



**GENERAL CONSULTANTS
MAHARASHTRA METRO RAIL CORPORATION LTD
(PUNE METRO RAIL PROJECT)**

L.No. GC/PMRP/PDO/TRK/DPO/2018/1770

Date: 19 -06-2018

Director Projects

Director(RS&S)

Maharashtra Metro Rail corporation Ltd

Maharashtra Metro Rail corporation Ltd

Metro House, 28/2, Anand Nagar

Metro House, 28/2, Anand Nagar

C.K.Naidu Road, Civil Lines

C.K.Naidu Road, Civil Lines

Nagpur-440001

Nagpur-440001

Subject: Track Plan R4 (Revision-4) for Pune Metro for Operation Requirements (Corridor 1&2)

- 1) Ref: 1) GC- L.No. GC/PMRP/PDO/TRK/DPO/2018/0492 dtd.11-01-2018, regarding submission of Track Plan R3 (revision-R3)
- 2) Ref:2) Maha- Metro- Ref.no Maha-metro - DRSS /Pune /Progress/2018/9379 dtd 13-06-2018, regarding additional crossover at Ideal colony- corridor-2.

Dear Sir,

Please find attached track plan R4 (Revision-4) for corridor-1 (NS corridor) and corridor-2 (EW corridor) which has been revised after detailed discussions and as suggested Vide letter Ref.2 above;

- 1) Drg.no PMRCL/PUNE/TRACK-PLAN/N-S /GC/2018/C1. REV4 Dated 18-06-2018 for corridor-1
- 2) Drg.no PMRCL/PUNE/TRACK-PLAN/E-W /GC/2018/C2.REV4 Dated 18-06-2018 for corridor-2
- 3) ANNEXURE-I (showing the revision details)

The template of the track plan has also been updated for the signature of the concerned department head.

For your perusal and kind approval please.

Yours Sincerely

Hukam Singh Chaudhary

Project Director

(GC) for PMRP

Attached: As above

ANNEXURE-I

(Details of Track Plan revision-4 Dtd. 18 -06-2018)

A) Corridor-1 (North-South Corridor)

Sr.no	Track Plan- R3			Revision R4			Revision -4- Remarks
	REFERENCE Point No. as per R3	TYPE as per R3	CHAINAGE as per R3	REFERENCE Point No. As per R4	TYPE as per R4	CHAINAGE as per R4	
1	P101	1IN9	-587.422	P101	1IN9 R300	-747.148	PCMC: Rear crossovers (no.1&2) type 1 in 9 R300 retained and relocated due to change in alignment at PCMC end.
2	P102	1IN9	-516.211	P102	1IN9 R300	-675.938	
3	P103	1IN9	-501.211	P103	1IN9 R300	-505.148	
4	P104	1IN9	-430.000	P104	1IN9 R300	-423.910	
5	P105	1IN9	250.000	P105	1IN9 R300	-247.889	PCMC: Front crossover type 1 in 9 R300 retained
6	P106	1IN9	178.789	P106	1IN9 R300	-176.688	
7	P107	1IN9	4684.583	P107	1IN9 R300	4645.997	Fugewadi: Front & Rear Crossover type 1 in 9 R300 retained
8	P108	1IN9	4755.794	P108	1IN9 R300	4717.208	
9	P109	1IN9	4935.795	P109	1IN9 R300	4938.303	
10	P110	1IN9	5007.006	P110	1IN9 R300	5009.514	
11	P111	1IN9	9334.879	P111	1IN9 R300	9356.810	Range Hill: Rear crossover type 1 in 9 R300 retained.
12	P112	1IN9	9406.090	P112	1IN9 R300	9428.010	
13	P113	1IN9	9760.000	P113	1IN9 R190	9765.165	Range Hill: To accommodate Auto wash Plant in straight, the front & depot crossover Type 1 in 9 R300 modified to 1 in 9 R190
14	P114	1IN9	9831.211	P114	1IN9 R190	9824.191	
15	P115	1IN9	9760.000	DP1	1IN9 R190	9765.165	
16	P116	1IN9	9831.211	DP3	1IN9 R190	55.929	
17	P117	1IN9	9846.211	DP2	1IN9 R190	9830.691	
18	P118	1IN9	9917.422	DP4	1IN9 R190	121.455	
19	P119	1IN9	9846.211	DP5	1IN9 R190	62.429	
20	P120	1IN9	9917.422	DP6	1IN9 R190	121.455	
	NULL POINT	-	10579.000	NULL POINT		10438.000	
21	P121	1IN9	12622.870	115	1IN7 R190	12622.868	Civil Court : As advised by Maha – Metro and to reduce the cost of NATUM type Tunnel, (as discussed on Phone with DRSS on 18-06-2018), the type of scissor crossover 1 in 9 R190 has been modified to 1in 7 R190
22	P122	1IN9	12622.870	116	1IN7 R190	12622.868	
23	P123	1IN9	12859.160	117	1IN7 R190	12759.160	
24	P124	1IN9	12859.160	118	1IN7 R190	12759.160	
25	P125	1IN9	16313.210	119	1IN7 R190	16287.724	Swargate: As advised by Maha – Metro to reduce the cost of NATUM type Tunnel, (as discussed on Phone with DRSS on 18-06-2018), the type of scissor crossover 1 in 9 R190 has been modified to 1in 7 R190
26	P126	1IN9	16313.210	120	1IN7 R190	16287.724	
27	P127	1IN9	16449.500	121	1IN7 R190	16448.000	
28	P128	1IN9	16449.500	122	1IN7 R190	16448.000	

