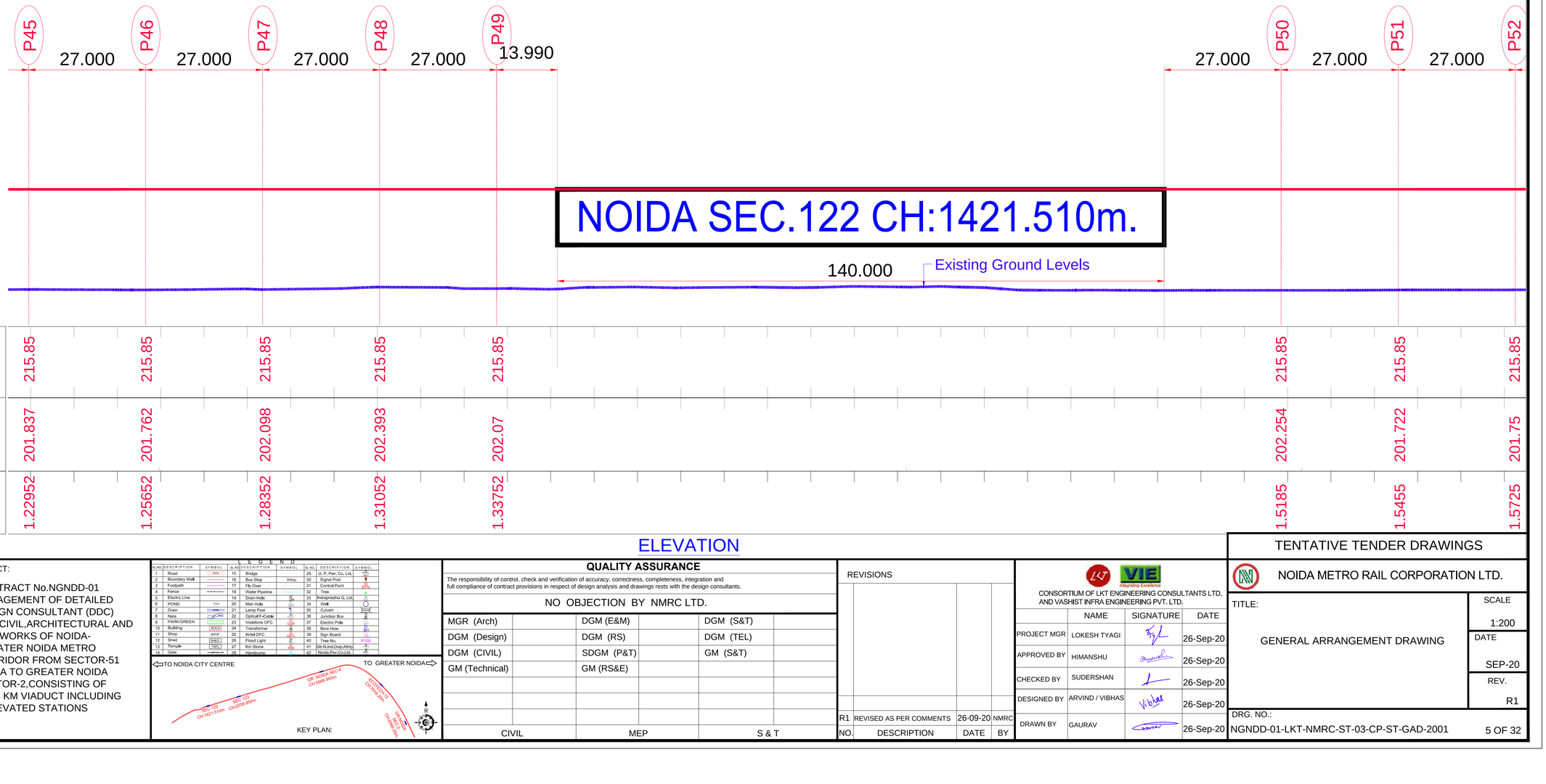

Rail lvl	215.85	215.85	215.85	215.85	215.85	215.85	215.85	215.85	215.85
Existing Ground Levels	201.837	201.762	202.098	202.393	202.07	202.254	201.722	201.75	
CHAINAGE	1.22952	1.25652	1.28352	1.31052	1.33752	1.5185	1.5455	1.5725	

ELEVATION

PROJECT:

CONTRACT No.NGNDD-01 ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

L E G E N D

SLNO.	DESCRIPTION	SYMBOL	SLNO.	DESCRIPTION	SYMBOL	SLNO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U, P, Pwr, Co, Ltd.	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	CTRL PT
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Hindprastha G. Ltd.	
6	POND	POND	20	Man Hole	MH	34	Wall	
7	Drain		21	Lamp Post		35	Culvert	CULV
8	Nala	NALA	22	Optical F-Cable	OFC	36	Junction Box	JB
9	PARK/GREEN	GARDEN	23	Vodafone OFC	VOFC	37	Electric Pole	EP
10	Building	BUILD	24	Transformer	TR	38	Bore Hole	BH
11	Shop	SHOP	25	Airtel OFC	AOFC	39	Sign Board	SB
12	Shed	SHED	26	Flood Light	FL	40	Tree No.	P100
13	Temple	TEMPL	27	Km Stone	KM	41	Edn.M.Ind.Dvlp.Athrty	
14	Gate		28	Handpump	HP	42	Noida,Pwr.Co.Ltd.	

QUALITY ASSURANCE

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NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
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DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE: GENERAL ARRANGEMENT DRAWING

SCALE 1:200

DATE SEP-20

REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

5 OF 32

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-9-A
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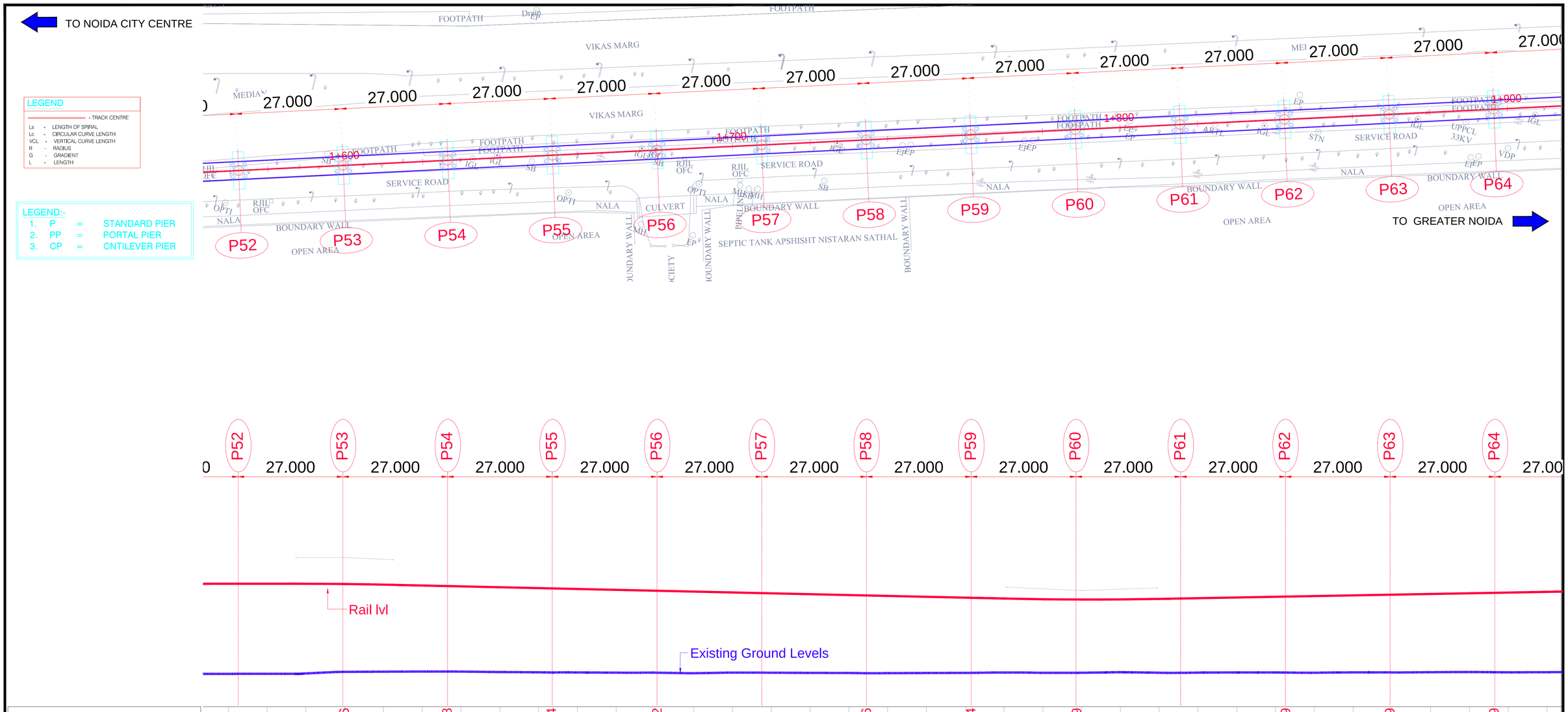
i n f o @ l k t e n g i n e e r i n g . c o m



Rail lvl	215.85	215.836	215.738	215.604	215.492	215.38	215.246	215.134	215.039	215.09	215.199	215.289	215.379	
Existing Ground Levels	201.75	202.255	202.175	202.13	202.07	202.068	201.956	201.996	202.031	202.054	202.067	202.12	202.189	
CHAINAGE	1.5725	1.5995	1.6265	1.6535	1.6805	1.7075	1.7345	1.7615	1.7885	1.8155	1.8425	1.8695	1.8965	

ELEVATION

TENTATIVE TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/2B SFS G-9-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

LEGEND

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1.	Road	ROAD	15	Bridge		29	U, P, Pwr, Co, Ltd.	
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4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Hindprastha G, Ltd.	
6	POND	POND	20	Man Hole	MH	34	Wall	
7	Drain		21	Lamp Post		35	Culvert	CULV
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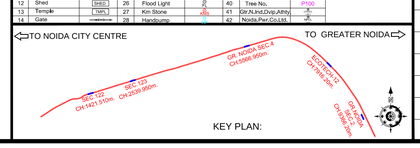
9	PARK/GREEN	GARDEN	23	Vodafone OFC	VOFC	37	Electric Pole	
10	Building	BUILDING	24	Transformer		38	Bore Hole	BH
11	Shop	SHOP	25	Airtel OFC	AOFC	39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	P100
13	Temple	TEMPLE	27	Km Stone	KM	41	Edn.N.Ind.Dvp.Athrty	
14	Gate		28	Handpump	HP	42	Noida,Pwr.Co.Ltd.	



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DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

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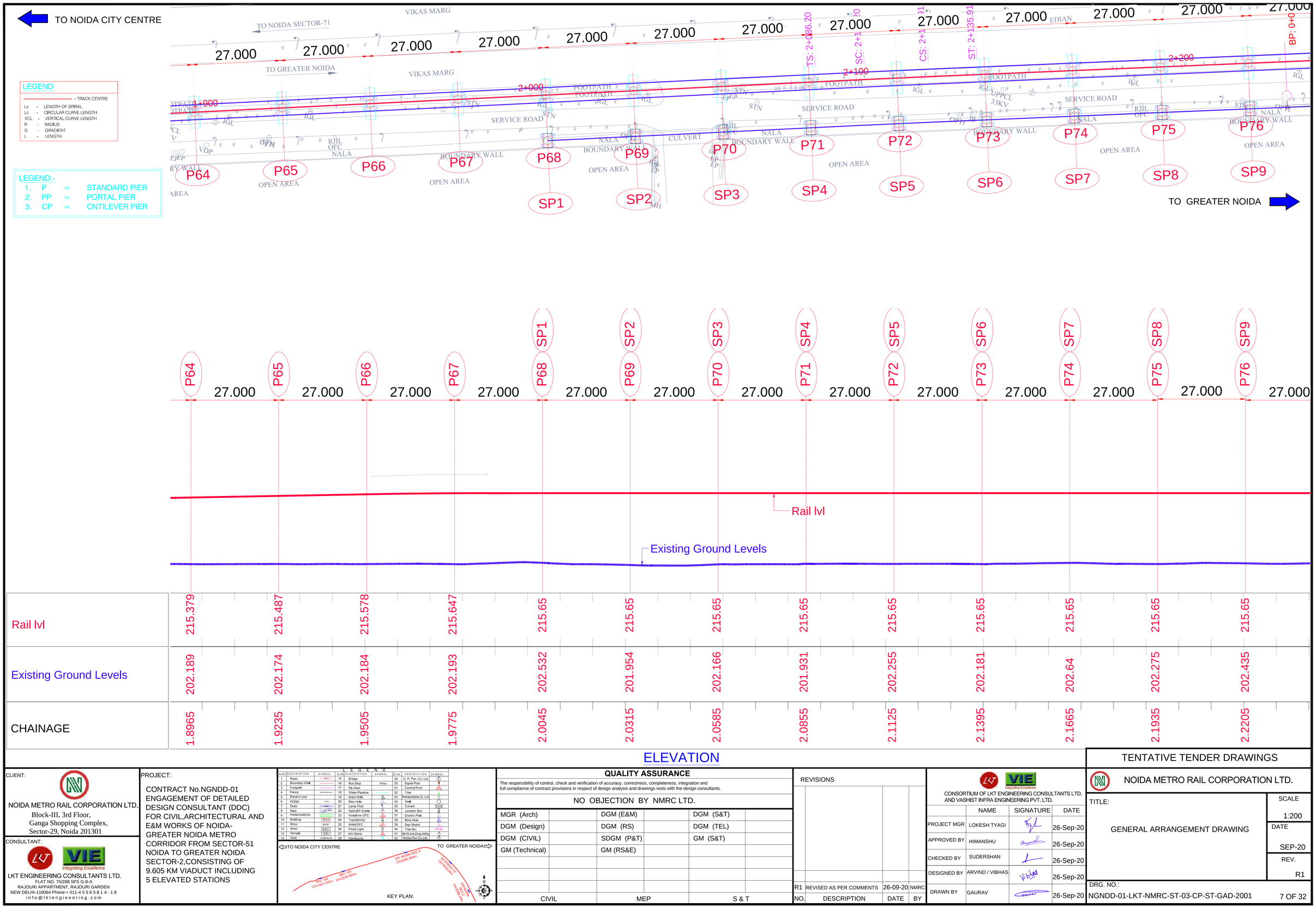
NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE 1:200
DATE SEP-20
REV. R1

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001


TO NOIDA CITY CENTRE
TO NOIDA SECTOR-71
TO GREATER NOIDA
VIKAS MARG
27.000
LEGEND
- TRACK CENTRE
Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH
LEGEND:-
1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER
TS: 2+036.20
SC: 2+1
CS: 2+1
ST: 2+135.91
BP: 0+0
2+000
2+100
2+200
SERVICE ROAD
FOOTPATH
BOUNDARY WALL
OPEN AREA
CULVERT
NALA
P64
P65
P66
P67
P68
P69
P70
P71
P72
P73
P74
P75
P76
SP1
SP2
SP3
SP4
SP5
SP6
SP7
SP8
SP9
TO GREATER NOIDA
Rail lvl
Existing Ground Levels

| | | |

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
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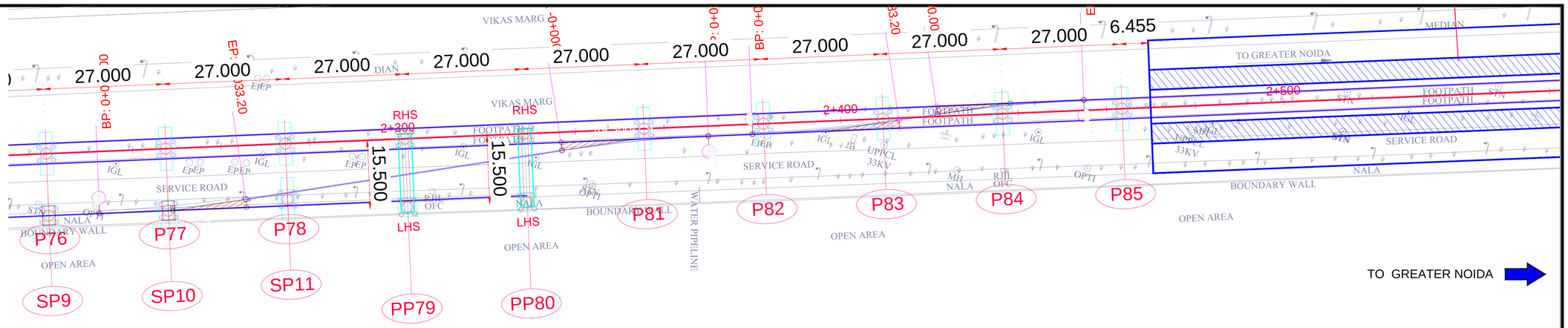

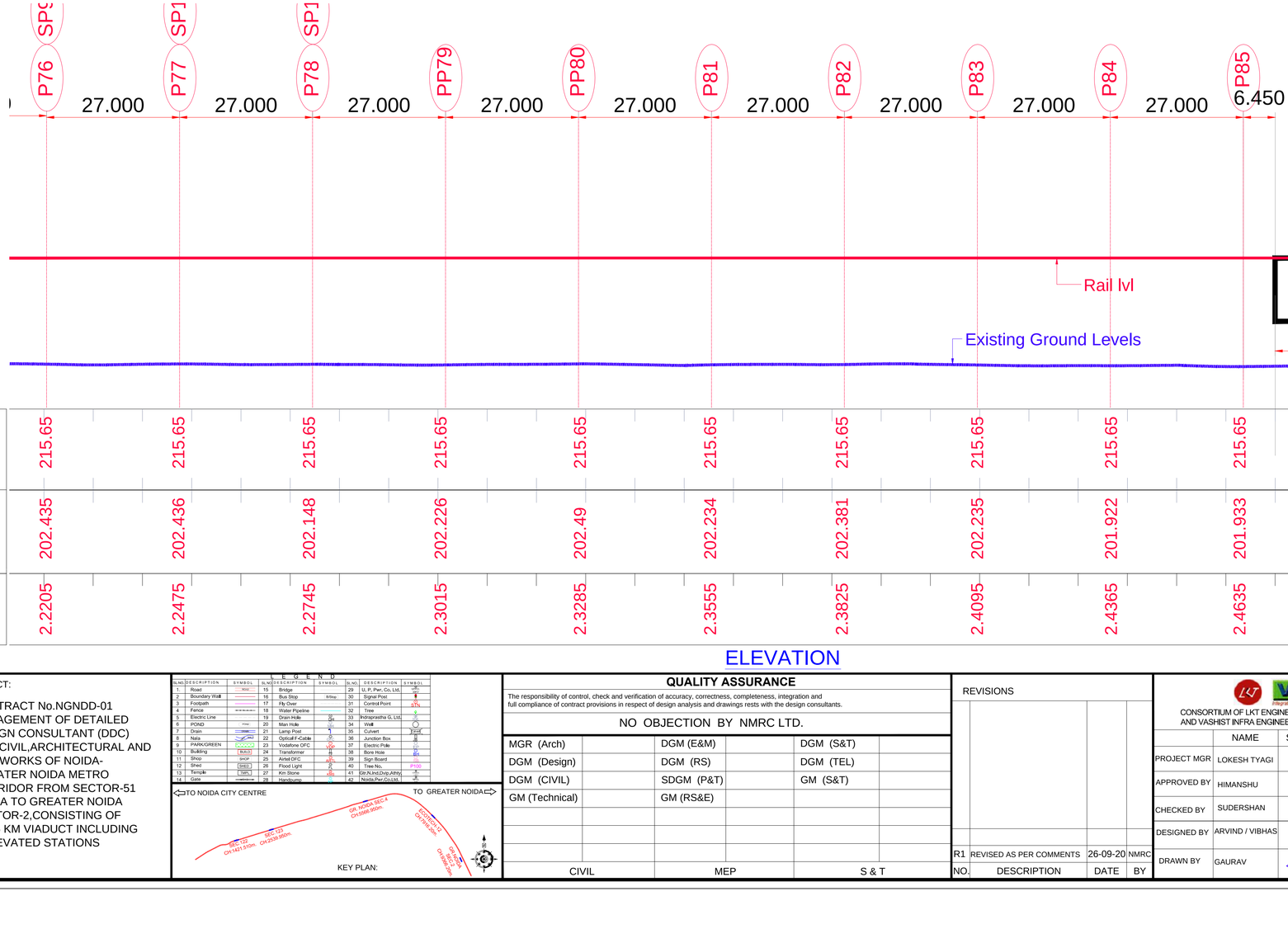

Rail lvl	215.65	215.65	215.65	215.65	215.65	215.65	215.65	215.65	215.65
Existing Ground Levels	202.435	202.436	202.148	202.226	202.49	202.234	202.381	202.235	201.922	201.933
CHAINAGE	2.2205	2.2475	2.2745	2.3015	2.3285	2.3555	2.3825	2.4095	2.4365	2.4635

ELEVATION

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-9-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

L E G E N D

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U, P, Pwr, Co, Ltd.	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	STN
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Vidyasrastha G, Ltd.	
6	POND	POND	20	Man Hole	MH	34	Wall	
7	Drain		21	Lamp Post		35	Culvert	CULV
8	Nala		22	Optical F-Cable	OFC	36	Junction Box	
9	PARK/GREEN	GREEN	23	Vodafone OFC	VOFC	37	Electric Pole	
10	Building	BUILDING	24	Transformer		38	Bore Hole	BH
11	Shop	SHOP	25	Airtel OFC	AOFC	39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	P100
13	Temple	TEMPLE	27	Km Stone	KM	41	Edr.N.Ind.Dvp.Athrty	
14	Gate		28	Handpump	HP	42	Noida,Pwr.Co,Ltd.	

QUALITY ASSURANCE

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MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE: 1:200

DATE: SEP-20

REV.: R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

2

NOIDA SEC.123
CH:2539.950m.

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
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G - GRADIENT
L - LENGTH

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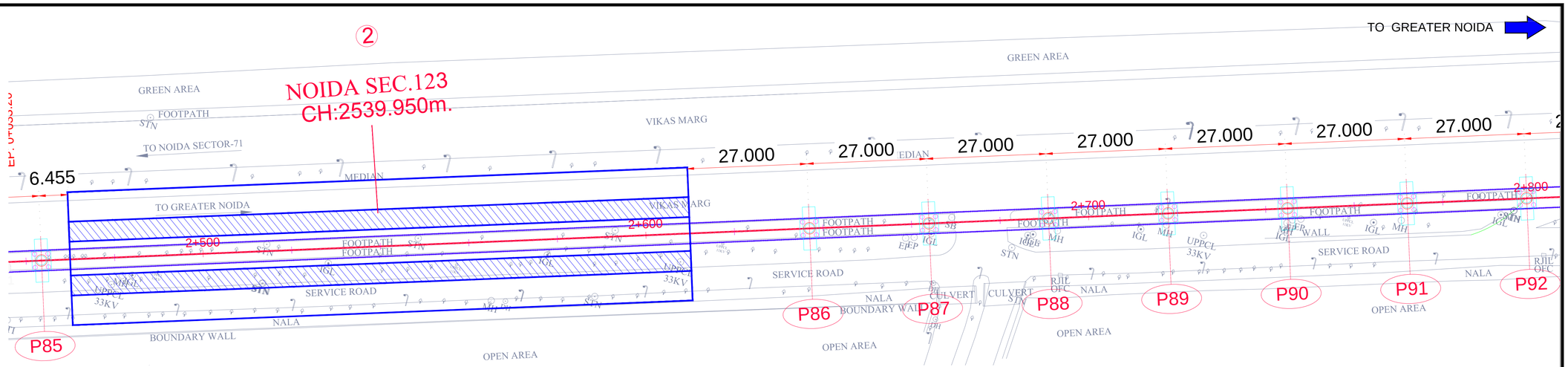
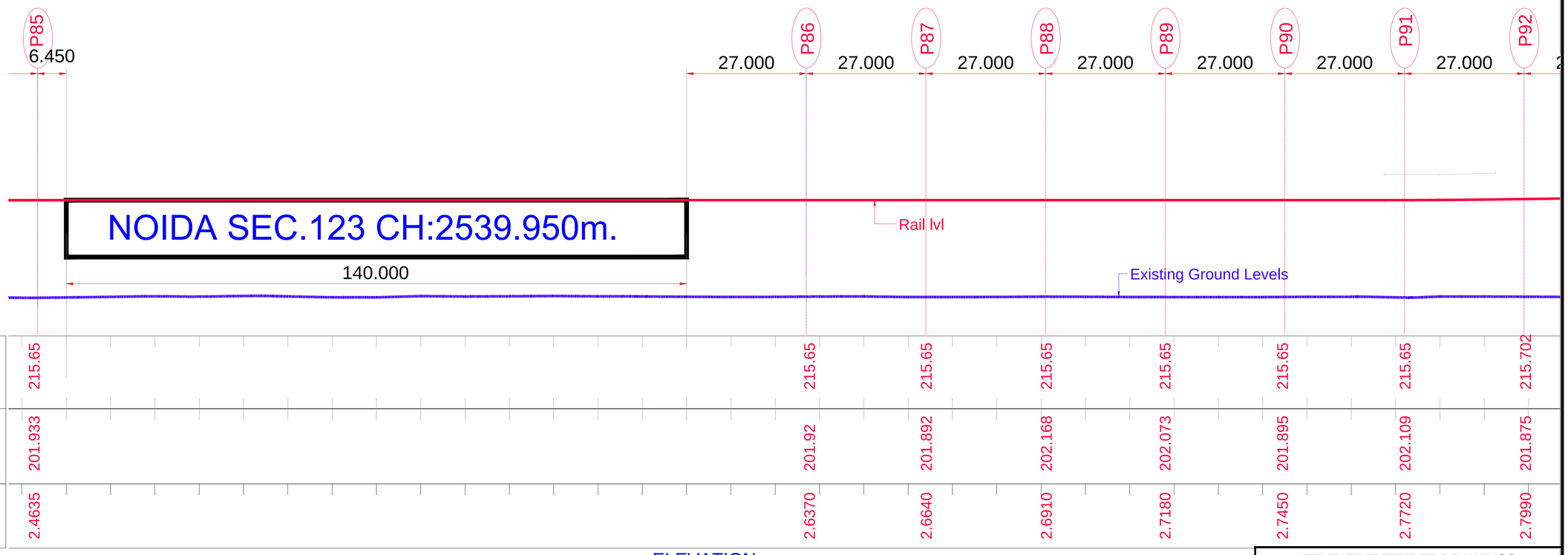




ELEVATION

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

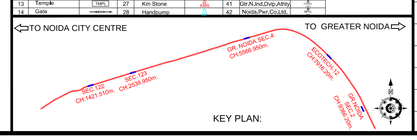
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-9-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

L E G E N D

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U, P, Pwr, Co, Ltd.	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	STN
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Hindrapratha G, Ltd.	
6	POND	POND	20	Man Hole	MH	34	Well	
7	Drain		21	Lamp Post		35	Culvert	CULV
8	Nala		22	Optical F-Cable	OFC	36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC	VOFC	37	Electric Pole	
10	Building	BUILD	24	Transformer		38	Bore Hole	BH
11	Shop	SHOP	25	Airtel OFC	AOFC	39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	P100
13	Temple	TEMPL	27	Km Stone	KM	41	Edr.N.Ind.Dvp.Athy	
14	Gate		28	Handpump	HP	42	Noida,Pwr.Co,Ltd.	



KEY PLAN:

QUALITY ASSURANCE

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DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE 1:200

DATE SEP-20

REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
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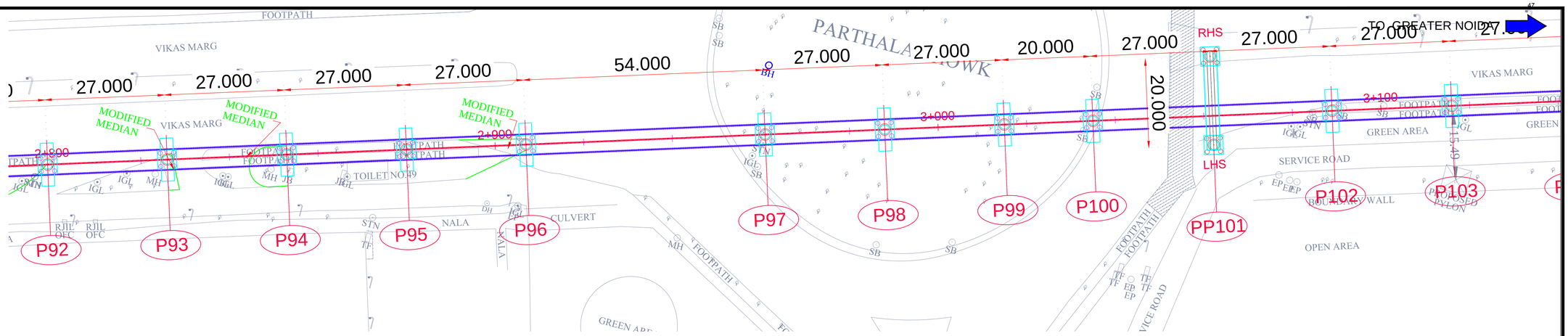
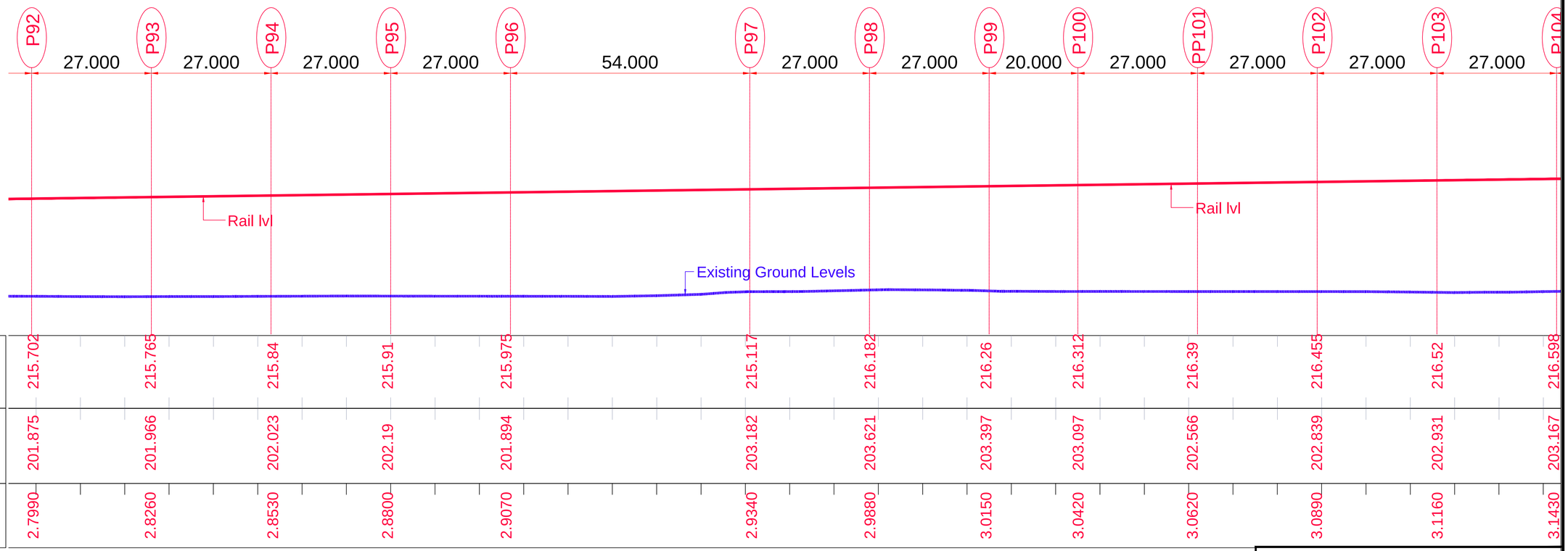
3. CP = CNTILEVER PIER



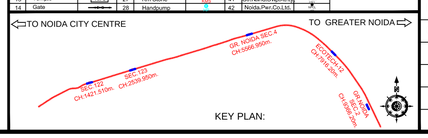


Rail lvl	215.702	215.765	215.84	215.91	215.975	215.117	216.182	216.26	216.312	216.39	216.455	216.52	216.598	
Existing Ground Levels	201.875	201.966	202.023	202.19	201.894	203.182	203.621	203.397	203.097	202.566	202.839	202.931	203.167	
CHAINAGE	2.7990	2.8260	2.8530	2.8800	2.9070	2.9340	2.9880	3.0150	3.0420	3.0620	3.0890	3.1160	3.1430	

ELEVATION

L E G E N D

SLNO	DESCRIPTION	SYMBOL	SLNO	DESCRIPTION	SYMBOL	SLNO	DESCRIPTION	SYMBOL
1	Road	ROAD	15	Bridge		29	Lt, Pr, Pwr, Co, Ltd,	
2	Boundary Wall		16	Bus Stop	B/Stop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole		33	Indraprastha G, Ltd,	
6	POND	POND	20	Man Hole		34	Wall	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building		24	Transformer		38	Bore Hole	
11	Shop	SHOP	25	Airtel OFC		39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	
13	Temple	TEMPLE	27	Km Stone		41	(Gn.N,Ind,Dvlp,Athty,	
14	Gate		28	Handpump		42	Noida,Pwr,Co,Ltd,	



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MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE: GENERAL ARRANGEMENT DRAWING

SCALE 1:200

DATE SEP-20

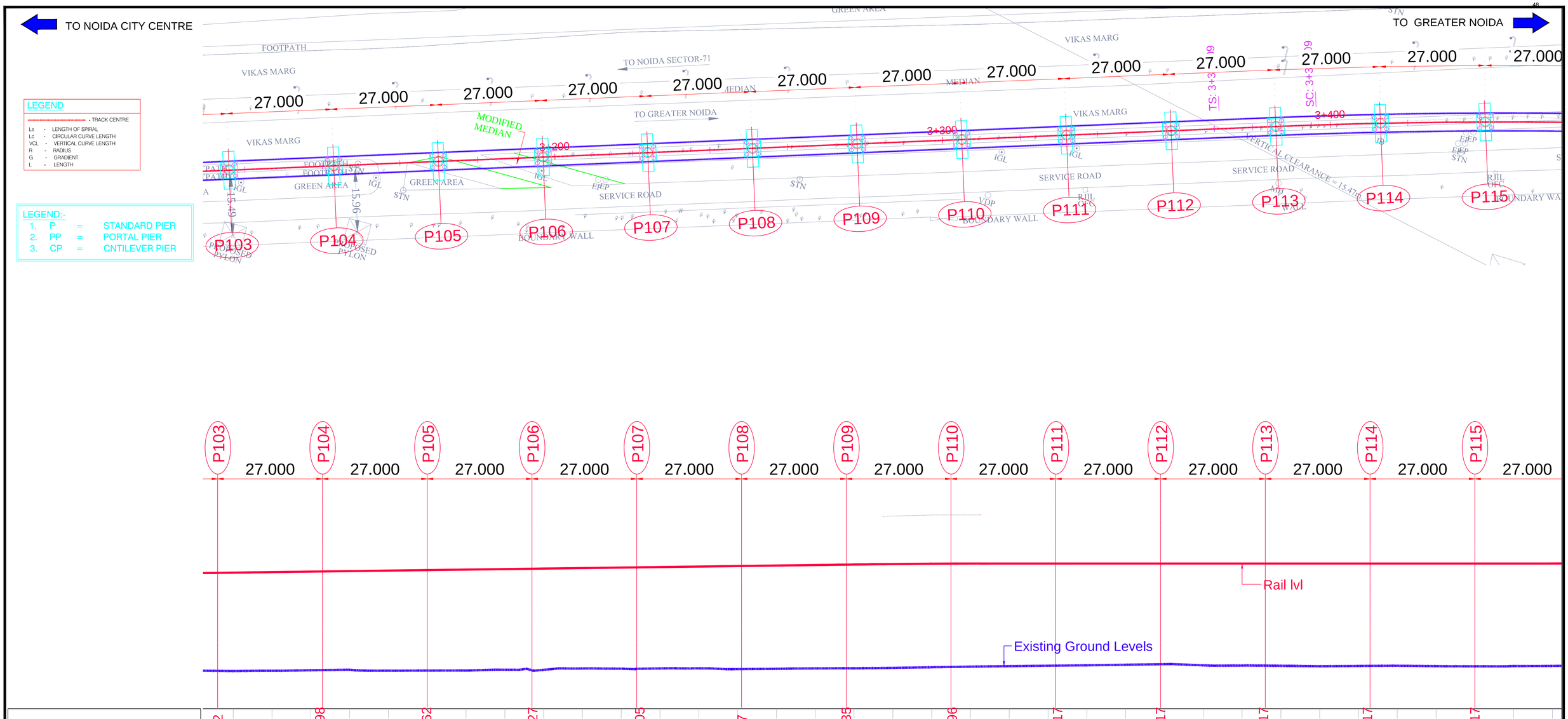
REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS



LEGEND

- TRACK CENTRE

Ls	-	LENGTH OF SPIRAL
Lc	-	CIRCULAR CURVE LENGTH
VCL	-	VERTICAL CURVE LENGTH
R	-	RADIUS
G	-	GRADIENT
L	-	LENGTH

LEGEND:-

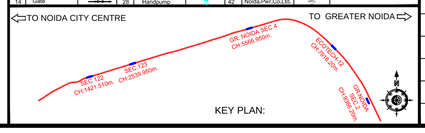
1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

	P103	P104	P105	P106	P107	P108	P109	P110	P111	P112	P113	P114	P115
Rail lvl	216.52	216.598	216.662	216.727	216.805	216.87	216.935	216.996	217.217	217.217	217.217	217.217	217.217
Existing Ground Levels	202.931	203.167	203.126	203.334	203.653	203.5	203.715	204.063	204.376	204.778	204.394	204.342	204.23
CHAINAGE	3.1160	3.1430	3.1700	3.1970	3.2240	3.2510	3.2780	3.3050	3.3320	3.3590	3.3860	3.4130	3.4400

ELEVATION

L E G E N D

SLNO	DESCRIPTION	SYMBOL	SLNO	DESCRIPTION	SYMBOL	SLNO	DESCRIPTION	SYMBOL
1	Road	ROAD	15	Bridge		29	U, P, Pwr, Co, Ltd.	
2	Boundary Wall		16	Bus Stop	BUSstop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole		33	Indraprastha G, Ltd.	
6	POND	POND	20	Man Hole		34	Wall	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building		24	Transformer		38	Bore Hole	
11	Shop	SHOP	25	Airtel OFC		39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	
13	Temple	TEMPLE	27	Km Stone		41	IGn.N.Ind.Dvlp.Athty.	
14	Gate		28	Handpump		42	Noida.Pwr.Co.Ltd.	



