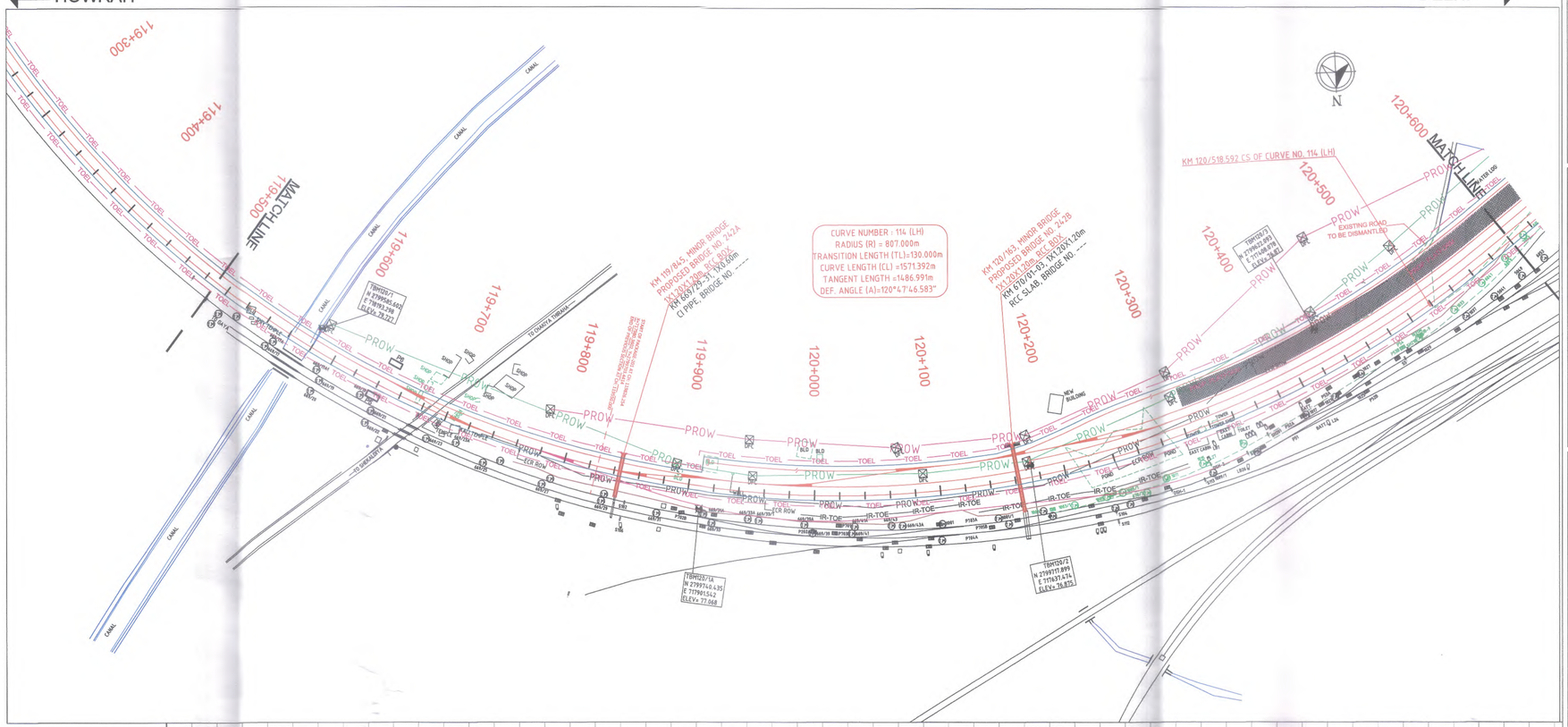
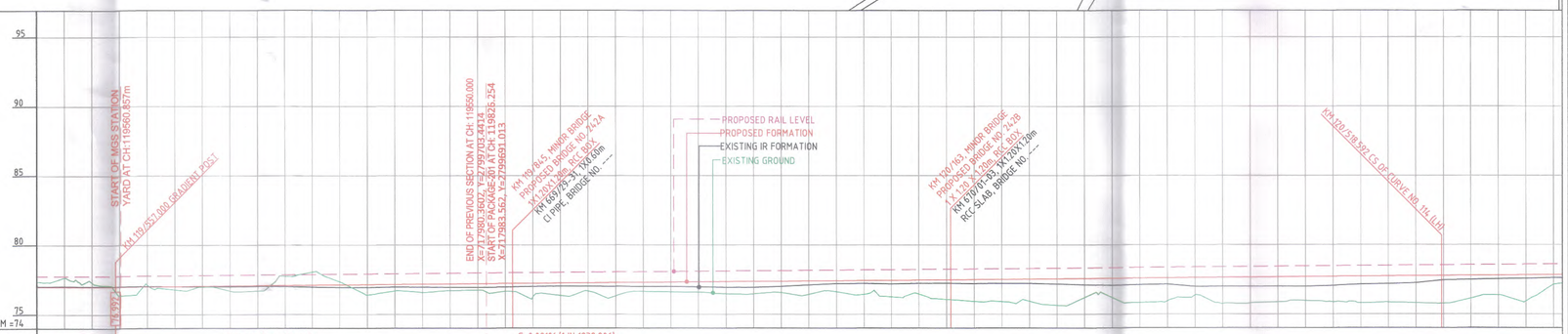
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

Chainage CH- 119500 CH- 120600

SECTION-CP-201

HOWRAH ← → DELHI



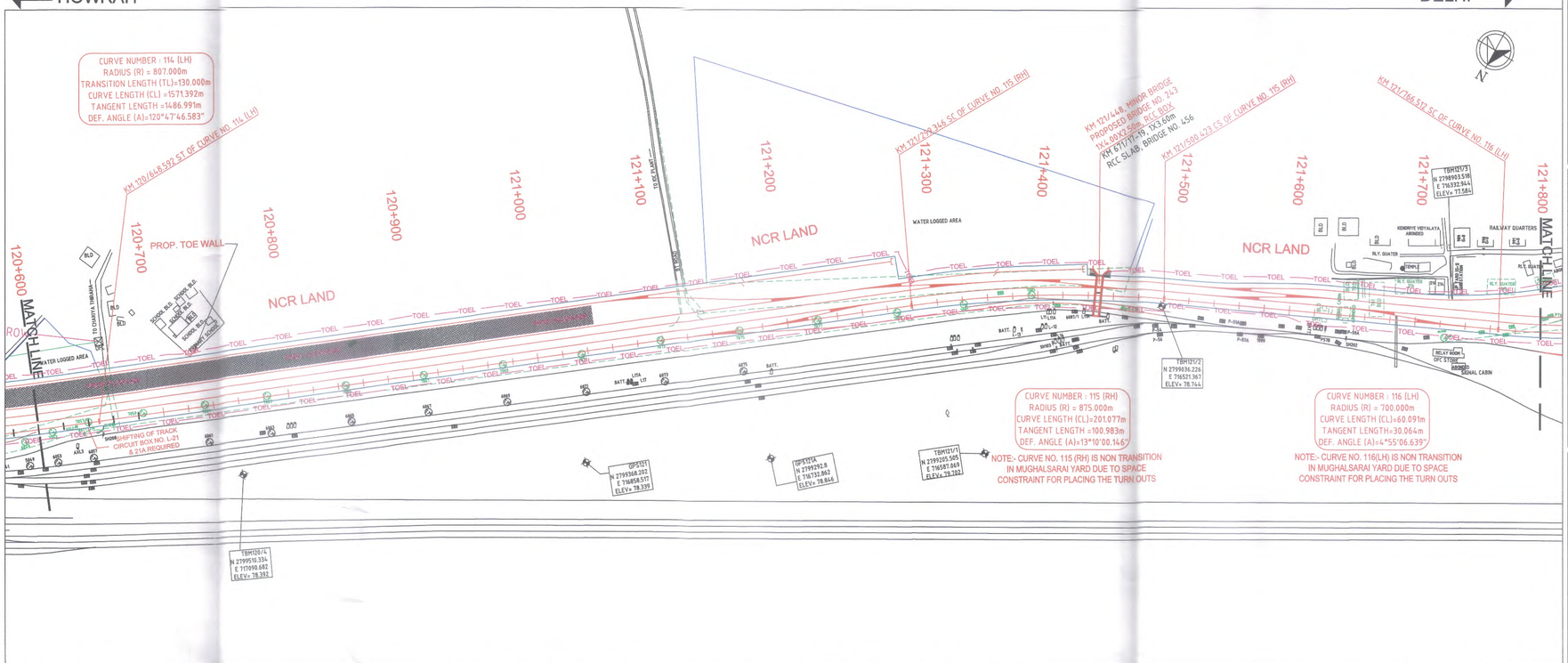


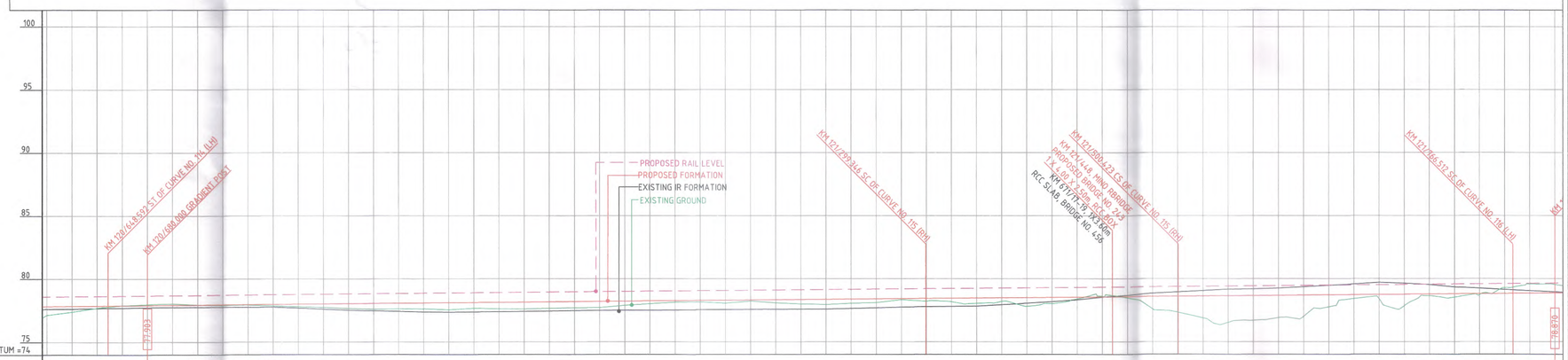
| | | |

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

Chainage CH- 120600 CH- 121800

HOWRAH ← → DELHI





VERTICAL ALIGNMENT	G=0.081% (1 IN 1232.806) L=1123.000m; G=0.086% (1 IN 1158.221) L=1120.000m; G=0.086% (1 IN 1158.221) L=1120.000m; G=0.086% (1 IN 1158.221) L=1120.000m; G=0.086% (1 IN 1158.221) L=1120.000m
HORIZONTAL ALIGNMENT	L =650.754m; L =650.754m; R=875.000m L=201.077m; L=266.089m; R=-700m L=60.091m
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	
DIST. BETWEEN EX. IR NEAREST TRACK & PROPOSED DFC TRACK AS PER DESIGN	16.048 12.533 11.071 10.645 10.632 10.872 11.149 11.386 11.555 11.724 11.918 12.115 12.312 12.492 12.668 12.844 13.019 13.192 13.364 13.547 13.739 13.931 14.103 14.266 14.431 14.593 14.731 14.869 15.008 15.148 15.288 15.428 15.541 15.650 15.758 15.880 15.769 15.209 14.829 14.047 12.812 12.389 11.733 -0.054 0.095 14.124 16.217 17.792 18.058 17.831 17.234 16.940 16.921 17.407 17.974 18.500 18.321 17.166 14.561 12.424 11.753 13.057 15.171
FILL (+)/ CUT (-)	0.692 0.444 0.160 -0.019 -0.089 -0.122 -0.008 0.036 0.022 0.127 0.197 0.277 0.375 0.453 0.450 0.465 0.557 0.455 0.525 0.539 0.516 0.488 0.496 0.336 0.220 0.114 0.123 0.235 0.235 0.084 0.241 0.341 0.415 0.331 0.294 0.078 0.221 0.270 0.422 0.279 0.693 0.479 0.137 -0.054 0.095 0.987 1.265 1.740 2.107 1.960 1.755 1.679 0.947 0.320 0.343 0.905 0.137 0.261 0.882 -0.458 -0.721 -0.671
PROPOSED FORMATION LEVELS	77.838 77.854 77.871 77.887 77.903 77.920 77.938 77.955 77.972 77.989 78.007 78.024 78.041 78.058 78.076 78.093 78.110 78.127 78.145 78.162 78.179 78.197 78.214 78.231 78.248 78.266 78.283 78.300 78.317 78.335 78.352 78.369 78.386 78.404 78.421 78.438 78.456 78.473 78.490 78.507 78.525 78.542 78.559 78.576 78.594 78.611 78.628 78.646 78.663 78.680 78.697 78.715 78.732 78.749 78.766 78.784 78.801 78.818 78.835 78.853 78.870
EXIST. IR FORMATION LEVELS	77.613 77.632 77.677 77.706 77.737 77.746 77.754 77.760 77.762 77.762 77.688 77.606 77.522 77.467 77.420 77.371 77.355 77.371 77.389 77.414 77.446 77.479 77.491 77.499 77.506 77.515 77.534 77.551 77.568 77.577 77.584 77.590 77.636 77.691 77.746 77.778 77.799 77.821 77.939 78.062 78.188 78.332 78.537 78.680 78.840 78.947 79.050 79.174 79.190 79.249 79.359 79.469 79.576 79.698 79.636 79.521 79.340 79.242 79.144 79.046 78.952
GROUND LEVELS	77.746 77.410 77.711 77.906 77.992 78.042 77.946 77.959 77.950 77.862 77.804 77.747 77.666 77.605 77.626 77.628 77.553 77.612 77.620 77.623 77.663 77.709 77.718 77.895 78.028 78.152 78.160 78.065 78.233 78.094 78.011 78.056 78.110 78.343 78.217 78.185 78.051 78.211 78.814 78.046 78.404 78.614 78.481 77.607 77.345 76.889 76.538 76.703 76.926 77.018 77.768 78.429 78.406 78.862 78.646 78.540 78.736 79.293 79.574 79.541
CHAINAGE	120600 120620 120640 120660 120680 120700 120720 120740 120760 120780 120800 120820 120840 120860 120880 120900 120920 120940 120960 120980 121000 121020 121040 121060 121080 121100 121120 121140 121160 121180 121200 121220 121240 121260 121280 121300 121320 121340 121360 121380 121400 121420 121440 121460 121480 121500 121520 121540 121560 121580 121600 121620 121640 121660 121680 121700 121720 121740 121760 121780 121800
THROUGH CHAINAGE	

Asstt. Project Manager
Dedicated Freight Corridor
Corporation of India Ltd.
(A.P.S.U. Under Min. of Railway)
Allahabad (East)

Project Manager
Dedicated Freight Corridor
Corporation of India Ltd.
(A.P.S.U. Under Min. of Railway)
Allahabad (East)

CHIEF GENERAL MANAGER
Dedicated Freight Corridor
Corporation of India Ltd.
(A.P.S.U. Under Min. of Railway)
ALLAHABAD (East)

SECTION-CP-201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW — PROW — DFCC ROW LINE
- IR-TOE — IR-TOE — EXISTING IR TOE LINE
- TOEL — TOEL — DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES,HT/LT LINES,ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER : DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE : ALIGNMENT PLAN & PROFILE
FROM KM. 120/600 TO KM. 121/800

DRAWING NO.	SIZE	REV	SCALE
P 2 AL 0 0 0 2	A1	G	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
D	25/04/2017	INCORPORATED BASED ON APPROVED YARD PLAN REV-F
E	06/12/2017	CHANGE IN VERTICAL TO MEET FL OF ROB 247 & BR. 244, 245
F	21/06/2018	LTR NO.PMCS/EDFC2/LTT/2018/01315 COMMENTS INCORPORATED
G	10/07/2019	HORIZONTAL ALIGNMENT MATCHING WITH CGM MGS PACKAGE

DRAWING STAGE

☑ FOR APPROVAL
☐ GOOD FOR CONSTRUCTION

PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.
REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.
OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	23.07.19	T.C	
CHKD.			
APPD.	24.07.19	S. MITRA	

SUBMITTED BY GIL-SIL JV

	DATE	NAME	SIGN.
CHKD.	25.07.19	REEPAK GUPTA	
APPD.	25.07.19	NISHEETH K SINGH	

NOC BY SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	31.07.2019	ANURANJAN PRASAD	
NOC	31.07.19	P. Amerikanos	

APPROVAL BY DFCC

	DATE	NAME	SIGN.
CHKD.			
APPD.			