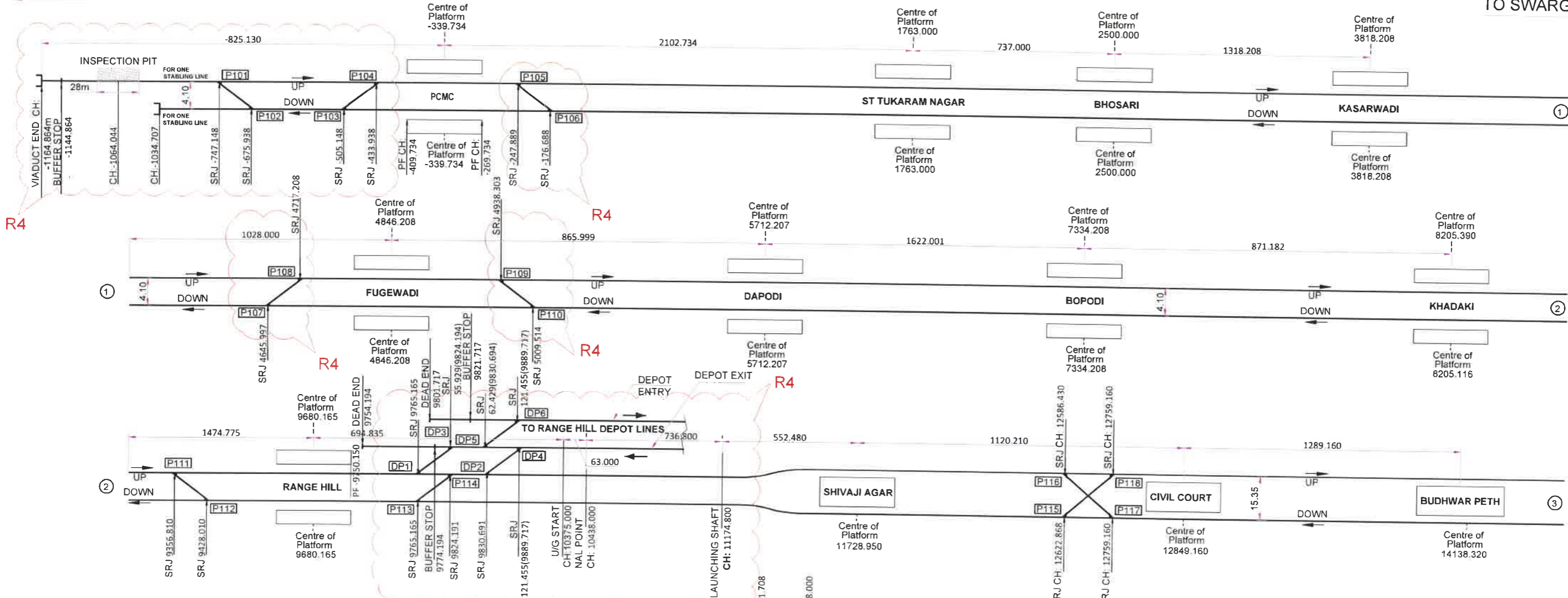
B) Corridor-2 (East- West Corridor)