KEY PLAN:

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GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
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DRAWN BY	GAURAV		26-Sep-20

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 6 5 8 1 4 - 1 8
info@lkteng ineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE: 1:200

DATE: SEP-20

REV.: R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
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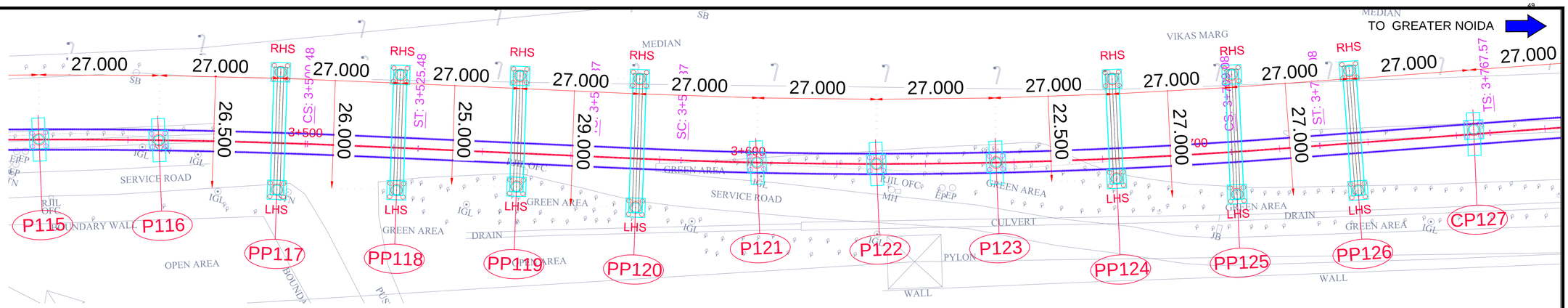

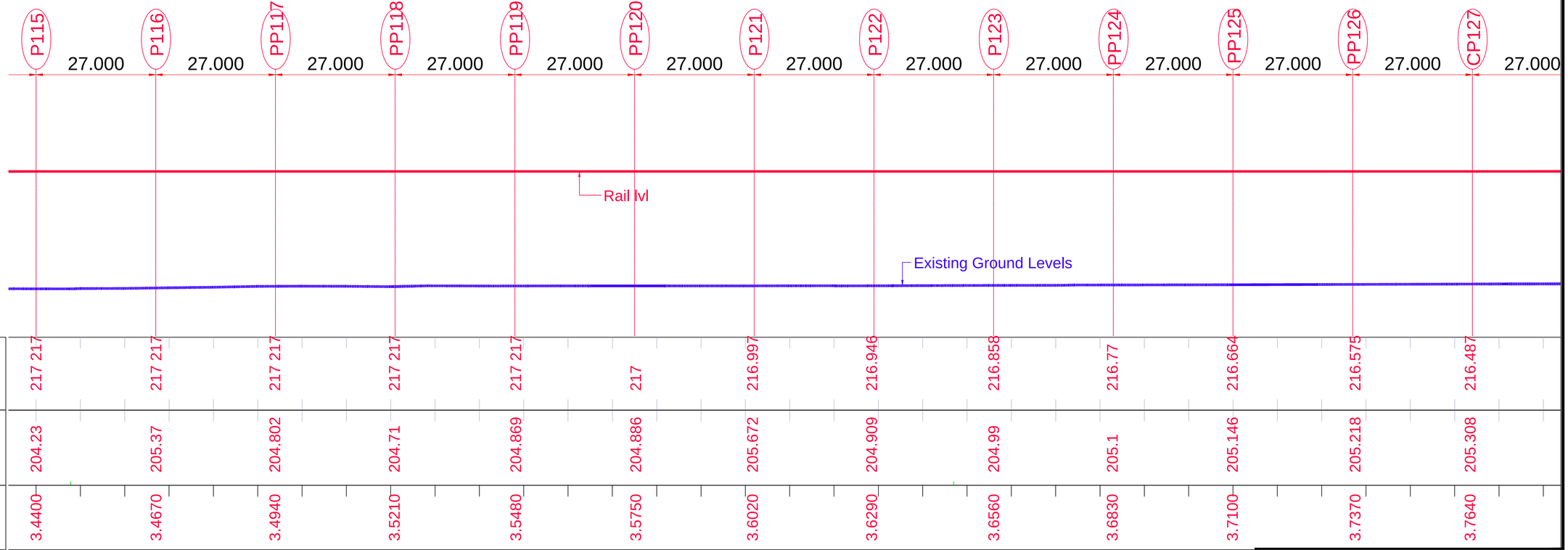

CHAINAGE	Existing Ground Levels	Rail lvl
3.4400	204.23	217.217
3.4670	205.37	217.217
3.4940	204.802	217.217
3.5210	204.71	217.217
3.5480	204.869	217.217
3.5750	204.886	217
3.6020	205.672	216.997
3.6290	204.909	216.946
3.6560	204.99	216.858
3.6830	205.1	216.77
3.7100	205.146	216.664
3.7370	205.218	216.575
3.7640	205.308	216.487

ELEVATION

TENTATIVE TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
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L E G E N D

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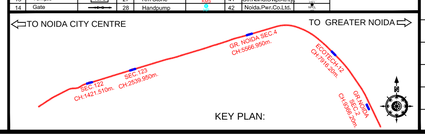
9	PARKGREEN		23	Vodafone OFC		37	Electric Pole	
10	Building		24	Transformer		38	Bore Hole	
11	Shop		25	Airtel OFC		39	Sign Board	
12	Shed		26	Flood Light		40	Tree No.	
13	Temple		27	Km Stone		41	IGn.N,Ind,Ovlp,Abtg	
14	Gate		28	Handpump		42	Noida,Pwr,Co,Ltd.	



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NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

NOIDA METRO RAIL CORPORATION LTD.

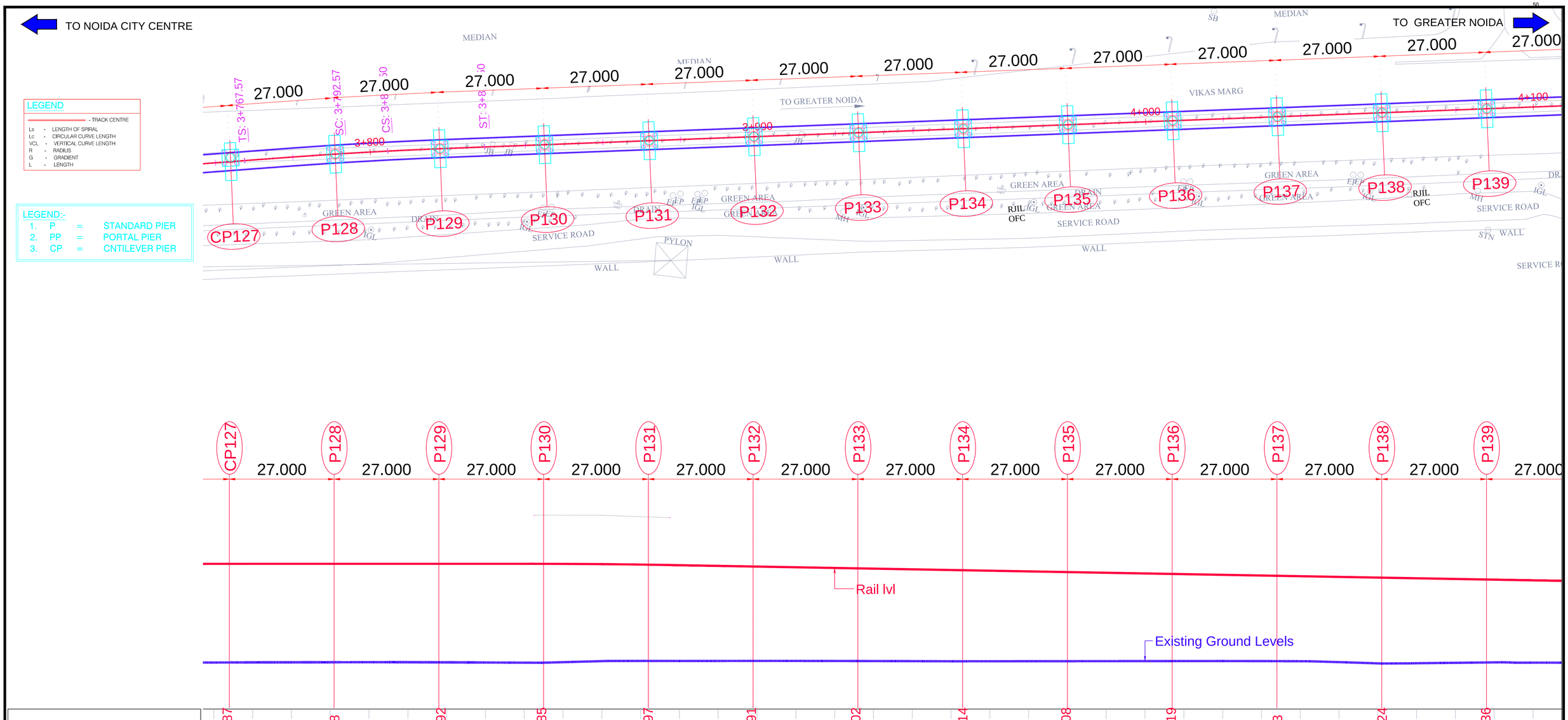
TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE 1:200

DATE SEP-20

REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001



Rail lvl	216.487		216.38		216.292		216.185		216.097		215.991		215.902		215.814		215.708		215.619		215.53		215.424		215.336	
Existing Ground Levels	205.308		205.361		205.334		205.314		205.701		205.709		205.676		205.615		205.634		205.655		205.638		205.071		205.327	
CHAINAGE	3.7640		3.7910		3.8180		3.8450		3.8720		3.8990		3.9260		3.9530		3.9800		4.0070		4.0340		4.0610		4.0880	

ELEVATION

LEGEND

- TRACK CENTRE

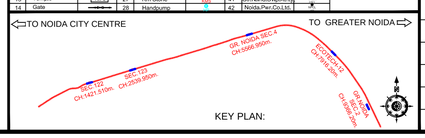
Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

L E G E N D

SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL
1	Road	ROAD	15	Bridge	BRIDGE	29	Lt, Pr, Pwr, Co, Ltd,	
2	Boundary Wall		16	Bus Stop	BUS Stop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	CP1
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole		33	Indraprastha G, Ltd,	
6	POND	POND	20	Man Hole		34	Well	
7	Drain		21	Lamp Post		35	Culvert	Culvert
8	Nala		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC	VOF	37	Electric Pole	
10	Building	BUILD	24	Transformer		38	Bore Hole	
11	Shop	SHOP	25	Airtel OFC	AIRTEL	39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No,	P100
13	Temple	TEMPL	27	Km Stone		41	Gn.NDnD,Dvlp.Athrty	
14	Gate		28	Handpump		42	Noida,Pwr,Co,Ltd,	



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DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE: GENERAL ARRANGEMENT DRAWING

SCALE 1:200

DATE SEP-20

REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

13 OF 32

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

TO NOIDA CITY CENTRE

TO GREATER NOIDA

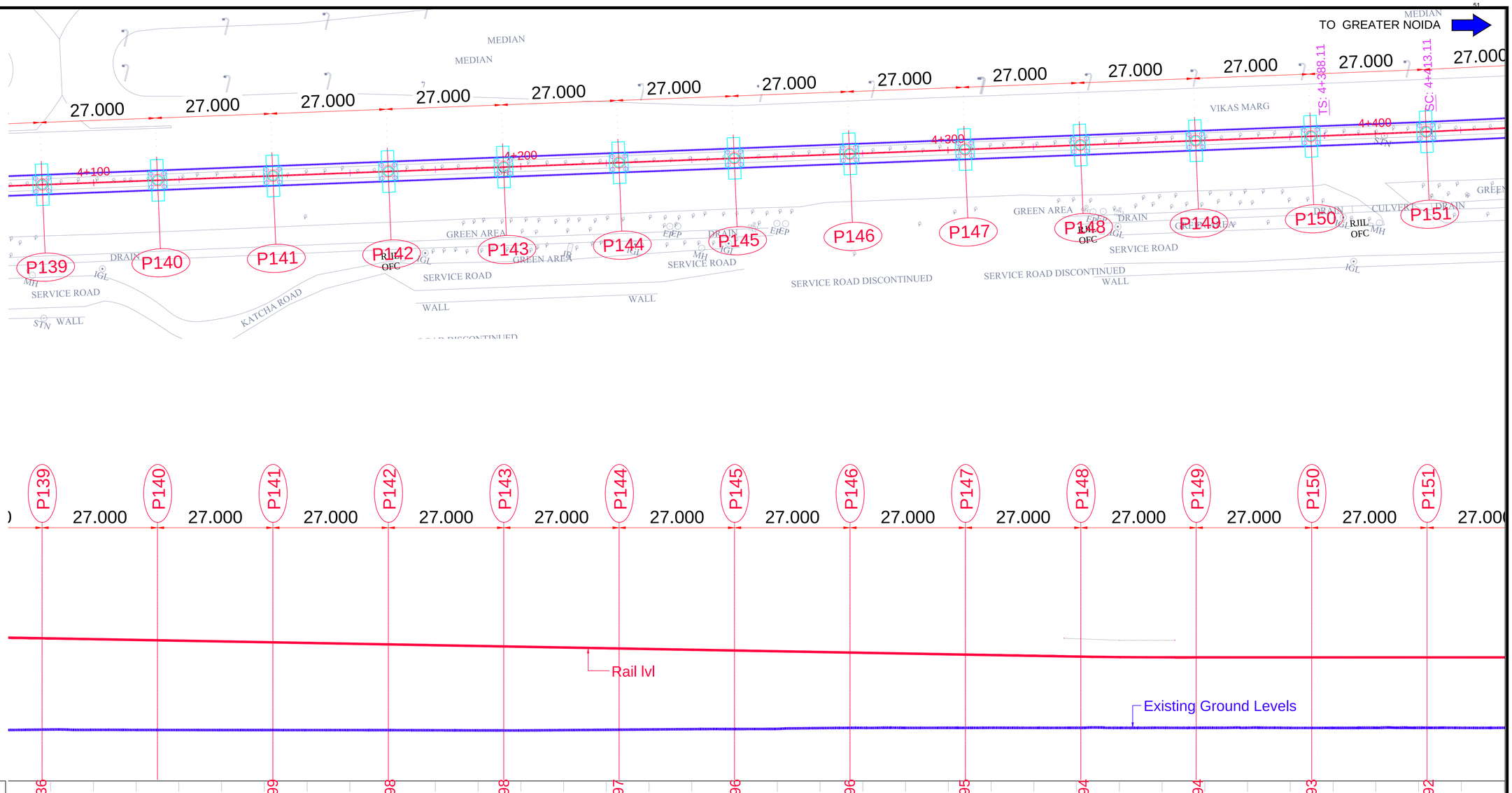
LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER



Rail lvl	215.336	215.3	215.299	215.298	215.298	215.297	215.296	215.296	215.295	215.294	215.294	215.293	215.292
Existing Ground Levels	205.327	204.862	204.457	204.426	205.002	205.303	205.262	205.692	205.744	205.732	205.736	205.701	205.737
CHAINAGE	4.0880	4.1150	4.1420	4.1690	4.1960	4.2230	4.2500	4.2770	4.3040	4.3310	4.3580	4.3850	4.4120

ELEVATION

TENTATIVE TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
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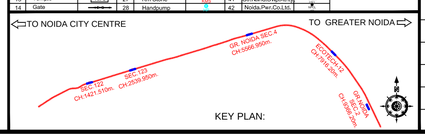
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

LEGEND

SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL	SL.NO	DESCRIPTION	SYMBOL
1	Road		15	Bridge		29	Lt. Pr. Pwr. Co. Ltd.	
2	Boundary Wall		16	Bus Stop		30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole		33	Indraprastha G. Ltd.	
6	POND		20	Man Hole		34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building		24	Transformer		38	Bore Hole	
11	Shop		25	Airtel OFC		39	Sign Board	
12	Shed		26	Flood Light		40	Tree No.	
13	Temple		27	Km Stone		41	Gn.N/Ind.Dvlp.Athrty	
14	Gate		28	Handpump		42	Noida Pwr.Co.Ltd.	



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DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
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DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE 1:200
DATE SEP-20
REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

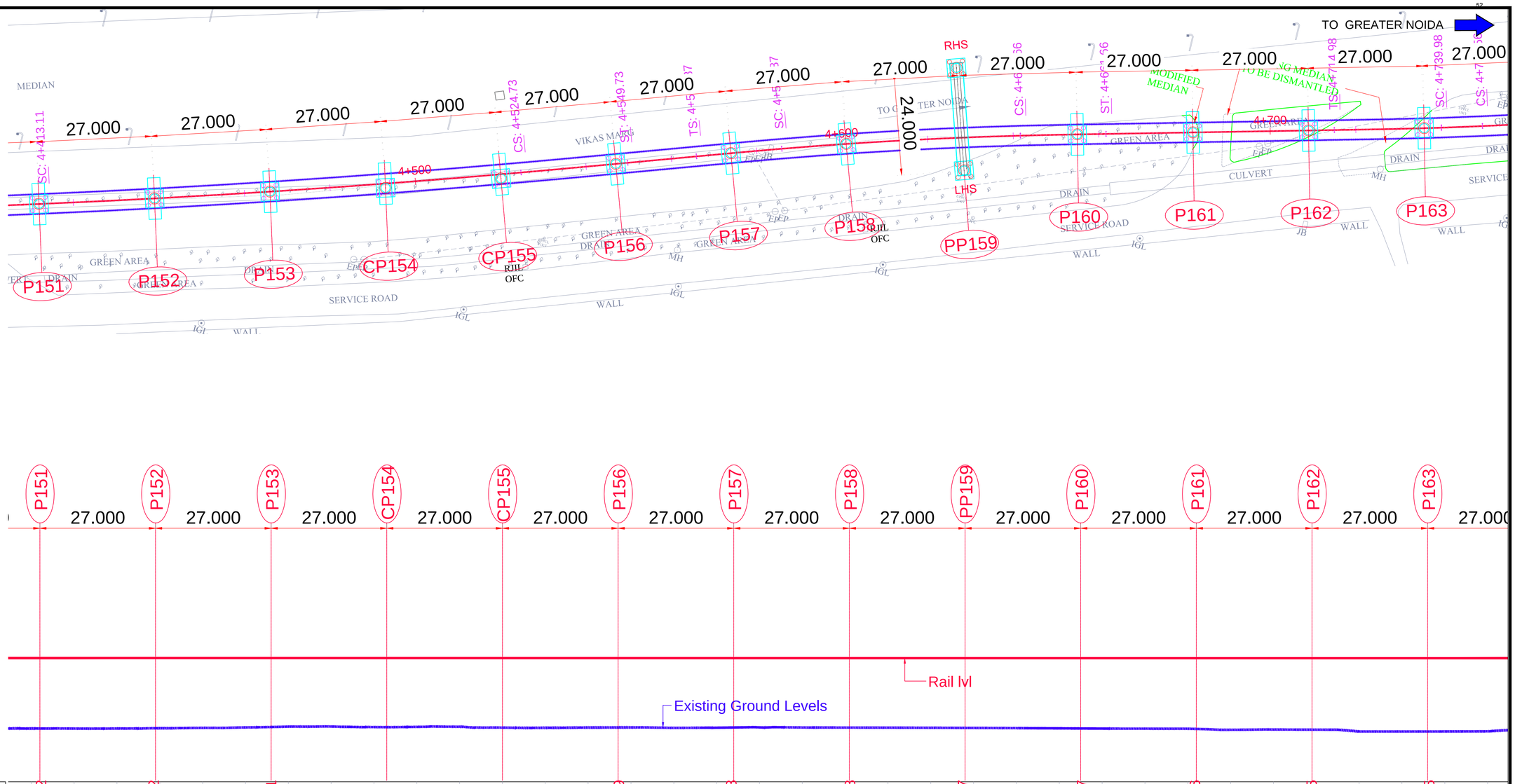
LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER



Rail lvl	215.292	215.292	215.291	215.29	215.29	215.289	215.288	215.288	215.287	215.287	215.286	215.285	215.285
Existing Ground Levels	205.737	205.804	206.188	206.084	205.954	205.993	205.919	205.96	205.871	205.722	205.687	205.472	204.922
CHAINAGE	4.4120	4.4390	4.4660	4.4930	4.5200	4.5470	4.5740	4.6010	4.6280	4.6550	4.6820	4.7090	4.7360

ELEVATION

TENTATIVE TENDER DRAWINGS

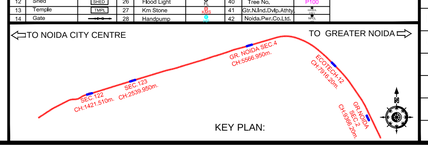
CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

L E G E N D

SLNO	DESCRIPTION	SYMBOL	SLNO	DESCRIPTION	SYMBOL	SLNO	DESCRIPTION	SYMBOL
1	Road	ROAD	15	Bridge		29	LL.P., Pwr, Co, Ltd.,	
2	Boundary Wall		16	Bus Stop	Bs Stop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole		33	Indraprastha G, Ltd,	
6	POND	POND	20	Man Hole		34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nalu		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building	BUILD	24	Transformer		38	Bore Hole	
11	Shop	SHOP	25	Airtel OFC		39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No,	
13	Temple	TEMPLE	27	Km Stone		41	Gtr,Noida(Udp,Athty)	
14	Gate		28	Handpump		42	Noida,Pwr,Co,Ltd,	



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DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
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DRAWN BY	GAURAV		26-Sep-20

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE 1:200
DATE SEP-20
REV. R1

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
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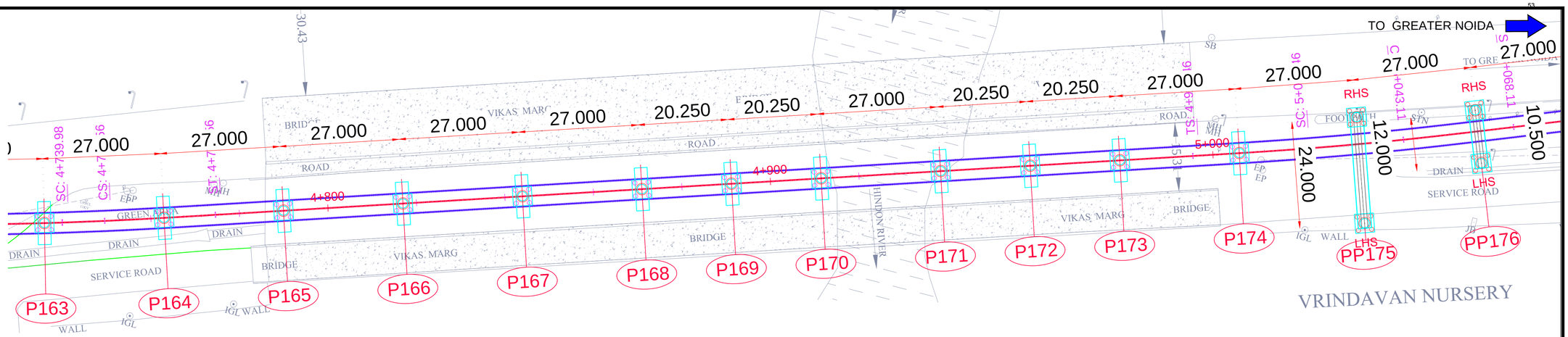

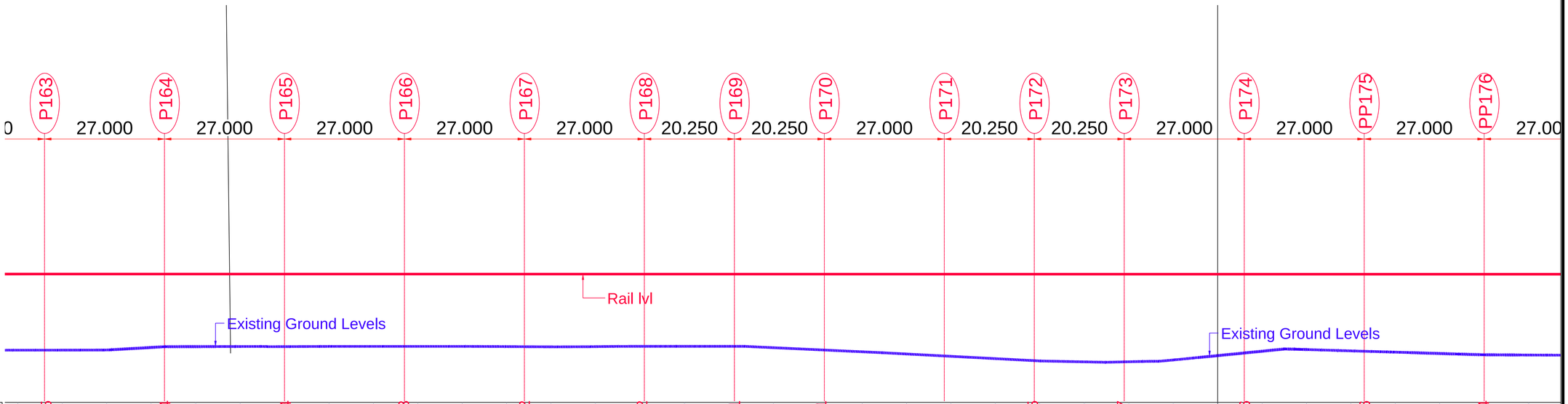

Rail lvl	215.285	215.284	215.284	215.283	215.282	215.282	215.281	215.281	215.28	215.295	215.387	215.496	215.626	215.734	
Existing Ground Levels	204.922	205.655	205.841	205.898	205.848	205.913	205.903	205.229	203.664	202.62	202.438	204.315	204.888	204.003	
CHAINAGE	4.7360	4.7630	4.7900	4.8170	4.8440	4.8710	4.8980	4.9182	4.9385	4.9655	4.9857	5.0060	5.0330	5.0600	

ELEVATION

TENTATIVE TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
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NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
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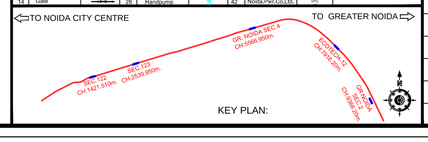
L E G E N D

SLNO	DESCRIPTION	SYMBOL	SLNO	DESCRIPTION	SYMBOL	SLNO	DESCRIPTION	SYMBOL
1	Road	ROAD	15	Bridge		29	Lt, Pr, Pwr, Co, Ltd,	
2	Boundary Wall		16	Bus Stop	Bstop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole		33	Indraprastha G, Ltd,	
6	POND	Pond	20	Man Hole		34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nalu		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building	BLDG	24	Transformer		38	Bore Hole	
11	Shop	SHOP	25	Airtel OFC		39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No,	P100
13	Temple	TEMPL	27	Km Stone		41	Gb,Ndia(Ltd)Mtnl	
14	Gate		28	Handpump		42	Noida,Pwr,Co,Ltd,	



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DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
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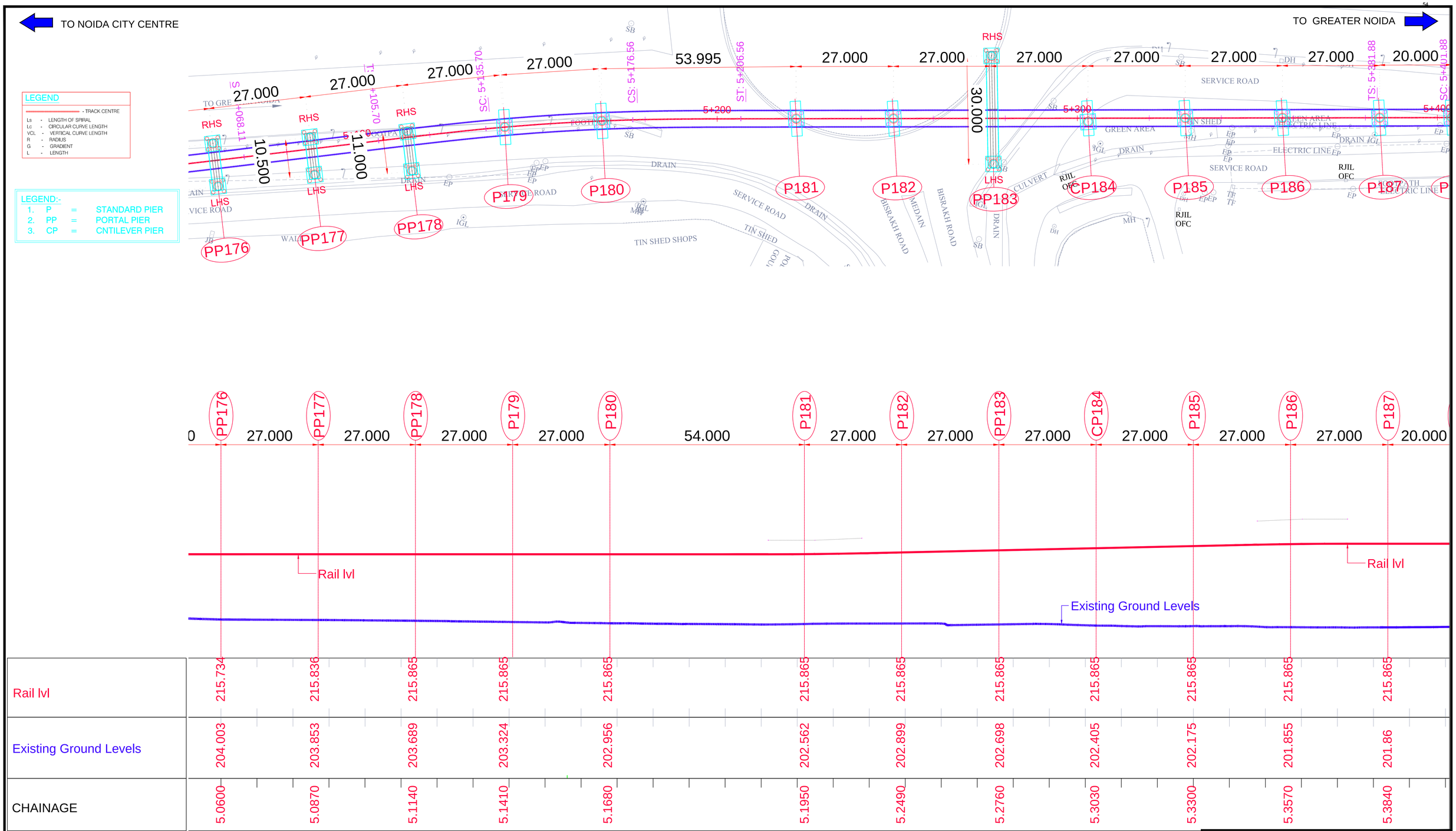
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE 1:200
DATE SEP-20
REV. R1

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001


TO NOIDA CITY CENTRE
TO GREATER NOIDA
LEGEND
- TRACK CENTRE
Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
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L - LENGTH
LEGEND:-
1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER
27.000
53.995
30.000
20.000
10.500
11.000
SC: 5+135.70
CS: 5+176.56
ST: 5+266.56
TS: 5+381.88
SC: 5+401.88
5+200
5+300
5+400
RHS
LHS
PP176
PP177
PP178
P179
P180
P181
P182
PP183
CP184
P185
P186
P187
SERVICE ROAD
DRAIN
GREEN AREA
FOOTPATH
ELECTRIC LINE
RJIL OFC
CULVERT
BISRAKH ROAD
MEDAIN
TIN SHED SHOPS
TIN SHED
WALL
MH
IGL
SB
DH
TF
EP
Rail lvl
Existing Ground Levels
54.000
0

| | | |

TO NOIDA CITY CENTRE

TO GREATER NOIDA

GR. NOIDA SEC.4
CH:5566.950m.

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
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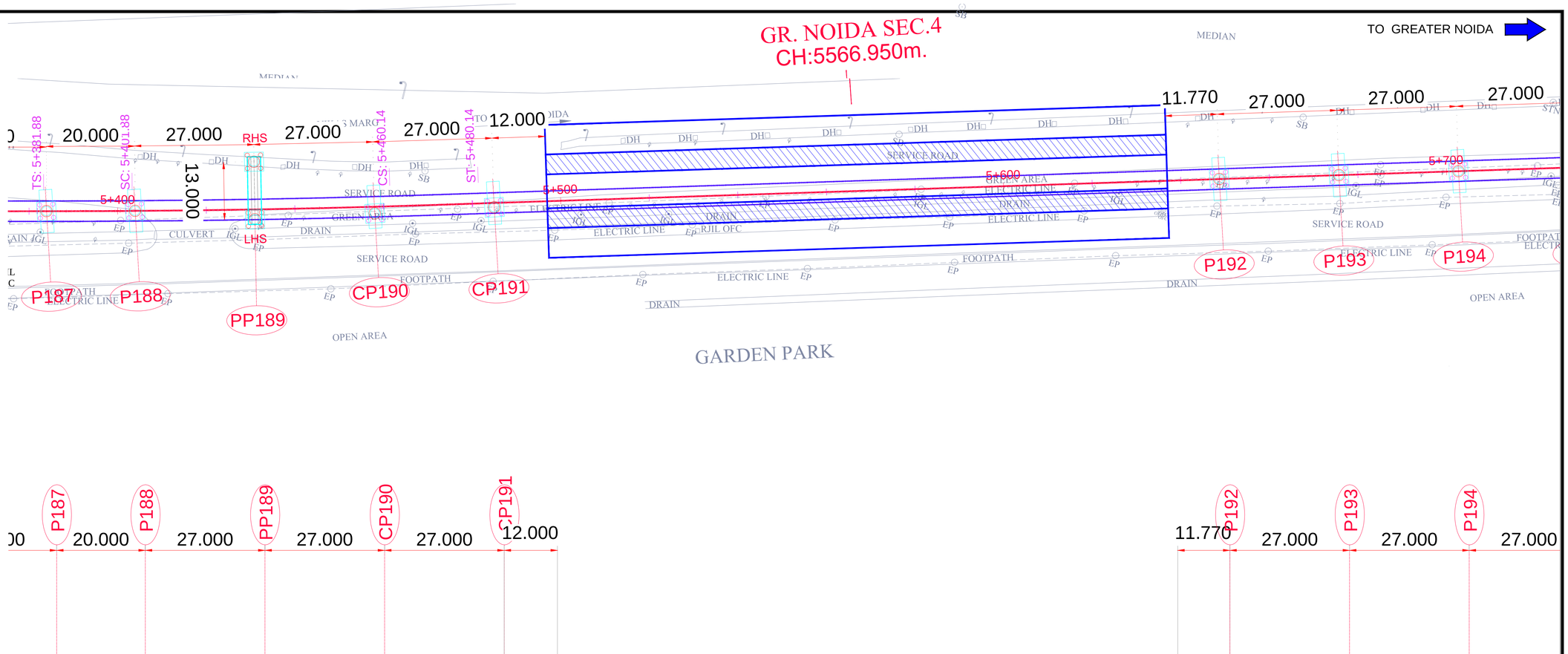
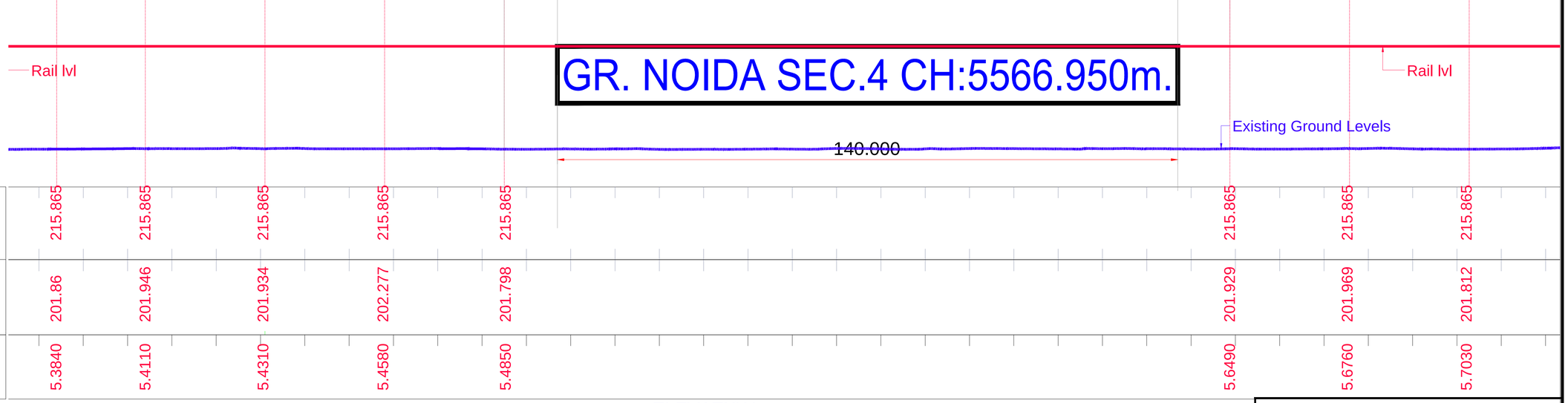




Rail lvl

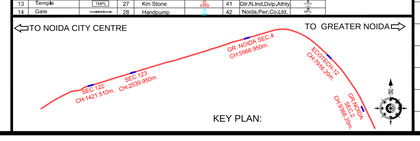
Existing Ground Levels

CHAINAGE

ELEVATION

LEGEND

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U, P, Pwr, Co, Ltd.	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	STN
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Hindrapratha G, Ltd.	
6	POND	POND	20	Man Hole	MH	34	Well	
7	Drain		21	Lamp Post		35	Culvert	CULV
8	Nala		22	Optical F-Cable	OFC	36	Junction Box	
9	PARK/GREEN	GARDEN	23	Vodafone OFC	VOFC	37	Electric Pole	
10	Building	BUILD	24	Transformer		38	Bore Hole	BH
11	Shop	SHOP	25	Airtel OFC	AOFC	39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	P100
13	Temple	TEMPL	27	Km Stone	KM	41	Edn.N.Ind.Dvlp.Athrty	
14	Gate		28	Handpump	HP	42	Noida.Pwr.Co.Ltd.	