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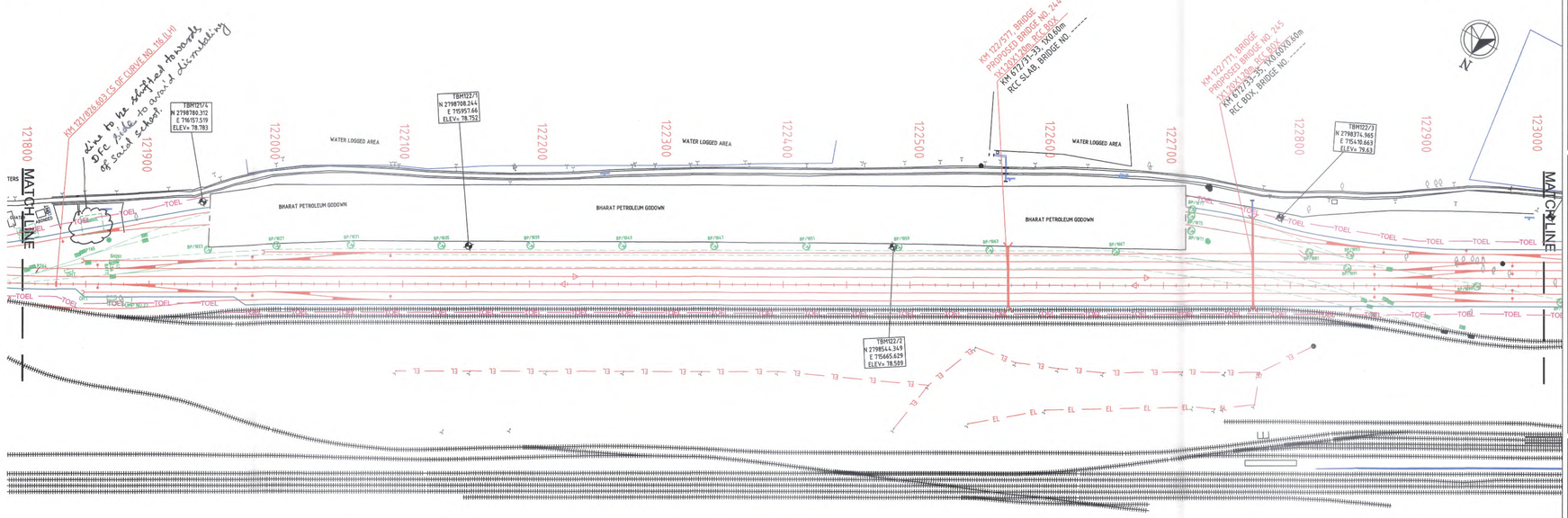
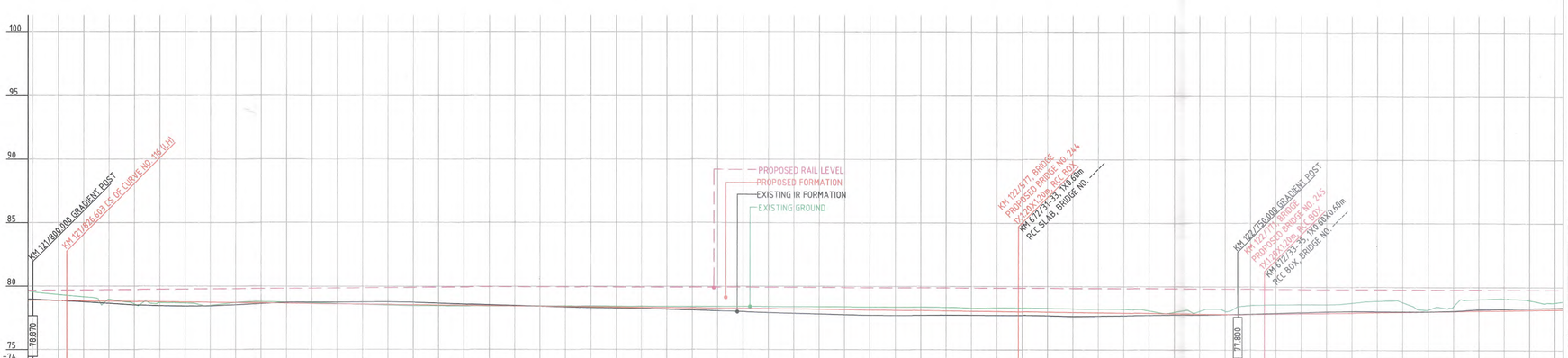
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

Chainage CH- 121800 CH- 123000

HOWRAH ← → DELHI





VERTICAL: G=-0.113 L=950.000m; G=-0.113 L=950.000m; G=-0.113 L=950.000m; G=0.163 L=710.000m

HORIZONTAL: R=-700.m; L=60.093m; L=1400.097m; L=1400.097m; L=1400.097m

Chainage	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	DIST. BETWEEN EX. IR NEAREST TRACK & PROPOSED DFC TRACK AS PER DESIGN	FILL (-)/ CUT (-)	PROPOSED FORMATION LEVELS	EXIST. IR FORMATION LEVELS	GROUND LEVELS
121800		15.171	-0.671	78.870	78.952	79.541
121820		17.886	-0.482	78.847	78.857	79.330
121840		21.017	-0.331	78.825	78.761	79.156
121860		23.822	-0.152	78.802	78.650	78.955
121880		25.555	0.190	78.780	78.520	78.590
121900		26.248	0.068	78.757	78.449	78.690
121920		25.128	0.077	78.735	78.418	78.657
121940		23.338	0.243	78.712	78.439	78.469
121960		21.172	-0.008	78.690	78.525	78.698
121980		20.323	-0.107	78.667	78.619	78.775
122000		19.988	-0.096	78.645	78.717	78.740
122020		19.840	-0.073	78.622	78.749	78.696
122040		19.758	-0.037	78.600	78.756	78.637
122060		19.676	0.014	78.577	78.762	78.563
122080		19.594	0.041	78.555	78.770	78.513
122100		19.550	0.064	78.532	78.735	78.488
122120		19.533	0.047	78.510	78.670	78.462
122140		19.517	0.031	78.487	78.604	78.457
122160		19.500	0.013	78.465	78.538	78.452
122180		19.491	-0.005	78.442	78.481	78.446
122200		19.482	-0.021	78.419	78.423	78.441
122220		19.473	-0.039	78.397	78.365	78.436
122240		19.464	-0.056	78.374	78.308	78.430
122260		19.479	-0.073	78.352	78.280	78.425
122280		19.497	-0.090	78.329	78.255	78.420
122300		19.482	-0.108	78.307	78.195	78.414
122320		19.458	-0.124	78.284	78.126	78.409
122340		19.434	-0.142	78.262	78.056	78.404
122360		19.410	-0.159	78.239	77.985	78.398
122380		19.387	-0.176	78.217	77.919	78.393
122400		19.368	-0.193	78.194	77.863	78.388
122420		19.348	-0.211	78.172	77.807	78.382
122440		19.328	-0.227	78.149	77.751	78.377
122460		19.308	-0.245	78.127	77.719	78.372
122480		19.288	-0.262	78.104	77.708	78.366
122500		19.269	-0.279	78.082	77.708	78.361
122520		19.249	-0.289	78.059	77.729	78.349
122540		19.245	-0.253	78.037	77.732	78.289
122560		19.249	-0.291	78.014	77.724	78.305
122580		19.253	-0.302	77.991	77.718	78.294
122600		19.199	-0.297	77.969	77.684	78.266
122620		19.077	-0.289	77.946	77.632	78.236
122640		19.061	-0.301	77.924	77.666	78.225
122660		19.045	-0.311	77.901	77.701	78.213
122680		19.014	-0.201	77.879	77.731	78.079
122700		18.970	-0.116	77.856	77.753	77.973
122720		18.925	-0.231	77.834	77.775	78.065
122740		18.875	-0.253	77.811	77.803	78.065
122760		18.795	-0.718	77.816	77.849	78.535
122780		18.140	-0.738	77.849	77.907	78.587
122800		19.238	-0.743	77.882	77.979	78.624
122820		20.337	-0.716	77.914	78.047	78.630
122840		22.310	-0.794	77.947	78.085	78.741
122860		24.998	4.309	77.979	78.057	32.671
122880		27.937	-0.783	78.012	78.050	78.795
122900		31.075	-0.151	78.045	78.066	78.996
122920		34.634	-0.410	78.077	78.118	78.487
122940		37.967	-0.921	78.110	78.231	79.031
122960		40.679	-0.932	78.143	78.271	79.075
122980		42.485	-0.781	78.175	78.328	78.957
123000		43.150	-0.565	78.208	78.353	78.773

CHAINAGE: 121800, 121820, 121840, 121860, 121880, 121900, 121920, 121940, 121960, 121980, 122000, 122020, 122040, 122060, 122080, 122100, 122120, 122140, 122160, 122180, 122200, 122220, 122240, 122260, 122280, 122300, 122320, 122340, 122360, 122380, 122400, 122420, 122440, 122460, 122480, 122500, 122520, 122540, 122560, 122580, 122600, 122620, 122640, 122660, 122680, 122700, 122720, 122740, 122760, 122780, 122800, 122820, 122840, 122860, 122880, 122900, 122920, 122940, 122960, 122980, 123000

Dy Chief Project Manager (Eng)
Dedicated Freight Corridor
Corporation of India Ltd.
(A.P.S.U. Under Min. of Railway)
ALLAHABAD (East)

CHIEF PROJECT MANAGER
DEDICATED FREIGHT CORRIDOR
CORPORATION OF INDIA LTD.
(A P.S.U. under Ministry of Railways)
Allahabad

SECTION-CP-201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW — PROW — DFCC ROW LINE
- IR-TOE — IR-TOE — EXISTING IR TOE LINE
- TOEL — TOEL — DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES,HT/LT LINES,ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

NOTE:-
TO SAVE THE SCHOOL BUILDING AT KM. 121+740 THE TEMPLE AT START OF ALIGNMENT AT KM. 119+700 NEED TO BE RELOCATED. SAME HAS BEEN SHOWN TENDER DRAWING ALSO.

EMPLOYER : DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE : ALIGNMENT PLAN & PROFILE FROM KM. 121/800 TO KM. 123/000

DRAWING NO.	SIZE	REV	SCALE
P 2 AL 0 0 0 3	A1	E	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
B	27/06/2016	Ltr No.PMCS/EDFC2/LTT/2016/00556 Comments Incorporated
C	30/08/2016	Ltr No.PMCS/EDFC2/LTT/2016/02496 Comments Incorporated
D	25/04/2017	INCORPORATED BASED ON APPROVED YARD PLAN REV-F
E	06/12/2017	CHANGE IN VERTICAL TO MEET FL OF ROB 247 & BR. 244, 245

DRAWING STAGE

- [x] FOR APPROVAL
- [ ] GOOD FOR CONSTRUCTION

PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd. 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021. OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	06/12/2017	TC	
CHKD.	06/12/2017		
APPD.	06/12/2017	S. MITRA	

SUBMITTED BY GIL-SIL JV

	DATE	NAME	SIGN.
CHKD.	13/06/2018	Deepak Gupta	
APPD.	13/06/2018	R.S.P. SINGH	

NOC BY SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	21/06/2018	ANURANJAN PRASAD	
NOC	21/06/2018	P. AMERIKANDS	

APPROVAL BY DFCC

	DATE	NAME	SIGN.
CHKD.			
APPD.			

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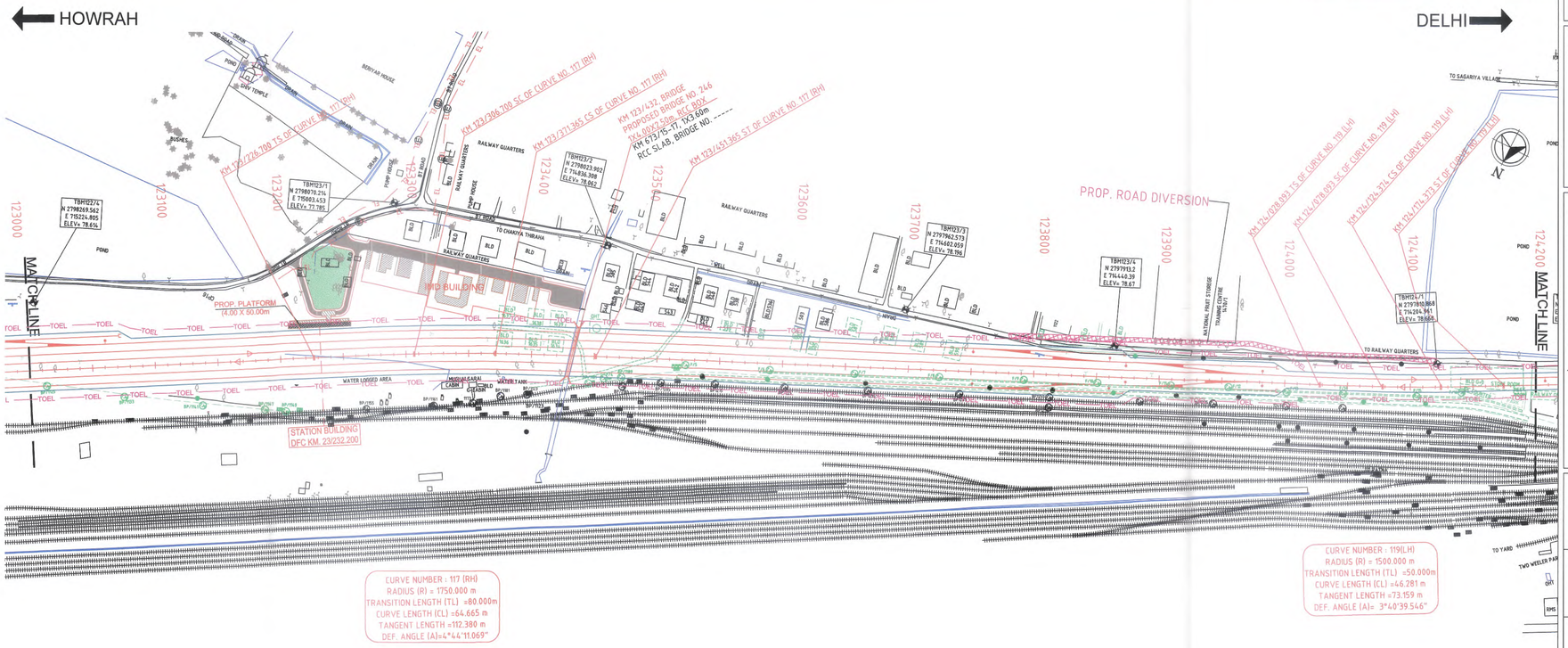