Track Plan- R3				Revision R4			
Sr.no	REFERENCE Point No. As per R3	TYPE As per R3	CHAINAGE As per R3	REFERENCE Point No. As per R4	TYPE As per R4	CHAINAGE As per R4	Remarks
1	P101	1IN9	-574.545	P101	1IN9 R300	-542.62	Vanaz : Rear crossover no.2 type 1 in 9 R300 retained and relocated per due to change in alignment.
2	P102	1IN9	-503.335	P102	1IN9 R300	-471.41	
3	DP01	1IN9	-459.006	DP1	1IN7 R190	0	Depot turnout type 1 in 9 R190 modified to 1 in 7 R190 & R140 to accommodate isolation track.
4	DP02	1IN9	-330.181	DP2	1IN7 R140	-209.156	
5	-	-	-	DP3	1IN9 R190	68.83	Additional turnouts provided for Depot isolation track
6	-	-	-	DP4	1IN9 R190	148.962	
7	-	-	-	DP5	1IN9 R190	82.023	
8	P103	1IN9	-404.172	P103	1IN9 R190	-141.67	Vanaz :Rear crossover no.1 type 1 in 9 R300 modified to 1 in 9 R190 and relocated as per revised alignment.
9	P104	1IN9	-332.962	P104	1IN9 R190	-201.236	
10	P105	1IN9	64.899	P105	1IN9 R300	114.3	Vanaz : Front crossover type 1 in 9 R300 retained and relocated as per revised alignment/
11	P106	1IN9	136.11	P106	1IN9 R300	185.511	
12	-	-	-	P106a	1IN9 R190	2064.269	Ideal Colony : Additional cross over 1 in 9 R190 provided as per Maha Metro letter dtd 13 -06 - 2018
13	-	-	-	P106b	1IN9 R190	2123.295	
14	P107	1IN9	4811.377	P107	1IN9 R300	4820.997	Deccan : Front cross over retained
15	P108	1IN9	4882.587	P108	1IN9 R300	4892.208	
16	P109	1IN9	6464.932	P109	1IN9 R300	6452.441	Civil Court : Rear and front crossovers retained.
17	P110	1IN9	6536.185	P110	1IN9 R300	6523.652	
18	P111	1IN9	6706.312	P111	1IN9 R300	6706.312	
19	P112	1IN9	6777.565	P112	1IN9 R300	6777.565	Managlwar peth : Front cross over type retained
20	Pocket Track1	1IN9	7620.994	P113	1IN9 R300	7623.998	
21	Pocket Track2	1IN9	7692.158	P114	1IN9 R300	7695.208	
22	Pocket Track3	1IN9	7698.659	P115	1IN9 R190	7701.708	Pocket track : crossover type 1 in 9 R300 modified to 1 in 9 R190 to accommodate isolation track.
23	Pocket Track4	1IN9	Nil	P116	1IN9 R190	7786.834	
24	P113	1IN9	8874.287	P117	1IN9 R300	8862.91	Ruby Clinic : Rear crossover retained.
25	P114	1IN9	8945.483	P118	1IN9 R300	8934.12	
26	P115	1IN9	13053.48	P119	1IN9 R300	13049.44	Ramawadi : Rear crossover type retained and relocated as per revised alignment
27	P116	1IN9	13124.68	P120	1IN9 R300	13120.65	
28	P117	1IN9	13499.28	P121	1IN9 R300	13668.47	Ramawadi : Front crossover (no.1&2) type retained and relocated as per revised alignment
29	P118	1IN9	13570.49	P122	1IN9 R300	13739.68	
30	P119	1IN9	13924.95	P123	1IN9 R300	13899.7	
31	P120	1IN9	13996.15	P124	1IN9 R300	13970.91	