QUALITY ASSURANCE

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NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE 1:200

DATE SEP-20

REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

18 OF 32

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-9-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

TO NOIDA CITY CENTRE

TO GREATER NOIDA

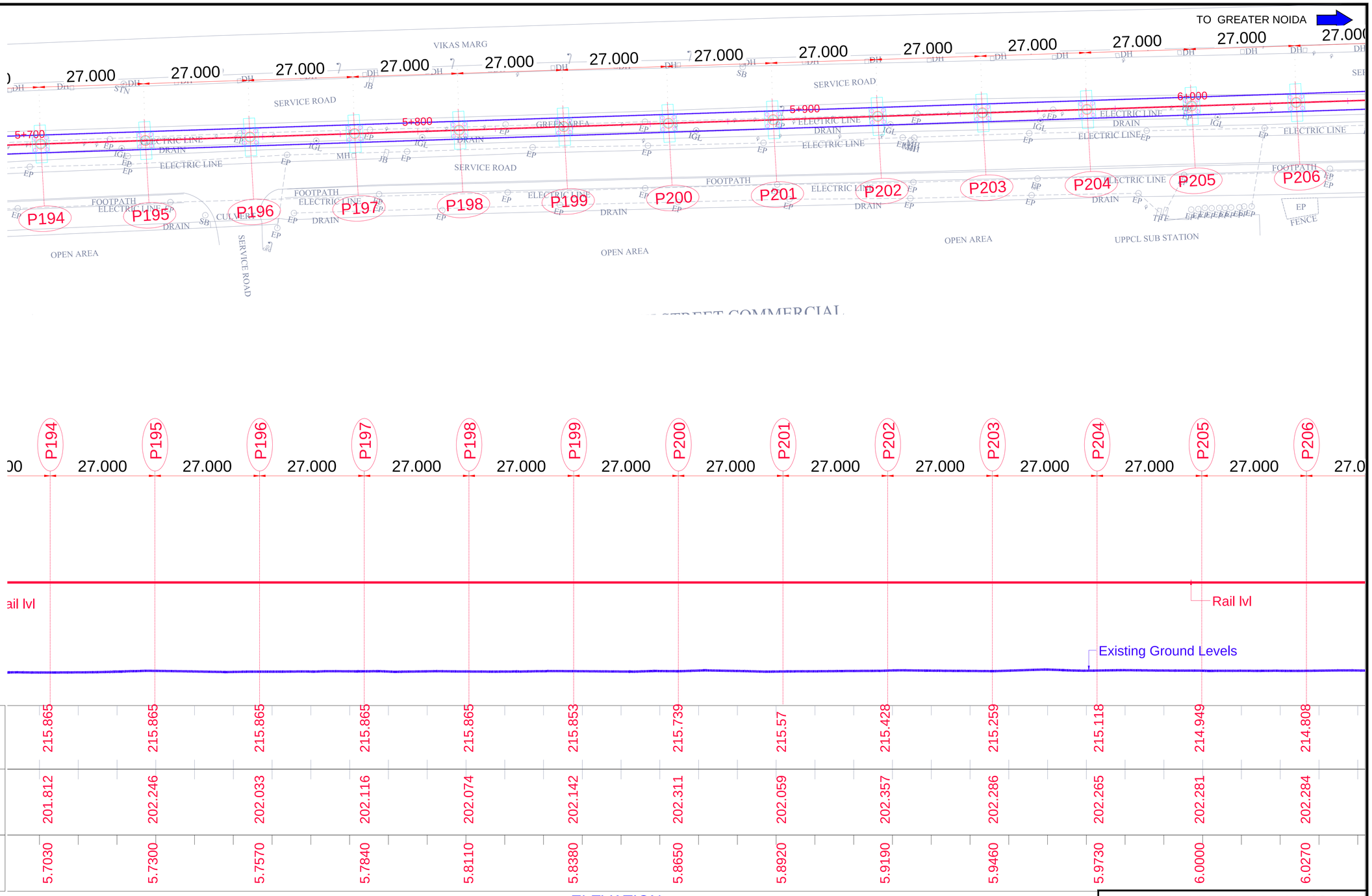
LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER



| | | |

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE

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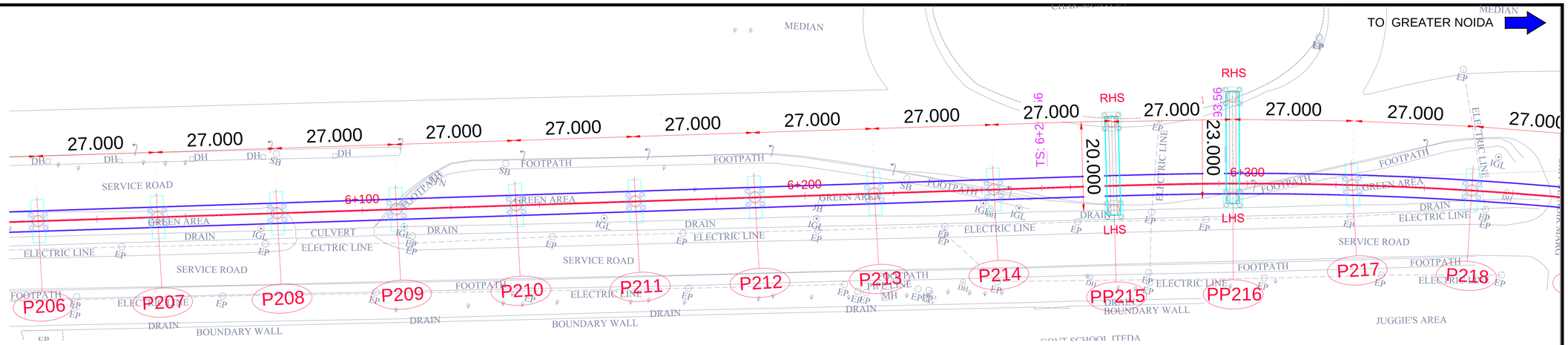

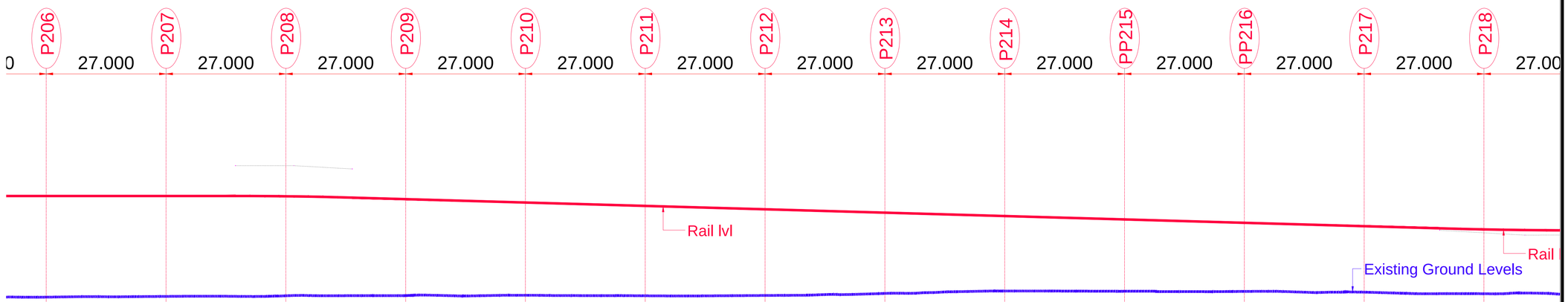

Rail lvl	214.808	214.667	214.498	214.363	214.309	214.321	214.332	214.345	214.357	214.371	214.382	214.395	214.407
Existing Ground Levels	202.284	202.454	202.52	202.695	202.615	202.559	202.624	203.11	203.628	203.567	203.549	203.19	203.021
CHAINAGE	6.0270	6.0540	6.0810	6.1080	6.1350	6.1620	6.1890	6.2160	6.2430	6.2700	6.2970	6.3240	6.3510

ELEVATION

TENTATIVE TENDER DRAWINGS

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

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FLAT NO. 75/288 SFS G-9-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

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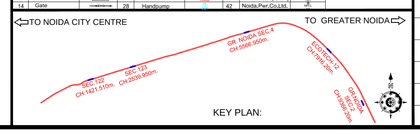
L E G E N D

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U, P, Pwr, Co, Ltd.	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	STN
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Hindprastha G, Ltd.	
6	POND	POND	20	Man Hole	MH	34	Wall	
7	Drain		21	Lamp Post		35	Culvert	CULV
8	Nala		22	Optical F-Cable	OFC	36	Junction Box	
9	PARK/GREEN	GREEN	23	Vodafone OFC	VOFC	37	Electric Pole	
10	Building	BUILD	24	Transformer		38	Bore Hole	BH
11	Shop	SHOP	25	Airtel OFC	AOFC	39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	P100
13	Temple	TEMPL	27	Km Stone	KM	41	Edn.N.Ind.Dvp.Athrty	
14	Gate		28	Handpump	HP	42	Noida,Pwr.Co.Ltd.	



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DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
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APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

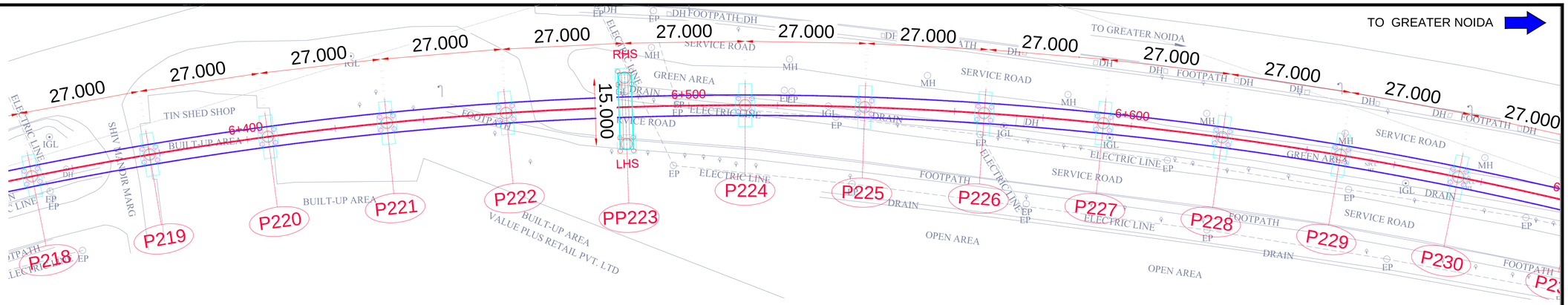
GENERAL ARRANGEMENT DRAWING

SCALE 1:200

DATE SEP-20

REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001



LEGEND

- TRACK CENTRE

Ls	-	LENGTH OF SPIRAL
Lc	-	CIRCULAR CURVE LENGTH
VCL	-	VERTICAL CURVE LENGTH
R	-	RADIUS
G	-	GRADIENT
L	-	LENGTH

LEGEND:-

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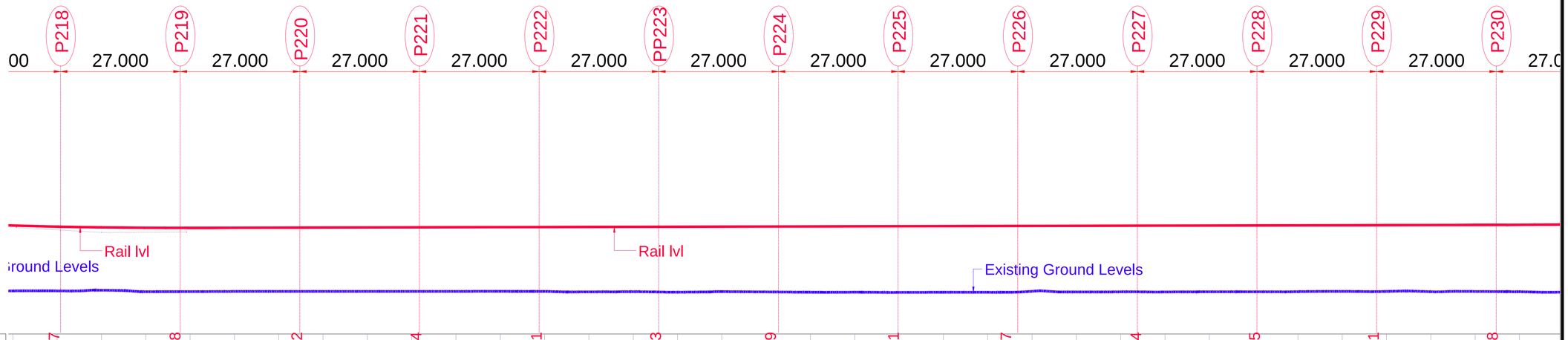


Rail lvl	214.407	214.418	214.432	214.444	214.481	214.573	214.649	214.741	214.817	214.894	214.985	215.061	215.138
Existing Ground Levels	203.021	203.667	204.876	204.279	202.9	202.729	202.784	202.677	202.928	202.805	202.815	202.896	202.843
CHAINAGE	6.3510	6.3780	6.4050	6.4320	6.4590	6.4860	6.5130	6.5400	6.5670	6.5940	6.6210	6.6480	6.6750

ELEVATION

TENTATIVE TENDER DRAWINGS

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

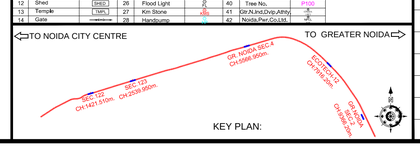
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-9-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

L E G E N D

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U, P, Pwr, Co, Ltd.	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Hydrosprashia G, Ltd.	
6	POND	POND	20	Man Hole	MH	34	Wall	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building	BLDG	24	Transformer		38	Bore Hole	
11	Shop	SHOP	25	Airtel OFC		39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	P100
13	Temple	TEMPL	27	Km Stone		41	Edr.N.Ind.Dvp.Athy.	
14	Gate		28	Handpump		42	Noida,Pwr.Co,Ltd.	



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MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE 1:200

DATE SEP-20

REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
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L - LENGTH

LEGEND:-

1. P = STANDARD PIER
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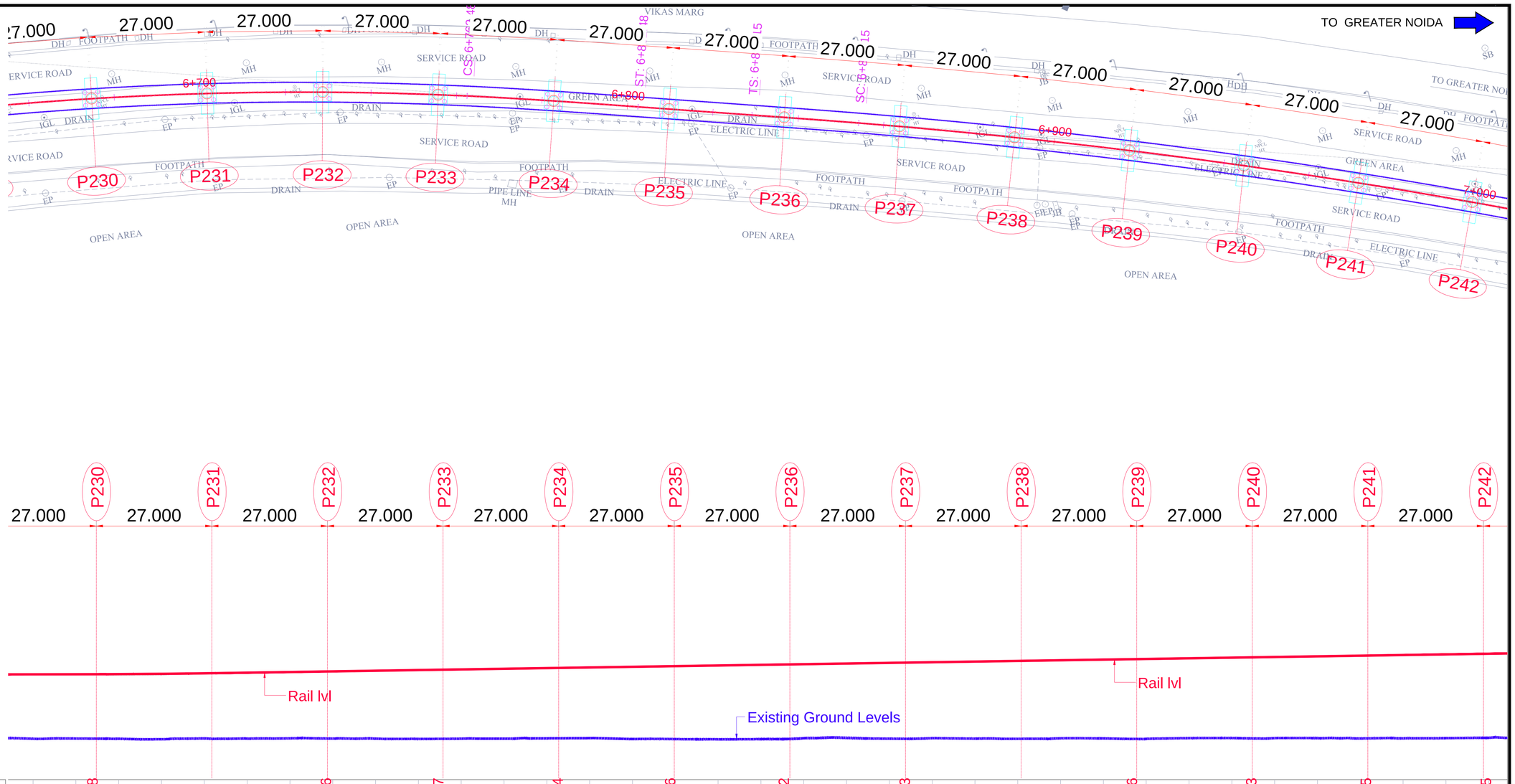

Rail lvl	215.138	215.23	215.306	215.397	215.474	215.566	215.642	215.733	215.81	215.886	215.963	216.055	216.155
Existing Ground Levels	202.843	202.907	202.873	202.845	202.934	202.754	202.959	202.853	202.825	202.808	202.993	202.909	203.056
CHAINAGE	6.6750	6.7020	6.7290	6.7560	6.7830	6.8100	6.8370	6.8640	6.8910	6.9180	6.9450	6.9720	6.9990

ELEVATION

TENTATIVE TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-9-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
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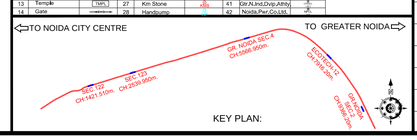
PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

L E G E N D

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U, P, Pwr, Co, Ltd.	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	STN
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Hindprashtra G, Ltd.	
6	POND	POND	20	Man Hole	MH	34	Wall	
7	Drain		21	Lamp Post		35	Culvert	CULV
8	Nala		22	Optical F-Cable	OFC	36	Junction Box	
9	PARK/GREEN	GREEN	23	Vodafone OFC	VOFC	37	Electric Pole	
10	Building	BLDG	24	Transformer		38	Bore Hole	BH
11	Shop	SHOP	25	Airtel OFC	AOFC	39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	P100
13	Temple	TEMPLE	27	Km Stone	KM	41	Edr.N,Ind,Dvlp,Athrty	
14	Gate		28	Handpump		42	Noida,Pwr,Co,Ltd.	

TO NOIDA CITY CENTRE — TO GREATER NOIDA



KEY PLAN:

QUALITY ASSURANCE

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DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

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NOIDA METRO RAIL CORPORATION LTD.

TITLE:
GENERAL ARRANGEMENT DRAWING

SCALE 1:200

DATE SEP-20

REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

TO GREATER NOIDA

VIKAS MARG

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
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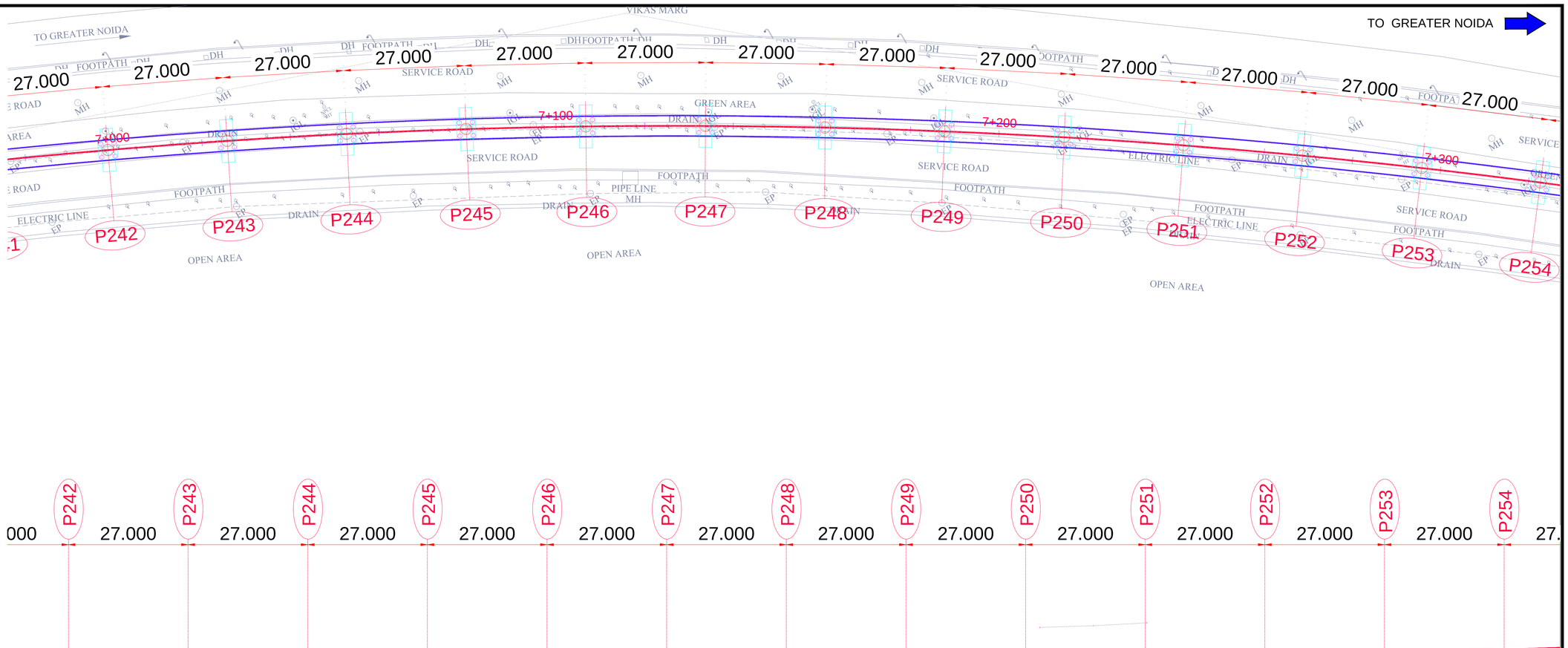

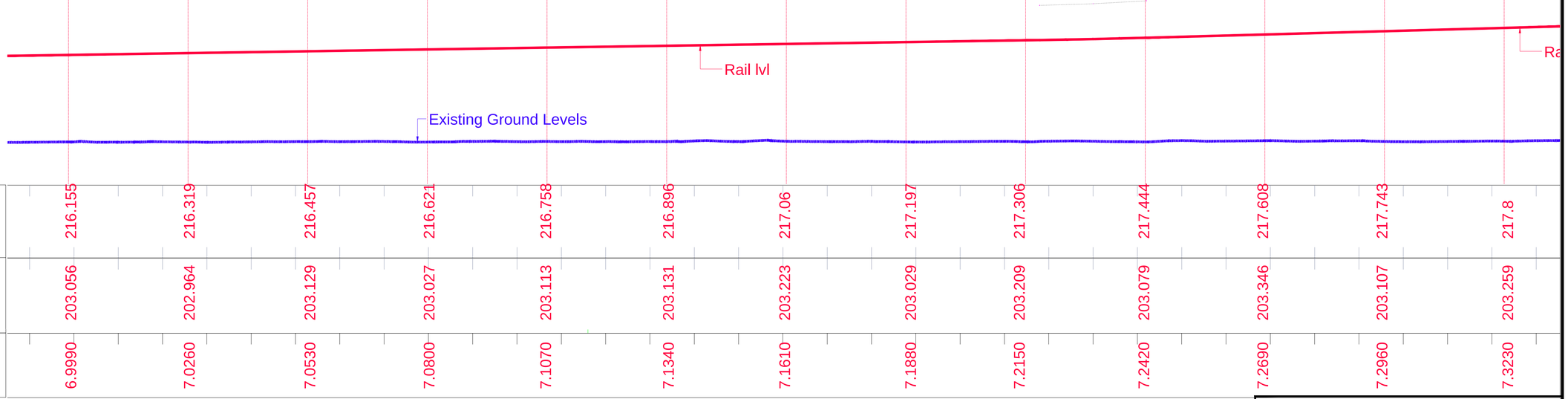

Rail lvl	216.155	216.319	216.457	216.621	216.758	216.896	217.06	217.197	217.306	217.444	217.608	217.743	217.8
Existing Ground Levels	203.056	202.964	203.129	203.027	203.113	203.131	203.223	203.029	203.209	203.079	203.346	203.107	203.259
CHAINAGE	6.9990	7.0260	7.0530	7.0800	7.1070	7.1340	7.1610	7.1880	7.2150	7.2420	7.2690	7.2960	7.3230

ELEVATION

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U. P. Pwr. Co. Ltd.	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole		33	Indraprastha G. Ltd.	
6	POND		20	Man Hole		34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building		24	Transformer		38	Bore Hole	
11	Shop		25	Airtel OFC		39	Sign Board	
12	Shed		26	Flood Light		40	Tree No.	
13	Temple		27	Km Stone		41	Gbr.N.Ind.Dvlp.Athty.	
14	Gate		28	Handpump		42	Noida.Pwr.Co.Ltd.	

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MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

CLIENT:

NOIDA METRO RAIL CORPORATION LTD,
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-45565814-18
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE: 1:200

DATE: SEP-20

REV.: R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

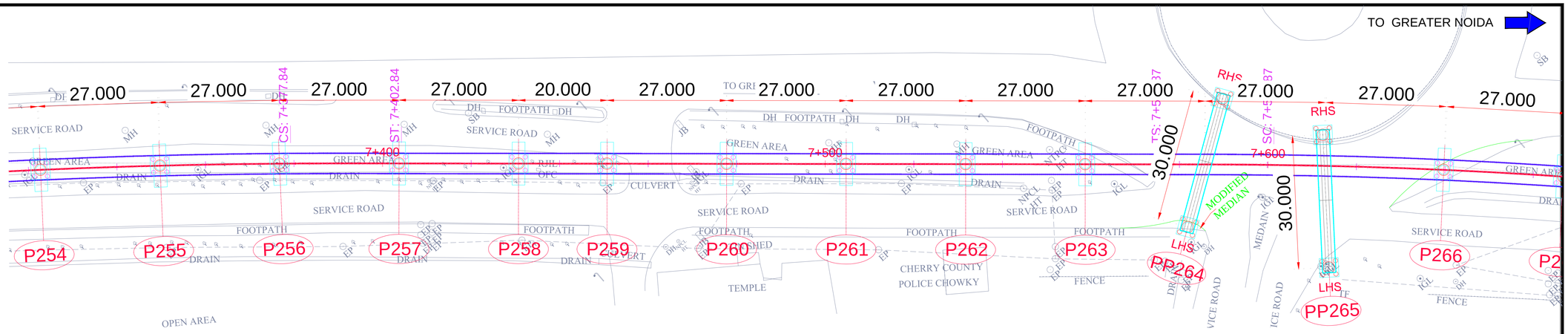
LEGEND

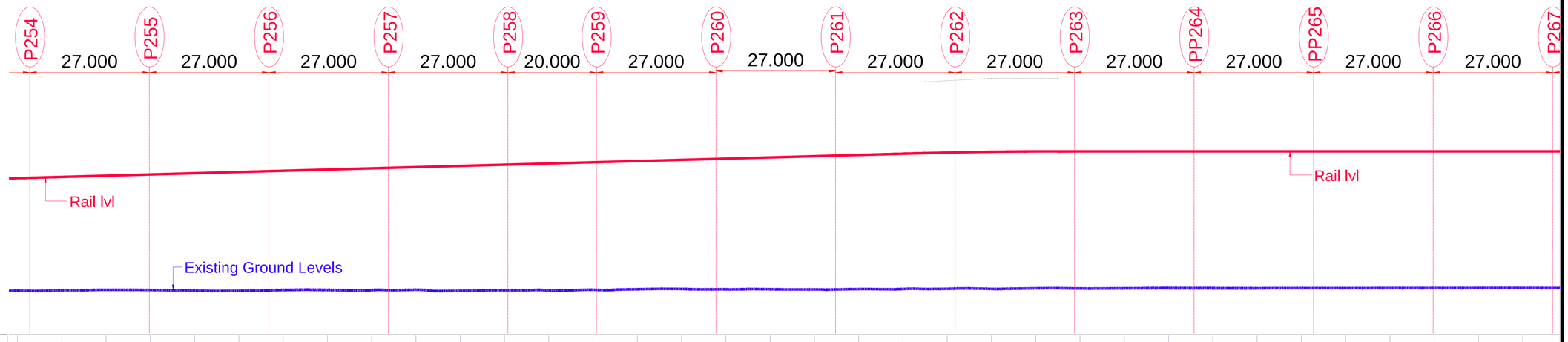
- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER





Rail lvl	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8
Existing Ground Levels	203.259	203.415	203.415	203.372	203.361	203.474	203.573	203.55	203.682	203.737	203.819	203.825	203.852	203.846
CHAINAGE	7.3230	7.3500	7.3770	7.4040	7.4310	7.4580	7.4850	7.5120	7.5390	7.5660	7.5930	7.6200	7.6470	7.6740

ELEVATION

TENTATIVE TENDER DRAWINGS

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-B-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
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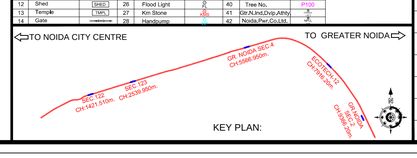
L E G E N D

S.NO.	DESCRIPTION	SYMBOL	S.NO.	DESCRIPTION	SYMBOL	S.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U, P, Pwr, Co, Ltd.	UPPCL
2.	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	CTN
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Hidrapranitha G, Ltd.	
6	POND	POND	20	Man Hole	MH	34	Wall	
7	Drain		21	Lamp Post		35	Culvert	CULVERT
8	Nala		22	Optical F-Cable	OFC	36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC	VOFC	37	Electric Pole	
10	Building	BLDG	24	Transformer		38	Bore Hole	BH
11	Shop	SHOP	25	Airtel OFC	AOFC	39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	P100
13	Temple	TEMPL	27	Km Stone		41	Gtr.N.Ind.Dvp.Athrty	
14	Gate		28	Handpump		42	Noida,Pwr,Co,Ltd.	



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NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

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DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE 1:200

DATE SEP-20

REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

ECOTECH-12
CH:7916.20m.

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
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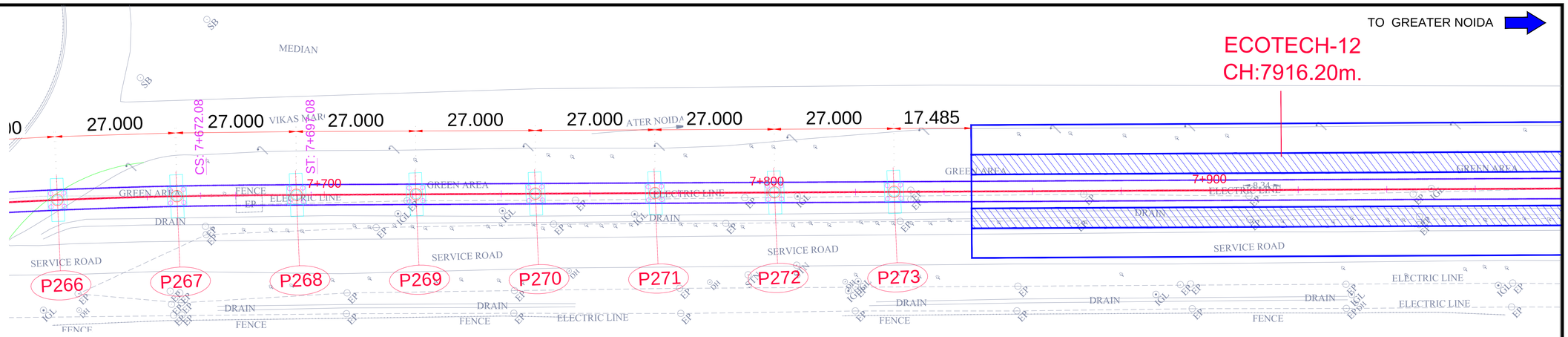

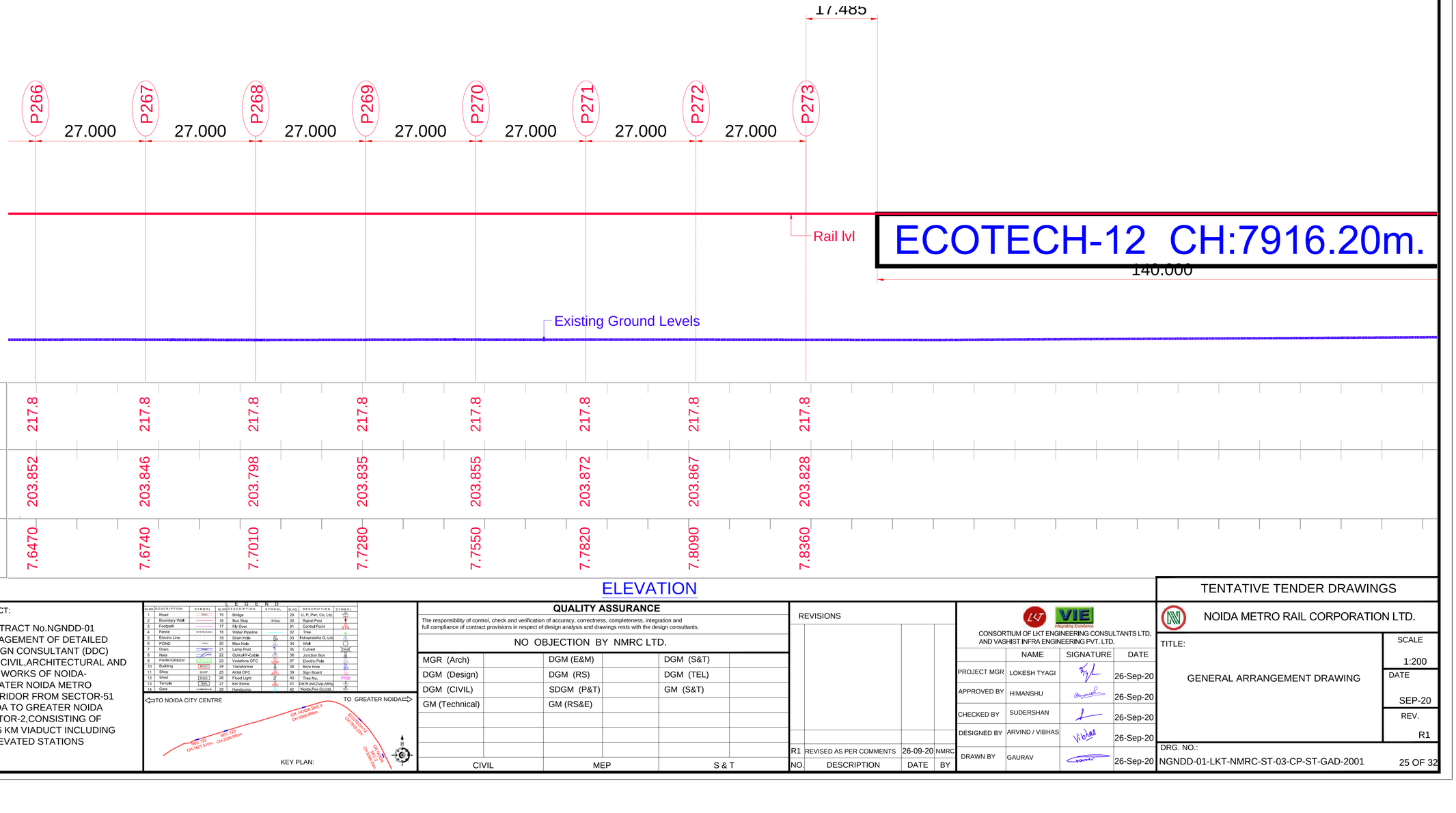

ELEVATION

TENTATIVE TENDER DRAWINGS

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

L E G E N D

SLNO	DESCRIPTION	SYMBOL	SLNO	DESCRIPTION	SYMBOL	SLNO	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U. P., Pwr., Co., Ltd.	UPPCL
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	CTN
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Hidrogreatha G. Ltd.	
6	POND	POND	20	Man Hole	MH	34	Wall	
7	Drain		21	Lamp Post		35	Culvert	Culvert
8	Nala		22	Optical F.Cable	OFC	36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC	VOFC	37	Electric Pole	
10	Building	BLDG	24	Transformer		38	Bore Hole	BH
11	Shop	SHOP	25	Airtel OFC	AOFC	39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	P100
13	Temple	TEMPL	27	Km Stone		41	Gtr.N.Ind.Dvp.Athrty	
14	Gate		28	Handpump		42	Noida.Pwr.Co.Ltd.	

QUALITY ASSURANCE

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MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE: 1:200

DATE: SEP-20

REV.: R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

ECOTECH-12
CH:7916.20m.

TO GREATER NOIDA

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
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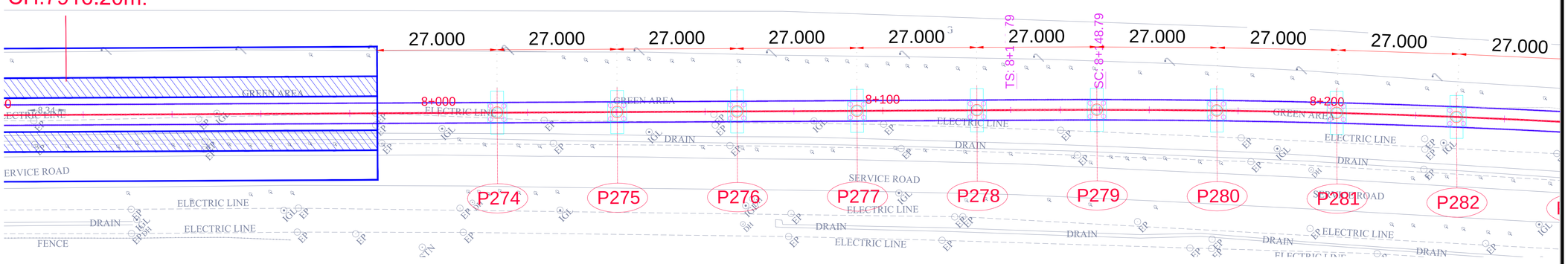
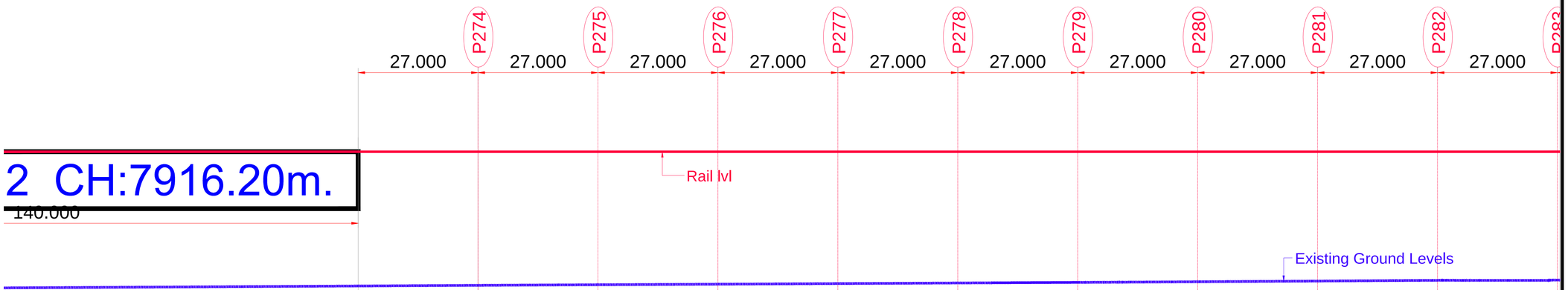




2 CH:7916.20m.

140.000

Rail lvl	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8
Existing Ground Levels	204.583	204.731	204.878	205.024	205.122	205.267	205.438	205.557	205.735
CHAINAGE	8.0132	8.0402	8.0672	8.0942	8.1212	8.1482	8.1752	8.2022	8.2292

ELEVATION

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-B-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

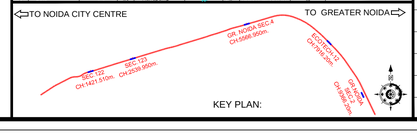
PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

L E G E N D

SLNO	DESCRIPTION	SYMBOL	SLNO	DESCRIPTION	SYMBOL	SLNO	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U. P., Pwr. Co, Ltd.	
2.	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Krishnprabha G. Ltd.	
6	POND	POND	20	Man Hole	MH	34	Wall	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building	BLDG	24	Transformer		38	Bore Hole	
11	Shop	SHOP	25	Airtel OFC		39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	P100
13	Temple	TEMPL	27	Km Stone		41	Gtr.N.Ind.Dvp.Athrty	
14	Gate		28	Handpump		42	Noida.Pwr.Co.Ltd.	