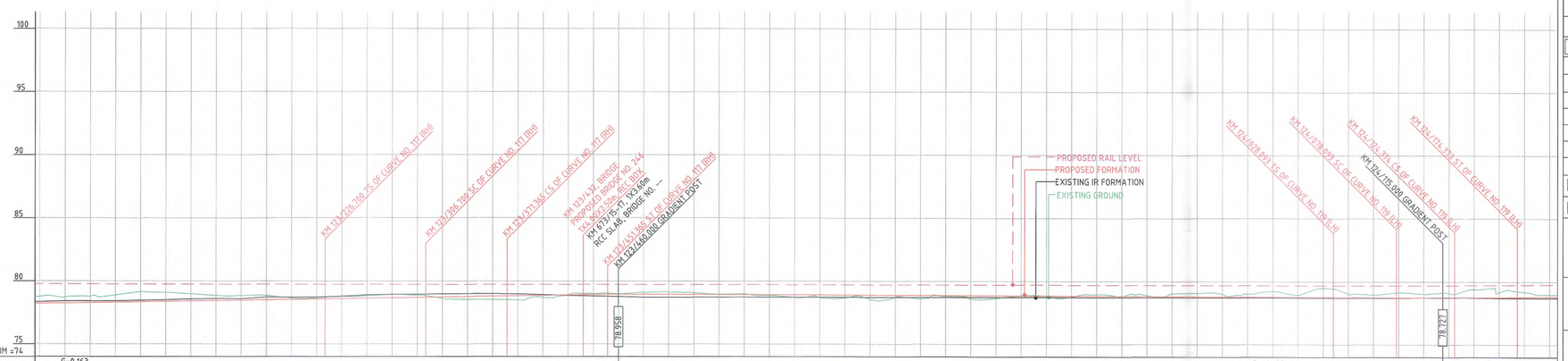

VERTICAL	G=0.163 L=710.000m; G=0.163 L=710.000m; G=-0.035 L=655.000m; G=-0.035 L=655.000m; G=0.104 L=1265.000m
HORIZONTAL	L=1400.097m; L=80.000m; R=1750.000m; L=64.665m; L=80.000m; L=576.728m; L=576.728m; L=50.000m; R=-1500.000m; L=46.281m; L=50.000m; L=278.153m
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	
DIST. BETWEEN EX. IR NEAREST TRACK & PROPOSED DFC TRACK AS PER DESIGN	43.150 43.133 43.118 42.946 42.975 42.991 43.026 43.093 43.122 43.081 43.079 43.019 42.973 42.923 42.823 42.583 42.143 41.438 39.391 36.224 32.267 28.134 24.032 21.122 20.275 20.284 20.279 20.275 20.270 20.265 20.261 20.256 20.252 20.247 20.242 20.238 20.233 20.229 20.224 20.220 20.215 20.210 20.206 20.201 20.197 20.192 20.188 20.183 20.178 20.174 20.169 20.165 20.164 20.228 20.465 20.872 21.618 23.135 25.612 29.310 33.154
FILL (+)/ CUT (-)	-0.565 -0.483 -0.521 -0.581 -0.809 -0.717 -0.570 -0.416 -0.376 -0.341 -0.117 -0.105 -0.196 -0.194 -0.265 -0.176 0.117 0.211 0.266 0.330 0.144 -0.003 -0.075 -0.040 -0.166 -0.175 -0.147 -0.029 -0.056 0.066 0.198 0.202 0.227 0.326 0.133 0.264 0.051 0.271 0.207 0.009 0.025 0.073 -0.145 0.024 -0.086 -0.231 -0.279 -0.232 -0.247 -0.462 -0.181 -0.723 -0.287 -0.233 -0.423 -0.310 -0.370 -0.671 -0.407 -0.404 -0.185
PROPOSED FORMATION LEVELS	78.208 78.240 78.273 78.306 78.338 78.371 78.403 78.436 78.469 78.501 78.534 78.567 78.599 78.632 78.664 78.697 78.730 78.762 78.795 78.828 78.860 78.893 78.925 78.958 78.951 78.944 78.937 78.930 78.923 78.916 78.909 78.902 78.895 78.887 78.880 78.873 78.866 78.859 78.852 78.845 78.838 78.831 78.824 78.817 78.810 78.803 78.796 78.789 78.782 78.775 78.768 78.761 78.753 78.746 78.739 78.732 78.732 78.753 78.774 78.795 78.816
EXIST. IR FORMATION LEVELS	78.353 78.403 78.415 78.427 78.466 78.509 78.568 78.608 78.595 78.718 78.714 78.734 78.808 78.908 78.940 78.956 78.994 79.005 79.000 78.979 78.921 78.864 78.811 78.773 78.731 78.728 78.728 78.728 78.728 78.728 78.728 78.728 78.729 78.729 78.729 78.729 78.729 78.729 78.729 78.729 78.730 78.730 78.730 78.730 78.730 78.730 78.730 78.730 78.730 78.730 78.730 78.730 78.730 78.730 78.730 78.730 78.730 78.730 78.736 78.760 78.744 78.711 78.727 78.715
GROUND LEVELS	78.773 78.724 78.793 78.887 79.148 79.087 78.974 78.853 78.845 78.842 78.651 78.671 78.795 78.826 78.929 78.873 78.612 78.551 78.529 78.497 78.177 78.895 79.000 78.999 79.117 79.118 79.084 78.958 78.978 78.849 78.711 78.699 78.667 78.561 78.747 78.610 78.816 78.588 78.645 78.836 78.813 78.759 78.969 78.793 78.896 79.033 79.075 79.020 79.028 79.236 78.949 79.484 79.041 78.980 79.163 79.042 79.102 79.425 79.180 79.199 79.001 78.901
CHAINAGE	123000 123020 123040 123060 123080 123100 123120 123140 123160 123180 123200 123220 123240 123260 123280 123300 123320 123340 123360 123380 123400 123420 123440 123460 123480 123500 123520 123540 123560 123580 123600 123620 123640 123660 123680 123700 123720 123740 123760 123780 123800 123820 123840 123860 123880 123900 123920 123940 123960 123980 124000 124020 124040 124060 124080 124100 124120 124140 124160 124180 124200

Dy. Chief Project Manager (Eng.) 13/7/18
Dedicated Freight Corridor Corporation of India Ltd. (A.P.S.U. Under Min. of Railway) ALLAHABAD (East)

CHIEF PROJECT MANAGER
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.
(A P.S.U. under Ministry of Railways)
Allahabad

SECTION-CP-201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW — PROW — DFCC ROW LINE
- IR-TOE — IR-TOE — EXISTING IR TOE LINE
- TOEL — TOEL — DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES,HT/LT LINES,ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

NOTE:-
TO SAVE THE SCHOOL BUILDING AT KM. 121+740 THE TEMPLE AT START OF ALIGNMENT AT KM. 119+700 NEED TO BE RELOCATED. SAME HAS BEEN SHOWN TENDER DRAWING ALSO.

EMPLOYER : DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE : ALIGNMENT PLAN & PROFILE FROM KM. 123/000 TO KM. 124/200

DRAWING NO.	SIZE	REV	SCALE
P 2 AL 0 0 0 4	A1	E	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
B	27/06/2016	Ltr No.PMCS/EDFC2/LTT/2016/00556 Comments Incorporated
C	30/08/2016	Ltr No.PMCS/EDFC2/LTT/2016/02496 Comments Incorporated
D	25/04/2017	INCORPORATED BASED ON APPROVED YARD PLAN REV-F
E	06/12/2017	CHANGE IN VERTICAL TO MEET FL OF ROB 247 & BR. 244, 245

DRAWING STAGE

- [x] FOR APPROVAL
- [ ] GOOD FOR CONSTRUCTION

PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: SYSTRA Consultants Pvt. Ltd. 1004-5, RAHEJA NARIMAN POINT, MUMBAI 400 021. OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	06/12/2017	T.C	
CHKD.	06/12/2017		
APPD.	06/12/2017	S. MITRA	

SUBMITTED BY GIL-SIL JV

	DATE	NAME	SIGN.
CHKD.	13/06/2018	Deepak Gangwar	
APPD.	13/06/2018	R.S.P. Singh	

NOC BY SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	21/06/2018	ANURANJAN PRASAD	
NOC	21/06/2018	P. AMERI KANOS	

APPROVAL BY DFCC

	DATE	NAME	SIGN.
CHKD.			
APPD.			

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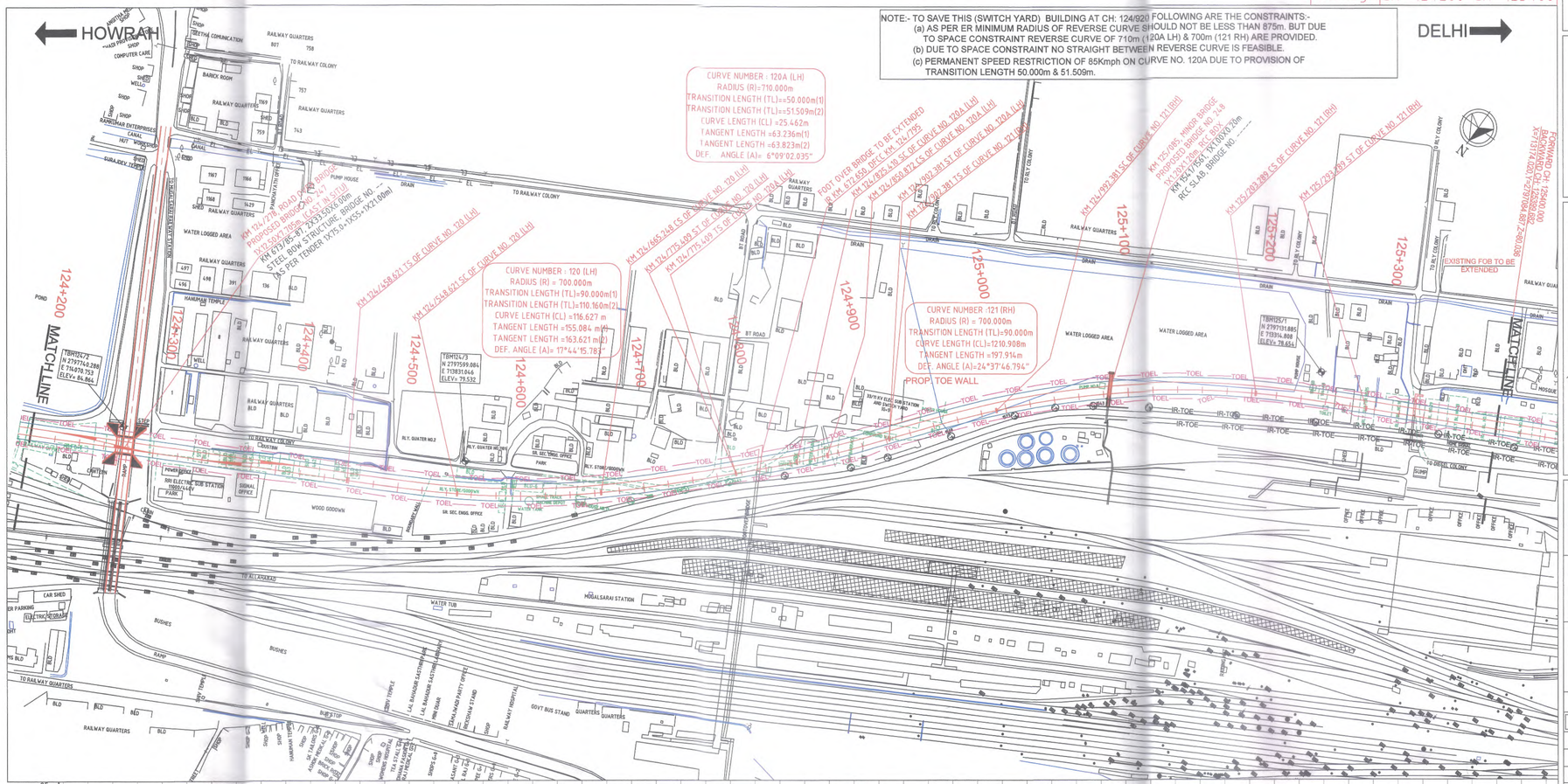
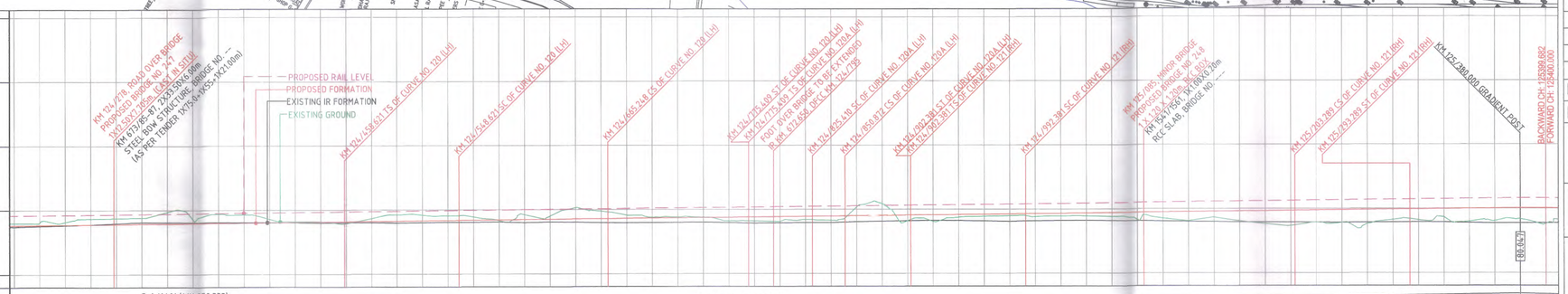
Chainage CH- 124200 CH- 125400

NOTE:- TO SAVE THIS (SWITCH YARD) BUILDING AT CH: 124/920 FOLLOWING ARE THE CONSTRAINTS:-
(a) AS PER ER MINIMUM RADIUS OF REVERSE CURVE SHOULD NOT BE LESS THAN 875m. BUT DUE TO SPACE CONSTRAINT REVERSE CURVE OF 710m (120A LH) & 700m (121 RH) ARE PROVIDED.
(b) DUE TO SPACE CONSTRAINT NO STRAIGHT BETWEEN REVERSE CURVE IS FEASIBLE.
(c) PERMANENT SPEED RESTRICTION OF 85Kmph ON CURVE NO. 120A DUE TO PROVISION OF TRANSITION LENGTH 50.000m & 51.509m.





Asstt. Project Manager
Dedicated Freight Corridor
Corporation of India Ltd.
(A.D.S.L. Under Ministry of Railway)
Allahabad (East)

Project Manager
Dedicated Freight Corridor
Corporation of India Ltd.
(A.D.S.L. Under Ministry of Railway)
Allahabad (East)

CHIEF GENERAL MANAGER
Dedicated Frieght Corridor
Corporation of India Ltd.
(A.D.S.L. Under Ministry of Railway)
ALLAHABAD (East)

SECTION-CP-201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW — PROW — DFCC ROW LINE
- IR-TOE — IR-TOE — EXISTING IR TOE LINE
- TOEL — TOEL — DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES,HT/LT LINES,ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER : DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE : ALIGNMENT PLAN & PROFILE
FROM KM. 124/200 TO KM. 125/400

DRAWING NO.	SIZE	REV	SCALE
P 2 AL 0 0 0 5	A1	G	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
D	25/04/2017	INCORPORATED BASED ON APPROVED YARD PLAN REV-F
E	06/12/2017	CHANGE IN VERTICAL TO MEET FL OF ROB 247 & BR. 244, 245
F	28/02/2019	LTR NO.PMCS/EDFC2/LTT/2019/00354 COMMENTS INCORPORATED
G	23/07/2019	LTR NO.PMCS/EDFC2/LTT/2019/03617

DRAWING STAGE
☑ FOR APPROVAL
☐ GOOD FOR CONSTRUCTION

PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.
REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.
OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	23.07.19	T.C	
CHKD.			
APPD.	24.07.19	S. MITRA	

SUBMITTED BY GIL-SIL JV

	DATE	NAME	SIGN.
CHKD.	25.07.19	REEPAK GUPTA	
APPD.	25.07.19	NISHEETH K SINGH	

NOC BY SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	31.07.2019	ANURANJAN PRASAD	
NOC	31.07.19	P. Amerikanos	

APPROVAL BY DFCC

	DATE	NAME	SIGN.
CHKD.			
APPD.			