TO PCMC

Pune Metro Rail Project Schematic Route Map of North-South Corridor-1

TO SWARGATE



Schedule of Main Line Turnouts

Ref. No.	TYPE	Viaduct C/L Chainage	Easting / Northing
P101	1IN9 R300	-747.148	373513.919
P102	1IN9 R300	-675.938	373554.642
P103	1IN9 R300	-505.148	373660.828
P104	1IN9 R300	-423.910	373708.553
P105	1IN9 R300	-247.889	373824.968
P106	1IN9 R300	-176.688	373866.293
P107	1IN9 R300	4645.997	376598.047
P108	1IN9 R300	4717.208	376629.731
P109	1IN9 R300	4938.303	376716.388
P110	1IN9 R300	5009.514	376740.528
P111	1IN9 R300	9356.810	378129.216
P112	1IN9 R300	9428.010	378141.947
P113	1IN9 R190	9765.165	378213.310
P114	1IN9 R190	9824.191	378233.980
DP1	1IN9 R190	9765.165	378217.296
DP3	1IN9 R190	55.929	378237.958
DP2	1IN9 R190	9830.691	378237.504
DP4	1IN9 R190	121.455	378258.173
DP5	1IN9 R190	62.429	378241.489
DP6	1IN9 R190	121.455	378262.151
NAL POINT		378405.910	2050736.130
115	1IN7 R190	12622.868	-
116	1IN7 R190	12622.868	-
117	1IN7 R190	12759.160	379271.148
118	1IN7 R190	12759.160	379275.031
119	1IN7 R190	16311.708	-
120	1IN7 R190	16311.708	-
121	1IN7 R190	16448.000	379389.867
122	1IN7 R190	16448.000	379404.901

SR NO.	STATION	CHAINAGE	ELEVATION	LENGTH
REACH-1-ELEVATED (-1164.864 TO 10375)				
0	DEAD END	-1164.864	0.000	0.000
1	PCMC	-339.734	588.000	825.130
2	SANT TUKARAM NAGAR	1763.000	577.679	2102.734
3	BHOSARI	2500.000	577.850	737.000
4	KASARWADI	3818.208	575.667	1318.208
5	FUGEWADI	4846.208	570.250	1028.000
6	DAPODI	5712.207	573.600	865.999
7	BOPODI	7334.208	571.850	1622.001
8	KHADAKI	8205.390	581.500	871.182
9	RANGE HILL	9680.165	571.100	1474.775
10	END OF SCOPE	10375.000	571.100	694.835
REACH-4-UNDERGROUND (10375 TO 16825)				
	U/G START OF SCOPE	10375.000	571.000	0.000
11	SHIVAJI NAGAR	11728.950	534.000	1353.950
12	CIVIL COURT	12849.160	522.000	1120.210
13	BUDHWAR PETH	14138.320	528.400	1289.160
14	MANDAI	15001.900	538.800	863.580
15	SWARGATE	16538.000	550.000	1536.100

NOTE:
 1. Viaduct center line chainages mentioned in the drawing are tentative and may change after detailed planning, design and GAD. Only approved final GAD (Viaduct) shall be referred for detailed design of other systems, like track plinth, OHE and Signalling etc.
 2. Location of Scissor Cross overs and Stations at "UG Section" are as per interface drawing dated 03.01.2018

R4 Updated with a) Elevated Inspection Pit
 b) Revised alignment at PCMC end
 c) Revised vertical alignment at start of UG section (Structural Design & GAD under revision)

R3 Range hill station has been shifted longitudinally 68.89m towards depot end as suggested by Metro Expert committee on dated 01.12.2017