TO NOIDA CITY CENTRE — TO GREATER NOIDA



KEY PLAN:

QUALITY ASSURANCE

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NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
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DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE 1:200

DATE SEP-20

REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
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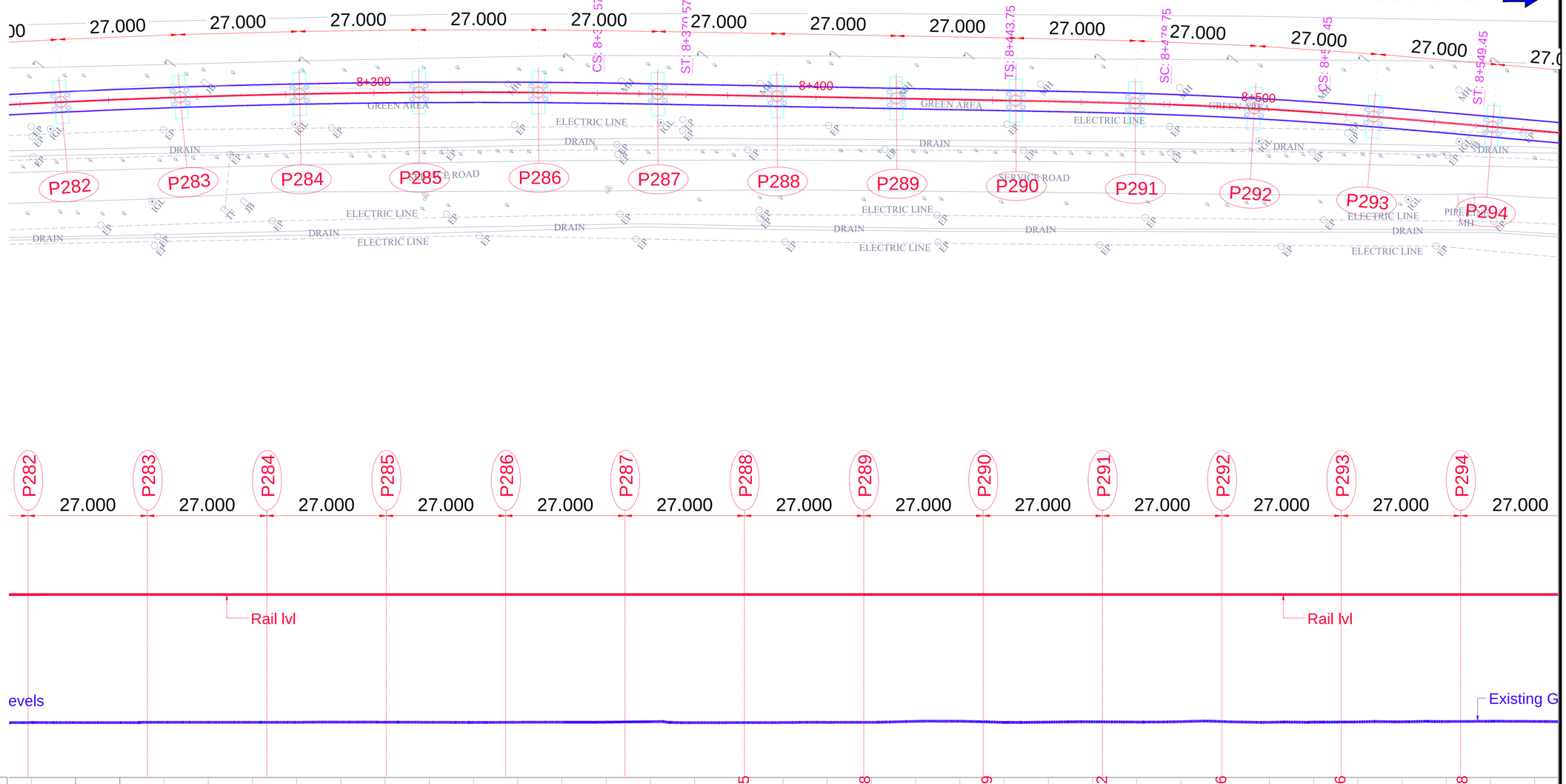

Rail lvl	217.8	217.8	217.8	217.8	217.8	217.8	217.835	217.948	218.139	218.392	218.346	218.856	219.068
Existing Ground Levels	205.735	205.786	205.779	205.815	205.792	205.925	205.709	205.792	205.761	205.898	205.928	205.871	205.966
CHAINAGE	8.2292	8.2562	8.2832	8.3102	8.3372	8.3642	8.3912	8.4182	8.4452	8.4722	8.4992	8.5262	8.5532

ELEVATION

TENTATIVE TENDER DRAWINGS

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-B-A
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NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

L E G E N D

S.NO.	DESCRIPTION	SYMBOL	S.NO.	DESCRIPTION	SYMBOL	S.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U, P, Pwr, Co, Ltd.	UPPCL
2.	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
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4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Hidrapratitha G, Ltd.	
6	POND	POND	20	Man Hole	MH	34	Well	
7	Drain		21	Lamp Post		35	Culvert	Culvert
8	Nala		22	Optical F-Cable	OFC	36	Junction Box	
9	PARK/GREEN	GREEN	23	Vodafone OFC	VFC	37	Electric Pole	
10	Building	BUILD	24	Transformer		38	Bore Hole	BH
11	Shop	SHOP	25	Airtel OFC	AFC	39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	P100
13	Temple	TEMPLE	27	Km Stone	KM	41	Gtr.N.Ind.Dvp.Athty.	
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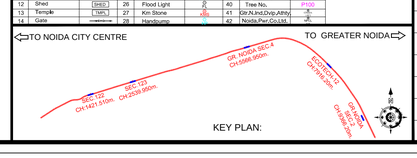

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DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

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DRAWN BY	GAURAV		26-Sep-20

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE 1:200

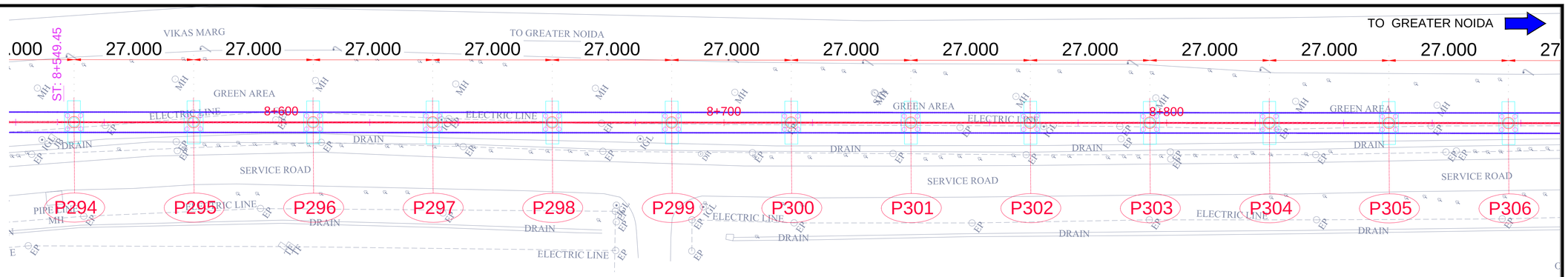
DATE SEP-20

REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA



LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
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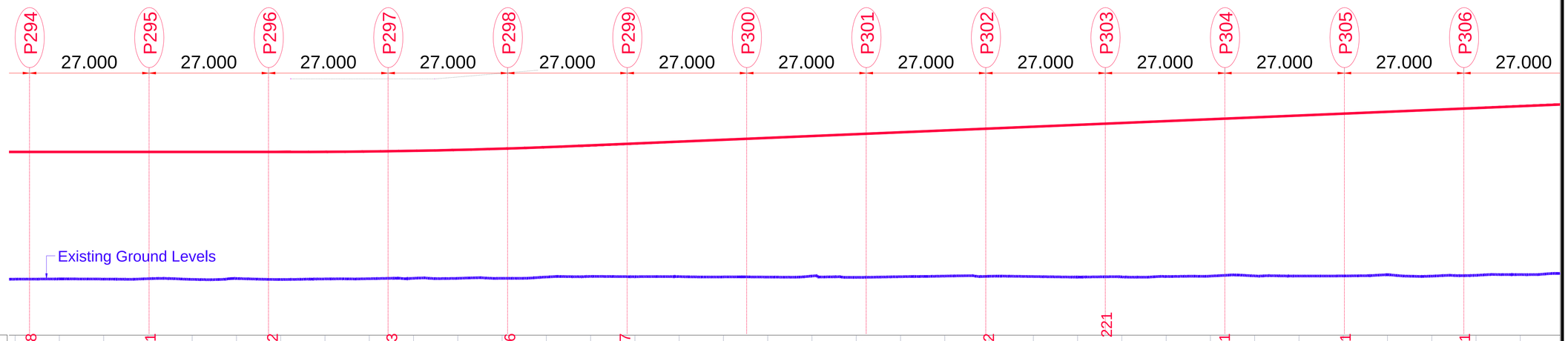
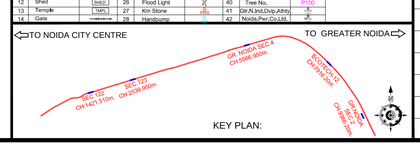


Rail lvl	219.068	219.321	219.532	219.743	219.996	220.207	220.46	220.67	220.872	220.97 221	221 221	221 221	221 221
Existing Ground Levels	205.966	206.068	205.886	206.157	206.141	206.527	206.437	206.362	206.613	206.458	206.656	206.681	206.824
CHAINAGE	8.5532	8.5802	8.6072	8.6342	8.6612	8.6882	8.7152	8.7422	8.7692	8.7962	8.8232	8.8502	8.8772

ELEVATION

L E G E N D

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U. P., Pwr, Co, Ltd,	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	CTN
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Indraprastha G, Ltd,	
6	POND	Pond	20	Man Hole	MH	34	Well	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Opticall F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building	BLD	24	Transformer		38	Bore Hole	
11	Shop	SHOP	25	Airtel OFC		39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	P100
13	Temple	TMPL	27	Km Stone		41	Gbr.N.Ind.D'vlp.Athty	
14	Gate		28	Handpump		42	Noida,Pwr,Co,Ltd,	



QUALITY ASSURANCE

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NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

CLIENT:

NOIDA METRO RAIL CORPORATION LTD,
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE 1:200

DATE SEP-20

REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

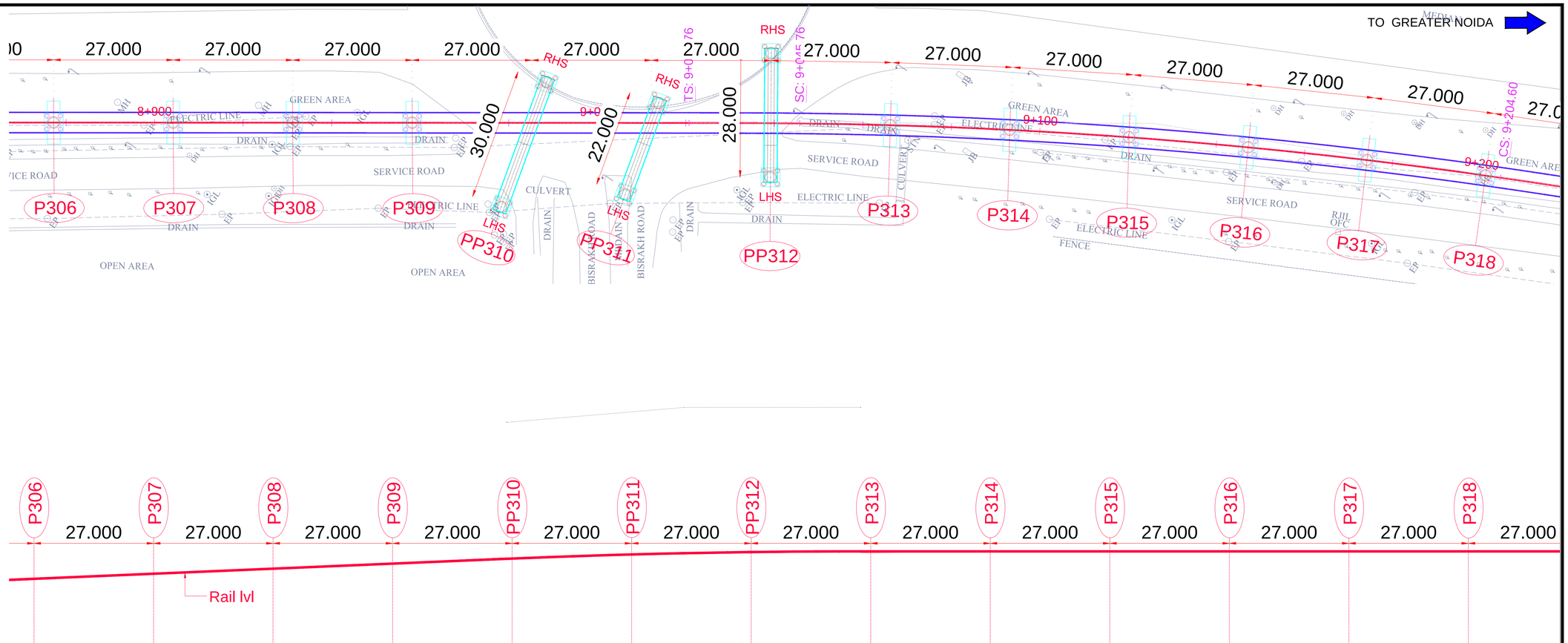
LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER



Rail lvl	221.221	221.221	221.221	221	220.922	220.737	220.503	220.309	220.076	219.881	219.687	219.453	219.258				
Existing Ground Levels	206.824	207.215	207.413	207.866	208.011	208.005	208.038	207.388	207.018	207.217	207.105	207.104	207.36				
CHAINAGE	8.8772	8.9042	8.9312	8.9582	8.9852	9.0122	9.0392	9.0662	9.0932	9.1202	9.1472	9.1742	9.2012				

ELEVATION

TENTATIVE TENDER DRAWINGS

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
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Sector-29, Noida 201301

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info@lktengineering.com

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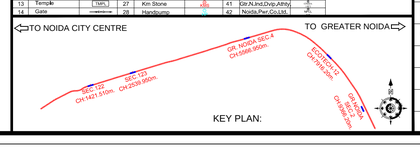
L E G E N D

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U, P, Pwr, Co, Ltd.	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	STN
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Vidnyanshila G, Ltd.	
6	POND	POND	20	Man Hole	MH	34	Wall	
7	Drain		21	Lamp Post		35	Culvert	CULV
8	Nala		22	Optical F-Cable	OFC	36	Junction Box	JB
9	PARK/GREEN		23	Vodafone OFC	VOFC	37	Electric Pole	EP
10	Building	BLDG	24	Transformer	TR	38	Bore Hole	BH
11	Shop	SHOP	25	Airtel OFC	AOFC	39	Sign Board	
12	Shed	SHED	26	Flood Light	FL	40	Tree No.	P100
13	Temple	TEMPL	27	Km Stone	KM	41	Edr.N.Ind.Dvp.Athrty	
14	Gate		28	Handpump	HP	42	Noida,Pwr.Co,Ltd.	



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DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

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CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE: 1:200

DATE: SEP-20

REV.: R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA

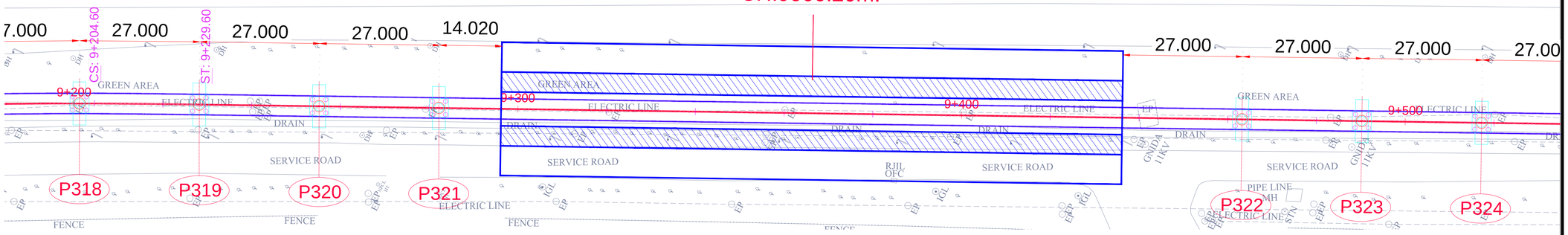
GR.NOIDA SEC.2
CH:9366.20m.

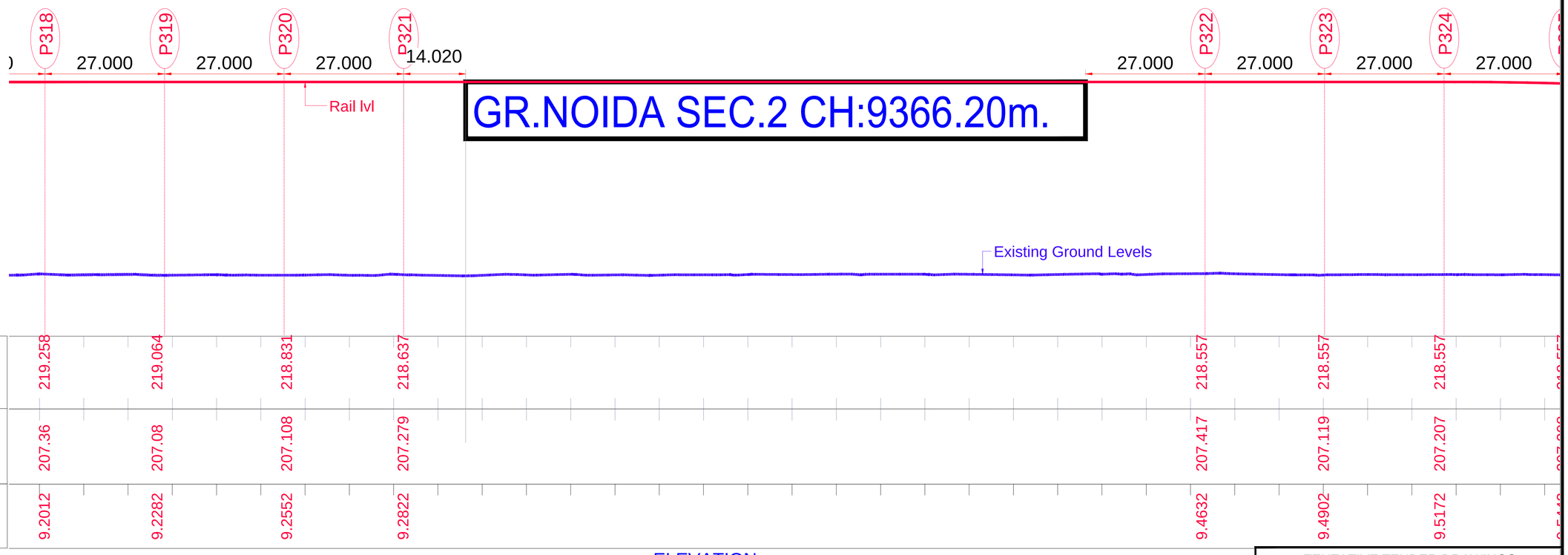
LEGEND

- TRACK CENTRE
- Ls - LENGTH OF SPIRAL
- Lc - CIRCULAR CURVE LENGTH
- VCL - VERTICAL CURVE LENGTH
- R - RADIUS
- G - GRADIENT
- L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

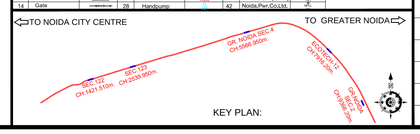




ELEVATION

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U, P, Pwr, Co, Ltd.	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	STN
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Vidrapratha G, Ltd.	
6	POND	POND	20	Man Hole	MH	34	Well	
7	Drain		21	Lamp Post		35	Culvert	CULV
8	Nala		22	Optical F-Cable	OFC	36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC	VOFC	37	Electric Pole	
10	Building	BLDG	24	Transformer		38	Bore Hole	BH
11	Shop	SHOP	25	Airtel OFC	AOFC	39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	P100
13	Temple	TEMPL	27	Km Stone	KM	41	Edn.N.Ind.Dvp.Athrty	
14	Gate		28	Handpump	HP	42	Noida,Pwr.Co.Ltd.	

TO NOIDA CITY CENTRE — TO GREATER NOIDA



KEY PLAN:

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-9-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

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NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE: 1:200

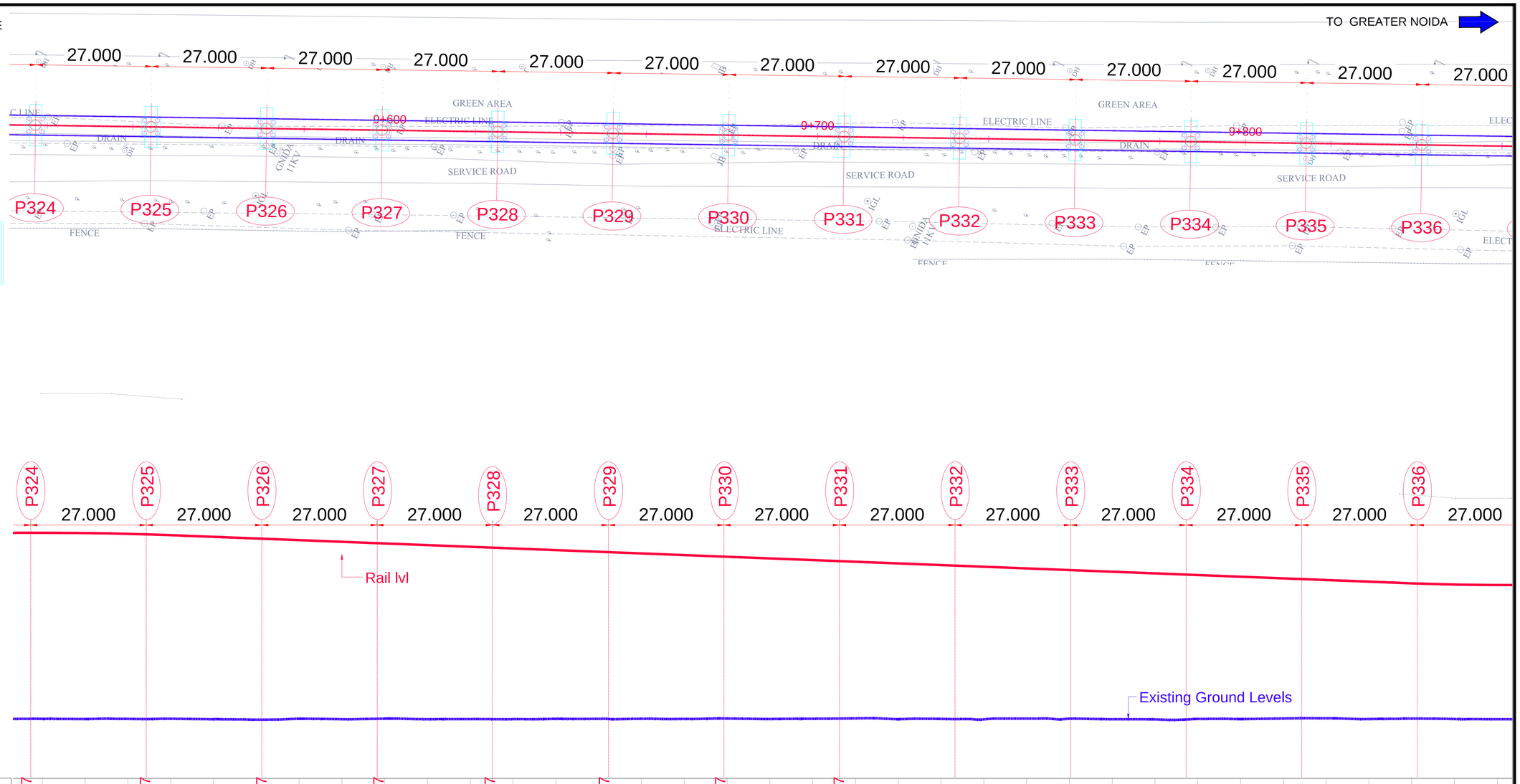
DATE: SEP-20

REV.: R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA



LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
VCL - VERTICAL CURVE LENGTH
R - RADIUS
G - GRADIENT
L - LENGTH

LEGEND:-

1. P = STANDARD PIER
2. PP = PORTAL PIER
3. CP = CNTILEVER PIER

Rail lvl	218.557	218.557	218.557	218.557	218.557	218.557	218.557	218.557	218.557	218.557	218.557	218.557	218.557	218.557	218.557
Existing Ground Levels	207.207	207.208	207.021	207.274	207.145	207.219	207.299	207.336	207.205	207.267	207.191	207.354	207.283		
CHAINAGE	9.5172	9.5442	9.5712	9.5982	9.6252	9.6522	9.6792	9.7062	9.7332	9.7602	9.7872	9.8142	9.8412		

ELEVATION

TENTATIVE TENDER DRAWINGS

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

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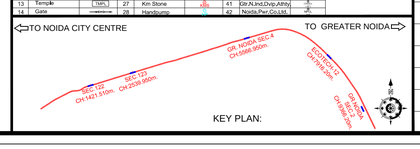
FLAT NO. 75/288 SFS G-9-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

L E G E N D

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U, P, Pwr, Co, Ltd.	
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Hotsprashia G, Ltd.	
6	POND	POND	20	Man Hole	MH	34	Wall	
7	Drain		21	Lamp Post		35	Culvert	
8	Nala		22	Optical F-Cable		36	Junction Box	
9	PARK/GREEN		23	Vodafone OFC		37	Electric Pole	
10	Building	BLDG	24	Transformer		38	Bore Hole	
11	Shop	SHOP	25	Airtel OFC		39	Sign Board	
12	Shed	SHED	26	Flood Light		40	Tree No.	P100
13	Temple	TEMPL	27	Km Stone		41	Gbr.N.Ind.Dvp.Athrty	
14	Gate		28	Handpump		42	Noida,Pwr.Co,Ltd.	



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DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

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PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
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DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

GENERAL ARRANGEMENT DRAWING

SCALE 1:200

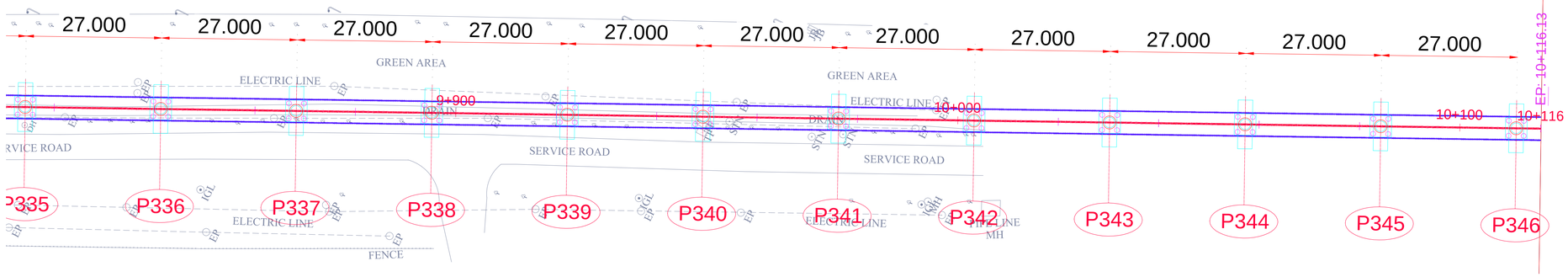
DATE SEP-20

REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001

TO NOIDA CITY CENTRE

TO GREATER NOIDA



LEGEND

- TRACK CENTRE

Ls - LENGTH OF SPIRAL
Lc - CIRCULAR CURVE LENGTH
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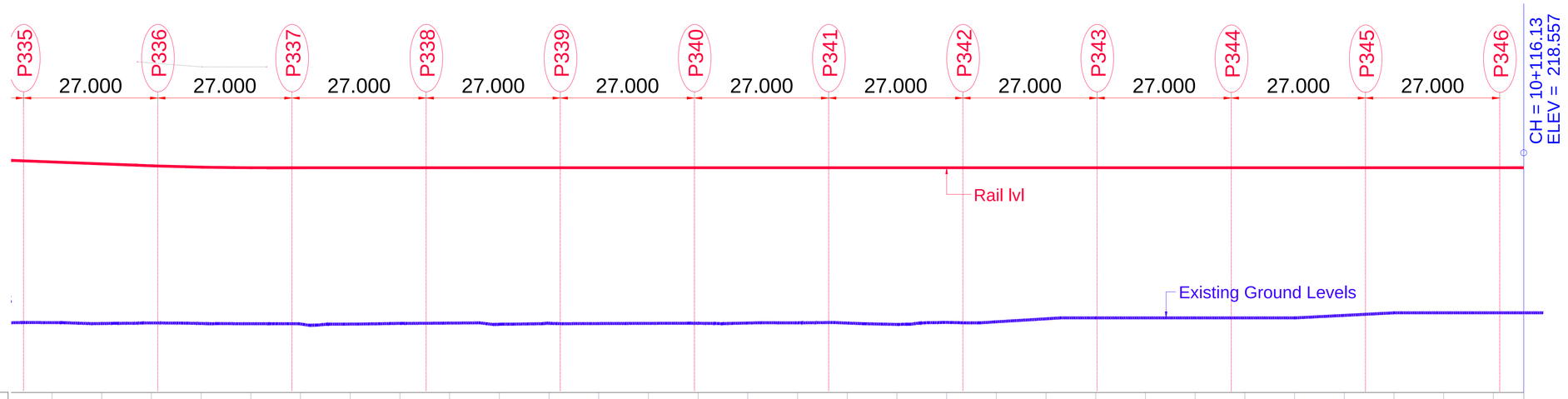

Rail lvl											
Existing Ground Levels	207.354	207.283	207.077	207.257	207.213	207.209	207.262	207.389	207.55	207.61	207.66	207.71
CHAINAGE	9.8142	9.8412	9.8682	9.8952	9.9222	9.9492	9.9762	10.0032	10.0302	10.0572	10.0842	10.1161

ELEVATION

TENTATIVE TENDER DRAWINGS

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

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i n f o @ l k t e n g i n e e r i n g . c o m

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L E G E N D

SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL	SL.NO.	DESCRIPTION	SYMBOL
1.	Road	ROAD	15	Bridge		29	U, P, Pwr, Co, Ltd.	UPPCL
2	Boundary Wall		16	Bus Stop	BStop	30	Signal Post	
3	Footpath		17	Fly Over		31	Control Point	CTN
4	Fence		18	Water Pipeline		32	Tree	
5	Electric Line		19	Drain Hole	DH	33	Vidyasrastha G, Ltd.	
6	POND	POND	20	Man Hole	MH	34	Wall	
7	Drain		21	Lamp Post		35	Culvert	CULVERT
8	Nala		22	Optical F-Cable	OFC	36	Junction Box	JB
9	PARK/GREEN		23	Vodafone OFC	VOFC	37	Electric Pole	
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12	Shed	SHED	26	Flood Light	FL	40	Tree No.	P100
13	Temple	TEMPLE	27	Km Stone	KM	41	Edc.N.Ind.Dvp.Athy.	
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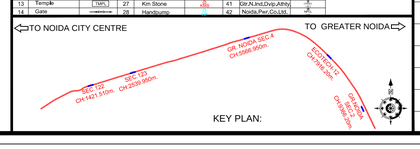

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DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

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DRAWN BY	GAURAV		26-Sep-20

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

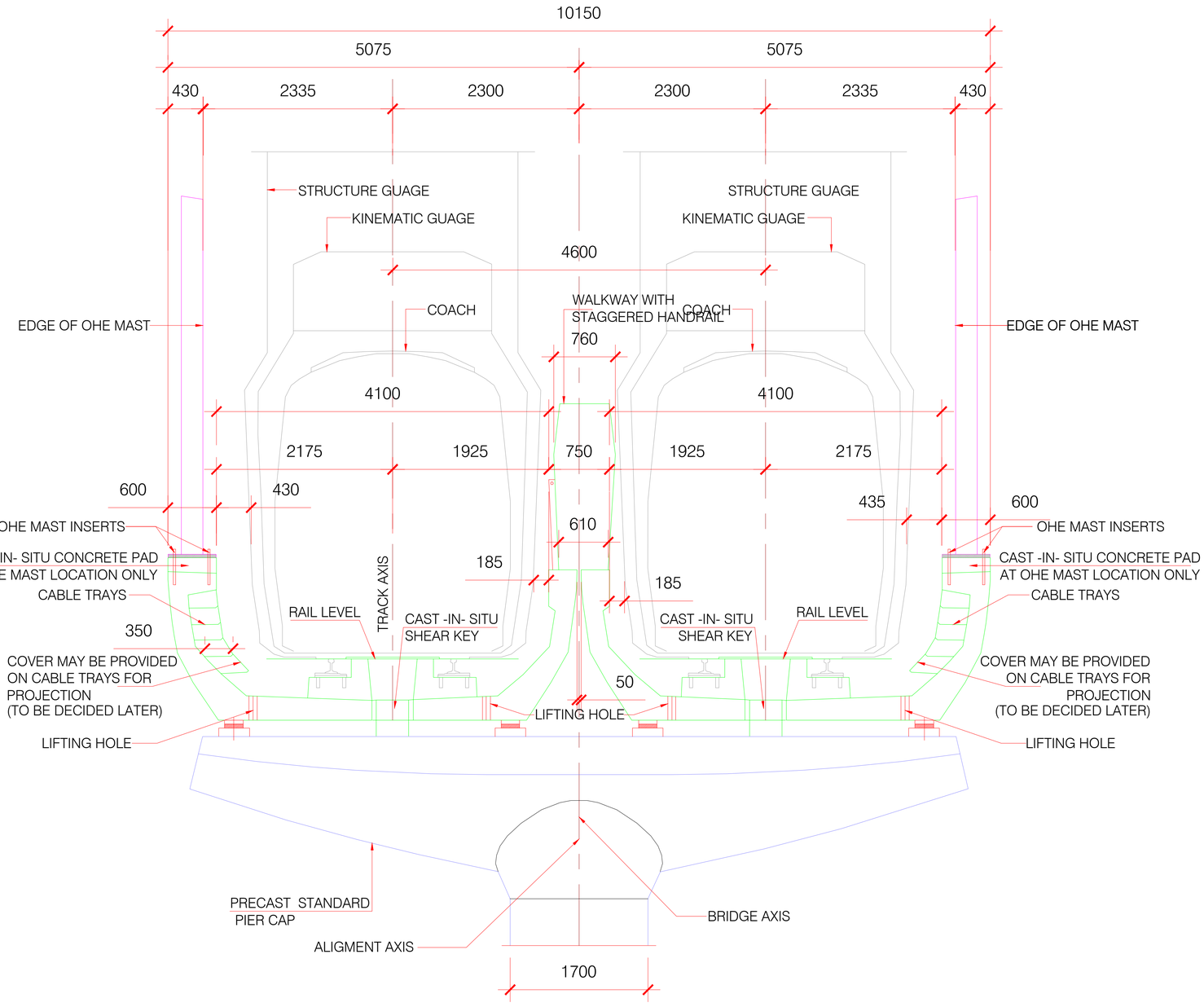
GENERAL ARRANGEMENT DRAWING

SCALE: 1:200

DATE: SEP-20

REV.: R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-GAD-2001



SECTION AT PIER

SCALE :1/30

CLIENT:

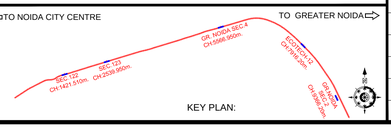
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-9 A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED
DESIGN CONSULTANT (DDC)
FOR CIVIL,ARCHITECTURAL AND
E&M WORKS OF NOIDA-
GREATER NOIDA METRO
CORRIDOR FROM SECTOR-51
NOIDA TO GREATER NOIDA
SECTOR-2,CONSISTING OF
9.605 KM VIADUCT INCLUDING
5 ELEVATED STATIONS



KEY PLAN:

QUALITY ASSURANCE

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NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD.
AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

STANDARD STRAIGHT SPAN
(Typical cross section)

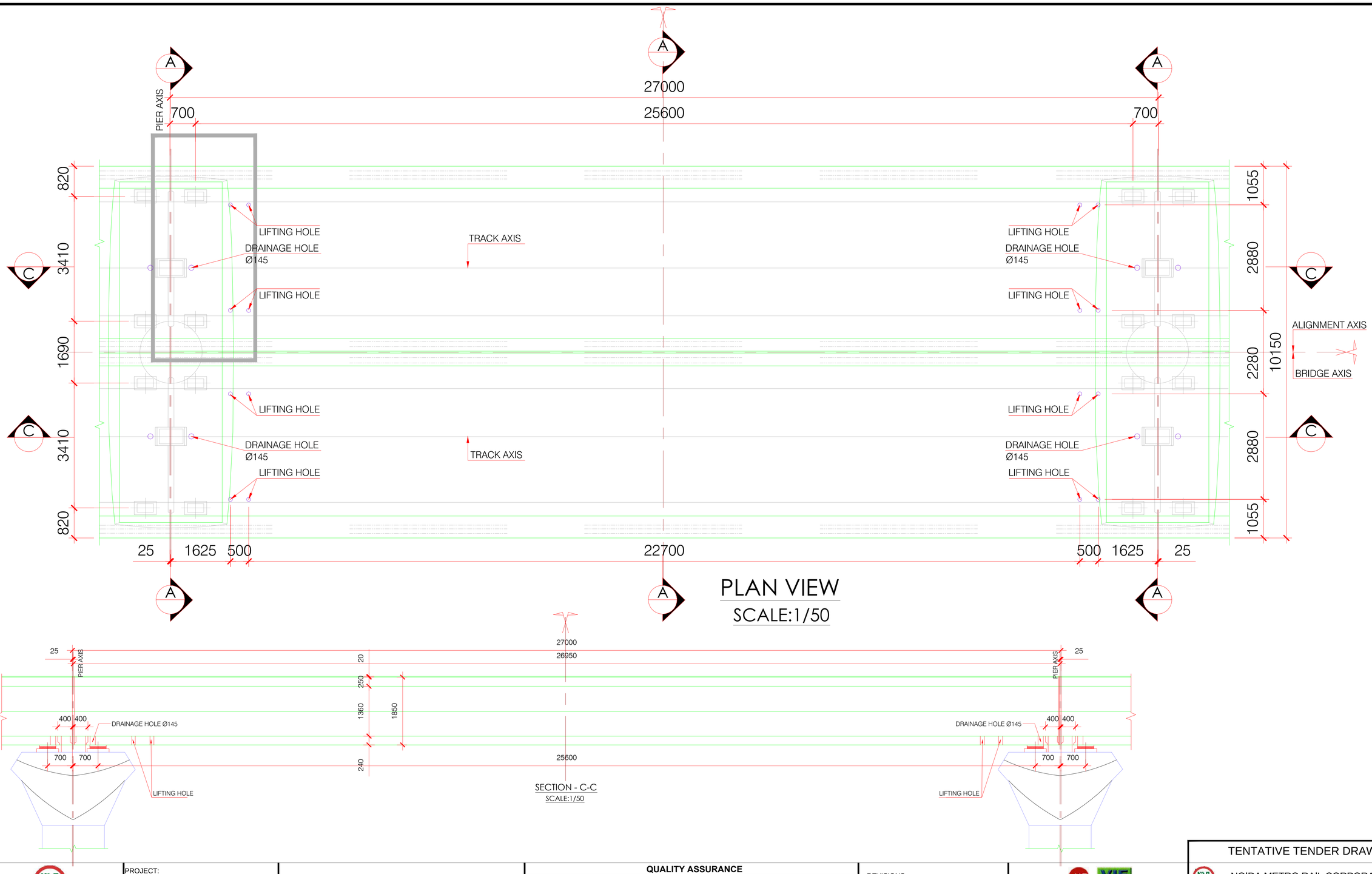
SCALE 1:200

DATE SEP-20

REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-3001

1 OF 1



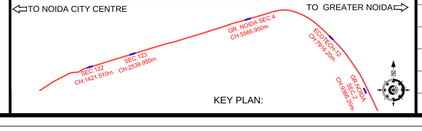
PLAN VIEW
SCALE:1/50

SECTION - C-C
SCALE:1/50

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS



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GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

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APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

TENTATIVE TENDER DRAWINGS

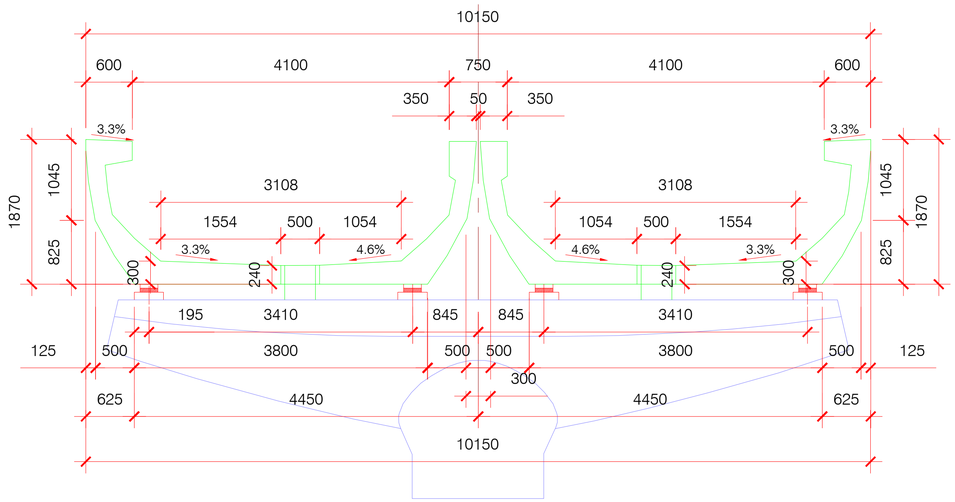
NOIDA METRO RAIL CORPORATION LTD.