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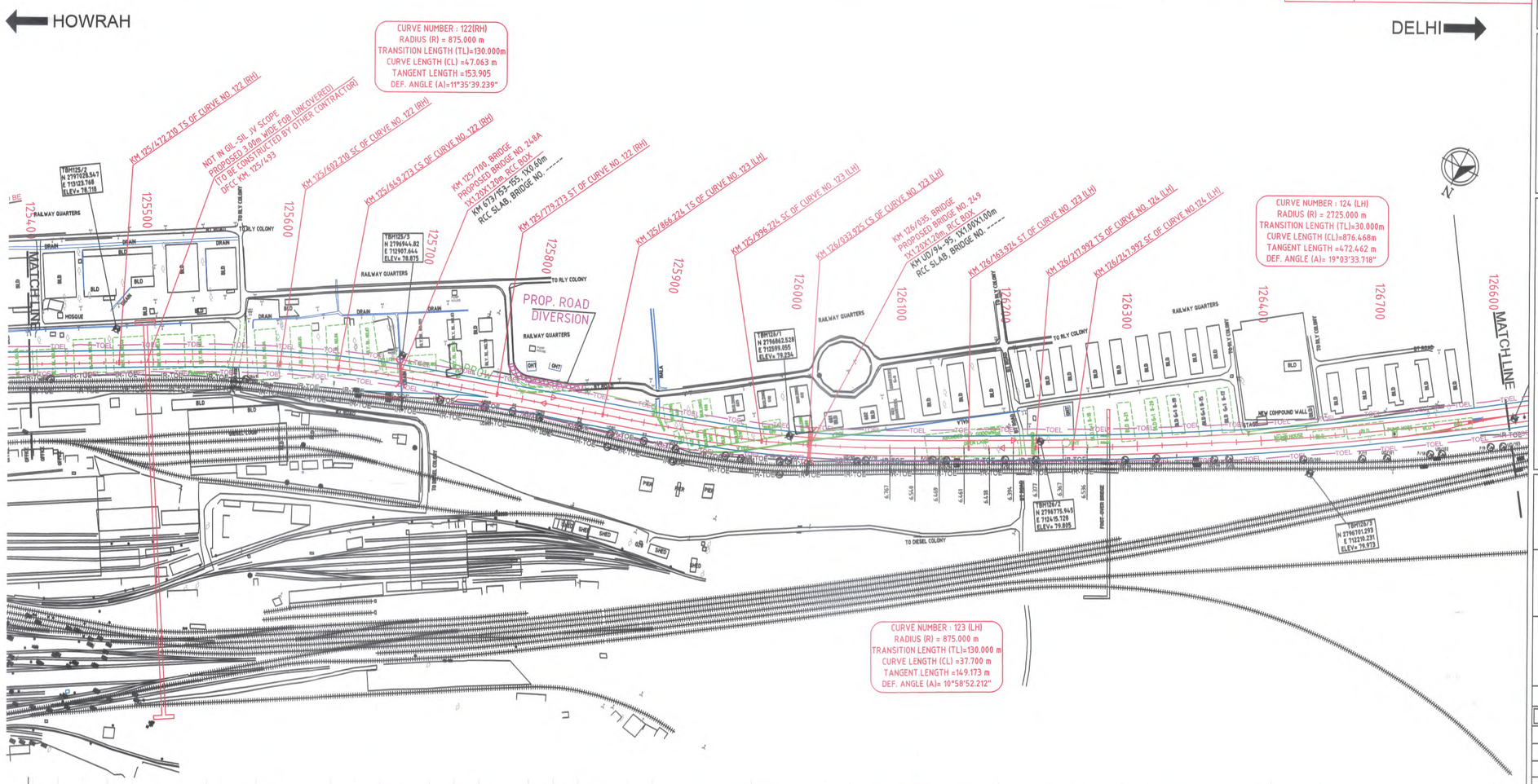
Chainage CH- 125400 CH- 126600

3469

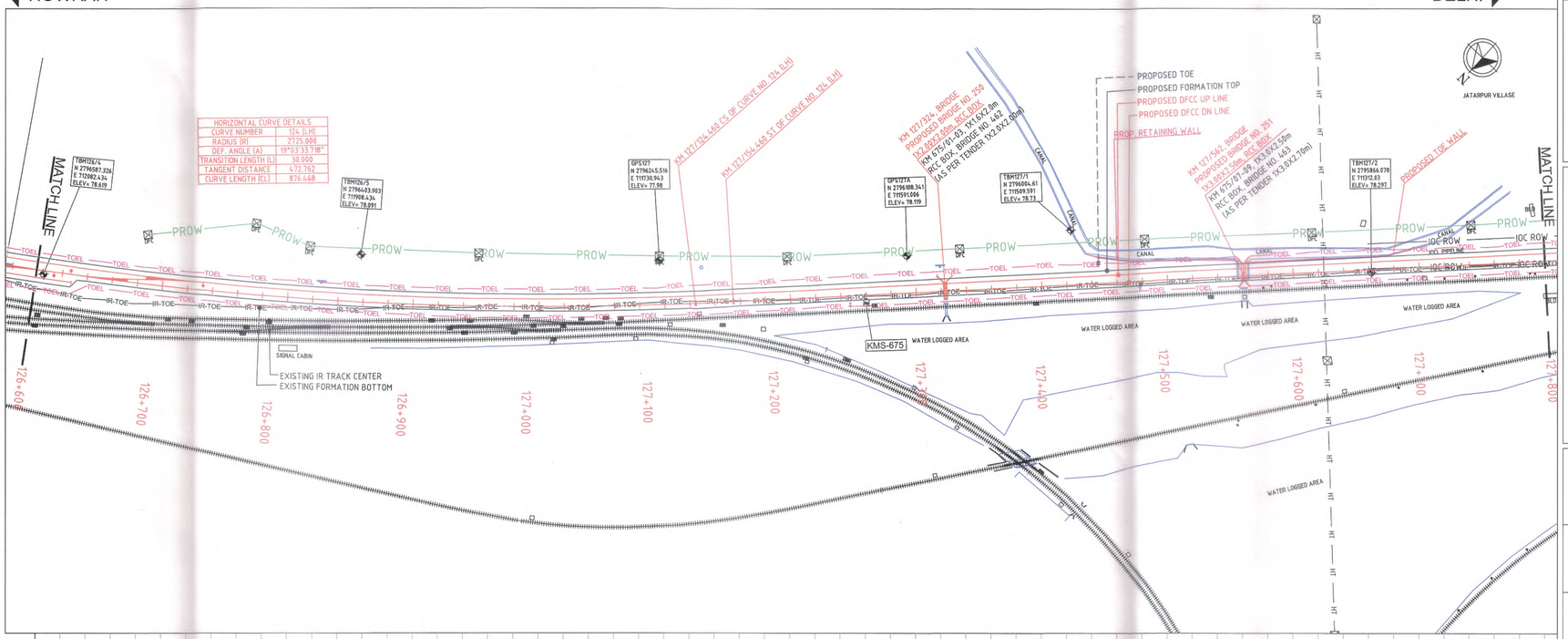
SECTION-CP-201



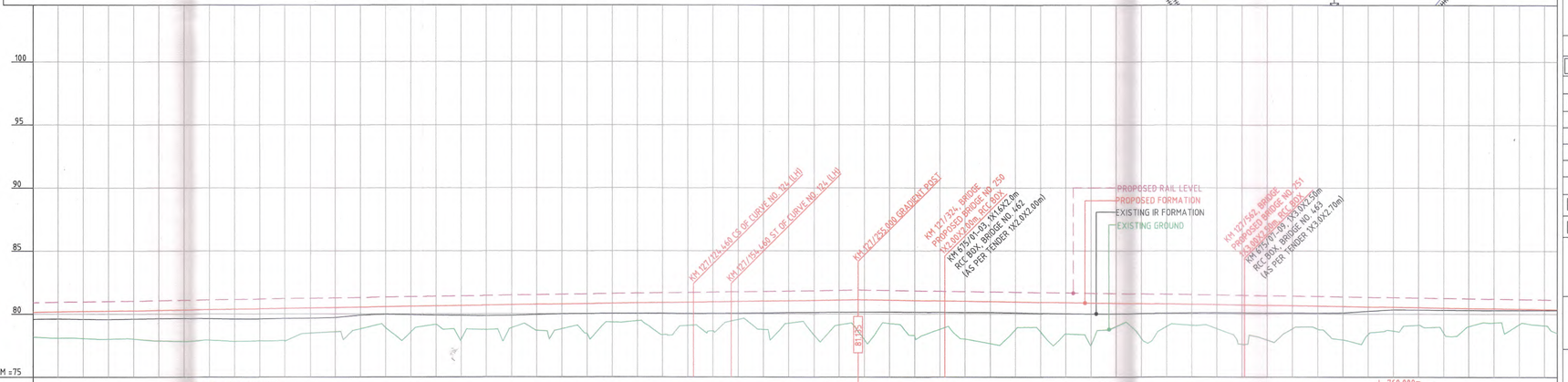
| | | |

Chainage CH- 126600 CH- 127800

HOWRAH ⬅ ➡ DELHI



HORIZONTAL CURVE DETAILS	
CURVE NUMBER	124 (LH)
RADIUS (R)	2725.000
DEF. ANGLE (A)	19°03'33.78"
TRANSITION LENGTH (L)	30.000
TANGENT DISTANCE	472.762
CURVE LENGTH (CL)	876.468



VERTICAL ALIGNMENT: G=0.151% (1 IN 662.897) L=655.000m; G=0.151% (1 IN 662.897) L=655.000m; L=760.000m G=-0.139% (1 IN 717.069); L=760.000m G=-0.139% (1 IN 717.069)

HORIZONTAL ALIGNMENT: R=-2725.000m L=876.468m; L=30.000m; L=1735.098m; L=1735.098m

THROUGH CHAINAGE	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	FILL (+)/ CUT (-)	PROPOSED FORMATION LEVELS	EXIST. IR FORMATION LEVELS	GROUND LEVELS	CHAINAGE
	24.549	26.145	1.966	80.147	79.608	78.180	126600
	24.535	26.289	2.077	80.177	79.608	78.101	126620
	24.521	26.396	2.143	80.207	79.579	78.065	126640
	24.242	26.462	2.217	80.237	79.573	78.020	126660
	23.698	25.574	2.241	80.268	79.604	78.026	126680
	23.154	24.569	2.417	80.298	79.632	77.881	126700
	21.636	22.948	2.481	80.328	79.641	77.846	126720
	20.117	21.558	2.423	80.358	79.625	77.936	126740
	18.629	20.044	2.552	80.388	79.602	77.836	126760
	17.170	18.740	2.541	80.418	79.602	77.877	126780
	15.712	17.605	2.606	80.449	79.630	77.843	126800
	14.500	16.420	1.990	80.479	79.650	78.489	126820
	13.289	15.219	1.987	80.509	79.711	78.601	126840
	12.116	14.039	1.704	80.539	79.907	78.835	126860
	10.981	13.001	1.662	80.569	79.969	78.908	126880
	9.847	12.084	2.028	80.599	79.935	78.572	126900
	8.975	11.207	1.460	80.630	79.896	79.169	126920
	8.103	10.430	2.670	80.660	79.889	77.990	126940
	7.797	9.833	1.931	80.690	79.858	78.758	126960
	8.058	9.737	1.829	80.720	79.871	78.892	126980
	8.318	10.337	2.065	80.750	79.938	78.685	127000
	8.736	11.599	1.961	80.780	80.000	78.819	127020
	9.155	12.358	2.338	80.811	80.017	78.472	127040
	9.065	12.590	1.492	80.841	80.020	79.348	127060
	8.468	11.906	1.425	80.871	80.025	79.446	127080
	7.870	11.552	2.538	80.901	80.039	78.364	127100
	7.552	11.313	1.839	80.931	80.030	79.093	127120
	7.235	11.322	2.309	80.962	80.032	78.652	127140
	7.056	11.337	1.442	80.992	80.040	79.550	127160
	7.017	11.308	2.242	81.022	80.067	78.719	127180
	6.978	11.400	1.719	81.052	80.098	79.273	127200
	7.004	11.464	2.702	81.082	80.115	78.381	127220
	7.029	11.485	1.977	81.112	80.128	79.135	127240
	7.049	11.520	3.144	81.128	80.135	77.984	127260
	7.062	11.532	1.845	81.100	80.146	79.256	127280
	7.075	11.527	2.758	81.072	80.138	78.315	127300
	7.094	11.529	2.255	81.044	80.126	78.790	127320
	7.113	11.562	2.993	81.016	80.112	78.023	127340
	7.124	11.583	3.329	80.989	80.113	77.659	127360
	7.127	11.595	2.201	80.961	80.087	78.759	127380
	7.129	11.591	2.331	80.933	80.038	78.602	127400
	7.137	11.637	2.477	80.905	80.010	78.428	127420
	7.145	11.620	3.334	80.877	79.994	77.543	127440
	7.169	11.646	1.841	80.849	80.008	79.009	127460
	7.208	11.605	2.731	80.821	80.032	78.091	127480
	7.247	11.633	1.866	80.793	80.039	78.988	127500
	7.321	11.650	1.673	80.765	80.069	79.093	127520
	7.396	11.670	1.963	80.738	80.087	78.835	127540
	7.448	11.695	3.114	80.710	80.885	77.596	127560
	7.477	11.679	2.747	80.682	80.955	77.934	127580
	7.506	11.753	1.832	80.654	80.067	78.822	127600
	7.434	11.725	1.821	80.626	80.062	78.805	127620
	7.362	11.737	2.640	80.598	80.084	77.959	127640
	7.304	11.786	2.188	80.570	80.216	78.383	127660
	7.261	11.764	1.887	80.542	80.328	78.655	127680
	7.217	11.727	1.402	80.514	80.338	79.112	127700
	7.246	11.699	1.964	80.486	80.309	78.523	127720
	7.275	11.753	1.439	80.459	80.303	79.019	127740
	7.326	11.720	1.115	80.431	80.295	79.395	127760
	7.397	11.672	1.235	80.403	80.295	79.168	127780
	7.468	11.666	1.282	80.375	80.300	79.092	127800

SECTION-CP-201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW — DFCC ROW LINE
- IR-TOE — EXISTING IR TOE LINE
- TOEL — DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.00m AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES,HT/LT LINES,ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER : DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE : ALIGNMENT PLAN & PROFILE FROM KM. 126/600 TO KM. 127/800

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 0 0 7	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
0	21/09/2018	DEFINITIVE

DRAWING STAGE

- ☐ FOR APPROVAL
- ☑ GOOD FOR CONSTRUCTION

PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.
REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.
OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	21/09/2018	TC	
CHKD.	21/09/2018		
APPD.	21/09/2018	S. MITRA	

SUBMITTED BY GIL-SIL JV

	DATE	NAME	SIGN.
CHKD.	21/09/2018	Reetpak Gupta	
APPD.	21/09/2018	Nisheeth K. Singh	

NOC BY SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	16-02-2019	ANURANJAN PRASAD	
NOC	16-02-2019	P. Amerikanos	

APPROVAL BY DFCC

	DATE	NAME	SIGN.
CHKD.			
APPD.			

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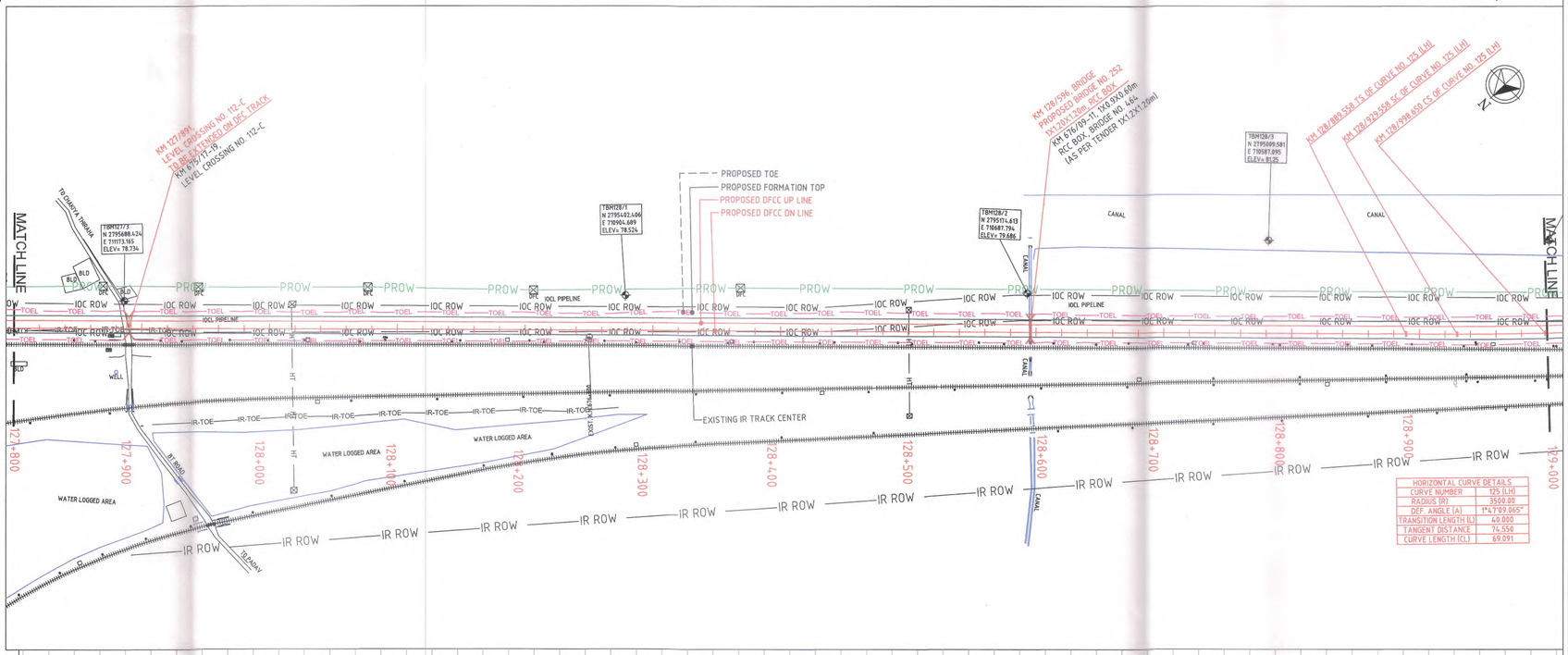
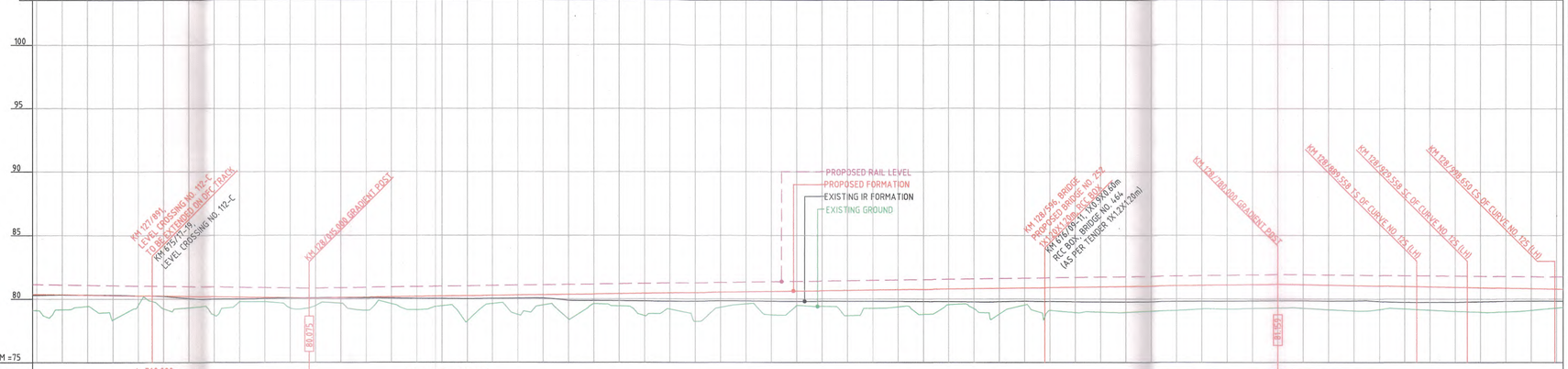
Chainage CH- 127800 CH- 129000