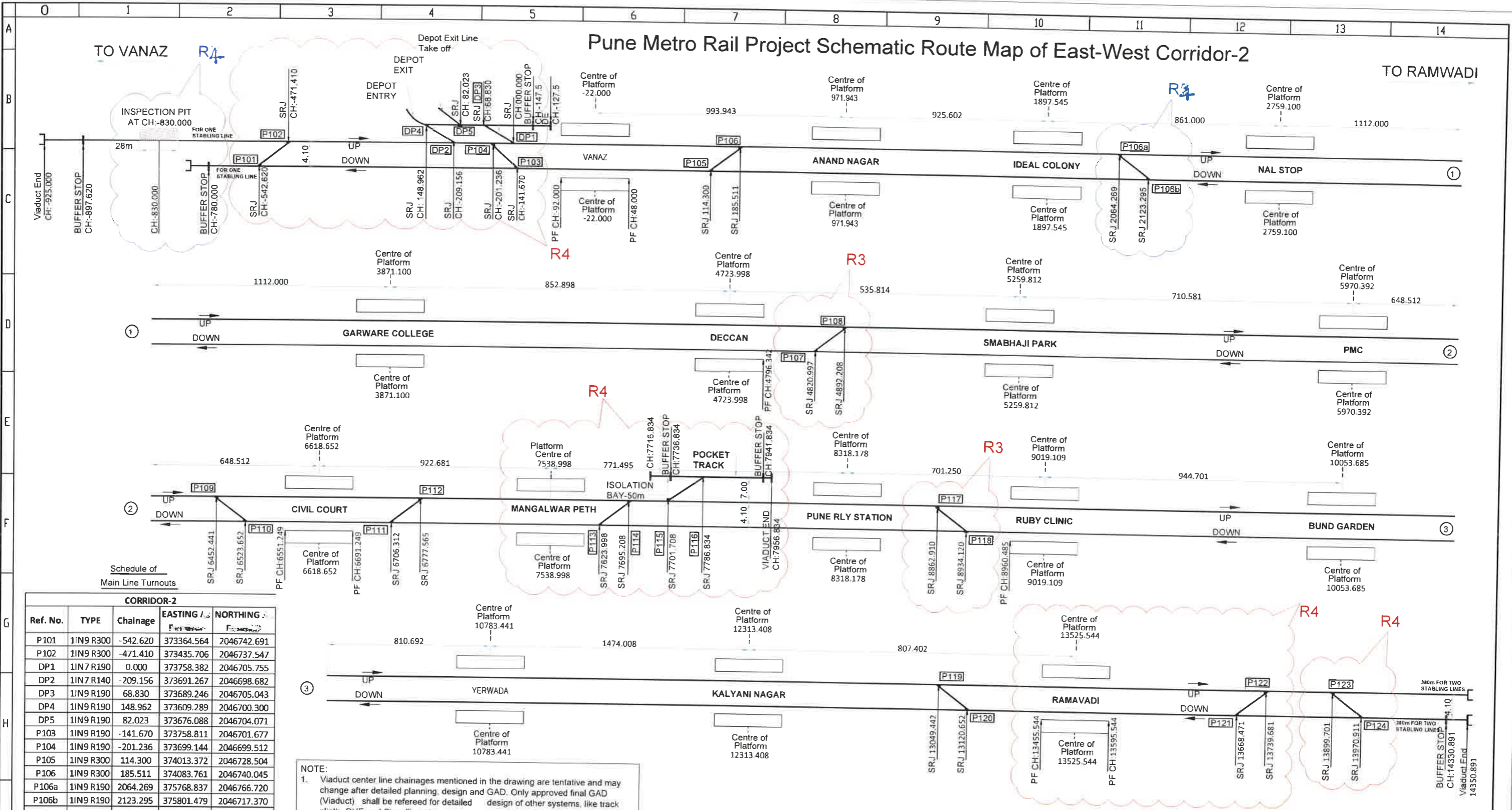
R2 Track plan has been submitted for approval to Maha Metro on dated 17.10.2017

R1 Track plan has been submitted for approval to Maha Metro on dated 10.10.2017

MAHARASHTRA METRO RAIL CORPORATION LTD.
(PUNE METRO RAIL PROJECT)

TRW	S & TC	RS 19/06	OHE	INTER FACE
GM/Ping/Pune	CPM/S&T	GM/Systems/Pune	CPM/TRD	ED/RS
TITLE : TRACK PLAN FOR PUNE METRO RAIL PROJECT (PCMC-SWARGATE CORRIDOR-1) Dwg. No. :- PMRCL/PUNE/TRACK-PLAN/N-S/GC/2018/C1				
Director/Projects	Director/RS&S	REV. R4	SHEET 1 OF 1	SCALE NOT TO SCALE
				DATE 18.06.2018