TITLE:
STANDARD STRAIGHT SPAN
(plan view & elevation)

TYPICAL SPAN PLAN AND ELEVATION OF SUPER STR

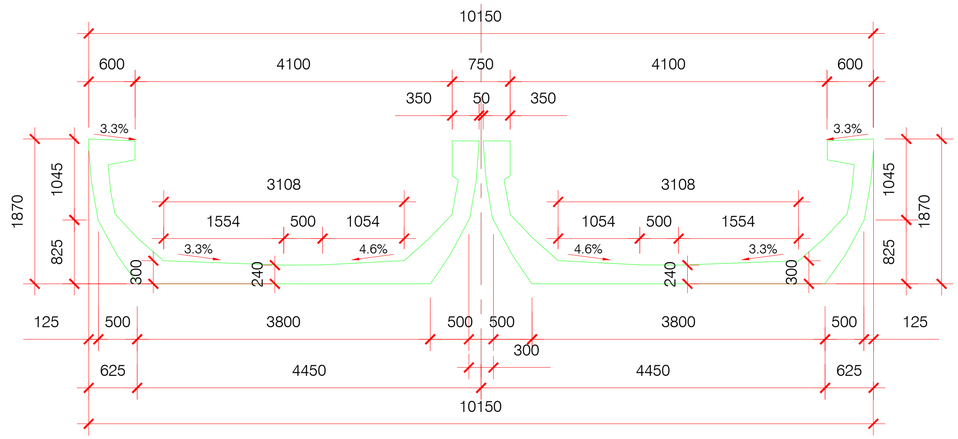
SCALE: 1:200
DATE: SEP-20
REV.: R1

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-3002 1



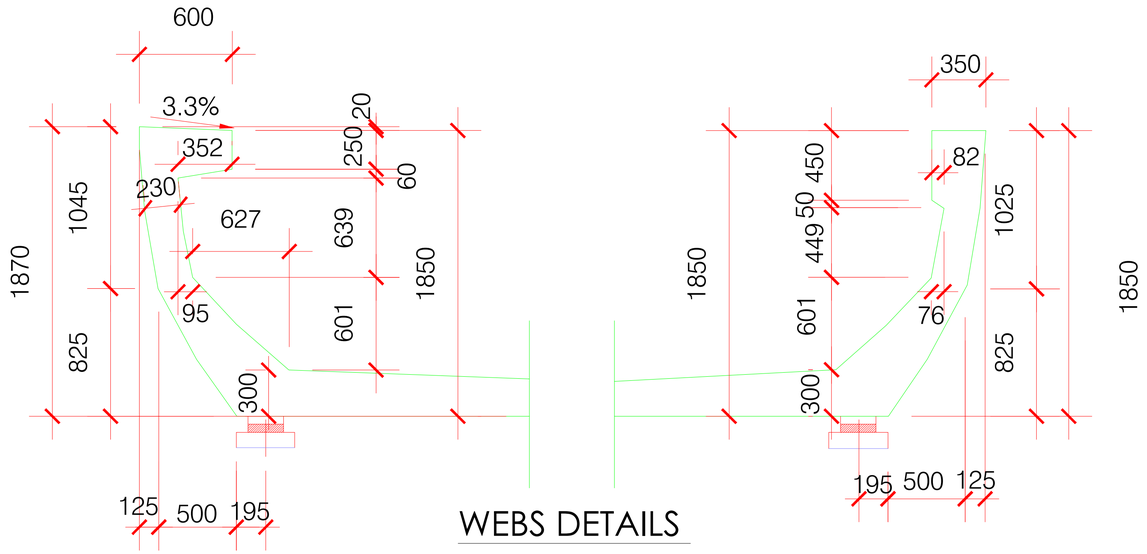
SECTION-A-A AT PIER LOCATION

SCALE :1/50



SECTION-B-B AT MID SPAN

SCALE:1/50



WEBS DETAILS

SCALE:1/25

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

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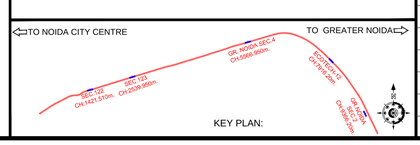
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS



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CIVIL		MEP		S & T	

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CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

STANDARD STRAIGHT SPAN
(concrete out line)

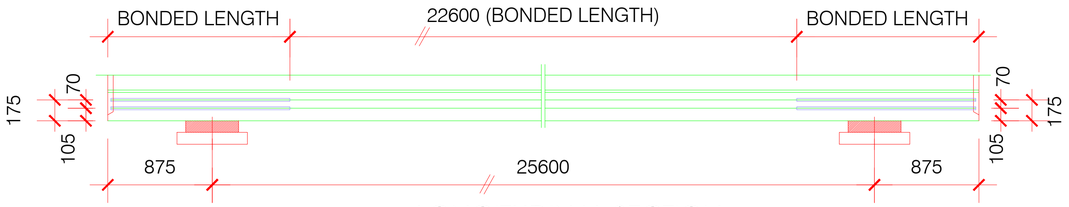
TYPICAL PIER CAP CROSS SECTION AND U GIRDER

SCALE 1:200

DATE SEP-20

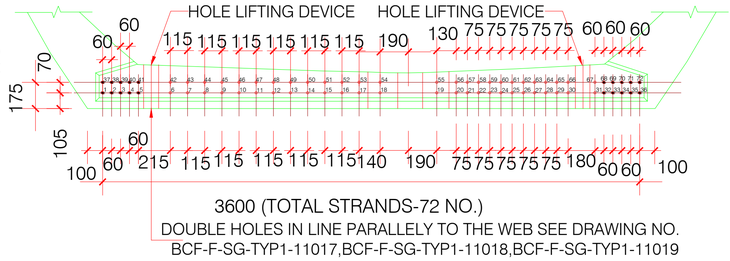
REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-3003 1



LONGITUDINAL SECTION

SCALE:1/25

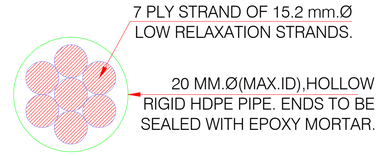


3600 (TOTAL STRANDS-72 NO.)

DOUBLE HOLES IN LINE PARALLELY TO THE WEB SEE DRAWING NO. BCF-F-SG-TYP1-11017,BCF-F-SG-TYP1-11018,BCF-F-SG-TYP1-11019

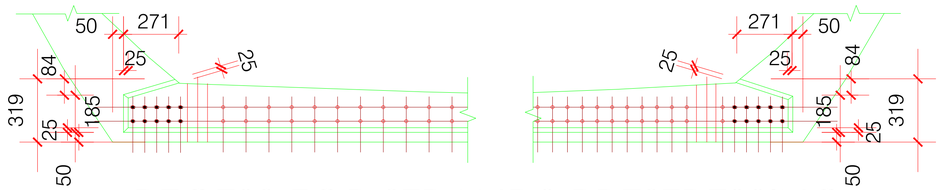
FRONT ELEVATION

SCALE:1/20



SECTION - X-X

SCALE:1/15

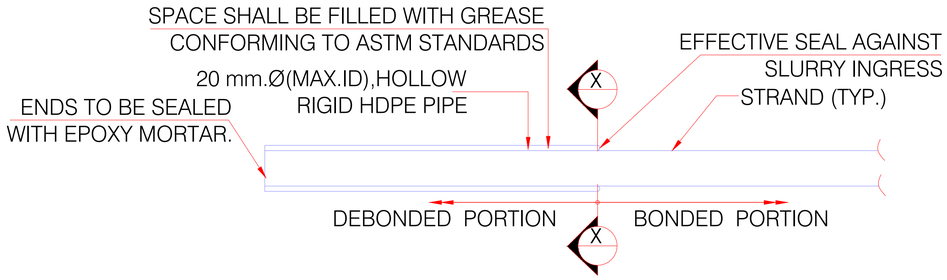


RECESS FOR STRANDS PRESTRESSING

SCALE:1/15

LEGEND

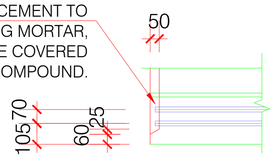
- ● NON-DEBONDED STRANDS
- ○ DEBONDED STRANDS AT END



TYPICAL DETAIL OF DEBONDED STRAND

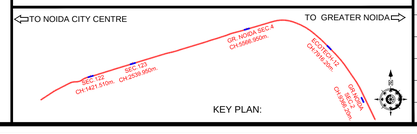
SCALE:1/15

CASTING OF PT RECESS USING MORTAR BD PATCH. MORTAR SHALL BE MADE OF PORTLAND CEMENT+SAND(CEMENT TO SAND RATIO:1:2)PRIOR TO PLACING MORTAR, INNER FACES OF RECESS SHALL BE COVERED WITH EPOXY BONDING COMPOUND.



BONDING / DEBONDED SCHEDULE FOR SECTION

STRAND NOS.	TOTAL NO. OF STRANDS	BONDED length(mm.)	L= OVERALL LENGTH OF SECTION=26950mm.
1,2,3,4,5,32,33,34,35,36 37,38,39,40,41,68,69,70,71,72	20	FULL LENGTH BONDED	
6,7,8,9,10,11,12,13,14,15,16,17,18,19,20, 21,22,23,24,25,26,27,28,29,30,31,42,43, 44,45,46,47,48,49,50,51,52,53,54,55, 56,57,58,59,60,61,62,63,64,65,66,67	52	22600	FACE OF THE SECTION — 11300 — ℄ OF SPAN — 11300 — FACE OF THE SECTION (DEBONDED, DEBONDED)



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CIVIL		MEP		S & T	

REVISIONS

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CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

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APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01 ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

STANDARD STRAIGHT SPAN (prestressing layout)

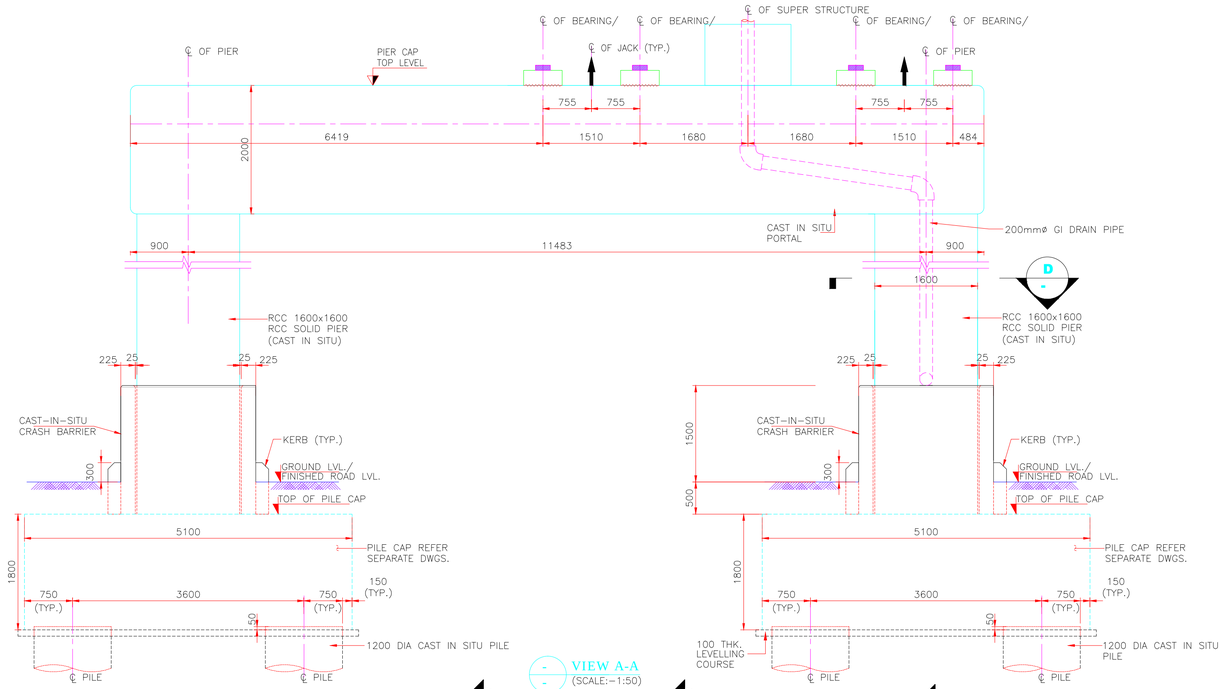
SCALE: 1:200

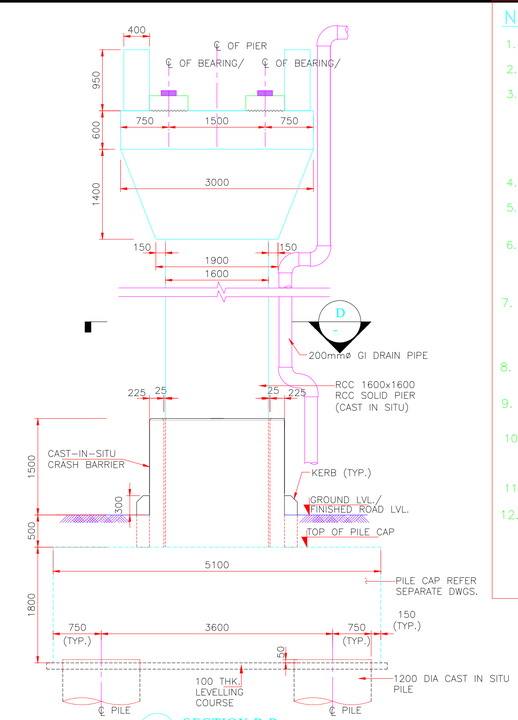
DATE: SEP-20

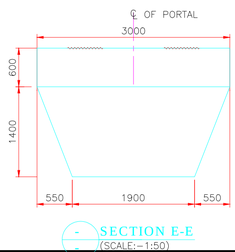
REV.: R1

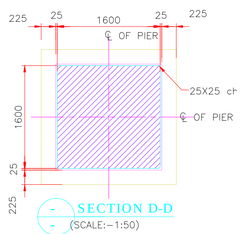
DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-3004

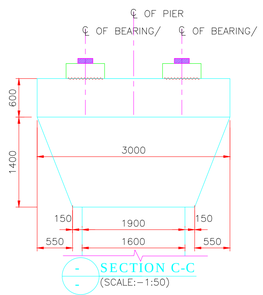
1 OF 1











NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES, UNLESS NOTED OTHERWISE.
2. DIMENSIONS ARE NOT TO BE SCALED . ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. GRADE OF CONCRETE IN VARIOUS COMPONENTS SHALL BE AS UNDER :
   a) PILE AND PILE CAP — M40
   b) PIER AND PIER CAP — M50
   c) PEDESTAL — M50
   d) SEISMIC RESTRAINER — M50
   e) PCC — M15
4. REINFORCING STEEL SHALL BE HYSD BARS (GRADE DESIGNATION FE:500D) CONFORMING TO IS:1786.
5. MINIMUM LAP LENGTH SHALL BE AS PER CLAUSE 15.9.6.6 OF IRS-CBC. THE DEVELOPMENT LENGTH SHALL NOT BE LESS THAN 41 TIMES THE DIA AND FOR BUNDLED BARS IT SHALL BE 56 TIMES DIA OF BAR.UNLESS OTHERWISE SPECIFIED.
6. CLEAR COVER SHALL BE AS UNDER:
   a) PILE AND PILE CAP — 75mm
   b) PIER AND PIER CAP — 50mm
   C) PEDESTAL / SEISMIC RESTRAINER — 45mm
7. LAP LENGTH FOR BUNDLED BARS SHALL BE PROVIDED AS 56 DIA OF BARS AND NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT SAME LOCATION, SHALL BE STAGGERED & CENTER TO CENTER DISTANCE OF THE LAPS SHALL NOT BE LESS THAN 1.3 TIMES LAP LENGTH.
8. DRILLING OF BOREHOLE SHALL BE STABILIZED BY USING POLYMER SLURRY OF PROPER CONSISTENCY.
9. CONCRETING FOR PILE SHALL BE CARRIED OUT IN A SINGLE CONTINUOUS OPERATION. NO CONSTRUCTION JOINTS SHALL BE PERMITTED IN A PILE.
10. TO IMPROVE WORKABILITY OF CONCRETE & CEMENT GROUT, ADMIXTURES CONFIRMING TO TO IS 9103 & TESTED IN ACCORDANCE WITH IS 6925 COULD BE PERMITTED SUBJECT TO SATISFACTORY PURPOSE. ADMIXTURES GENERATING HYDROGEN, NITROGEN, CHLORIDES ETC. SHALL NOT BE USED.
11. NO ADMIXTURE SHALL BE USED WITHOUT THE APPROVAL OF ENGINEER.
12. THE BOTTOM OF THE HOLE SHALL BE THOROUGHLY CLEANED BY EMPLOYING SUITABLE MEANS AND LEVELS TAKEN INCLUDING AT THE BOREHOLE BOTTOM TO CONFIRM CORRECTNESS OF THE SHAFT LENGTH.

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
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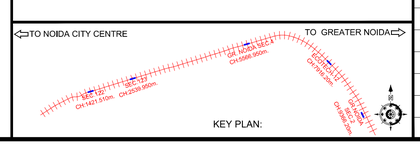

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CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS	Vibhas	26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

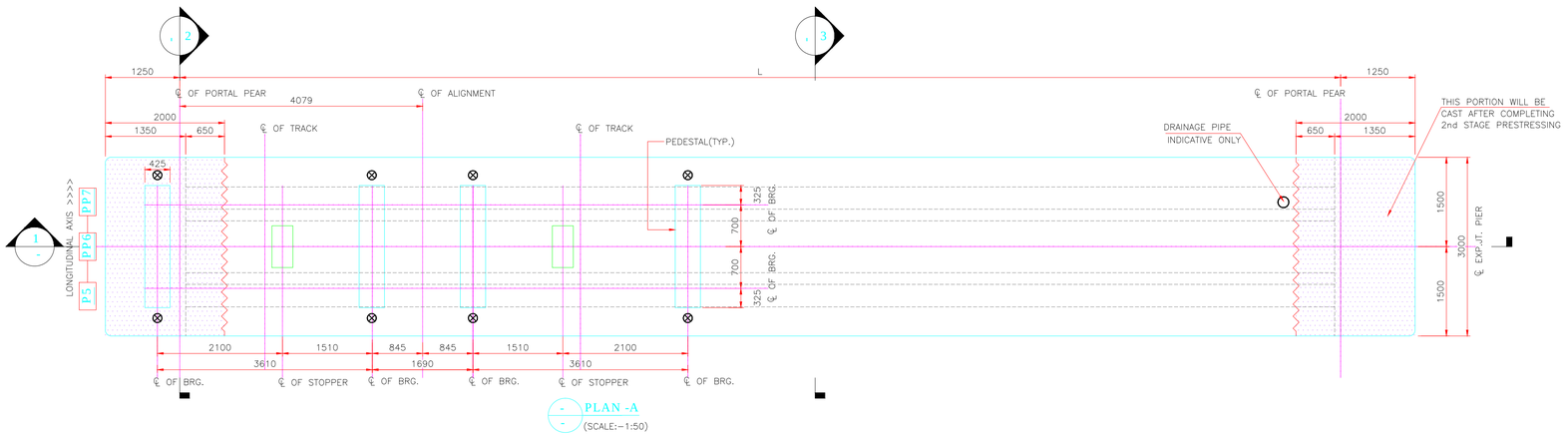
TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

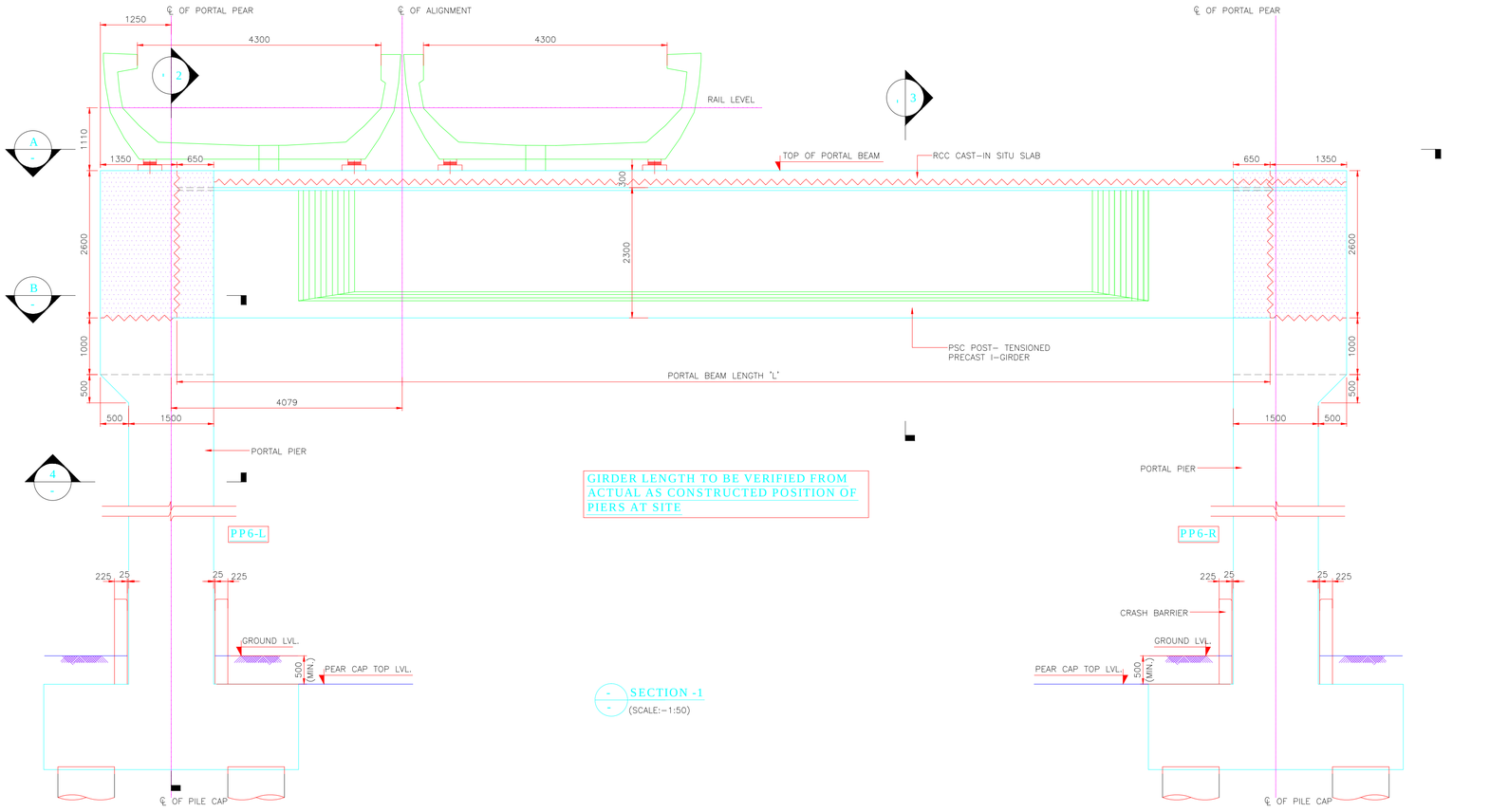
TITLE:
DIMENSION DETAIL OF CAST IN SITU PIER AND PORTAL BEAM

SCALE: 1:200
DATE: SEP-20
REV.: R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-3005 1 OF 1

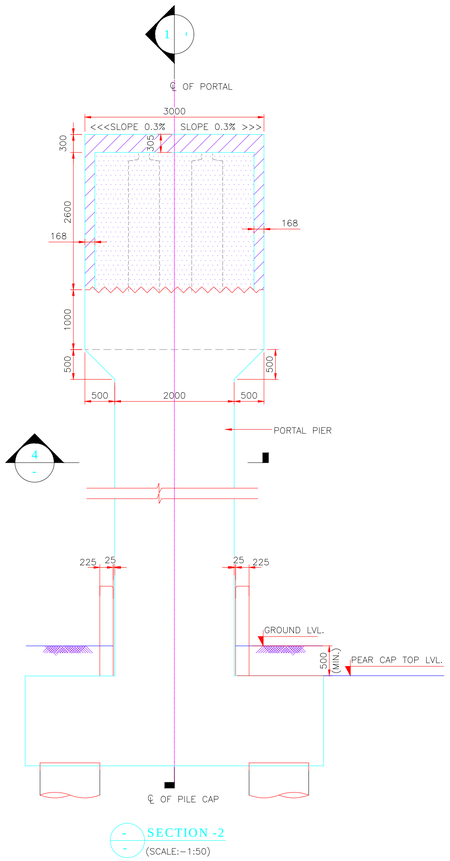


PLAN -A
(SCALE:-1:50)

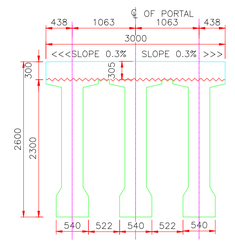


GIRDER LENGTH TO BE VERIFIED FROM ACTUAL AS CONSTRUCTED POSITION OF PIERS AT SITE

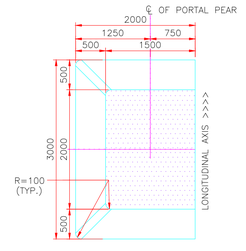
SECTION -1
(SCALE:-1:50)



SECTION -2
(SCALE:-1:50)



SECTION -3
(SCALE:-1:50)



SECTION -4
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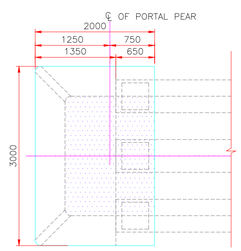


PLAN B
(SCALE:-1:50)

CLIENT:

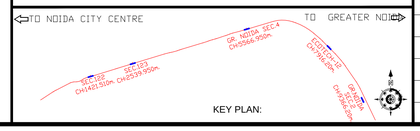
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-9-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS



QUALITY ASSURANCE

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NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

PORTAL PEAR DIMENSION DETAIL

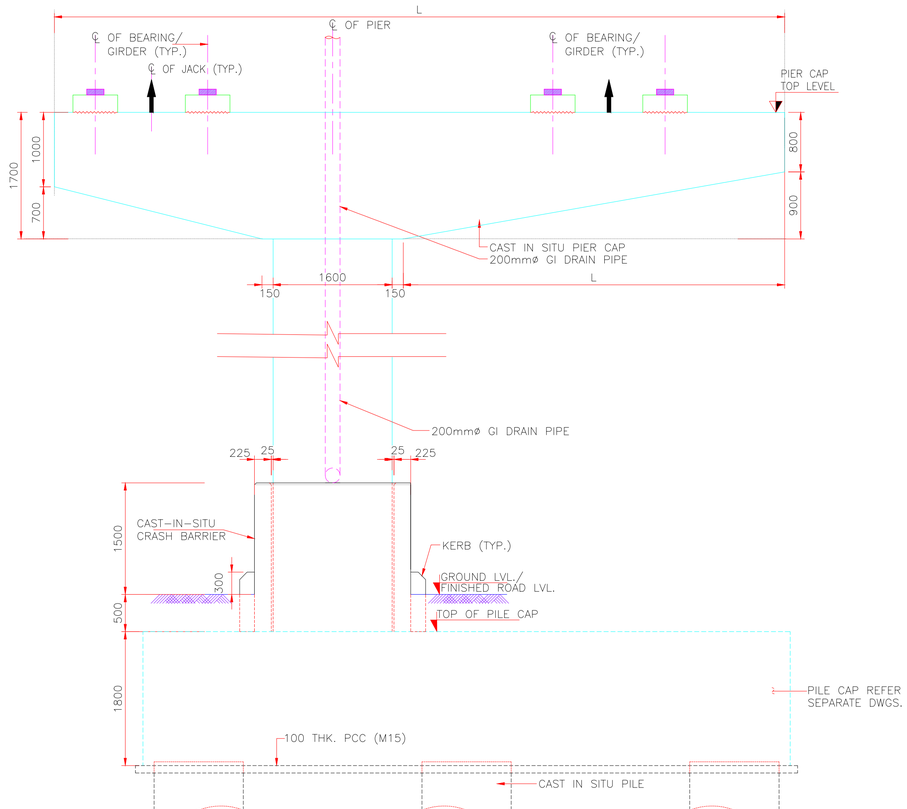
SCALE: 1:200

DATE: SEP-20

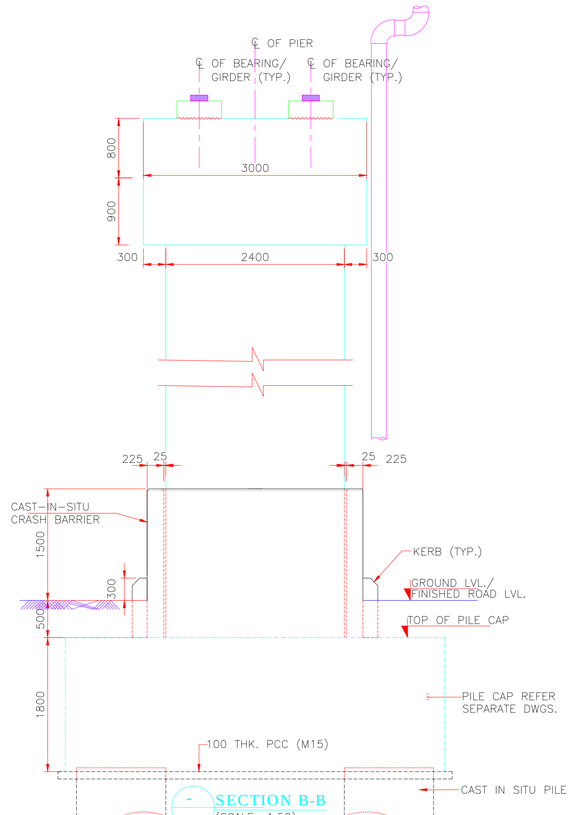
REV.: R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-3006

1 OF 1



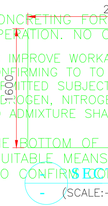
SECTION A-A
(SCALE:–1:50)



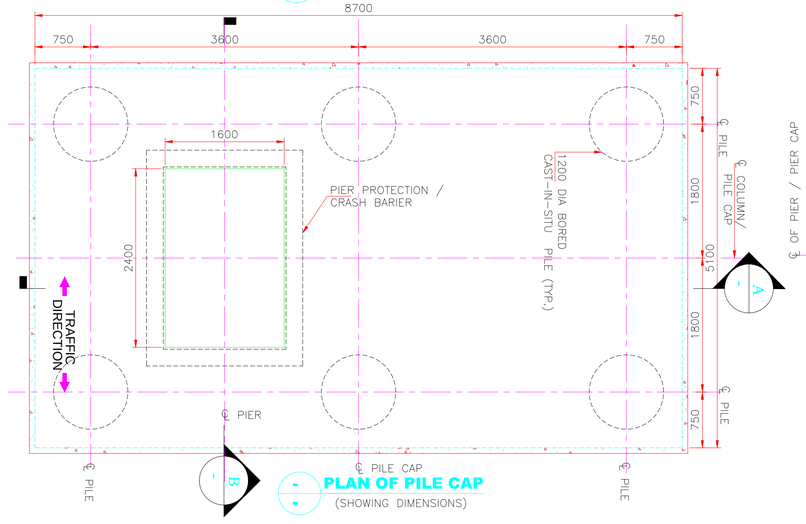
SECTION B-B
(SCALE:–1:50)

NOTES:

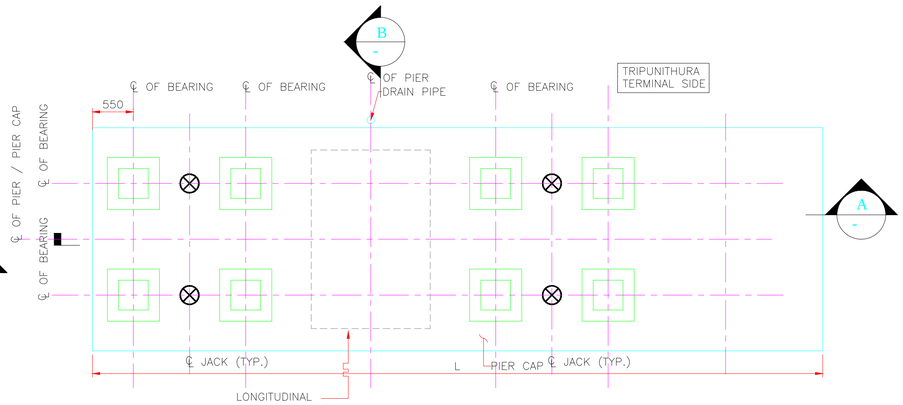
1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES, UNLESS NOTED OTHERWISE.
2. DIMENSIONS ARE NOT TO BE SCALED . ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. GRADE OF CONCRETE IN VARIOUS COMPONENTS SHALL BE AS UNDER :
   a) PILE AND PILE CAP ——— M40
   b) PIER AND PIER CAP ——— M50
   c) PEDESTAL ——— M50
   d) SEISMIC RESTRAINER ——— M50
   e) PCC ——— M15
4. REINFORCING STEEL SHALL BE HYSD BARS (GRADE DESIGNATION FE:500D) CONFORMING TO IS:1786.
5. MINIMUM LAP LENGTH SHALL BE AS PER CLAUSE 15.9.6.6 OF IRS–CBC. THE DEVELOPMENT LENGTH SHALL NOT BE LESS THAN 41 TIMES THE DIA AND FOR BUNDLED BARS IT SHALL BE 56 TIMES DIA OF BAR.UNLESS OTHERWISE SPECIFIED.
6. CLEAR COVER SHALL BE AS UNDER:
   a) PILE AND PILE CAP ——— 75mm
   b) PIER AND PIER CAP ——— 50mm
   C) PEDESTAL / SEISMIC RESTRAINER ——— 45mm
7. LAP LENGTH FOR BUNDLED BARS SHALL BE PROVIDED AS 56 DIA OF BARS AND NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT SAME LOCATION, SHALL BE STAGGERED & CENTER TO CENTER DISTANCE OF THE LAPS SHALL NOT BE LESS THAN 1.3 TIMES LAP LENGTH.
8. DRILLING OF BOREHOLE SHALL BE STABILIZED BY USING POLYMER SLURRY OF PROPER CONSISTENCY.
9. CONCRETING FOR PILE SHALL BE CARRIED OUT IN A SINGLE CONTINUOUS OPERATION. NO CONSTRUCTION JOINTS SHALL BE PERMITTED IN A PILE.
10. TO IMPROVE WORKABILITY OF CONCRETE & CEMENT GROUT, ADMIXTURES CONFORMING TO TO IS 9103 & TESTED IN ACCORDANCE WITH IS 6925 COULD BE PERMITTED SUBJECT TO SATISFACTORY PURPOSE. ADMIXTURES GENERATING HYDROGEN, NITROGEN, CHLORIDES ETC. SHALL NOT BE USED.
11. NO ADMIXTURE SHALL BE USED WITHOUT THE APPROVAL OF ENGINEER.
12. THE BOTTOM OF THE HOLE SHALL BE THOROUGHLY CLEANED BY EMPLOYING SUITABLE MEANS AND LEVELS TAKEN INCLUDING AT THE BOREHOLE BOTTOM TO CONFIRM TO FOUNDATION DESIGN THE SHAFT LENGTH.