SECTION-CP-201

HOWRAH ⟵ ⟶ DELHI



HORIZONTAL CURVE DETAILS	
CURVE NUMBER	125 (LH)
RADIUS (R)	3500.00
DEF. ANGLE (A)	1°47'09.065"
TRANSITION LENGTH (L)	40.000
TANGENT DISTANCE	74.550
CURVE LENGTH (CL)	69.091



VERTICAL ALIGNMENT: L=760.000m G=-0.139% (1 IN 717.069); G=0.142% (1 IN 705.856) L=765.000m; G=0.142% (1 IN 705.856) L=765.000m; L=760.000m G=-0.166% (1 IN 601.842)

HORIZONTAL ALIGNMENT: L=1735.098m; L=1735.098m; L=1735.098m; L=40.000m; R=-3500.000m L=69.091m

CHAINAGE	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	FILL (+)/ CUT (-)	PROPOSED FORMATION LEVELS	EXIST. IR FORMATION LEVELS	GROUND LEVELS
127800	7.468	11.666	1.282	80.375	80.300	79.092
127820	7.469	11.673	1.181	80.347	80.324	79.165
127840	7.470	11.631	0.885	80.319	80.323	79.435
127860	7.451	11.642	1.934	80.291	80.306	78.358
127880	7.412	11.642	0.760	80.263	80.269	79.504
127900	7.373	11.586	0.988	80.235	80.203	79.247
127920	7.330	11.594	0.894	80.208	80.042	79.314
127940	7.287	11.573	1.458	80.180	79.986	78.721
127960	7.255	11.525	0.344	80.152	80.003	79.808
127980	7.232	11.478	0.336	80.124	80.040	79.788
128000	7.210	11.448	0.814	80.096	80.069	79.282
128020	7.192	11.435	0.615	80.082	80.089	79.467
128040	7.175	11.418	0.443	80.110	80.108	79.668
128060	7.158	11.346	1.026	80.139	80.089	79.112
128080	7.143	11.281	0.542	80.167	80.066	79.625
128100	7.128	11.238	1.052	80.195	80.030	79.144
128120	7.116	11.220	0.766	80.224	80.029	79.458
128140	7.104	11.137	1.984	80.252	80.014	78.268
128160	7.094	11.126	0.651	80.280	80.028	79.630
128180	7.085	11.127	1.534	80.309	80.054	78.775
128200	7.076	10.995	0.813	80.337	80.077	79.524
128220	7.069	11.075	1.939	80.365	79.896	78.426
128240	7.062	11.000	0.767	80.394	79.872	79.626
128260	7.055	10.975	0.973	80.422	79.863	79.450
128280	7.050	11.011	1.767	80.451	79.840	78.684
128300	7.045	11.037	1.284	80.479	79.821	79.195
128320	7.042	11.015	2.262	80.507	79.823	78.245
128340	7.039	10.954	1.187	80.536	79.853	79.348
128360	7.036	10.988	0.949	80.564	79.838	79.615
128380	7.033	10.922	1.838	80.592	79.823	78.754
128400	7.031	10.960	1.108	80.621	79.818	79.512
128420	7.028	10.953	1.227	80.649	79.821	79.422
128440	7.025	10.949	1.993	80.677	79.819	78.684
128460	7.023	10.957	1.430	80.706	79.814	79.276
128480	7.020	10.958	1.349	80.734	79.813	79.385
128500	7.018	10.905	1.962	80.762	79.806	78.800
128520	7.015	10.946	1.242	80.791	79.790	79.549
128540	7.012	11.026	1.579	80.819	79.775	79.239
128560	7.010	11.020	2.045	80.847	79.787	78.802
128580	7.007	10.910	1.342	80.876	79.835	79.534
128600	7.005	10.946	1.805	80.904	79.806	79.098
128620	7.002	10.941	1.995	80.932	79.786	78.937
128640	6.999	10.986	1.989	80.961	79.775	78.971
128660	6.997	11.004	2.042	80.989	79.774	78.947
128680	6.994	10.923	1.974	81.017	79.785	79.043
128700	6.992	10.897	1.951	81.046	79.809	79.095
128720	6.989	10.933	1.869	81.074	79.821	79.205
128740	6.986	10.944	1.901	81.102	79.835	79.202
128760	6.984	10.905	1.868	81.131	79.850	79.262
128780	6.981	10.846	1.860	81.159	79.857	79.299
128800	6.979	10.820	1.850	81.126	79.855	79.275
128820	6.975	10.875	1.935	81.093	79.843	79.157
128840	6.972	10.868	1.988	81.059	79.862	79.071
128860	6.968	10.794	1.857	81.026	79.807	79.170
128880	6.963	10.762	1.769	80.993	79.741	79.223
128900	6.959	10.826	1.835	80.960	79.737	79.125
128920	6.955	10.907	1.890	80.926	79.757	79.037
128940	6.951	10.911	1.927	80.893	79.790	78.966
128960	6.947	11.202	1.867	80.860	79.822	78.993
128980	6.944	11.545	1.714	80.827	79.842	79.113
129000	6.941	11.948	1.492	80.793	79.844	79.301

THROUGH CHAINAGE

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW — DFCC ROW LINE
- IR-TOE — EXISTING IR TOE LINE
- TOEL — DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.00m AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES,HT/LT LINES,ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER : DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE : ALIGNMENT PLAN & PROFILE FROM KM. 127/800 TO KM. 129/000

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 0 0 8	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
0	21/09/2018	DEFINITIVE

DRAWING STAGE

- [ ] FOR APPROVAL
- [x] GOOD FOR CONSTRUCTION

PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.
REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.
OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	21/09/2018	T.C	
CHKD.	21/09/2018		
APPD.	21/09/2018	S. MITRA	

SUBMITTED BY GIL-SIL JV

	DATE	NAME	SIGN.
CHKD.	21/09/2018	Reekak Gupta	
APPD.	21/09/2018	Nisheeth K. Singh	

NOC BY SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	16-02-2019	ANURANJAN PRASAD	
NOC	16-02-2019	P. Amerikanos	

APPROVAL BY DFCC

	DATE	NAME	SIGN.
CHKD.			
APPD.			

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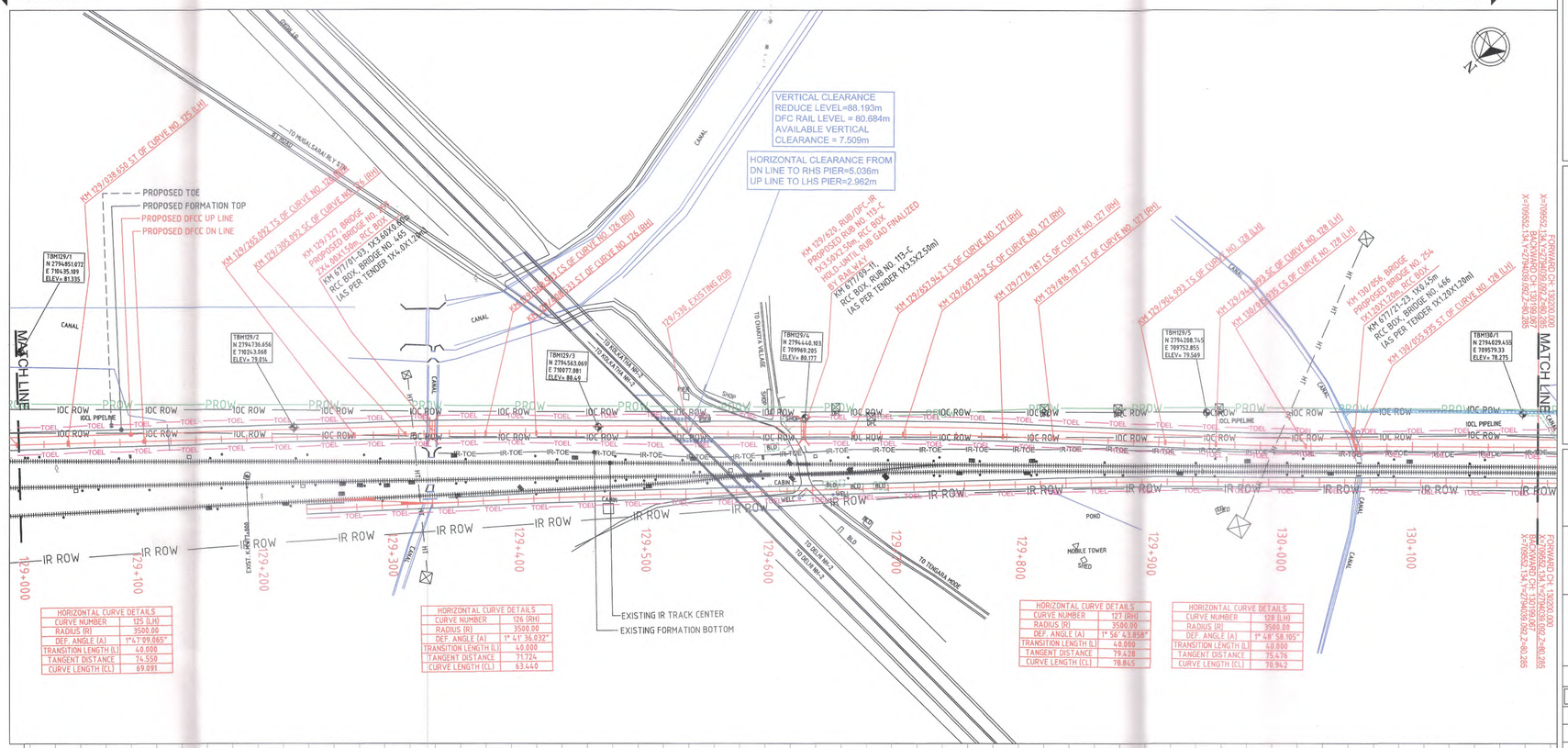
Chainage CH- 129000 CH- 130200

HOWRAH ⬅ ➡ DELHI

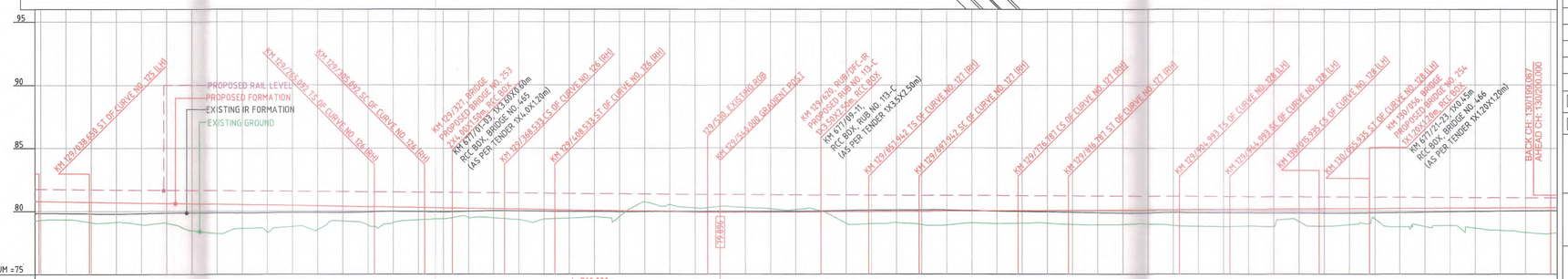


HORIZONTAL CURVE DETAILS	
CURVE NUMBER	125 (LH)
RADIUS (R)	3500.00
DEF. ANGLE (A)	1°47'09.065"
TRANSITION LENGTH (L)	40.000
TANGENT DISTANCE	74.550
CURVE LENGTH (CL)	69.091

HORIZONTAL CURVE DETAILS	
CURVE NUMBER	126 (RH)
RADIUS (R)	3500.00
DEF. ANGLE (A)	1° 41' 36.632"
TRANSITION LENGTH (L)	40.000
TANGENT DISTANCE	71.724
CURVE LENGTH (CL)	63.440

HORIZONTAL CURVE DETAILS	
CURVE NUMBER	127 (RH)
RADIUS (R)	3500.00
DEF. ANGLE (A)	1° 56' 43.858"
TRANSITION LENGTH (L)	40.000
TANGENT DISTANCE	79.628
CURVE LENGTH (CL)	78.865

HORIZONTAL CURVE DETAILS	
CURVE NUMBER	128 (LH)
RADIUS (R)	3500.00
DEF. ANGLE (A)	1° 48' 58.195"
TRANSITION LENGTH (L)	40.000
TANGENT DISTANCE	75.476
CURVE LENGTH (CL)	70.942



CHAINAGE	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	FILL (+)/ CUT (-)	PROPOSED FORMATION LEVELS	EXIST. IR FORMATION LEVELS	GROUND LEVELS
129000	6.941	11.948	1.492	80.793	79.844	79.301
129020	6.936	12.444	1.421	80.760	79.834	79.339
129040	6.931	13.069	1.610	80.727	79.811	79.116
129060	6.924	13.679	1.552	80.694	79.793	79.141
129080	6.914	14.343	1.710	80.660	79.830	78.950
129100	6.904	14.969	1.568	80.627	79.862	79.060
129120	7.002	15.540	2.128	80.594	79.870	78.466
129140	7.099	16.153	2.315	80.561	79.867	78.246
129160	7.448	16.777	1.888	80.527	79.861	78.639
129180	8.049	17.387	2.117	80.494	79.876	78.377
129200	8.650	18.022	1.669	80.461	79.896	78.793
129220	9.777	18.653	1.905	80.428	79.896	78.523
129240	10.904	19.283	1.177	80.395	79.896	79.218
129260	12.112	19.771	1.467	80.361	79.931	78.895
129280	13.400	20.521	1.263	80.328	79.975	79.065
129300	14.688	21.075	0.991	80.295	79.950	79.304
129320	16.002	21.553	0.858	80.262	79.937	79.403
129340	17.375	27.435	0.727	80.228	79.985	79.501
129360	18.587	25.872	0.733	80.195	80.032	79.463
129380	19.816	20.297	0.825	80.162	80.014	79.336
129400	21.045	22.485	0.744	80.129	79.992	79.384
129420	21.781	22.648	0.638	80.095	79.976	79.457
129440	22.516	22.421	0.492	80.062	79.967	79.571
129460	22.993	22.512	0.472	80.029	79.935	79.557
129480	23.210	24.279	-0.719	79.996	79.948	80.714
129500	23.428	24.521	-0.559	79.962	79.954	80.521
129520	23.664	18.261	-0.334	79.929	79.955	80.263
129540	23.501	22.757	-0.475	79.896	79.961	80.371
129560	23.527	22.751	-0.378	79.908	79.953	80.285
129580	23.544	22.826	-0.261	79.920	79.971	80.180
129600	23.560	22.847	-0.192	79.931	79.982	80.123
129620	23.484	22.819	-0.065	79.943	80.007	80.008
129640	23.407	23.619	0.926	79.955	80.046	79.028
129660	23.094	21.910	0.967	79.967	80.077	79.000
129680	22.543	22.693	0.894	79.979	80.085	79.085
129700	21.992	22.862	1.044	79.990	80.093	78.946
129720	21.087	22.725	1.104	80.002	80.077	78.899
129740	20.182	22.443	0.946	80.014	80.037	79.068
129760	19.198	22.045	1.014	80.026	79.997	79.012
129780	18.136	21.551	0.995	80.038	79.966	79.042
129800	17.074	20.969	1.006	80.049	79.937	79.044
129820	16.105	20.349	1.116	80.061	79.903	78.946
129840	15.136	19.727	1.158	80.073	79.869	78.914
129860	14.460	19.106	1.141	80.085	79.839	78.914
129880	13.178	18.481	1.125	80.097	79.842	78.911
129900	12.196	17.825	1.124	80.108	79.886	78.867
129920	11.223	17.270	1.331	80.120	79.854	78.790
129940	10.250	16.647	1.366	80.132	79.862	78.765
129960	9.320	16.116	1.323	80.144	79.858	78.821
129980	8.433	15.315	1.383	80.156	79.845	78.773
130000	7.547	14.984	0.998	80.167	79.844	79.169
130020	7.148	15.626	1.374	80.179	79.836	78.805
130040	6.749	15.554	1.268	80.191	79.845	78.923
130060	6.539	15.525	0.777	80.203	79.862	79.426
130080	6.520	15.501	1.447	80.215	79.882	78.168
130100	6.500	15.485	1.437	80.226	79.915	78.790
130120	6.500	15.475	1.374	80.238	79.951	78.864
130140	6.500	15.473	1.585	80.250	79.976	78.664
130160	6.500	15.470	1.789	80.262	79.996	78.473
130180	6.500	15.441	1.959	80.273	80.019	78.315
130200	6.500	15.410	2.116	80.285	80.035	78.170

THROUGH CHAINAGE

SECTION–CP–201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW — PROW: DFCC ROW LINE
- IR-TOE — IR-TOE: EXISTING IR TOE LINE
- TOEL — TOEL: DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.00m AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES,HT/LT LINES,ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER : DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE : ALIGNMENT PLAN & PROFILE FROM KM. 129/000 TO KM. 130/200

DRAWING NO.						SIZE	REV	SCALE
D	2	AL	0	0	0	9	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
0	21/09/2018	DEFINITIVE

DRAWING STAGE

- ☐ FOR APPROVAL
- ☑ GOOD FOR CONSTRUCTION

PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.

REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.

OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	21/09/2018	TC	
CHKD.	21/09/2018		
APPD.	21/09/2018	S. MITRA	

SUBMITTED BY GIL-SIL JV

	DATE	NAME	SIGN.
CHKD.	21/09/2018	Reepak Gupta	
APPD.	21/09/2018	Nisheeth K. Singh	

NOC BY SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	16-02-2019	ANURANJAN PRASAD	
NOC	16-02-2019	P. Amerikanos	

APPROVAL BY DFCC

	DATE	NAME	SIGN.
CHKD.			
APPD.			

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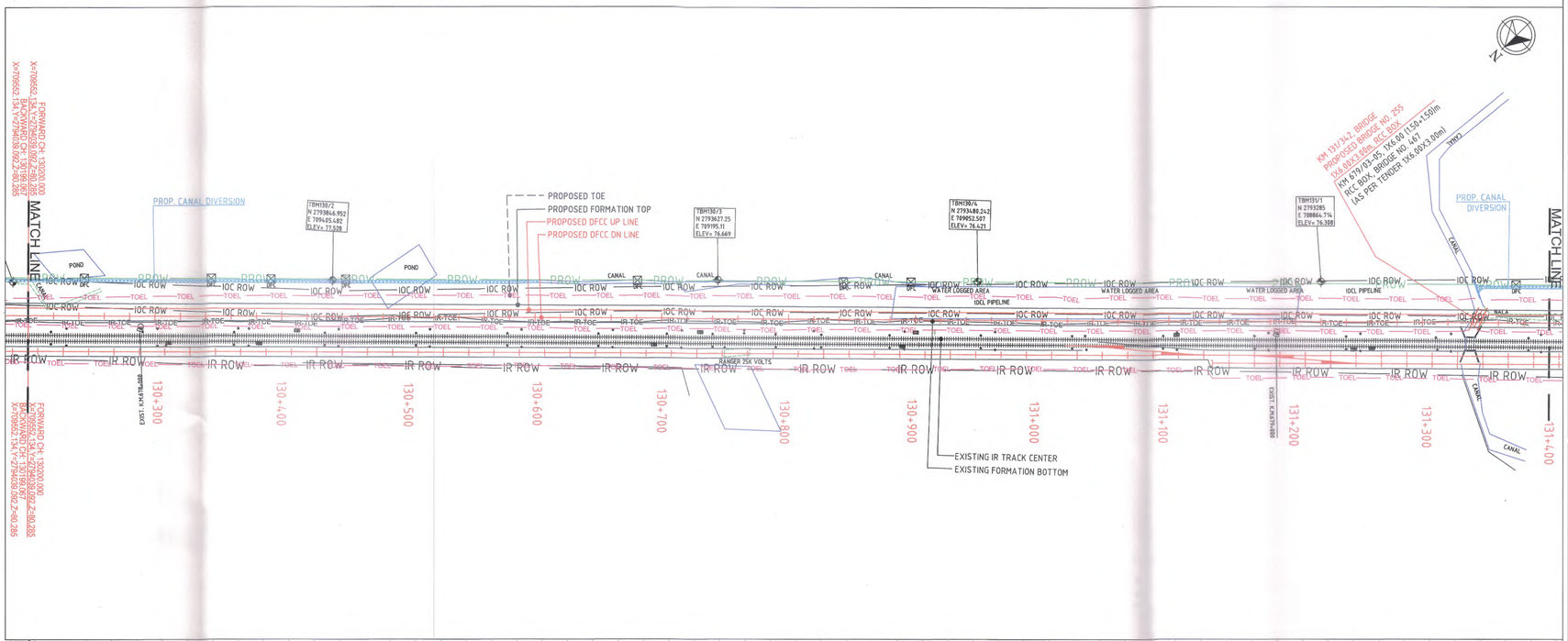
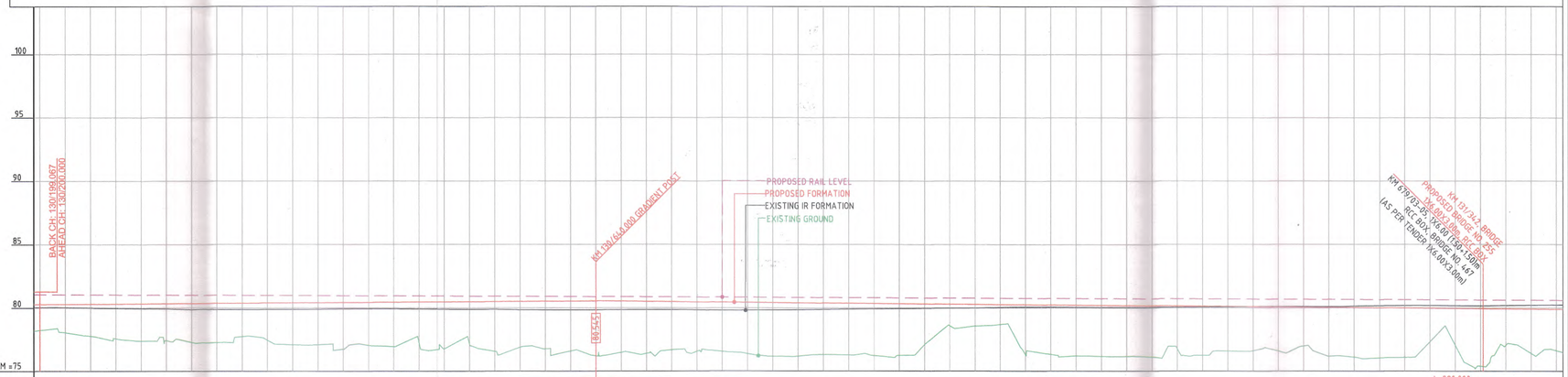
Chainage CH- 130200 CH- 131400

HOWRAH ⬅ ➡ DELHI





VERTICAL ALIGNMENT	G=0.059% (1 IN 1694.915) L=1099.067m; L=890.000m G=-0.087% (1 IN 1155.844); L=890.000m G=-0.087% (1 IN 1155.844)
HORIZONTAL ALIGNMENT	L=1711.467m; L=1711.467m; L=1711.467m; L=1711.467m

CHAINAGE	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	FILL (+)/ CUT (-)	PROPOSED FORMATION LEVELS	EXIST. IR FORMATION LEVELS	GROUND LEVELS
130200	6.500	15.410	2.116	80.285	80.035	78.770
130220	6.500	15.400	2.242	80.297	80.029	78.055
130240	6.500	15.377	2.538	80.309	79.995	77.770
130260	6.500	15.344	2.751	80.321	79.968	77.569
130280	6.500	15.337	2.945	80.333	79.943	77.387
130300	6.500	15.340	2.932	80.344	79.918	77.412
130320	6.500	15.342	3.076	80.356	79.857	77.280
130340	6.500	15.282	3.098	80.368	79.872	77.270
130360	6.500	15.275	2.640	80.380	79.868	77.140
130380	6.500	15.252	2.939	80.392	79.874	77.452
130400	6.500	15.219	3.321	80.403	79.877	77.082
130420	6.500	15.205	3.319	80.415	79.893	77.097
130440	6.500	15.202	3.692	80.427	79.918	76.734
130460	6.500	15.182	3.390	80.439	79.928	77.048
130480	6.500	15.161	3.503	80.451	79.917	76.947
130500	6.500	15.143	3.171	80.462	79.906	77.291
130520	6.500	15.136	3.709	80.474	79.897	76.766
130540	6.500	15.125	3.321	80.486	79.876	77.165
130560	6.500	15.087	3.929	80.498	79.887	76.569
130580	6.500	15.075	3.614	80.510	79.846	76.895
130600	6.500	15.087	3.748	80.521	79.839	76.773
130620	6.500	15.053	3.939	80.533	79.839	76.595
130640	6.500	15.084	4.330	80.545	79.838	76.215
130660	6.500	15.067	4.042	80.528	79.846	76.486
130680	6.500	15.023	4.109	80.510	79.850	76.401
130700	6.500	15.035	3.808	80.493	79.855	76.685
130720	6.500	14.946	3.912	80.476	79.848	76.564
130740	6.500	14.908	3.903	80.458	79.811	76.556
130760	6.500	14.890	4.058	80.441	79.818	76.383
130780	6.500	14.843	4.261	80.424	79.834	76.163
130800	6.500	14.816	4.227	80.407	79.852	76.179
130820	6.500	14.800	4.089	80.389	79.876	76.300
130840	6.500	14.789	4.093	80.372	79.902	76.279
130860	6.500	14.805	4.123	80.355	79.924	76.231
130880	6.500	14.782	4.186	80.337	79.946	76.232
130900	6.500	14.761	3.217	80.320	79.967	77.104
130920	6.500	14.737	1.716	80.303	79.986	78.587
130940	6.500	14.711	1.725	80.285	79.997	78.561
130960	6.500	14.696	1.582	80.268	80.036	78.686
130980	6.500	14.661	3.957	80.251	80.066	76.294
131000	6.500	14.642	3.903	80.234	80.062	76.330
131020	6.500	14.629	4.018	80.216	80.050	76.198
131040	6.500	14.656	4.038	80.199	80.043	76.161
131060	6.500	14.678	4.026	80.182	80.038	76.156
131080	6.500	14.683	4.060	80.164	80.036	76.105
131100	6.500	14.692	3.358	80.147	80.047	76.790
131120	6.500	14.683	3.874	80.130	80.064	76.256
131140	6.500	14.682	3.527	80.112	80.082	76.585
131160	6.500	14.653	3.481	80.095	80.096	76.615
131180	6.500	14.631	3.487	80.078	80.102	76.591
131200	6.500	14.618	3.073	80.061	80.103	76.988
131220	6.500	14.613	3.877	80.043	80.097	76.166
131240	6.500	14.592	3.925	80.026	80.035	76.100
131260	6.500	14.594	3.970	80.009	80.055	76.039
131280	6.500	14.616	3.995	79.991	80.172	76.087
131300	6.500	14.621	2.648	79.974	80.178	77.325
131320	6.500	14.603	2.897	79.957	80.165	77.059
131340	6.500	14.586	4.545	79.939	80.154	75.394
131360	6.500	14.595	2.891	79.922	80.176	77.031
131380	6.500	14.607	3.503	79.905	80.201	76.402
131400	6.500	14.607	3.266	79.887	80.239	76.621

THROUGH CHAINAGE

SECTION-CP-201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW — PROW: DFCC ROW LINE
- IR-TOE — IR-TOE: EXISTING IR TOE LINE
- TOEL — TOEL: DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.00m AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES,HT/LT LINES,ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER : DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE : ALIGNMENT PLAN & PROFILE FROM KM. 130/200 TO KM. 131/400

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 0 1 0	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
0	21/09/2018	DEFINITIVE

DRAWING STAGE

- [ ] FOR APPROVAL
- [x] GOOD FOR CONSTRUCTION

PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.
REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.
OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	21/09/2018	TC	
CHKD.	21/09/2018		
APPD.	21/09/2018	S. MITRA	

SUBMITTED BY GIL-SIL JV

	DATE	NAME	SIGN.
CHKD.	21/09/2018	Reebak Gupta	
APPD.	21/09/2018	Nishkarsh K. Singh	

NOC BY SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	16-02-2019	ANURANJAN PRASAD	
NOC	16-02-2019	P. Amerikanos	

APPROVAL BY DFCC

	DATE	NAME	SIGN.
CHKD.			
APPD.			

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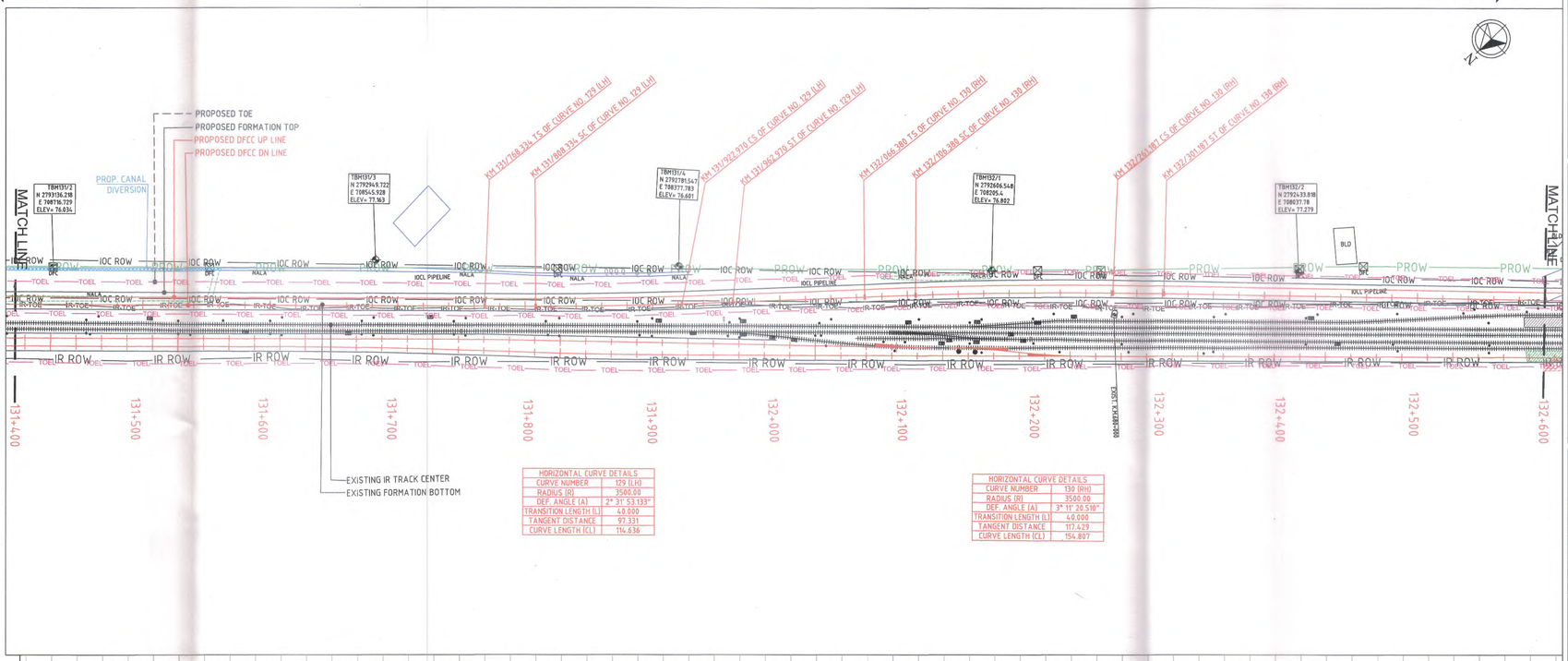
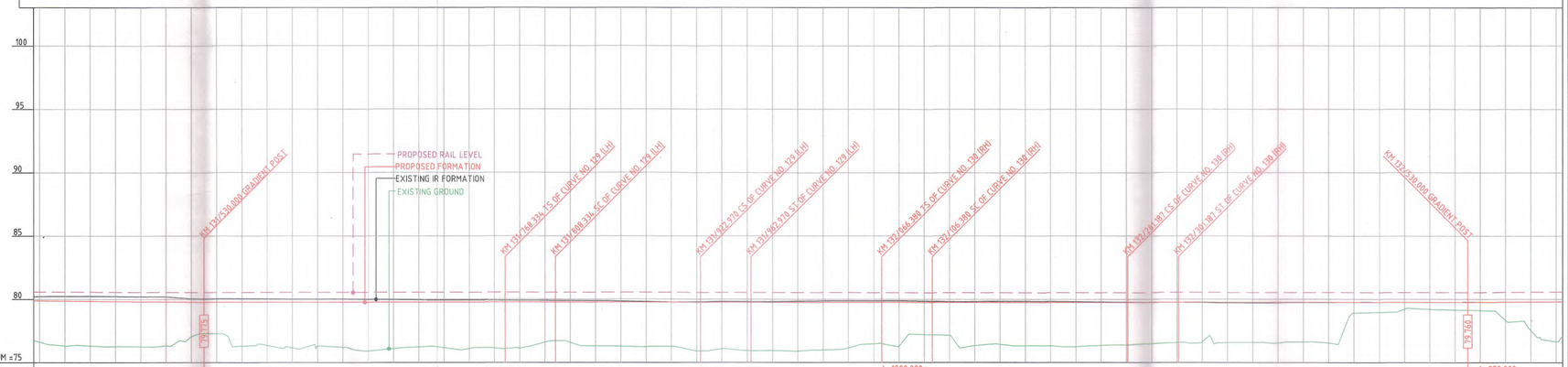
Chainage CH- 131400 CH- 132600