Pune Metro Rail Project Schematic Route Map of East-West Corridor-2



Schedule of Main Line Turnouts

CORRIDOR-2				
Ref. No.	TYPE	Chainage	EASTING	NORTHING
P101	1IN9 R300	-542.620	373364.564	2046742.691
P102	1IN9 R300	-471.410	373435.706	2046737.547
DP1	1IN7 R190	0.000	373758.382	2046705.755
DP2	1IN7 R140	-209.156	373691.267	2046698.682
DP3	1IN9 R190	68.830	373689.246	2046705.043
DP4	1IN9 R190	148.962	373609.289	2046700.300
DP5	1IN9 R190	82.023	373676.088	2046704.071
P103	1IN9 R190	-141.670	373758.811	2046701.677
P104	1IN9 R190	-201.236	373699.144	2046699.512
P105	1IN9 R300	114.300	374013.372	2046728.504
P106	1IN9 R300	185.511	374083.761	2046740.045
P106a	1IN9 R190	2064.269	375768.837	2046766.720
P106b	1IN9 R190	2123.295	375801.479	2046717.370
P107	1IN9 R300	4820.997	378074.981	2047782.645
P108	1IN9 R300	4892.208	378112.933	2047843.040
P109	1IN9 R300	6452.441	379347.441	2048717.927
P110	1IN9 R300	6523.652	379391.277	2048774.196
P111	1IN9 R300	6706.312	379493.660	2048922.473
P112	1IN9 R300	6777.565	379530.705	2048983.428
P113	1IN9 R300	7623.998	380303.290	2049207.370
P114	1IN9 R300	7695.208	380374.280	2049214.360
P115	1IN9 R190	7701.708	380380.770	2049214.620
P116	1IN9 R190	7786.834	380465.350	2049225.070
P117	1IN9 R300	8862.910	381448.460	2049400.400
P118	1IN9 R300	8934.120	381503.950	2049445.230
P119	1IN9 R300	13049.442	384439.050	2051912.809
P120	1IN9 R300	13120.652	384505.920	2051937.390
P121	1IN9 R300	13668.471	384953.790	2052246.600
P122	1IN9 R300	13739.681	385014.580	2052283.910
P123	1IN9 R300	13899.701	385162.030	2052346.040
P124	1IN9 R300	13970.911	385230.520	2052365.950

NOTE:
 1. Viaduct center line chainages mentioned in the drawing are tentative and may change after detailed planning, design and GAD. Only approved final GAD (Viaduct) shall be referred for detailed design of other systems, like track plinth, OHE and Signalling etc.
 2. Location of Scissor Cross overs and Stations at "UG Section" are as per interface drawing dated 03.01.2018

Sr. No.	STATION NAME	CHAINAGE	ELEVATION
01	VANAZ	-22.000	607.000
02	ANAND NAGAR	971.943	596.300
03	IDEAL COLONY	1897.545	589.900
04	NAL STOP	2759.100	583.200
05	GARWARE COLLEGE	3871.100	569.000
06	DECCAN	4723.998	563.200
07	SAMBHAJI PARK	5259.812	563.200
08	PMC	5970.392	563.500
09	CIVIL COURT	6618.652	563.500
10	MANGALWAR PETH	7538.998	566.400
11	PUNE RLY STATION	8318.178	569.300
12	RUBY CLINIC	9019.109	569.600
13	BUND GARDEN	10053.685	564.000
14	YERWADA	10783.441	563.300
15	KALYANI NAGAR	12313.408	572.000
16	RAMWADI	13525.544	579.650

R4 Additional X-Over has been provided at Ideal Colony & Elevated Inspection pit at Vanaz end as per Maha-Metro Letter Ref. no.Maha-Metro/DRSS/Pune/Progress/2018/9379 dated. 13.06.2018

R3 X-Over locations has been shifted as per revised alignment and Isolation Track (structural design and GAD under revision)

R3 a) X-Over locations has been shifted as per revised alignment on dated 01.12.2017
 b) Pocket track- Option-1 has been proposed at Mangalwar peth

R2 Track plan has been submitted for approval to Maha Metro on dated 17.10.2017

R1 Track plan has been submitted for approval to Maha Metro on dated 10.10.2017

MAHARASHTRA METRO RAIL CORPORATION LTD.

(PUNE METRO RAIL PROJECT)

TRW	S&T	RS	OHE	INTER FACE
GM/Plng/Pune	CPMS&T	GM/Systems/Pune	CPM/TRD	ED/RS
ED/RS	ED/SP			

TITLE : TRACK PLAN FOR PUNE METRO RAIL PROJECT (VANAZ- RAMVADI CORRIDOR-2)

Dwg. No. :- PMRCL/PUNE/TRACK-PLAN/GC/2017/C2

REV. R4	SHEET 1 OF 1	SCALE NOT TO SCALE.	DATE 18.06.2018
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