SECTION OF PIER
(SCALE:–1:50)



PLAN OF PILE CAP
(SHOWING DIMENSIONS)



PLAN SHOWING DIMENSION DETAIL OF PIER CAP
(SCALE:–1:50)

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
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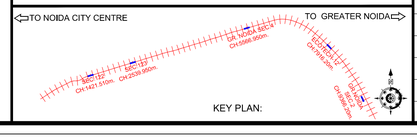
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS



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DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

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DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

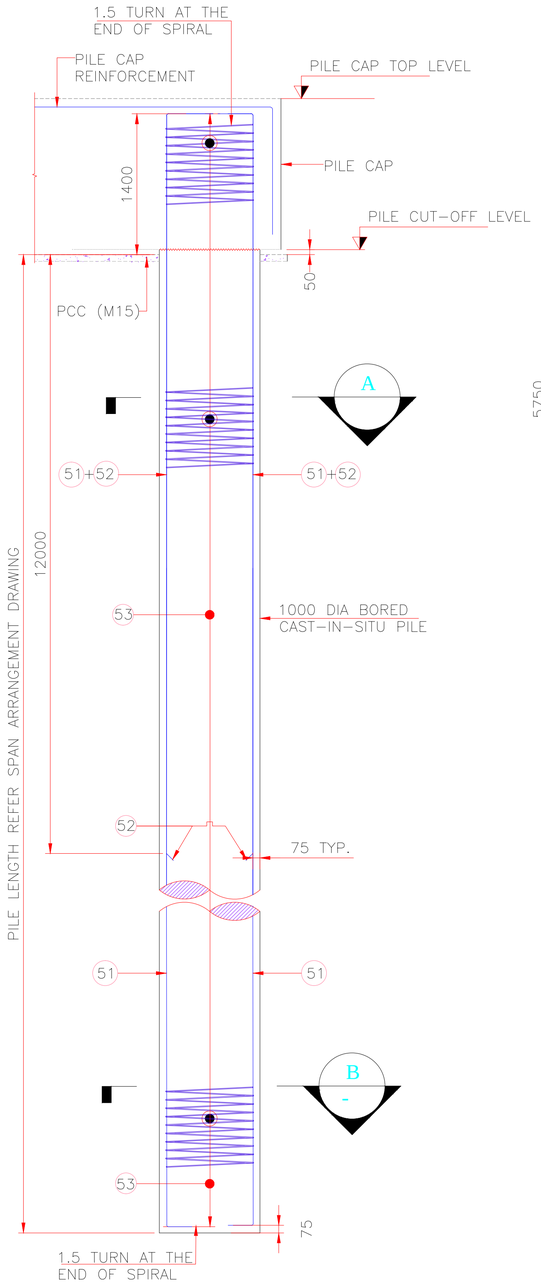
TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

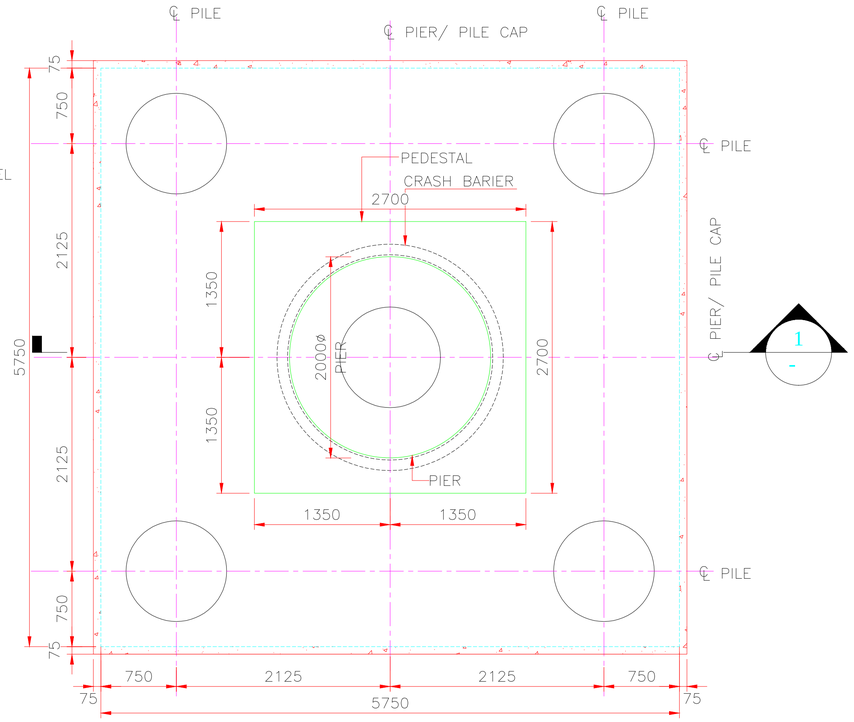
TITLE:
DIMENSION DETAILS OF PIER AND CAST IN SITU CANTILEVER PIER CAP

SCALE: 1:200
DATE: SEP-20
REV.: R1

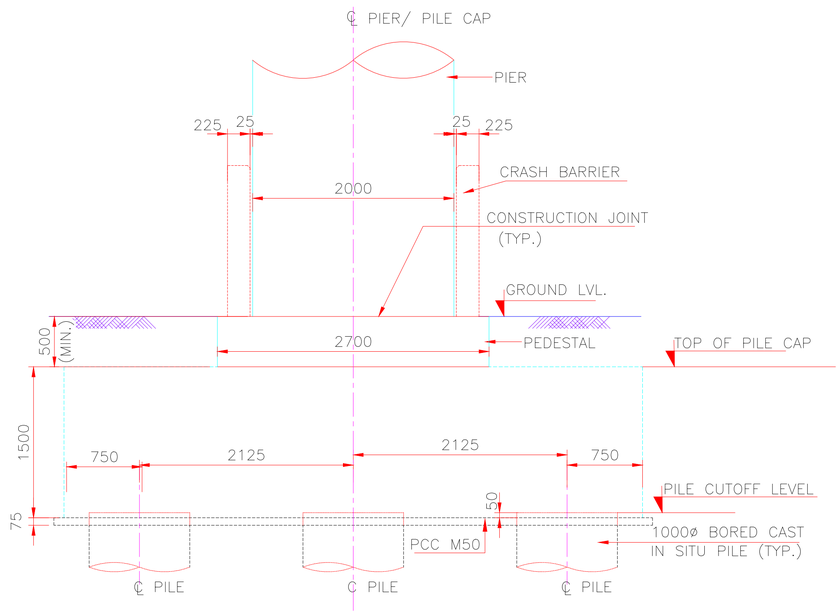
DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-3007 1 OF 1



- REINFORCEMENT DETAIL OF PILE
(SCALE:-1:30)



- PLAN SHOWING PILE LAYOUT
(SHOWING DIMENSIONS)



- SECTION 1-1
(SCALE:-1:30)

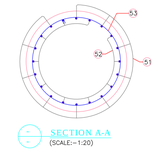
REINFORCEMENT SCHEDULE FOR PILE

BAR MKD.	DIA (mm)	SPACING/NOS. (mm)	SHAPE
51	20	10 NOS.	270
52	20	10 NOS.	270
53	16	240 C/C	

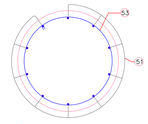
LEGEND

20 ø 10 — NO OF BAR / TMT BAR / DIA FO BAR

10 ø @ 240C/C — SPACING IN MM / TMT BAR / DIA FO BAR



- SECTION A-A
(SCALE:-1:20)



- SECTION B-B
(SCALE:-1:20)

CLIENT:
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Block-III, 3rd Floor,
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Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-B-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
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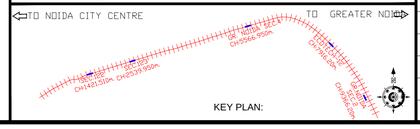

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DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

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PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

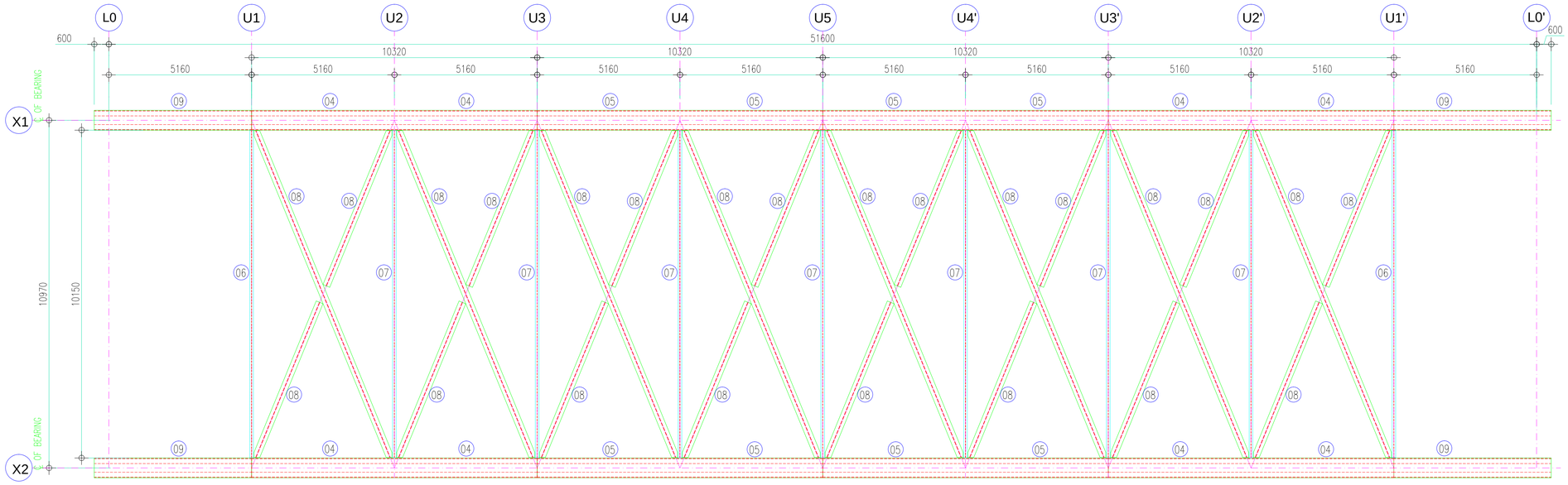
TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
PILE AND PILE CAP GENERAL ARRANGEMENT AND PILE REINFORCEMENT DETAILS

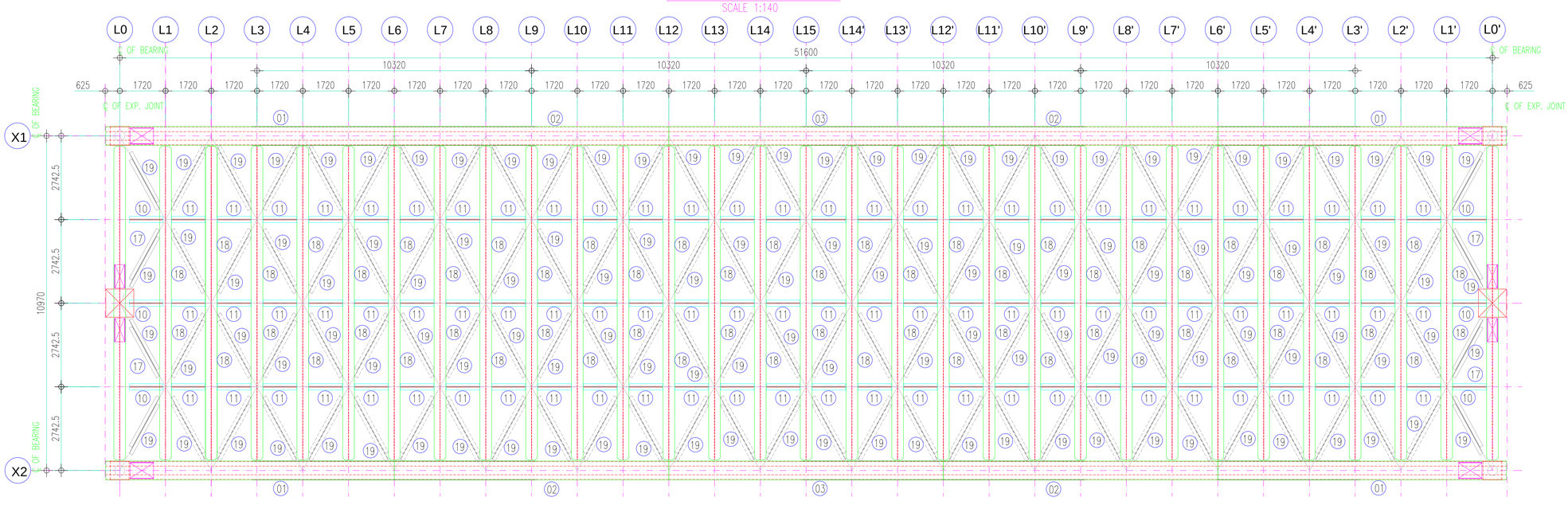
SCALE: 1:200
DATE: SEP-20
REV.: R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-3008
1 OF 1



PLAN AT TOP OF TRUSS

SCALE 1:140



PLAN AT BOTTOM OF TRUSS

SCALE 1:140

NOTES:–

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. FOLLOWING GRADE OF CONCRETE SHALL BE USED FOR DIFFERENT COMPONENTS OF BRIDGE :-
   a) DECK SLAB M50
4. THE STRUCTURAL STEEL FOR MAIN GIRDERS AND CROSS GIRDERS SHALL BE WITH GRADE E250 (FE410W) GRADE -BO CONFORMING TO IS:2062.
5. ROUND HEADED STUDS SHALL BE HIGH TENSILE STEEL OF GRADE E350 AS PER IS: 8500.
6. ALL REINFORCEMENTS SHALL BE OF Fe 500D GRADE CONFORMING TO IS:1786.
7. ALL GUSSET PLATES ARE 10mm Thk. UNLESS OTHERWISE SPECIFIED.
8. WELDING SYMBOLS ARE AS PER IS:813.
9. ALL BUTT WELDS TO BE STAGGERED AND SHALL BE X-RAYED TESTED AS PER SPECIFICATIONS.
10. WORKMANSHIP FOR STEEL FABRICATION SHALL BE IN ACCORDANCE WITH IRC :24 AND CLAUSE 1900 OF MORTH SPECIFICATIONS FOR ROAD AND BRIDGE WORKS.
11. HOLES ARE 17.5/19.5/ 25.5 DIA FOR M16/20/24 PERMANENT BOLTS OF HSFG. OF GRADE 10.9 CONFORMING TO IS:4000. UNLESS OTHERWISE SPECIFIED.
12. WELDING SHOULD BE DONE IN ACCORDANCE WITH IS:816 AND IS:9595 AND WELDING CONSUMABLES SHALL CONFORM TO IS:814.
13. TOLERANCE FOR FABRICATION OF STEEL WORK SHALL BE AS PER IS:7195-1974.
14. ALL STEEL MEMBERS ARE TO BE PROVIDED WITH ANTICORROSIVE PAINT AS PER SPECIFICATION.
15. FABRICATION AND ERECTION OF STRUCTURAL STEEL WORKS SHALL CONFORM TO IRC; 24 (SECTION - V) IS ; 7205 - 1074 AND IS ; 7195 - 1074.
16. AUTOMOTED SUBMERGED ARC WELDING SHOULD BE EMPLOYED FOR FILLET WELD IN FLANGE AND WEBS. OTHER WELD SHOULD ALSO BE DONE BY SUBMERGED ARC WELDING TO THE MAXIMUM EXTENT POSSIBLE.
17. DIMENSIONS OF BEARING PLATES SHOULD SUIT AND CONFORM THE DESIGNED DETAILS OF BEARINGS TO BE SUPPLIED BY THE MANUFACTURERS.

TESTING OF STUD SHEAR CONNECTOR

(A) ACCEPTANCE TEST

1. THE WELD TO A STUD SHEAR CONNECTOR SHOULD FORM A COMPLETE COLLAR AROUND THE SHANK AND FREE FROM CRACKS, EXCESSIVE SPLASHES OF WELD MATERIAL, FREE FROM INJURIOUS, LAPS, FINS, SEAMS, TWIST, BENDS OR OTHER INJURIOUS DEFFECTS.
2. WELD MATERIAL SHOULD HAVE A "STEEL BLUE" APPEARANCE

(B) TEST TO CHECK THE FIXING OF SHEAR STUDS

ALL STUD NEED TO BE CHECKED BY RING TEST AND BEND TEST.

1. RING TEST INVOLVES STRIKING THE SIDE OF THE HEAD OF THE STUD WITH A 2 KG HAMMER. A RINGING TONE ACHIEVED AFTER STRIKING INDICATE GOOD FUSION WHEREAS DULL TONE INDICATES A LACK OF FUSION (BS:5400-6)
2. BEND TEST REQUIRES THE HEAD OF THE STUD TO BE DISPLACED LATERALLY BY APPROXIMATE 25% OF ITS HEIGHT USING A 6 KG HAMMER.

* THE WELD SHOULD THEN BE CHECKED FOR SIGNS OF CRACKING OR LACK OF SUSION
* STUD SHOULD NOT BE BENT BACK AS THIS IS LIKELY TO DAMAGE THE WELD
* THE TESTING RATE SHOULD BE 1 IN 50 (BS:6500-6)

TENTATIVE TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
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CONSULTANT:
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FLAT NO. 75/288 SFS G-8-A
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NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
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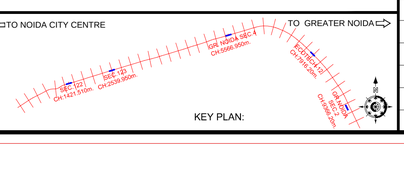

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DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

NOIDA METRO RAIL CORPORATION LTD.

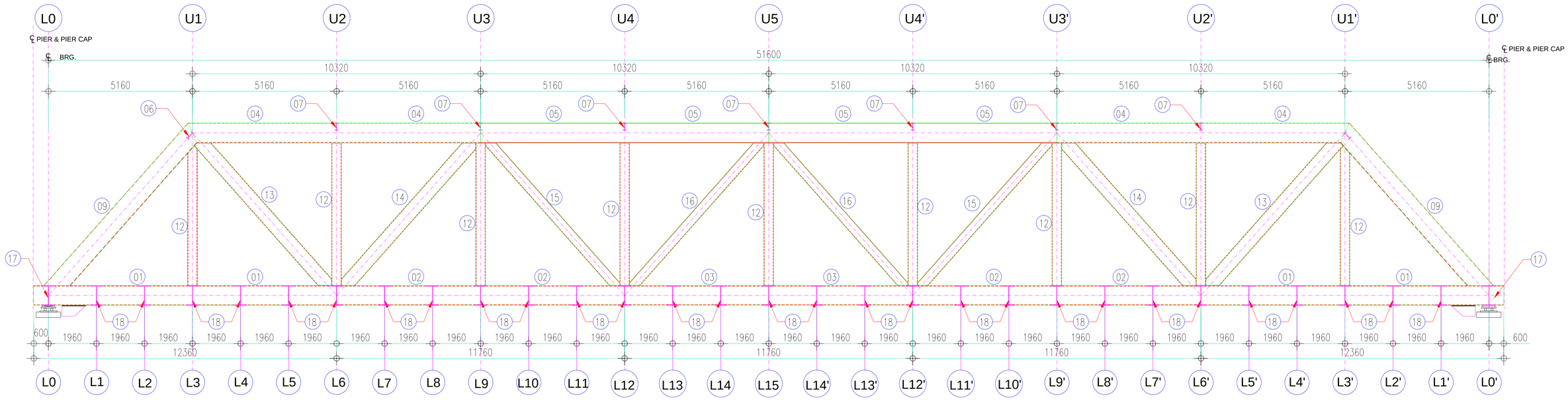
TITLE:
DIMENSION DETAILS OF SUPERSTRUCTURE FOR 54.0M EXP. TO EXP. OPEN WEB GIRDER (WELDED THROUGH TYPE)

SCALE 1:200

DATE SEP-20

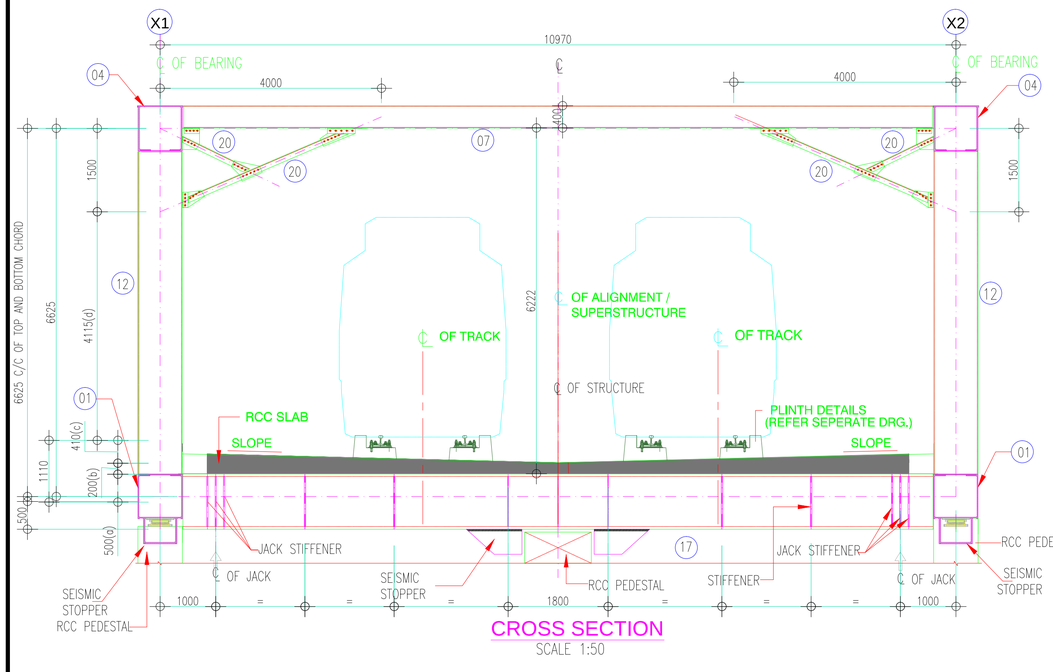
REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-3009



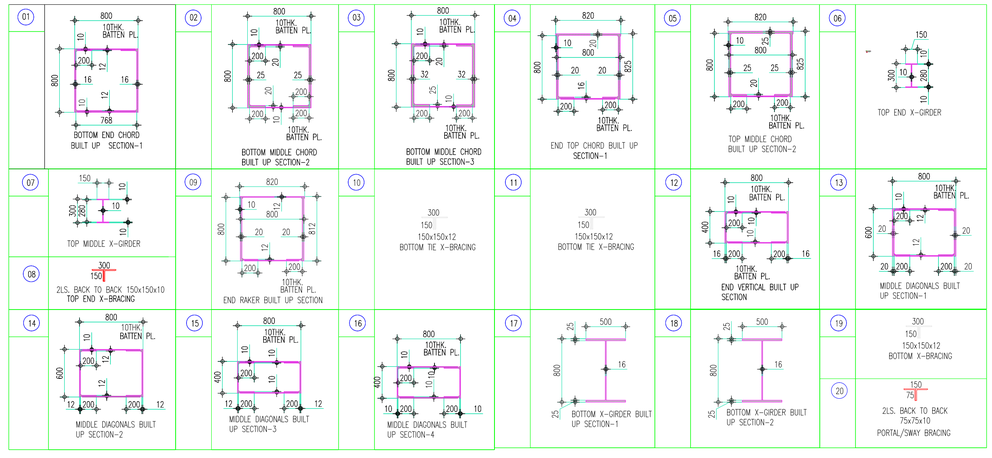
ELEVATION OF TRUSS

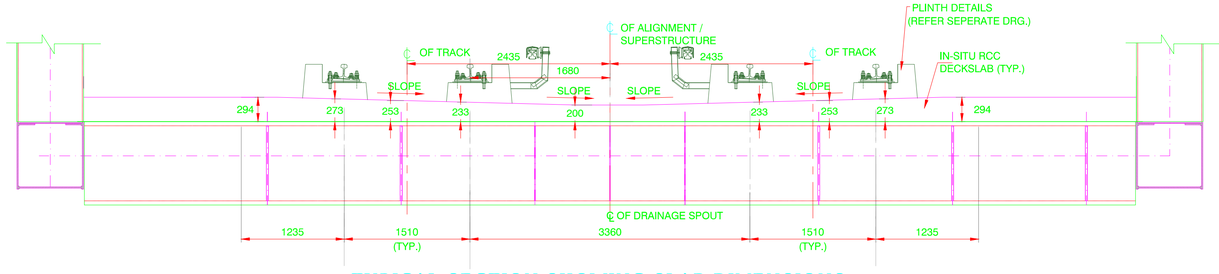
(DECK SLAB NOT SHOWN)
SCALE 1:75



CROSS SECTION

SCALE 1:50





TYPICAL SECTION SHOWING SLAB DIMENSIONS

(SCALE 1 :40)

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
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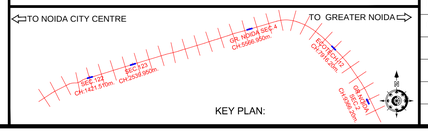
PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS



QUALITY ASSURANCE

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NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

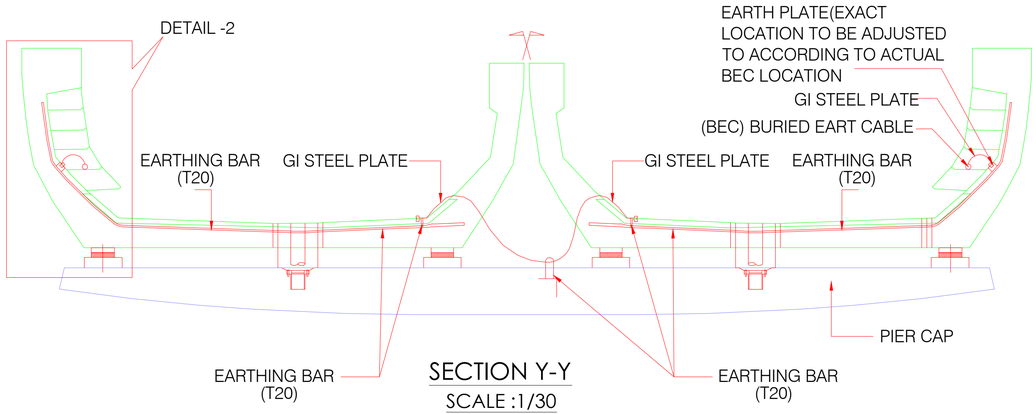
DIMENSION DETAILS OF SUPERSTRUCTURE FOR 54.0M EXP. TO EXP. OPEN WEB GIRDER (WELDED THROUGH TYPE)

SCALE 1:200

DATE SEP-20

REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-3009

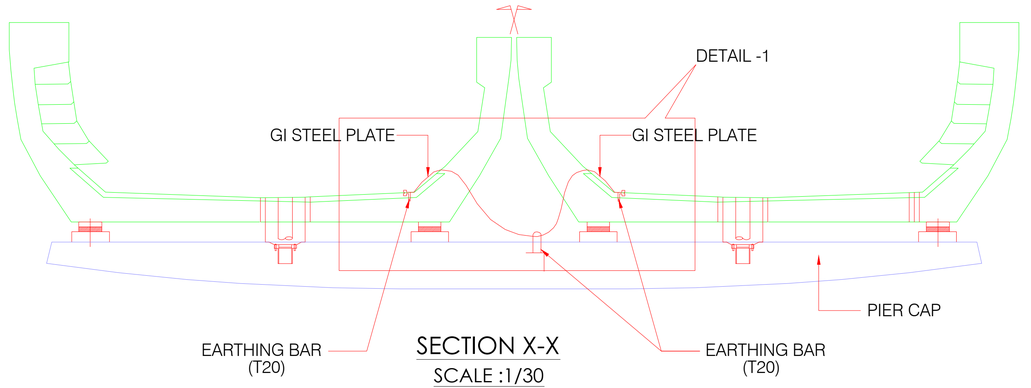


SECTION Y-Y

SCALE :1/30

TYPICAL CROSS SECTION AT PIER

NO CONNECTION TO BEC

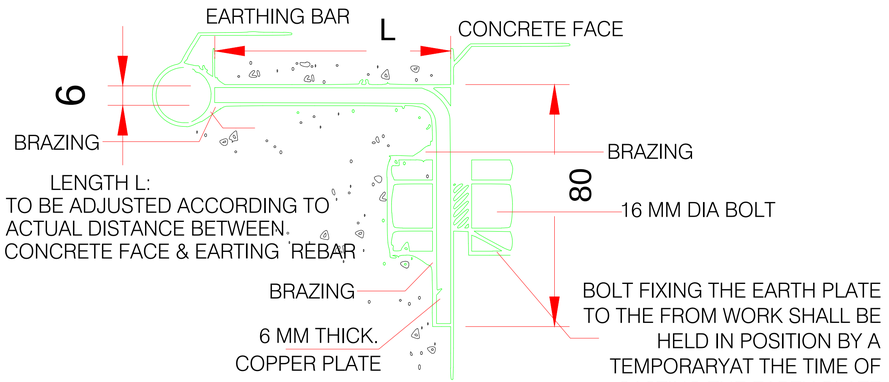


SECTION X-X

SCALE :1/30

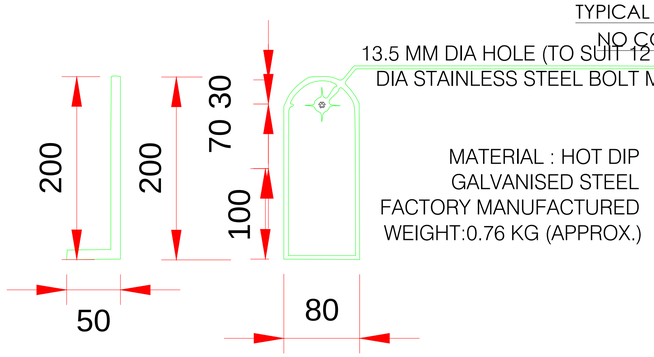
TYPICAL CROSS SECTION AT PIER

NO CONNECTION TO BEC



TYPICAL EARTH PLATE DETAIL FOR CONNECTION E1&E3

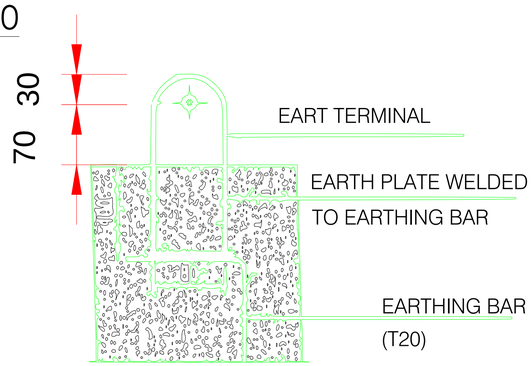
SCALE :1/10



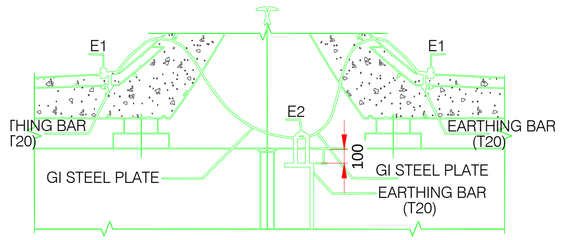
MATERIAL : HOT DIP GALVANISED STEEL FACTORY MANUFACTURED WEIGHT:0.76 KG (APPROX.)

TYPICAL EARTH TERMINAL DETAIL FOR CONNECTION E2

SCALE :1/10

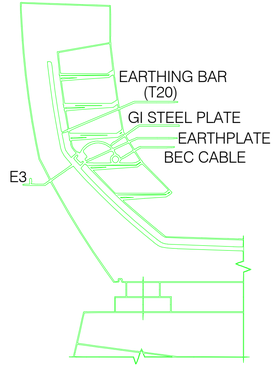


BAR DETAIL



DETAIL -1

SCALE :1/20



DETAIL -2

SCALE :1/20

CLIENT:

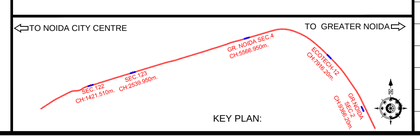
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01 ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS



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DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
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CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

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APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

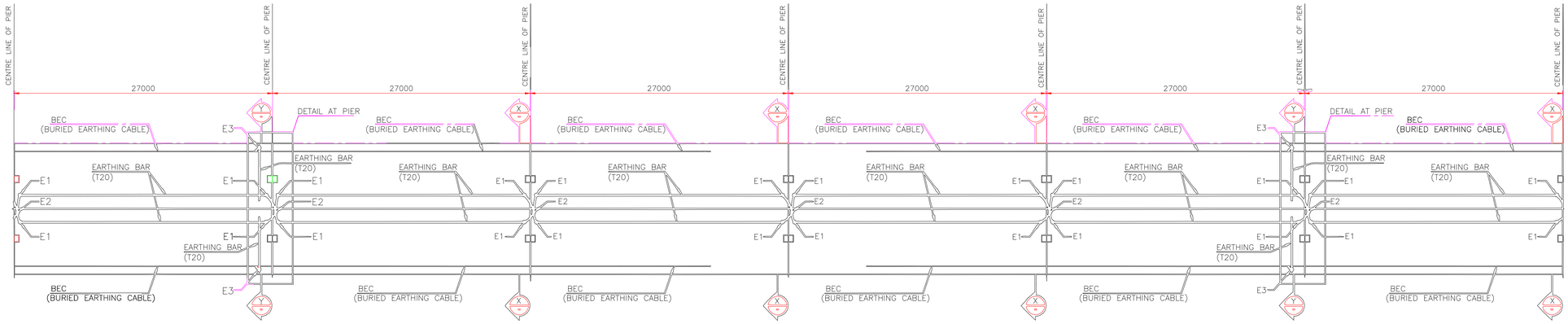
EARTHING ARRAGEMENT SHEET 2OF3

SCALE 1:200

DATE SEP-20

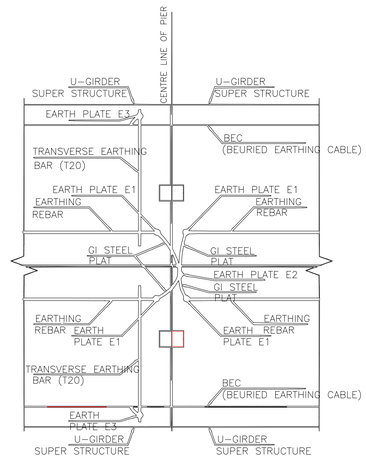
REV. R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4001 2 OF 3



EARTH PLATE E1:CONNECTING U-BEAM LONGITUDINAL EARTHING TO GI STEEL PLATE.
EARTH PLATE E2:CONNECTING GI STEEL PLATE TO EARTHING REBAR IN PIER CAP.
EARTH PLATE E3:TRANSVERSE EARTHING BAR TO BEC (BURIED EARTHING CABLE).

PLAN VIEW
SCALE:1.150



DETAIL AT PIER
SCALE:1.150

NOTES :-

1) EACH LONGITUDINAL EARTHING BAR SHALL BE CONNECTED TO SUBSTRUCTURE EARTHING SYSTEM AT BOTH ENDS OF THE BAR.
2) CONNECTION OF EARTHING BAR TO BEC(BURIED EARTHING CABLE RUNNING IN CABLE TRAY) SHALL BE MADE AT EVERY 120m LENGTH (MAXIMUM).
3) FLAT GI STEEL PLATE CONNECTING EARTH PLATES SHALL BE MADE OF 40X8mm.
4) CABLE TRAY ARRANGEMENT AND LOCATION OF BEC(BURIED EARTHING CABLE) ARE INDICATIVE ONLY.
5) EARTHING REBARS SHALL NOT BE CONSIDERED WHILE CHECKING STRUCTURAL RESISTANCE OF THE SUPERSTRUCTURE.
6) THE PLAN VIEW ABOVE SHOWS TYPICAL EARTHING SCHEME FOR 4 SUCCESSIVE 27m SPANS. SAME ARRANGEMENT SHALL BE REPEATED FOR NEXT FOUR SPANS.
7) AS A GENERAL PRINCIPLE ALL METALLIC STRUCTURES SHALL BE ELECTRICALLY CONNECTED (WELDED) TOGETHER TO THE EARTHING SYSTEM ENDING IN GROUND.
8) THE PROPOSED EARTHING SCHEME IS INDICATIVE ONLY AND THE CONTRACTOR SHALL PROPOSE ITS OWN PRINCIPAL IN SHOP DRAWINGS.