HOWRAH ⬅ ➡ DELHI



HORIZONTAL CURVE DETAILS	
CURVE NUMBER	129 (LH)
RADIUS (R)	3500.00
DEF. ANGLE (A)	2° 31' 53.133"
TRANSITION LENGTH (L)	40.000
TANGENT DISTANCE	97.331
CURVE LENGTH (CL)	114.636

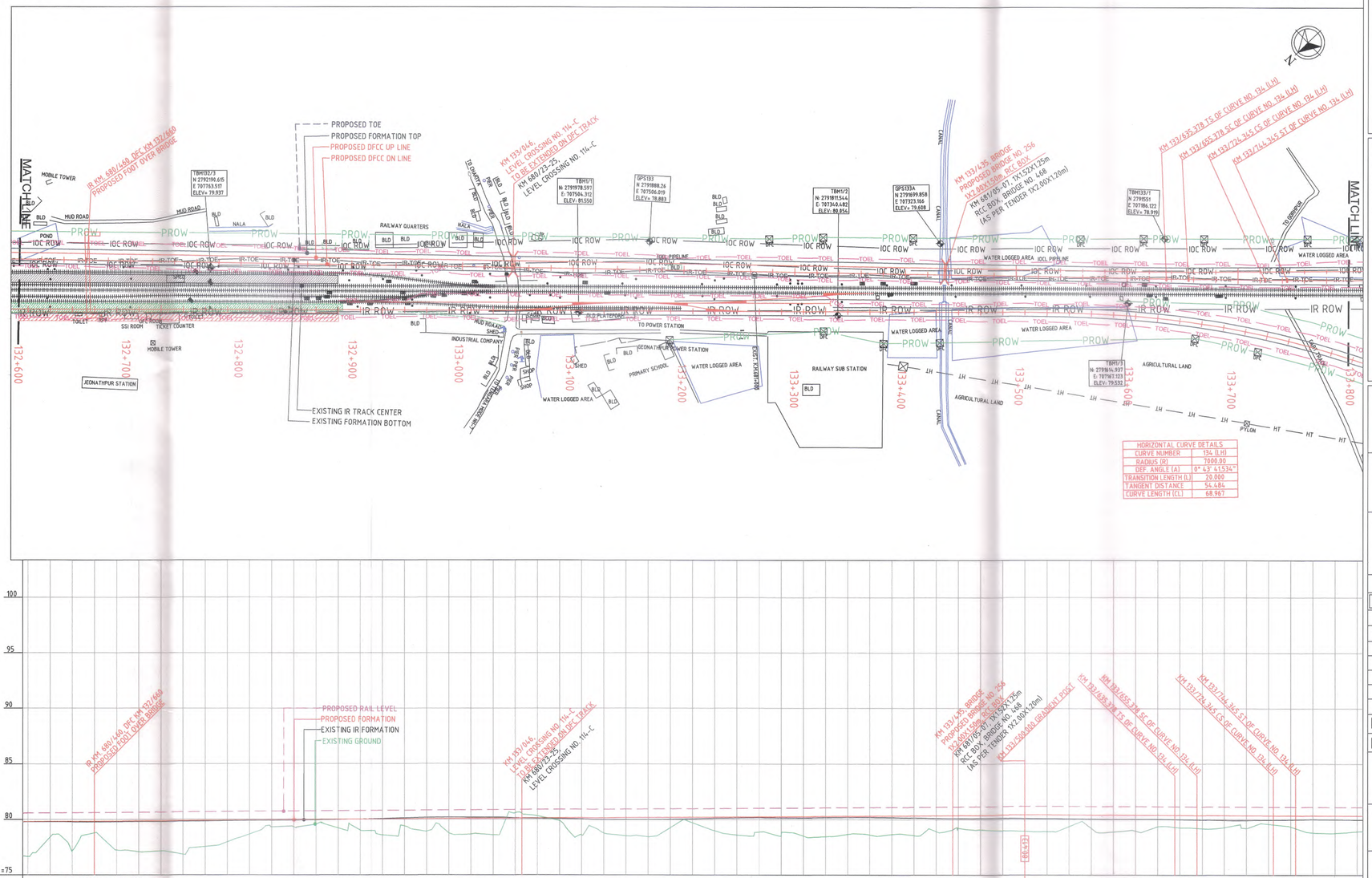
HORIZONTAL CURVE DETAILS	
CURVE NUMBER	130 (RH)
RADIUS (R)	3500.00
DEF. ANGLE (A)	3° 11' 20.510"
TRANSITION LENGTH (L)	40.000
TANGENT DISTANCE	117.429
CURVE LENGTH (CL)	154.807



| | | |

Chainage CH- 132600 CH- 133800

HOWRAH ← → DELHI



HORIZONTAL CURVE DETAILS	
CURVE NUMBER	134 (LH)
RADIUS (R)	7000.00
DEF. ANGLE (A)	0° 43' 41.534"
TRANSITION LENGTH (L)	20.000
TANGENT DISTANCE	54.484
CURVE LENGTH (CL)	68.967

SECTION-CP-201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW — DFCC ROW LINE
- IR-TOE — EXISTING IR TOE LINE
- TOEL — DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.00m AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES,HT/LT LINES,ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER : DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE : ALIGNMENT PLAN & PROFILE FROM KM. 132/600 TO KM. 133/800

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 0 1 2	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
0	21/09/2018	DEFINITIVE

DRAWING STAGE

☐ FOR APPROVAL
☑ GOOD FOR CONSTRUCTION

PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.
REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.
OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	21/09/2018	TC	
CHKD.	21/09/2018		
APPD.	21/09/2018	S. MITRA	

SUBMITTED BY GIL-SIL JV

	DATE	NAME	SIGN.
CHKD.	21/09/2018	Deepak Gupta	
APPD.	21/09/2018	Nisheeth K. Singh	

NOC BY SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	16/02/2019	ANURANJAN PRASAD	
NOC	16/02/2019	P. Amerikanos	

APPROVAL BY DFCC

	DATE	NAME	SIGN.
CHKD.			
APPD.			

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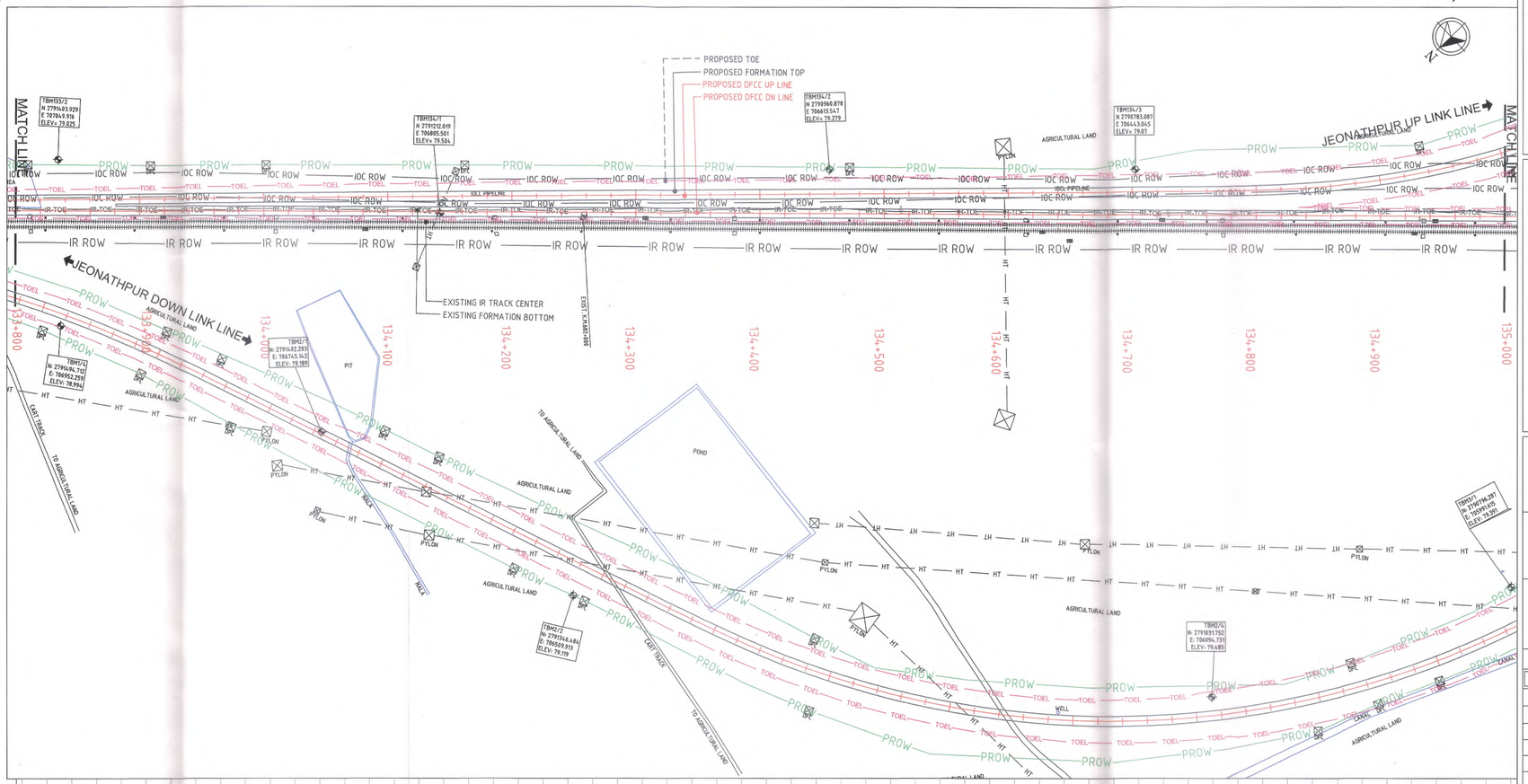
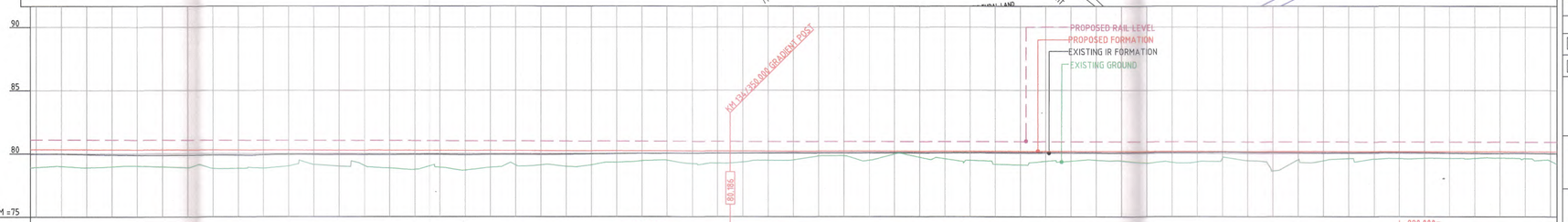
Chainage CH- 133800 CH- 135000

SECTION–CP–201

HOWRAH ⬅ ➡ DELHI





LEVEL DATUM =75

VERTICAL ALIGNMENT: L=850.000m G=-0.027% (1 IN 3744.493); L=850.000m G=-0.027% (1 IN 3744.493); L=890.000m G=-0.007% (1 IN 14590.164); L=890.000m G=-0.007% (1 IN 14590.164)

HORIZONTAL ALIGNMENT: L=2456.654m; L=2456.654m; L=2456.654m

CHAINAGE	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	FILL (+)/ CUT (-)	PROPOSED FORMATION LEVELS	EXIST. IR FORMATION LEVELS	GROUND LEVELS	THROUGH CHAINAGE
133800	6.500	8.399	1.403	80.333	79.972	78.930	
133820	6.500	8.419	1.328	80.328	79.965	78.999	
133840	6.500	8.360	1.425	80.322	79.921	78.897	
133860	6.500	8.379	1.344	80.317	79.897	78.973	
133880	6.500	8.387	1.287	80.312	79.874	79.025	
133900	6.500	8.363	1.344	80.306	79.860	78.963	
133920	6.500	8.353	1.393	80.301	79.866	78.908	
133940	6.500	8.339	1.457	80.295	79.888	78.838	
133960	6.500	8.401	1.451	80.290	79.873	78.839	
133980	6.500	8.446	1.433	80.285	79.896	78.851	
134000	6.500	8.414	1.260	80.279	79.928	79.020	
134020	6.500	8.410	1.133	80.274	79.926	79.142	
134040	6.500	8.428	1.258	80.269	79.921	79.011	
134060	6.500	8.420	1.202	80.263	79.917	79.062	
134080	6.500	8.411	1.407	80.258	79.912	78.852	
134100	6.500	8.408	1.501	80.253	79.925	78.752	
134120	6.500	8.427	1.336	80.247	79.933	78.911	
134140	6.500	8.428	1.552	80.242	79.909	78.690	
134160	6.500	8.457	1.324	80.237	79.929	78.912	
134180	6.500	8.473	1.143	80.231	79.922	79.088	
134200	6.500	8.469	1.123	80.226	79.926	79.103	
134220	6.500	8.458	1.227	80.221	79.940	78.994	
134240	6.500	8.454	1.115	80.215	79.956	79.100	
134260	6.500	8.436	0.903	80.210	79.977	79.308	
134280	6.500	8.394	0.778	80.205	80.001	79.426	
134300	6.500	8.368	0.736	80.199	80.009	79.464	
134320	6.500	8.382	0.997	80.194	80.014	79.198	
134340	6.500	8.349	0.957	80.189	80.015	79.231	
134360	6.500	8.345	0.852	80.185	80.025	79.334	
134380	6.500	8.357	0.728	80.184	80.043	79.455	
134400	6.500	8.354	0.692	80.183	80.060	79.491	
134420	6.500	8.323	0.386	80.181	80.045	79.796	
134440	6.500	8.350	0.361	80.180	80.041	79.818	
134460	6.500	8.354	0.727	80.178	80.052	79.451	
134480	6.500	8.323	0.230	80.177	80.067	79.948	
134500	6.500	8.297	0.479	80.176	80.058	79.697	
134520	6.500	8.273	0.597	80.174	80.060	79.578	
134540	6.500	8.265	0.718	80.173	80.073	79.454	
134560	6.500	8.292	1.028	80.172	80.070	79.144	
134580	6.500	8.277	1.077	80.170	80.066	79.093	
134600	6.500	8.285	0.788	80.169	80.067	79.380	
134620	6.500	8.303	0.774	80.167	80.066	79.394	
134640	6.500	8.313	0.696	80.166	80.054	79.470	
134660	6.500	8.331	0.751	80.165	80.055	79.413	
134680	6.500	8.323	0.909	80.163	80.071	79.254	
134700	6.500	8.290	0.846	80.162	80.076	79.316	
134720	6.500	8.324	0.817	80.161	80.081	79.344	
134740	6.500	8.304	0.522	80.159	80.110	79.638	
134760	6.500	8.293	0.714	80.158	80.099	79.443	
134780	6.500	8.398	1.528	80.157	80.079	78.629	
134800	6.500	8.372	0.646	80.155	80.059	79.510	
134820	6.500	8.380	0.728	80.154	80.048	79.426	
134840	6.500	8.361	0.547	80.152	80.050	79.605	
134860	6.500	8.363	0.592	80.151	80.068	79.559	
134880	6.500	8.413	0.550	80.150	80.073	79.599	
134900	6.500	8.372	0.526	80.148	80.065	79.622	
134920	6.500	8.400	0.528	80.147	80.037	79.618	
134940	6.500	8.443	0.530	80.146	80.012	79.616	
134960	6.500	8.450	0.503	80.144	80.006	79.642	
134980	6.500	8.437	0.542	80.143	80.016	79.601	
135000	6.500	8.477	0.727	80.141	79.992	79.415	

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW — DFCC ROW LINE
- IR-TOE — EXISTING IR TOE LINE
- TOEL — DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.00m AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES,HT/LT LINES,ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER : DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE : ALIGNMENT PLAN & PROFILE FROM KM. 133/800 TO KM. 135/000

DRAWING NO.						SIZE	REV	SCALE
D	2	AL	0	0	1	A1	0	HOR:- 1 : 2000, VER:- 1 : 200
3								

REVIEWS

REV	DATE	REMARKS
0	21/09/2018	DEFINITIVE

DRAWING STAGE

- [ ] FOR APPROVAL
- [x] GOOD FOR CONSTRUCTION

PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.

REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.

OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	21/09/2018	TC	
CHKD.	21/09/2018		
APPD.	21/09/2018	S. MITRA	

SUBMITTED BY GIL-SIL JV

	DATE	NAME	SIGN.
CHKD.	21/09/2018	Deepak Gupta	
APPD.	21/09/2018	Nisheeth K. Singh	

NOC BY SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	16/02/2019	ANURANJAN PRASAD	
NOC	16/02/2019	P. Amerikanos	

APPROVAL BY DFCC

	DATE	NAME	SIGN.
CHKD.			
APPD.			

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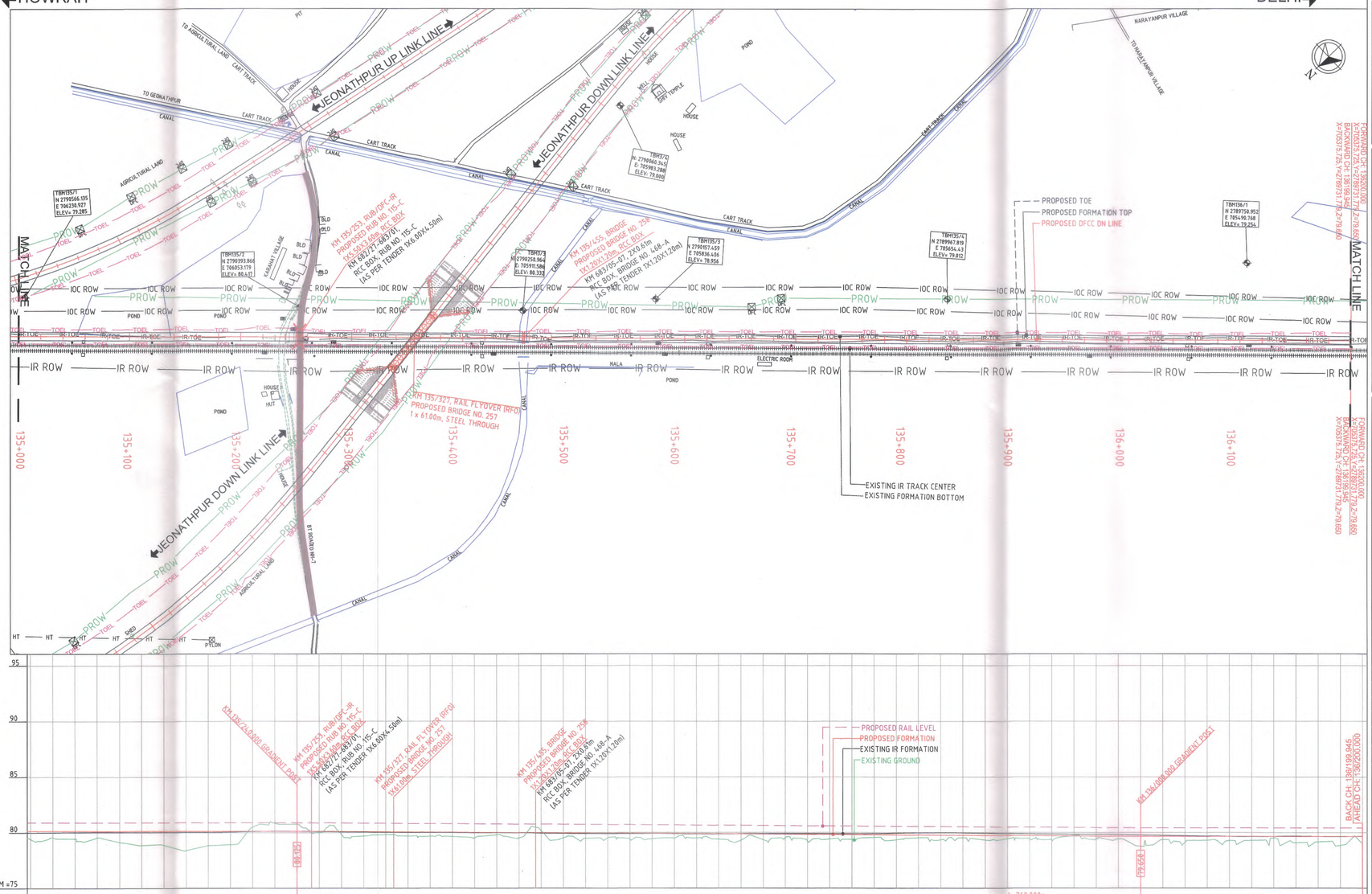
Chainage CH- 135000 CH- 136200

HOWRAH ⬅ ➡ DELHI



VERTICAL ALIGNMENT	L=890.000m G=-0.007% (1 IN 14590.164); L=760.000m G=-0.062% (1 IN 1600.000); L=760.000m G=-0.062% (1 IN 1600.000); L=200.000m G=0.000 (LEVEL)
HORIZONTAL ALIGNMENT	L=2456.654m; L=2456.654m; L=2456.654m

DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	FILL (+)/ CUT (–)	PROPOSED FORMATION LEVELS	EXIST. IR FORMATION LEVELS	GROUND LEVELS	CHAINAGE	THROUGH CHAINAGE
6.500	8.417	0.727	80.141	79.992	79.415	135.000	
6.500	8.417	0.591	80.140	80.010	79.550	135.020	
6.500	8.421	0.685	80.139	80.033	79.453	135.040	
6.500	8.498	0.601	80.137	80.050	79.536	135.060	
6.500	8.487	0.986	80.136	80.038	79.150	135.080	
6.500	8.457	1.277	80.135	80.028	78.858	135.100	
6.500	8.485	1.255	80.133	80.036	78.879	135.120	
6.500	8.449	1.739	80.132	80.029	78.392	135.140	
6.500	8.427	1.281	80.130	80.031	78.850	135.160	
6.500	8.392	1.199	80.129	80.056	78.931	135.180	
6.500	8.413	-0.364	80.128	80.106	80.492	135.200	
6.500	8.370	-0.721	80.126	80.133	80.847	135.220	
6.500	8.447	-0.635	80.125	80.128	80.760	135.240	
6.500	8.429	0.089	80.113	80.104	80.023	135.260	
6.500	8.449	0.234	80.100	80.068	79.867	135.280	
6.500	8.497	0.393	80.068	80.049	79.695	135.300	
6.500	8.517	0.260	80.075	80.040	79.815	135.320	
6.500	8.500	0.359	80.063	80.025	79.703	135.340	
6.500	8.525	0.371	80.050	80.008	79.680	135.360	
6.500	8.564	0.390	80.038	79.996	79.647	135.380	
6.500	8.536	0.492	80.025	79.990	79.534	135.400	
6.500	8.524	0.213	80.013	79.995	79.799	135.420	
6.500	8.483	0.476	80.000	79.978	79.525	135.440	
6.500	8.534	-0.163	79.988	79.942	80.150	135.460	
6.500	8.478	0.452	79.975	79.920	79.523	135.480	
6.500	8.514	0.470	79.963	79.909	79.492	135.500	
6.500	8.515	0.426	79.950	79.898	79.524	135.520	
6.500	8.486	0.547	79.938	79.892	79.390	135.540	
6.500	8.486	0.488	79.925	79.909	79.438	135.560	
6.500	8.461	0.409	79.913	79.892	79.503	135.580	
6.500	8.458	0.392	79.900	79.877	79.508	135.600	
6.500	8.440	0.486	79.888	79.869	79.402	135.620	
6.500	8.436	0.572	79.875	79.888	79.304	135.640	
6.500	8.449	0.512	79.863	79.899	79.350	135.660	
6.500	8.460	0.305	79.850	79.905	79.545	135.680	
6.500	8.459	0.610	79.838	79.908	79.228	135.700	
6.500	8.426	0.403	79.825	79.895	79.423	135.720	
6.500	8.439	0.416	79.813	79.888	79.397	135.740	
6.500	8.454	0.239	79.800	79.901	79.562	135.760	
6.500	8.437	0.433	79.788	79.939	79.354	135.780	
6.500	8.446	0.257	79.775	79.961	79.519	135.800	
6.500	8.423	0.415	79.763	79.969	79.348	135.820	
6.500	8.427	0.222	79.750	79.963	79.529	135.840	
6.500	8.393	0.400	79.738	79.935	79.338	135.860	
6.500	8.451	0.277	79.725	79.896	79.448	135.880	
6.500	8.421	0.301	79.713	79.879	79.411	135.900	
6.500	8.360	0.399	79.700	79.865	79.301	135.920	
6.500	8.341	-0.037	79.688	79.847	79.724	135.940	
6.500	8.347	0.198	79.675	79.840	79.477	135.960	
6.500	8.343	0.243	79.663	79.810	79.419	135.980	
6.500	8.339	0.884	79.650	79.778	78.766	136.000	
6.500	8.334	0.293	79.650	79.745	79.357	136.020	
6.500	8.330	0.536	79.650	79.712	79.115	136.040	
6.500	8.325	0.344	79.650	79.679	79.307	136.060	
6.500	8.314	0.368	79.650	79.647	79.282	136.080	
6.500	8.283	0.357	79.650	79.637	79.294	136.100	
6.500	8.285	0.136	79.650	79.654	79.515	136.120	
6.500	8.336	0.558	79.650	79.670	79.092	136.140	
6.500	8.261	0.486	79.650	79.646	79.164	136.160	
6.500	8.259	0.806	79.650	79.640	78.844	136.180	
6.500		0.617	79.650	79.656	79.033	136.200	

SECTION–CP–201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW — PROW: DFCC ROW LINE
- IR-TOE — IR-TOE: EXISTING IR TOE LINE
- TOEL — TOEL: DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.00m AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES,HT/LT LINES,ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER : DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE : ALIGNMENT PLAN & PROFILE FROM KM. 135/000 TO KM. 136/200

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 0 1 4	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
0	21/09/2018	DEFINITIVE

DRAWING STAGE

- [ ] FOR APPROVAL
- [x] GOOD FOR CONSTRUCTION

PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.
REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.
OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	21/09/2018	TC	
CHKD.	21/09/2018		
APPD.	21/09/2018	S. MITRA	

SUBMITTED BY GIL-SIL JV

	DATE	NAME	SIGN.
CHKD.	21/09/2018	Reepak gupta	
APPD.	21/09/2018	Nisheeth K. Singh	

NOC BY SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	16-02-2019	ANURANJAN PRASAD	
NOC	16-02-2019	P. Amerikanos	

APPROVAL BY DFCC

	DATE	NAME	SIGN.
CHKD.			
APPD.			

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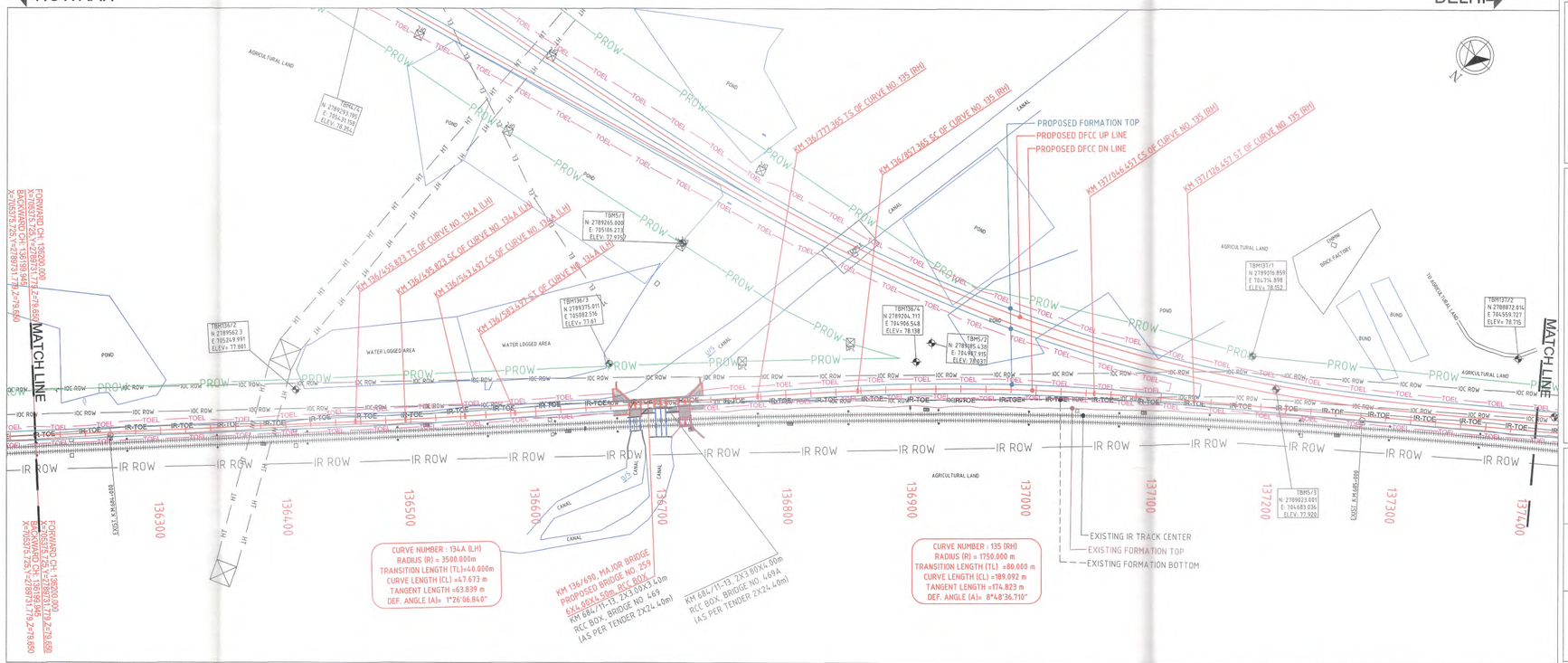
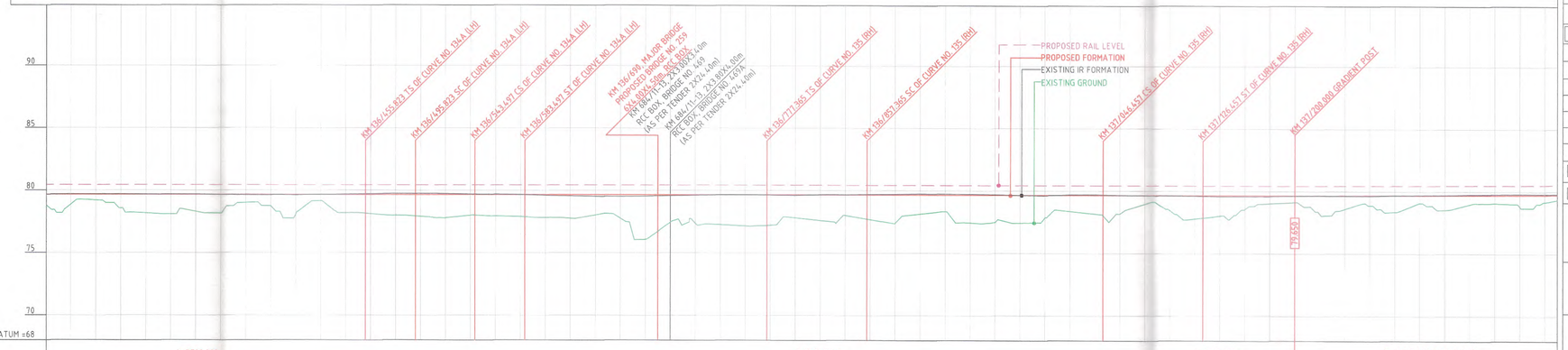
Chainage CH- 136200 CH- 137400

HOWRAH ⬅ ➡ DELHI





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