TENTATIVE TENDER DRAWINGS

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:
CONTRACT No.NGNDD-01
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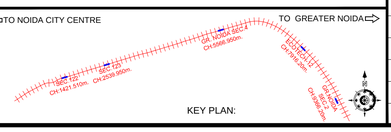

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DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

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R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

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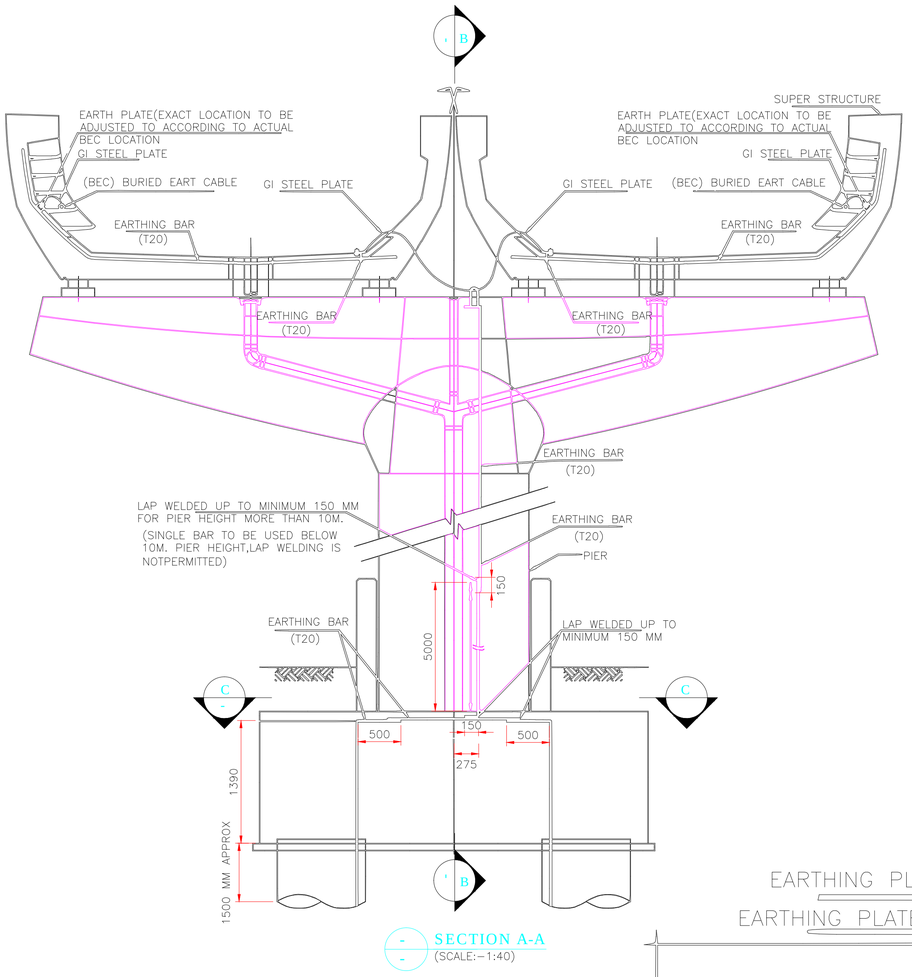
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

NOIDA METRO RAIL CORPORATION LTD.

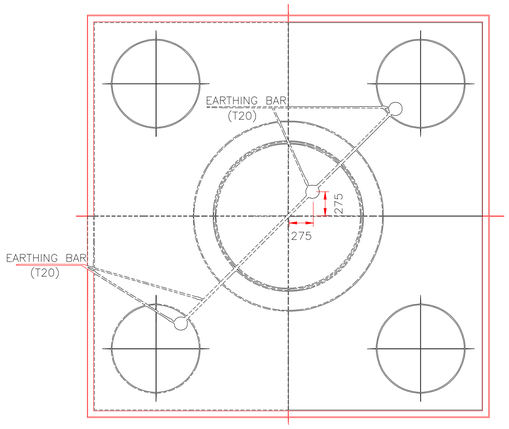
TITLE:
TYPICAL EARTHING ARRANGEMENT

SCALE: 1:200
DATE: SEP-20
REV.: R1

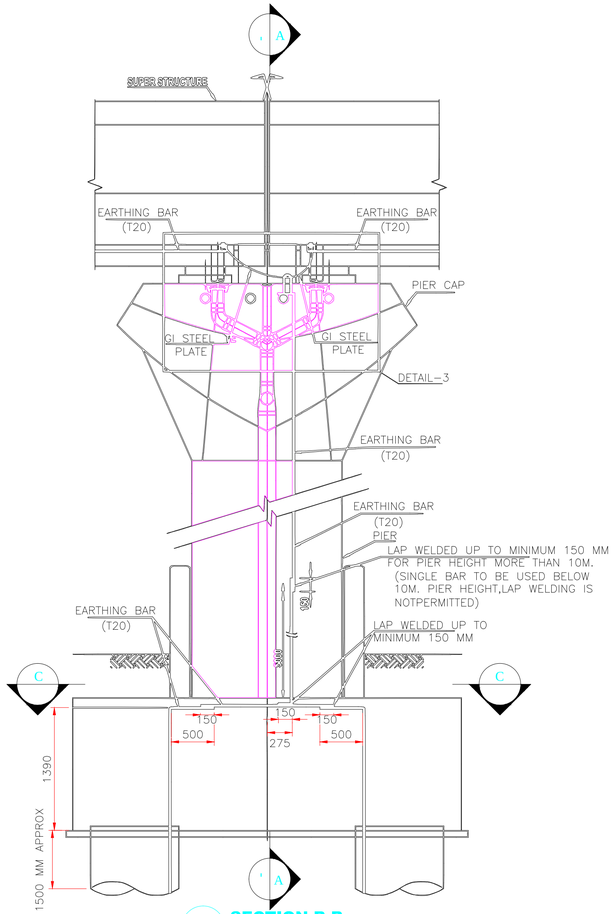
DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4002 Layout1



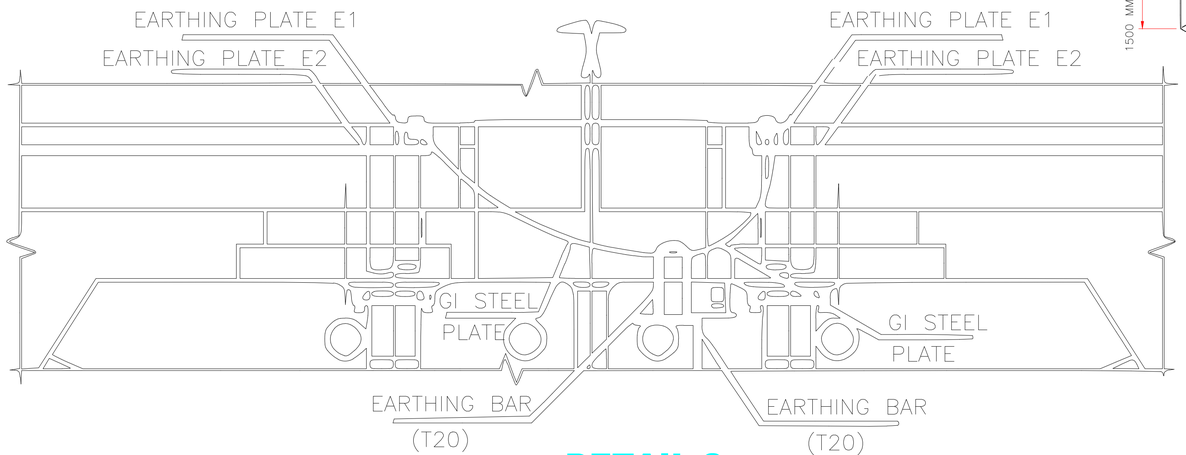
SECTION A-A
(SCALE:−1:40)



SECTION -C-C
(SCALE:−1:40)



SECTION B-B
(SCALE:−1:40)

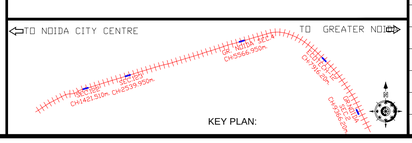


DETAIL 3
(SCALE:−1:10)

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-45565814-18
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS



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NO OBJECTION BY NMRC LTD.

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DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
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CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

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PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
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DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

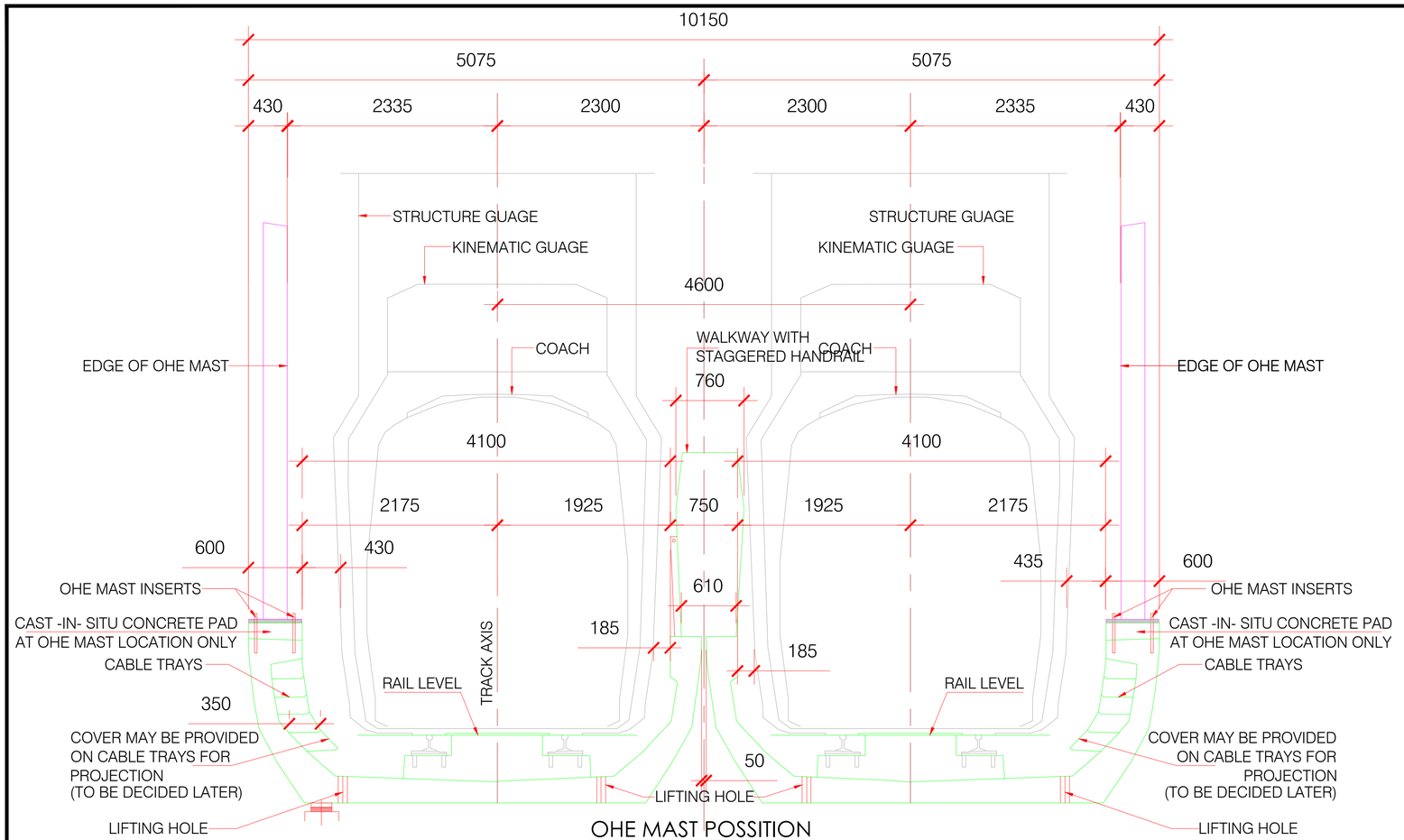
TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
EARTHING ARRAGEMENT
SHEET 3/3

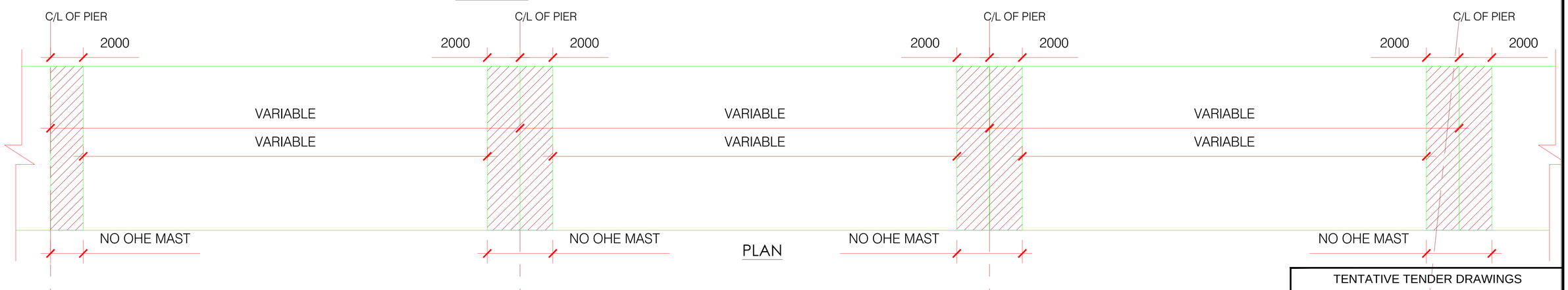
SCALE: 1:200
DATE: SEP-20
REV.: R1

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4003
3 OF 3



OHE MAST POSSITION

SCALE :1/30



PLAN

NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETER.
2. ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
3. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL,PLUMBING & FIRE FIGHTING,ELECTRICAL AND TRAFFIC MANAGEMENT DRAW
4. ANY DISCREPANCIES MUST BE BROUGHT TO THE NOTICE OF THE CONSULTANTS.

IMP NOTES:-

NO OHE MAST SHALL BE FIXED WITHIN 2.0M ON EITHER SIDE OF PIER AXIS.

CLIENT:

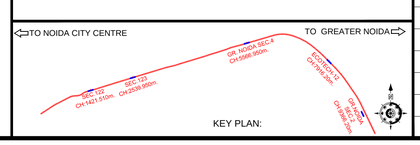
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/2/B SFS G-B-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS



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DRAWN BY	GAURAV		26-Sep-20

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

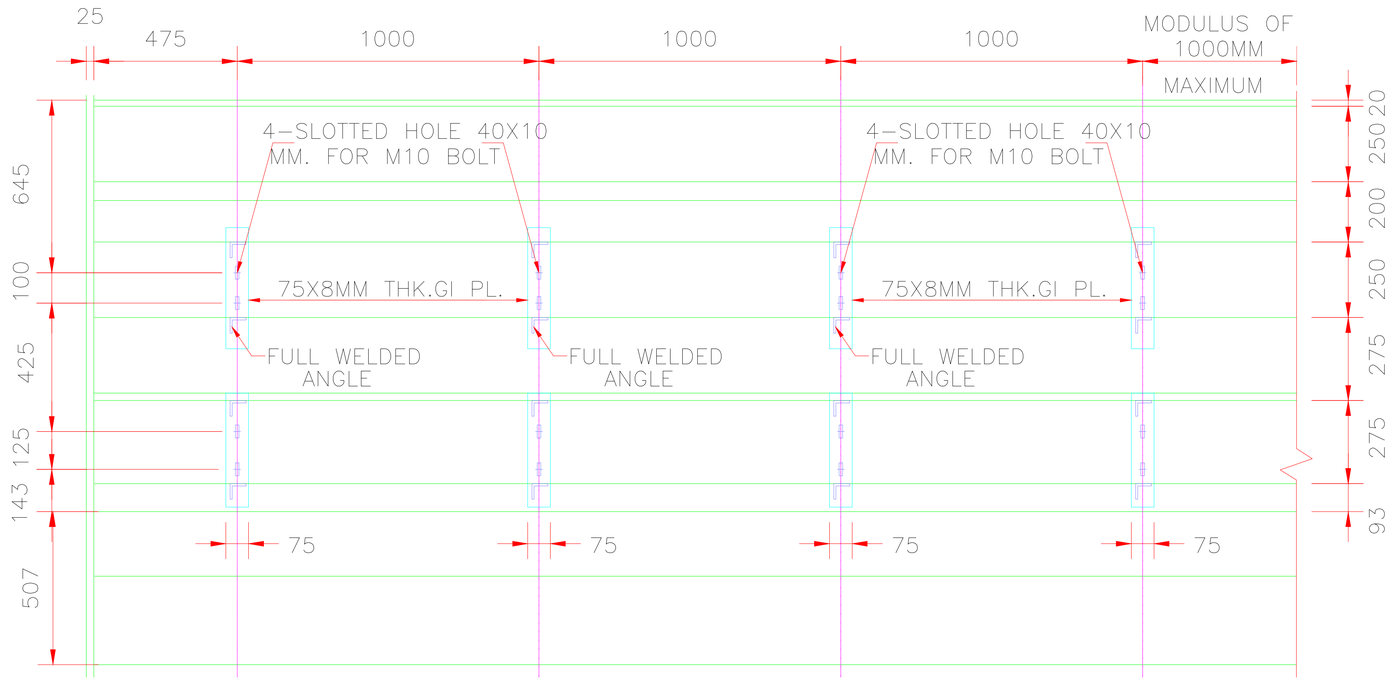
OHE MAST ANCHORES

SCALE: 1:200

DATE: SEP-20

REV.: R1

DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4004

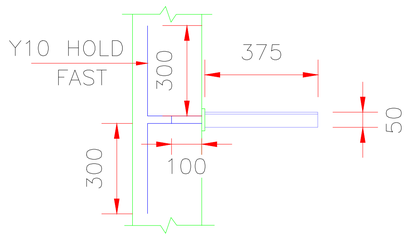


ELEVATION-2-2

SCALE:1/10

SECTION -1-1

SCALE:1/10



SECTION 3-3

SCALE:1/10

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 76/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED
DESIGN CONSULTANT (DDC)
FOR CIVIL,ARCHITECTURAL AND
E&M WORKS OF NOIDA-
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NOIDA TO GREATER NOIDA
SECTOR-2,CONSISTING OF
9.605 KM VIADUCT INCLUDING
5 ELEVATED STATIONS

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DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			

CIVIL | MEP | S & T

REVISIONS

NO.	DESCRIPTION	DATE	BY
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DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

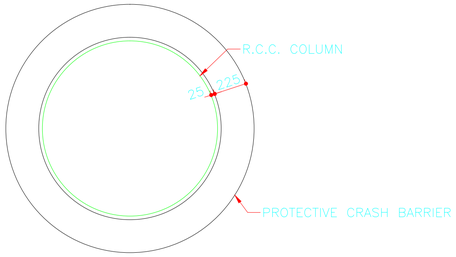
TITLE: CABLE TRAY DETAIL

SCALE: 1:200

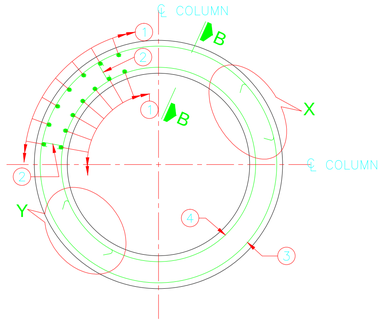
DATE: SEP-20

REV.: R1

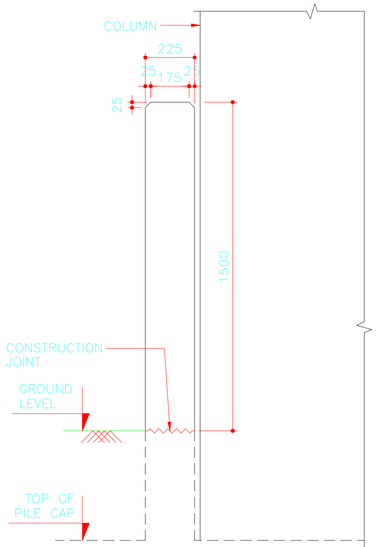
DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4005 1



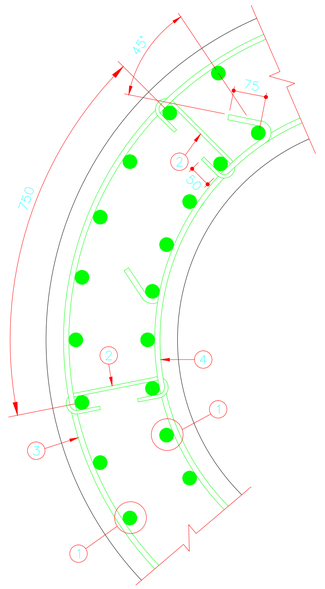
AROUND CIRCULAR COLUMN
(SCALE 1:30)



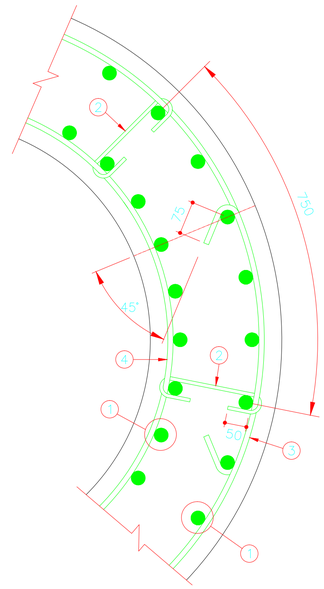
REINF. DETAILS OF CRASH BARRIER
AROUND CIRCULAR COLUMN
(SCALE 1:30)



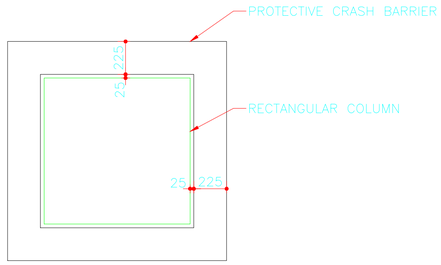
CROSS SECTION OF CRASH BARRIER
(SCALE 1:20)



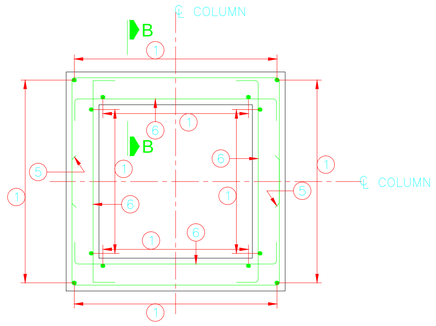
DETAIL-Y
(SCALE 1:10)



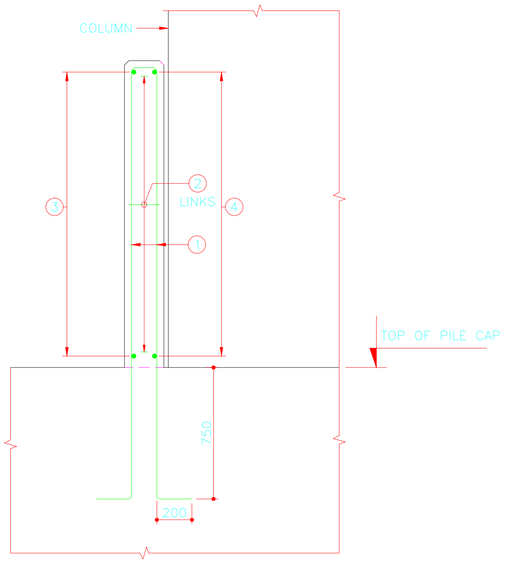
DETAIL-X
(SCALE 1:10)



AROUND RECTANGULAR COLUMN
(SCALE 1:30)



REINF. DETAILS OF CRASH BARRIER
AROUND RECTANGULAR COLUMN
(SCALE 1:30)



SECTION B-B
(SHOWING REINFORCEMENT)
(SCALE 1:25)

BAR (2) SHALL ENGAGE THE VERTICAL BAR (1) AS WELL AS THE BAR (3) & (4) AS SHOWN IN DETAIL X & Y

SUGGESTED CONSTRUCTION SEQUENCE OF CRASH BARRIER

STAGE–1 BAR (1) TO BE LEFT WHILE CASTING OF PILE CAP.

STAGE–2 POSITION BAR (2) (3) & (4) AND CAST THE CRASH BARRIER

STAGE–3 BACK FILL THE EXCAVATED PORTION UPTO GROUND LEVEL/ FINISHED ROAD LEVEL.

REINFORCEMENT DETAILS:

BAR MKD.	DIA	SPACING/NOS.	SHAPE
1	12	150 c/c	
2	8	750 c/c (HORIZONTAL) 400 c/c (VERTICAL)	LINKS
3	10	200 c/c	
4	10	200 c/c	
5	10	200 c/c	
6	10	200 c/c	

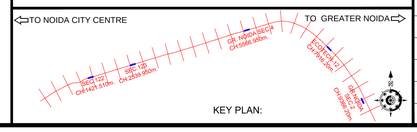
NOTES:

1. ALL DIMENSIONS ARE IN MM.
2. DO NOT SCALE THE DIMENSIONS. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL H.Y.S.D. BARS SHALL CONFORM TO IS:1786 GRADE Fe–500.
4. GRADE OF CONCRETE FOR CRASH BARRIER : M–30
5. MINIMUM CLEAR COVER TO ANY REINFORCEMENT SHALL BE 40 mm.
6. LAP LENGTH SHALL BE 46 TIMES DIA OF BAR.

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-9-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS



QUALITY ASSURANCE

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NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS		26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

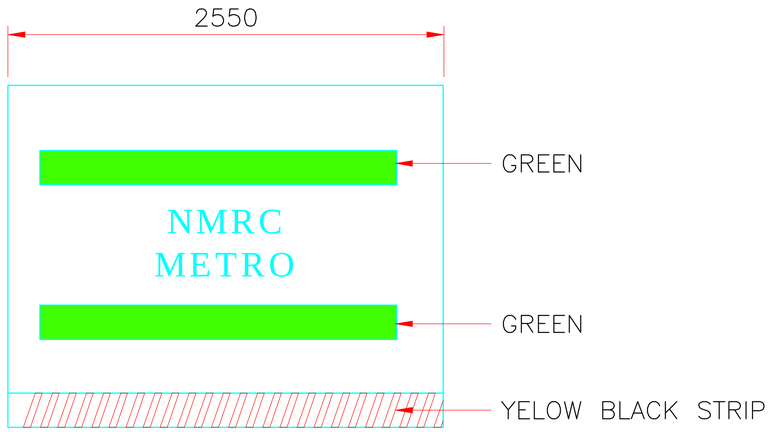
TENTATIVE TENDER DRAWINGS

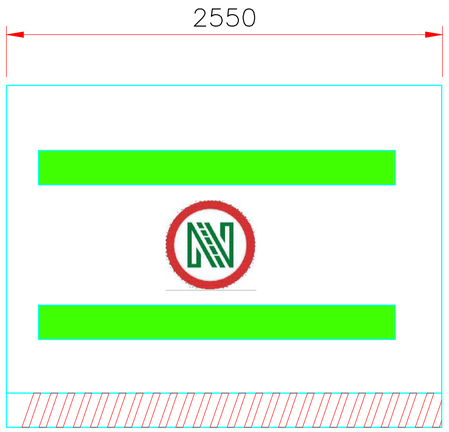
NOIDA METRO RAIL CORPORATION LTD.

TITLE:
DETAILS OF PROTECTIVE CRASH BARRIER AROUND COLUMNS

SCALE 1:200
DATE SEP-20
REV. R1

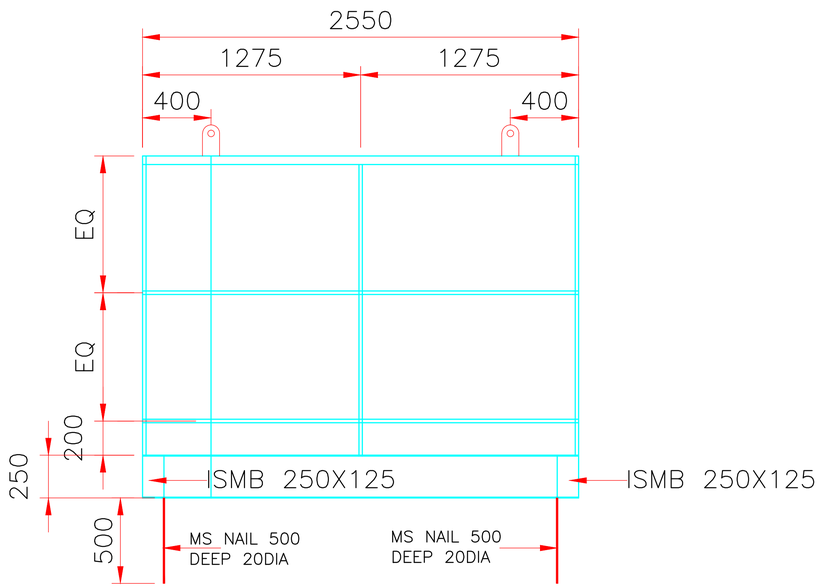
DRG. NO.: NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4006 1 OF 1





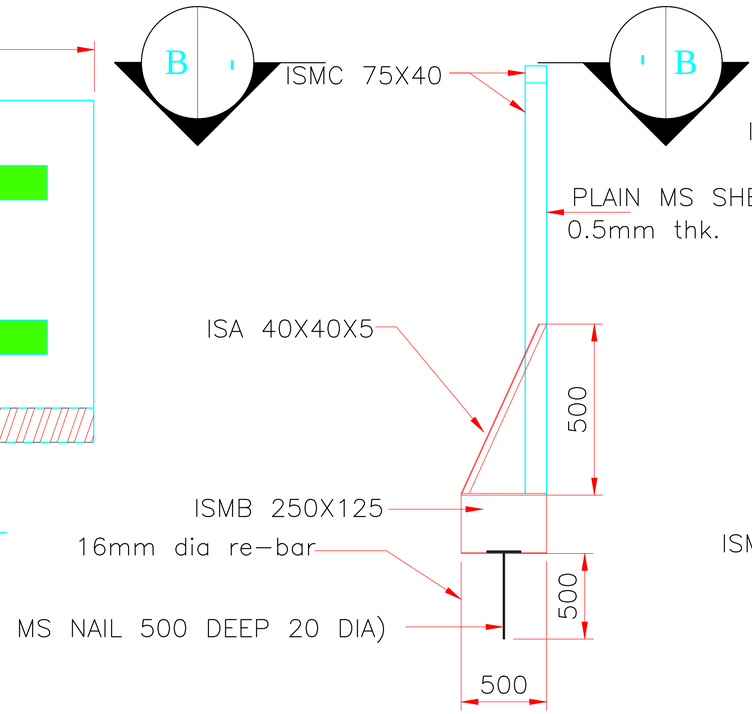
ELEVATION ONE UNIT OF TEMPORARY BARRICADING

(SCALE:–1:10)



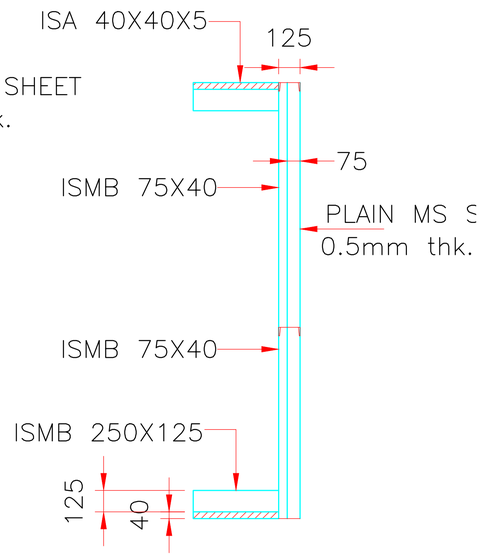
DETAIL OF TEMPORARY BARRICADING

(SCALE:–1:10)



VIEW A-A

(SCALE:–1:10)



VIEW B-B

(SCALE:–1:10)

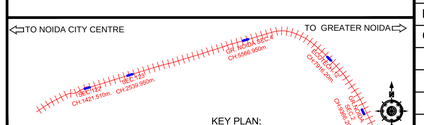
NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETERS, AND LEVELS IN METERS UNLESS DTHERWISE SPECIFIED
2. DIMENSIONS SHALL NOT TO BE SCALED, FROM DRAWING ANY DOUBTS REFFER TO THE ENGINE–IN–CHARGE

CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS



QUALITY ASSURANCE

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MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS	Vibhas	26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

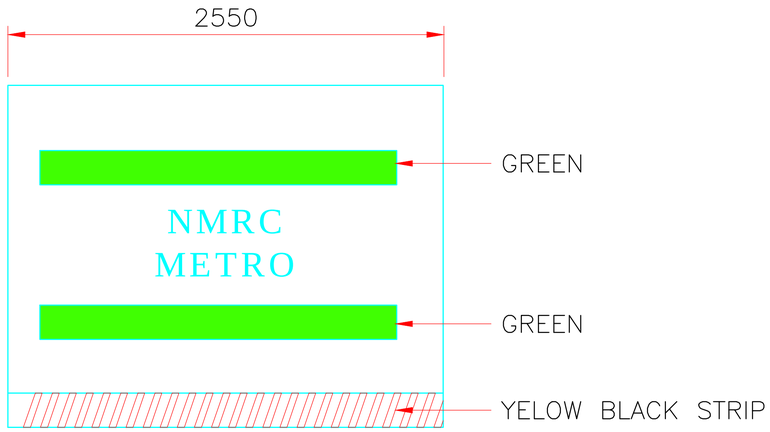
TENTATIVE TENDER DRAWINGS

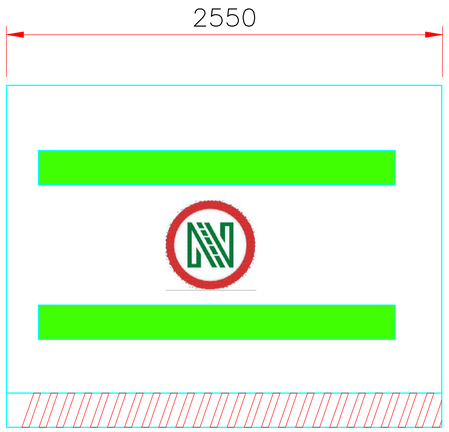
NOIDA METRO RAIL CORPORATION LTD.

TITLE:
TYPICAL DRAWING OF BARRICADING

SCALE: 1:200
DATE: SEP-20
REV.: R1

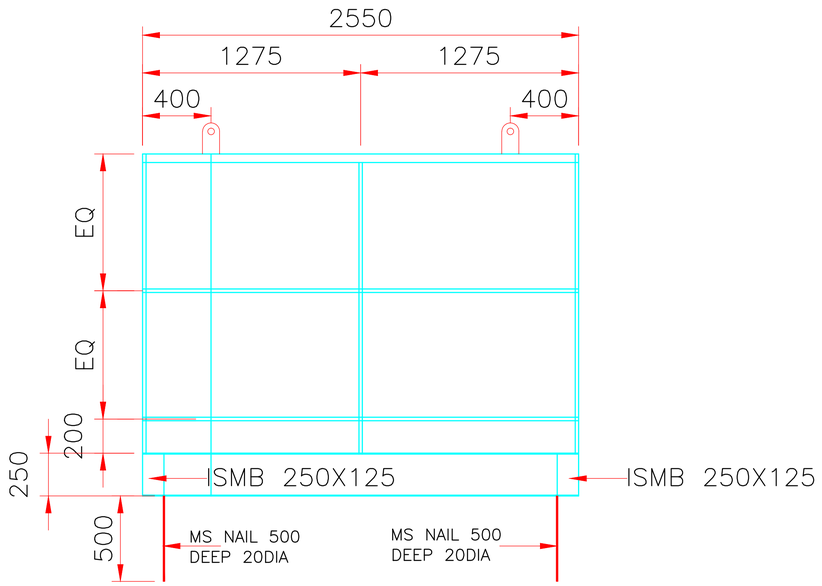
DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4007





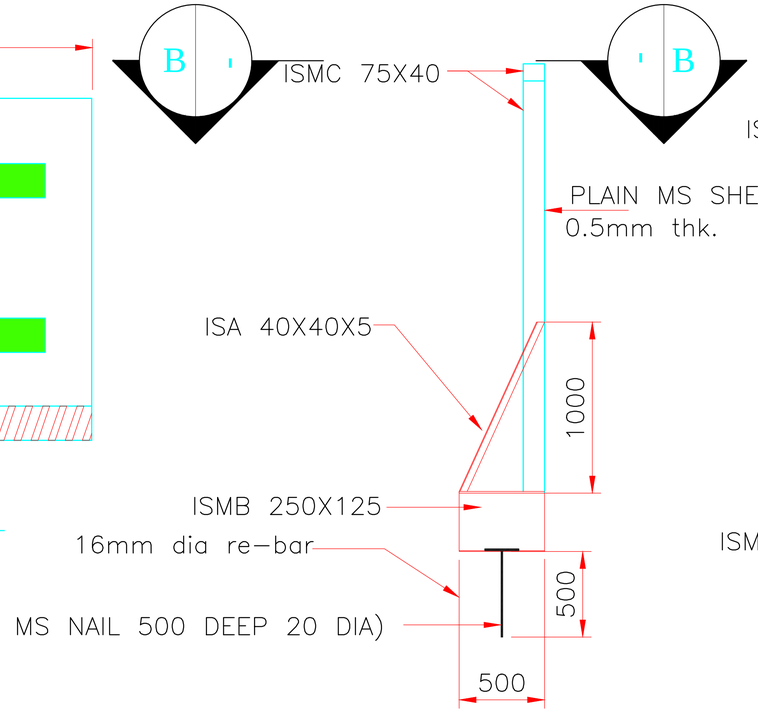
ELEVATION ONE UNIT OF TEMPORARY BARRICADING

(SCALE:–1:10)



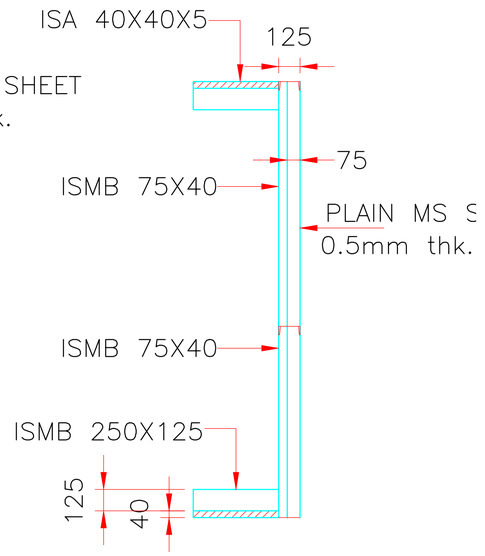
DETAIL OF TEMPORARY BARRICADING

(SCALE:–1:10)



VIEW A-A

(SCALE:–1:10)



VIEW B-B

(SCALE:–1:10)

NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETERS, AND LEVELS IN METERS UNLESS DTHERWISE SPECIFIED
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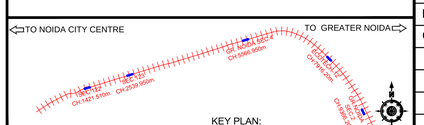
CLIENT:
NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:
LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:
CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS



QUALITY ASSURANCE

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NO OBJECTION BY NMRC LTD.

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DGM (Design)		DGM (RS)		DGM (TEL)	
DGM (CIVIL)		SDGM (P&T)		GM (S&T)	
GM (Technical)		GM (RS&E)			
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER COMMENTS	26-09-20	NMRC

CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		26-Sep-20
APPROVED BY	HIMANSHU		26-Sep-20
CHECKED BY	SUDERSHAN		26-Sep-20
DESIGNED BY	ARVIND / VIBHAS	Vibhas	26-Sep-20
DRAWN BY	GAURAV		26-Sep-20

TENTATIVE TENDER DRAWINGS

NOIDA METRO RAIL CORPORATION LTD.

TITLE:
TYPICAL DRAWING OF 2.0m HEIGHT BARRICADING

SCALE: 1:200
DATE: SEP-20
REV.: R1

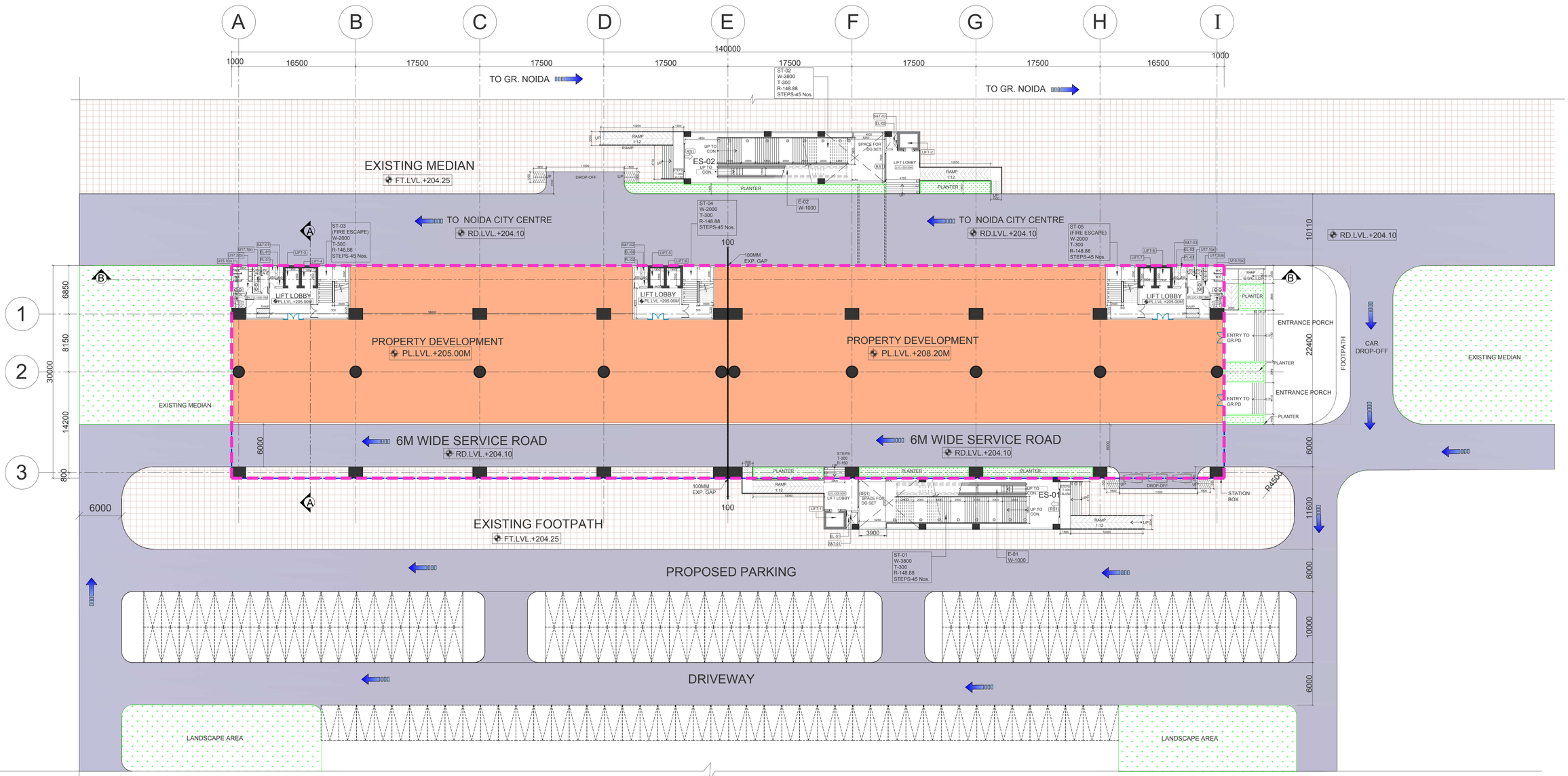
DRG. NO.:
NGNDD-01-LKT-NMRC-ST-03-CP-ST-MISC-4008 1 OF 1

NOIDA METRO RAIL CORPORATION LTD.

TENDER DRAWING
ARCHITECTURAL DRAWINGS OF
NOIDA-GREATER NOIDA METRO CORRIDOR
(NOIDA SEC.51- GREATER NOIDA SEC-2)

LIST OF TENDER DRAWING(ARCHITECTURAL)
PROJECT: NOIDA GREATER NOIDA CORRIDOR
TYPICAL STATION

S.NO.	DRAWING TITLE	DRAWING NO.	REVISION
1	GROUND/STREET LEVEL PLAN	NGNDD-01-LKT-NMRC-ST-XX-TD-GR-AR-1001	R01
2	CONCOURSE LEVEL PLAN	NGNDD-01-LKT-NMRC-ST-XX-TD-CL-AR-1002	R01
3	PLATFORM LEVEL PLAN	NGNDD-01-LKT-NMRC-ST-XX-TD-PL-AR-1003	R01
4	TYPICAL PD LEVEL PLAN	NGNDD-01-LKT-NMRC-ST-XX-TD-PD-AR-1004	R01
5	TERRACE LEVEL PLAN	NGNDD-01-LKT-NMRC-ST-XX-TD-TL-AR-1005	R01
6	CROSS SECTION-A-A	NGNDD-01-LKT-NMRC-ST-XX-TD-SEC-AR-1006	R01
7	LONGITUDINAL SECTION-B-B	NGNDD-01-LKT-NMRC-ST-XX-TD-SEC-AR-1007	R01



GROUND/STREET LEVEL PLAN

ROOM AREA SCHEDULE - GROUND/STREET LEVEL

STATION BOX- 140Mx30M = 4200 sq.mt.

S.NO.	NOMENCLATURE	DESCRIPTION	LENGTH (M)	WIDTH (M)	TOTAL BUILT-UP AREA PROVIDED (SQ.MT.)	FLOOR	CEILING
1.	ENTRY STRUCTURE	STAIRCASE/LIFT LOBBY/LIFT/SHAFT/CORRIDOR	-	-	934.09	-	
2.	PD-01	PROPERTY DEVELOPMENT	-	-	2743.33	-	
TOTAL AREA ON GROUND FLOOR					3,677.42		

CLIENT:

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CONSULTANT:

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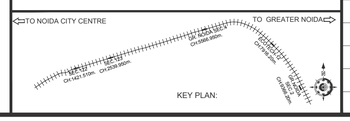
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01 ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2, CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

GENERAL NOTES -

1. ALL DIMENSIONS AND LEVELS ARE IN METERS, UNLESS SPECIFIED.
2. ALL DIMENSIONS ARE TO BE READ , NOT TO BE MEASURED.



NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
GM (D&P)		SDGM (P&T)		SDGM (S&T)	
MGR (TRACK)		GM (RS&E)		GM (S&T)	
SDGM (CIVIL)					
GM (Projects)					
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY

QUALITY ASSURANCE

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CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		11-09-2020
CHECKED BY	JANNU TYAGI		11-09-2020
DESIGNED BY	NAINA		11-09-2020
DRAWN BY	SHISHUPAL		

TENDER DRAWING

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

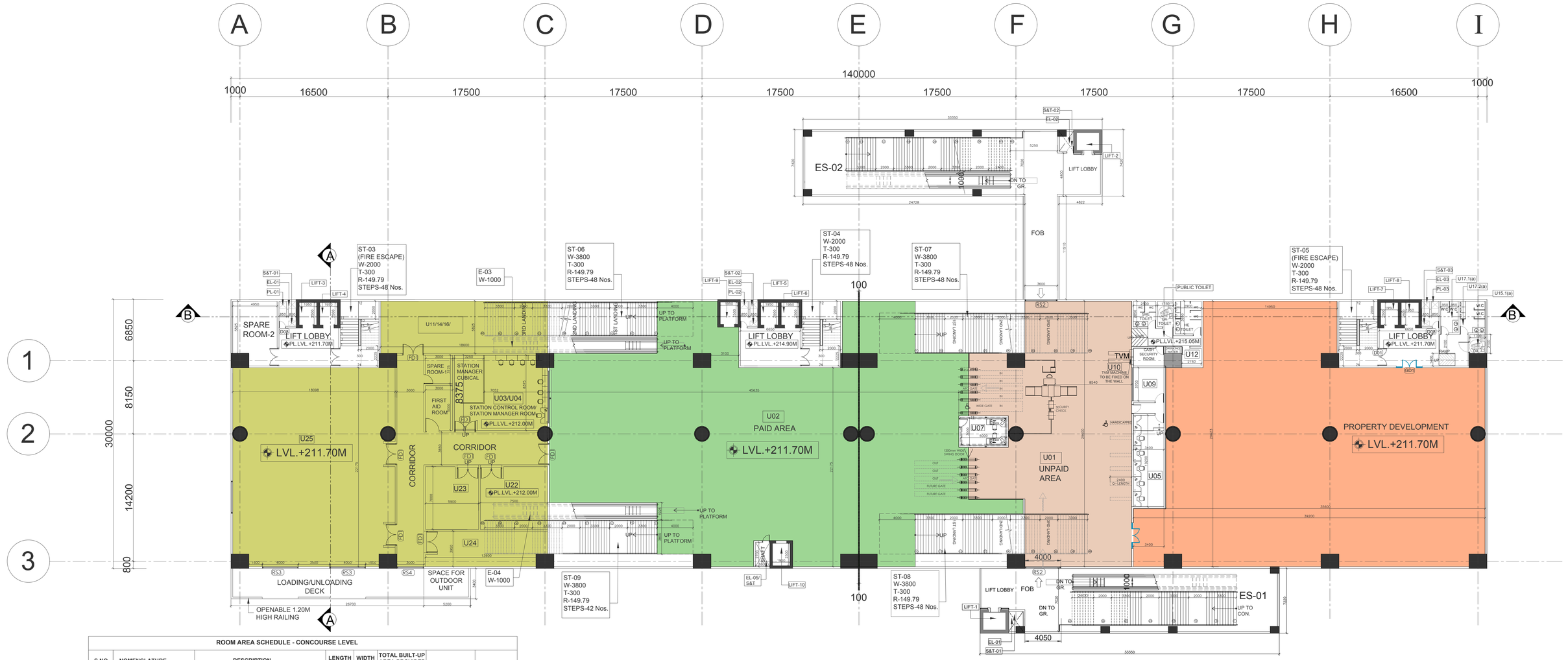
STREET/GROUND LEVEL PLAN
TYPICAL STATION

SCALE N.T.S

DATE 11-09-2020

REV. R01

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-XX-TD-GR-AR-1001



ROOM AREA SCHEDULE - CONCOURSE LEVEL

S.NO.	NOMENCLATURE	DESCRIPTION	LENGTH (M)	WIDTH (M)	TOTAL BUILT-UP AREA PROVIDED (SQ.MT.)	FLOOR	CEILING
1.	U01	CONCOURSE UNPAID AREA	-	-	438.73	-	
2.	U02	CONCOURSE PAID AREA	-		1050.00	-	
3.	U03/U04	STATION CONTROL ROOM (SCR) STATION MANAGER ROOM	10.40	8.375	87.1		
4.	U05	TICKETING COUNTERS (TICKETING OFFICE)	3.40	10.20	34.68		
5.	U07	EXCESS FAIR OFFICE (EFO)	5.0	3.0	15.00		
6.	U09	SPACE FOR SECURITY STAFF & EQUIPMENT	3.40	3.70	12.58		
7.	U10	CASH SECURITY ROOM	3.40	1.975	6.715		
8.	U12	CLEANER'S ROOM	2.15	1.975	4.24		
9.	U11/U14/16	MAINTENANCE STORE ROOM/STAFF LOCKER & MESS ROOM	18.60	5.825	106.60		
10.	U22	SIGNALING EQUIPMENT ROOM	7.50	7.0	52.50		
11.	U23	TELECOM EQUIPMENT ROOM (TER)	5.90	7.0	41.30		
12.	U24	UPS ROOM FOR S&T	13.60	3.95	53.72		
13.	U25	AUXILIARY SUBSTATION (ASS/TSS)	22.175	18.098	401.32		
14.	FIRST AID ROOM	FIRST AID ROOM	5.00	3.00	15.00		
15.	SPARE ROOM	SPARE ROOM-1	3.175	3.00	8.78		
16.	SPARE ROOM	SPARE ROOM-2	5.825	4.950	28.83		
17.	ODU	OUTDOOR UNIT	-	-	84.16		
18.	U15.1	HANDICAPPED TOILET	1.75	2.85	4.98		
19.	U17.1	LADIES TOILET	2.50	2.85	7.125		
20.	U17.2	GENTS TOILET	2.90	3.65	10.585		
21.	PD-3	PROPERTY DEVELOPMENT			925.00		
		TOTAL AREA			3388.945		
21.	REMAINING AREA	AREA UNDER STAIRCASE/LIFT/SHAFT/LOBBY			811.055		
		TOTAL BUILT-UP AREA ON CONCOURSE FLOOR			4200		

CONCOURSE LEVEL PLAN

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

GENERAL NOTES -

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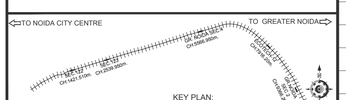

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
GM (D&P)		SDGM (P&T)		SDGM (S&T)	
MGR (TRACK)		GM (RS&E)		GM (S&T)	
SDGM (CIVIL)					
GM (Projects)					
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY

QUALITY ASSURANCE

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CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		11-09-2020
CHECKED BY	JANNU TYAGI		11-09-2020
DESIGNED BY	NAINA		11-09-2020
DRAWN BY	SHISHUPAL		

TENDER DRAWING

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

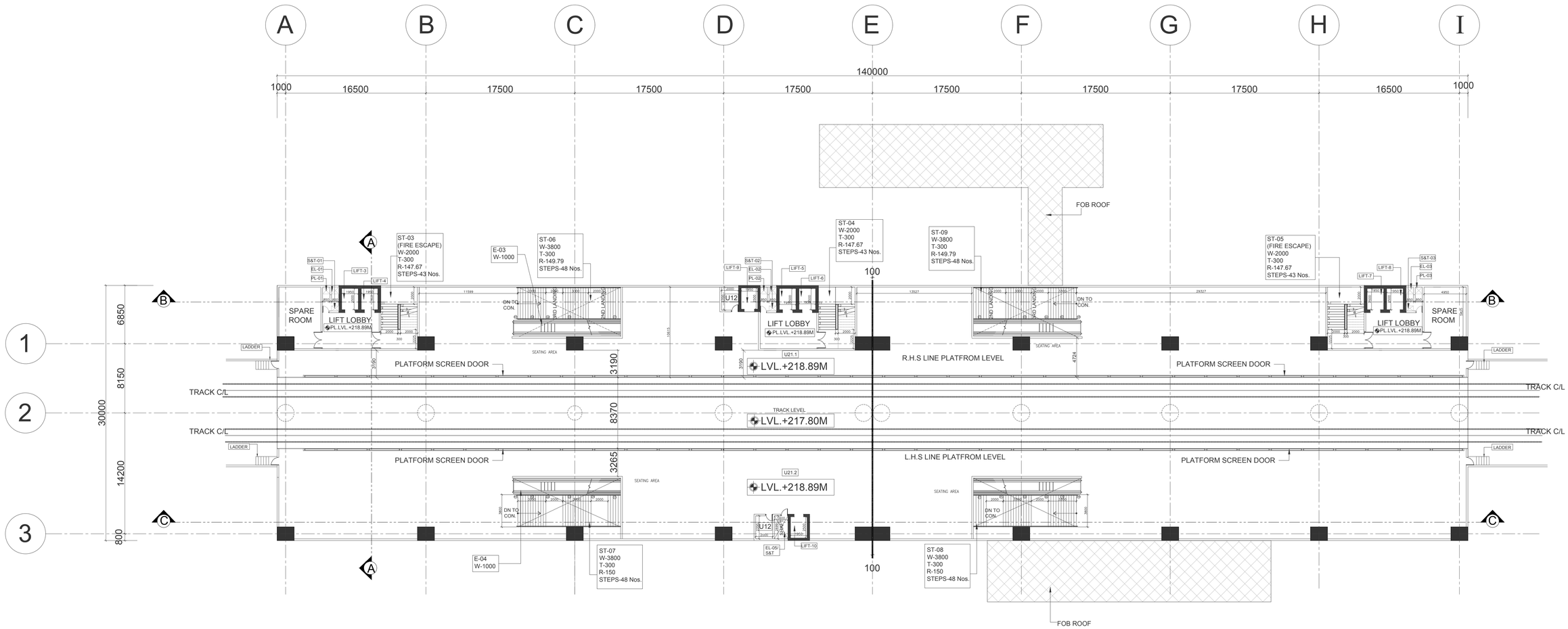
CONCOURSE LEVEL PLAN
TYPICAL STATION

SCALE: N.T.S

DATE: 11-09-2020

REV.: R01

DRG. NO.: NGNDD-01-LKT-NMRC-ST-XX-TD-CL-AR-1002



PLATFORM LEVEL PLAN

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

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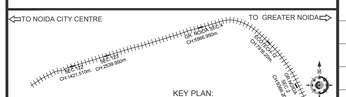

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
GM (D&P)		SDGM (P&T)		SDGM (S&T)	
MGR (TRACK)		GM (RS&E)		GM (S&T)	
SDGM (CIVIL)					
GM (Projects)					
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY

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CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		11-09-2020
CHECKED BY	JANNU TYAGI		11-09-2020
DESIGNED BY	NAINA		11-09-2020
DRAWN BY	SHISHUPAL		

TENDER DRAWING

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

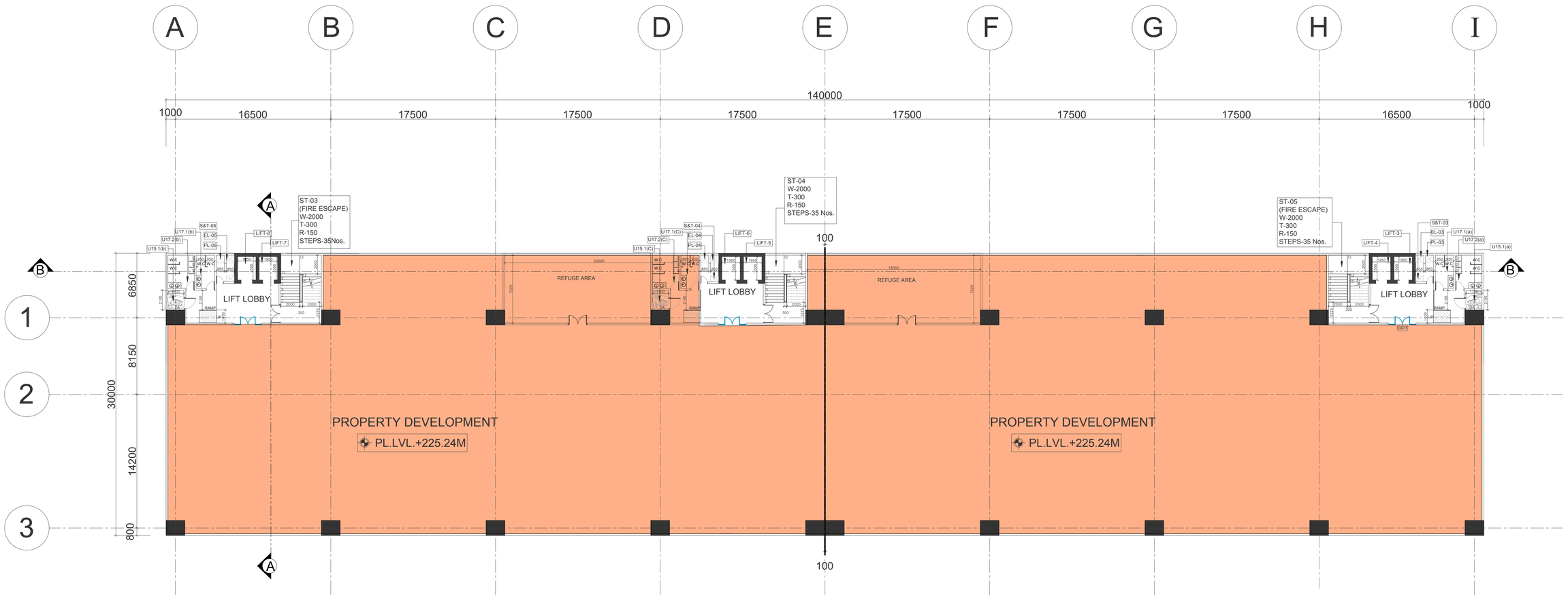
PLATFORM LEVEL PLAN
TYPICAL STATION

SCALE N.T.S

DATE 11-09-2020

REV. R01

DRG. NO.: NGNDD-01-LKT-NMRC-ST-XX-TD-PL-AR-1003



PD-1&2 LEVEL PLAN

ROOM AREA SCHEDULE - PD LEVELS

S.NO.	NOMENCLATURE	DESCRIPTION	LENGTH (M)	WIDTH (M)	TOTAL BUILT-UP AREA PROVIDED (SQ.MT.)	FLOOR	CEILING
1.	PD LEVEL -01	PROPERTY DEVELOPMENT(INCLUDING REFUGE AREA)	-	-	3510.00	-	
2.	PD LEVEL -02	PROPERTY DEVELOPMENT	-	-	3750.00	-	
3.							
TOTAL AREA ON PD FLOORS					7260.00		

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

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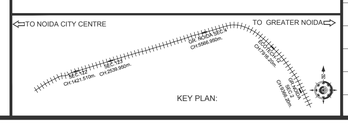

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
GM (D&P)		SDGM (P&T)		SDGM (S&T)	
MGR (TRACK)		GM (RS&E)		GM (S&T)	
SDGM (CIVIL)					
GM (Projects)					
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY

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CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

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PROJECT MGR	LOKESH TYAGI		11-09-2020
CHECKED BY	JANNU TYAGI		11-09-2020
DESIGNED BY	NAINA		11-09-2020
DRAWN BY	SHISHUPAL		

TENDER DRAWING

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

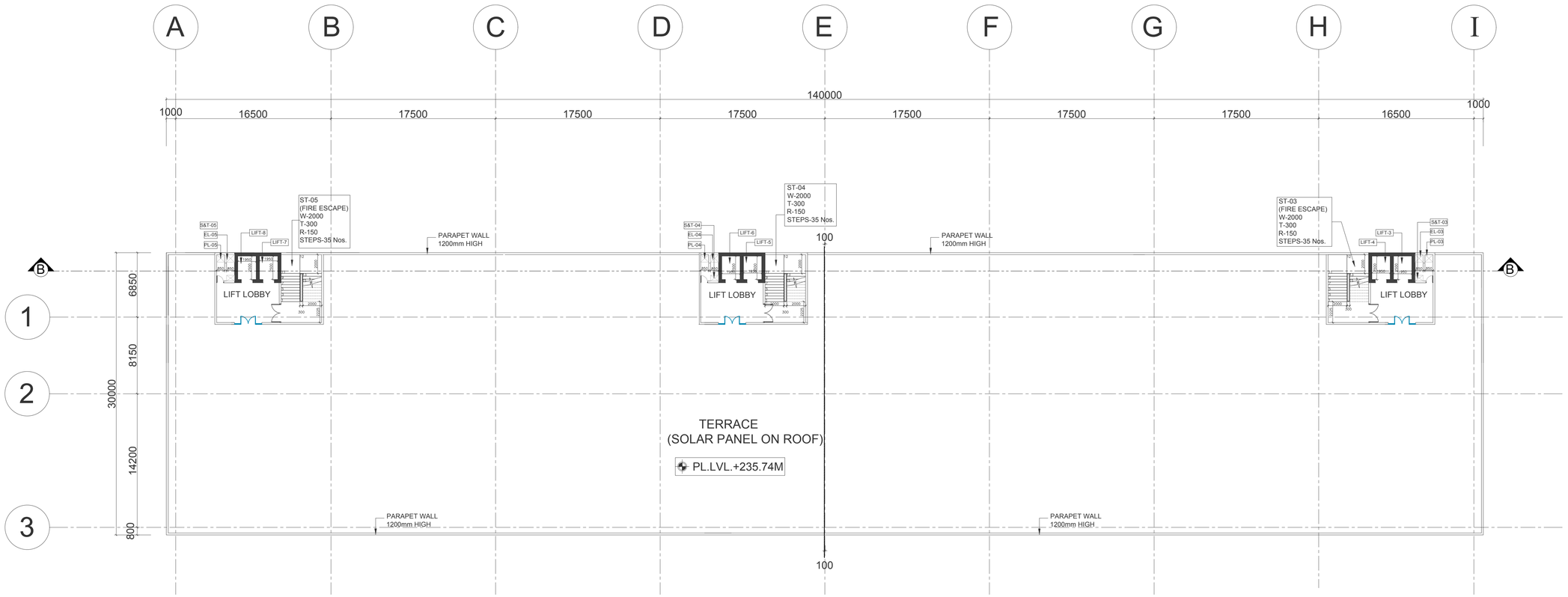
PD LEVEL PLAN(FUTURE PROPOSAL)
(TWO TYPICAL FLOORS)
TYPICAL STATION

SCALE N.T.S

DATE 11-09-2020

REV. R01

DRG. NO.: NGNDD-01-LKT-NMRC-ST-XX-TD-PD-AR-1004



TERRACE LEVEL PLAN

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

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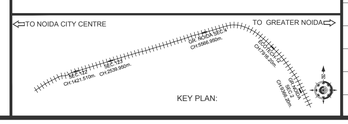

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
GM (D&P)		SDGM (P&T)		SDGM (S&T)	
MGR (TRACK)		GM (RS&E)		GM (S&T)	
SDGM (CIVIL)					
GM (Projects)					
CIVIL		MEP		S & T	

REVISIONS

NO.	DESCRIPTION	DATE	BY

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CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		11-09-2020
CHECKED BY	JANNU TYAGI		11-09-2020
DESIGNED BY	NAINA		11-09-2020
DRAWN BY	SHISHUPAL		

TENDER DRAWING

NOIDA METRO RAIL CORPORATION LTD.

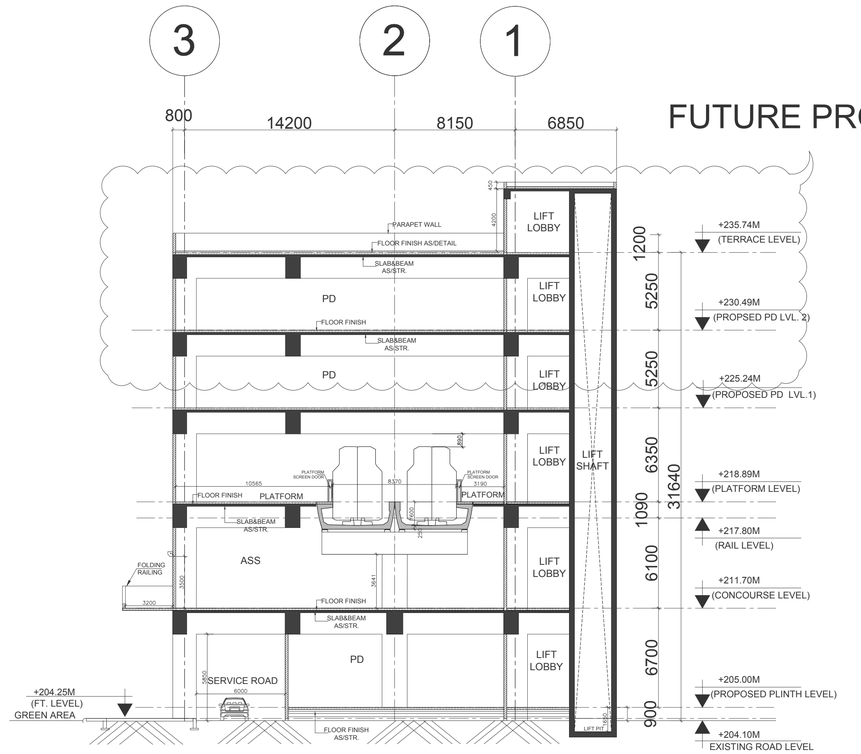
TITLE:

TERRACE LEVEL PLAN
TYPICAL STATION

SCALE	N.T.S
DATE	11-09-2020
REV.	R01

DRG. NO.:

NGNDD-01-LKT-NMRC-ST-XX-TD-TL-AR-1005



SECTION-A-A

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
i n f o @ l k t e n g i n e e r i n g . c o m

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

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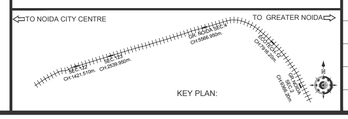

NO OBJECTION BY NMRC LTD.

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DGM (Design)		DGM (RS)		DGM (TEL)	
GM (D&P)		SDGM (P&T)		SDGM (S&T)	
MGR (TRACK)		GM (RS&E)		GM (S&T)	
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GM (Projects)					
CIVIL		MEP		S & T	

REVISIONS

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CONSORTIUM OF LKT ENGINEERING CONSULTANTS LTD. AND VASHIST INFRA ENGINEERING PVT. LTD.

	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		11-09-2020
CHECKED BY	JANNU TYAGI		11-09-2020
DESIGNED BY	NAINA		11-09-2020
DRAWN BY	SHISHUPAL		

TENDER DRAWING

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

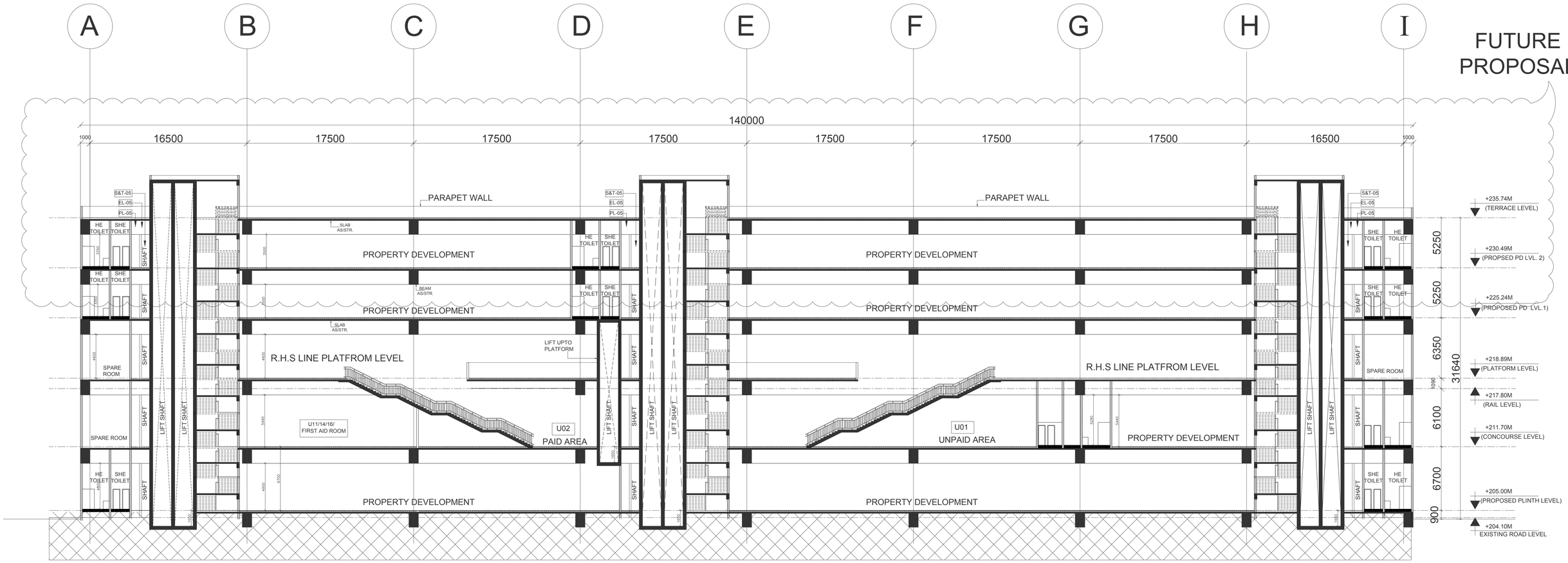
CROSS SECTION-A-A
TYPICAL STATION

SCALE N.T.S

DATE 11-09-2020

REV. R01

DRG. NO.:
NGNDD-01-LKT-NMRC-ST-XX-TD-SEC-AR-1006



SECTION-B-B

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-4 5 5 6 5 8 1 4 - 1 8
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

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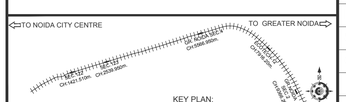

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REVISIONS

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PROJECT MGR	LOKESH TYAGI		11-09-2020
CHECKED BY	JANNU TYAGI		11-09-2020
DESIGNED BY	NAINA		11-09-2020
DRAWN BY	SHISHUPAL		

TENDER DRAWING

NOIDA METRO RAIL CORPORATION LTD.

TITLE:

LONGITUDINAL SECTION-B-B
TYPICAL STATION

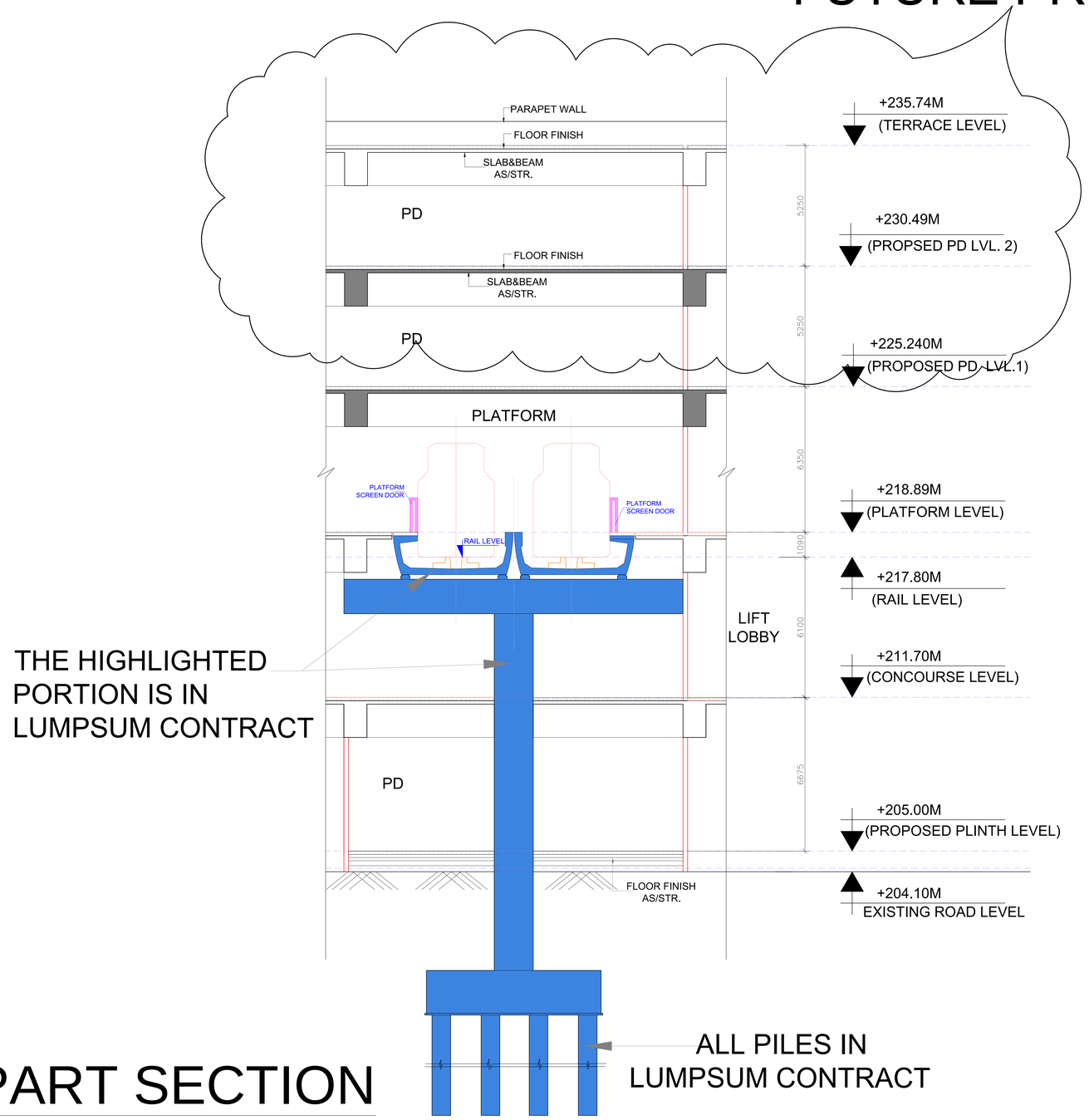
SCALE N.T.S

DATE 11-09-2020

REV. R01

DRG. NO.: NGNDD-01-LKT-NMRC-ST-XX-TD-SEC-AR-1007

FUTURE PROPOSAL



PART SECTION

CLIENT:

NOIDA METRO RAIL CORPORATION LTD.
Block-III, 3rd Floor,
Ganga Shopping Complex,
Sector-29, Noida 201301

CONSULTANT:

LKT ENGINEERING CONSULTANTS LTD.
FLAT NO. 75/288 SFS G-8-A
RAJOURI APPARTMENT, RAJOURI GARDEN
NEW DELHI-110064 Phone:+ 011-45565814-18
info@lktengineering.com

PROJECT:

CONTRACT No.NGNDD-01
ENGAGEMENT OF DETAILED DESIGN CONSULTANT (DDC) FOR CIVIL,ARCHITECTURAL AND E&M WORKS OF NOIDA-GREATER NOIDA METRO CORRIDOR FROM SECTOR-51 NOIDA TO GREATER NOIDA SECTOR-2,CONSISTING OF 9.605 KM VIADUCT INCLUDING 5 ELEVATED STATIONS

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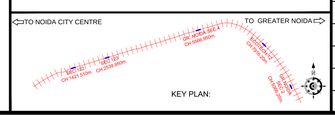

NO OBJECTION BY NMRC LTD.

MGR (Arch)		DGM (E&M)		DGM (S&T)	
DGM (Design)		DGM (RS)		DGM (TEL)	
GM (D&P)		SDGM (P&T)		SDGM (S&T)	
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REVISIONS

NO.	DESCRIPTION	DATE	BY

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	NAME	SIGNATURE	DATE
PROJECT MGR	LOKESH TYAGI		
CHECKED BY	JANNU TYAGI		
DESIGNED BY	NAINA		
DRAWN BY	SHISHUPAL		

TENDER DRAWING

NOIDA METRO RAIL CORPORATION LTD.

TITLE: PART SECTION

SCALE N.T.S

DATE 11-09-2020

REV. R01

DRG. NO.: NGNDD-01-LKT-NMRC-ST-XX-TD-SEC-AR-1008