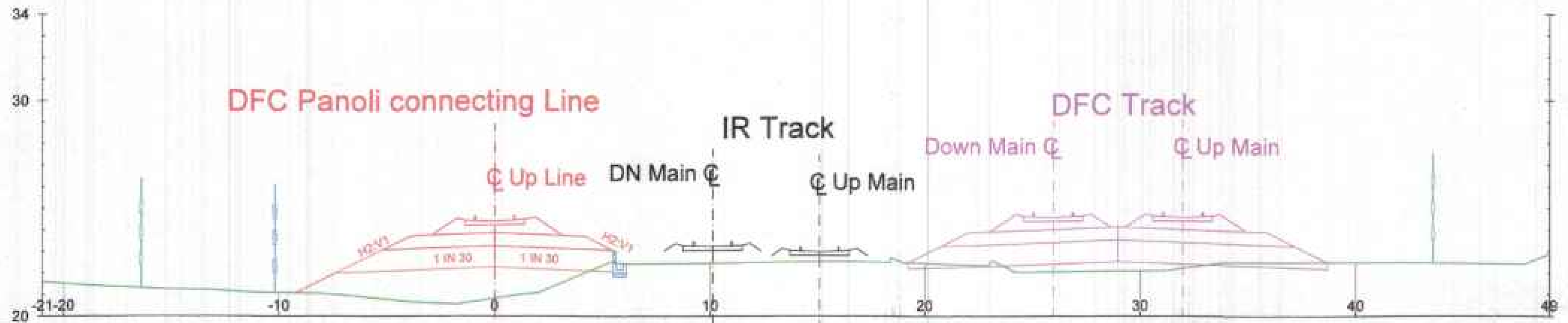
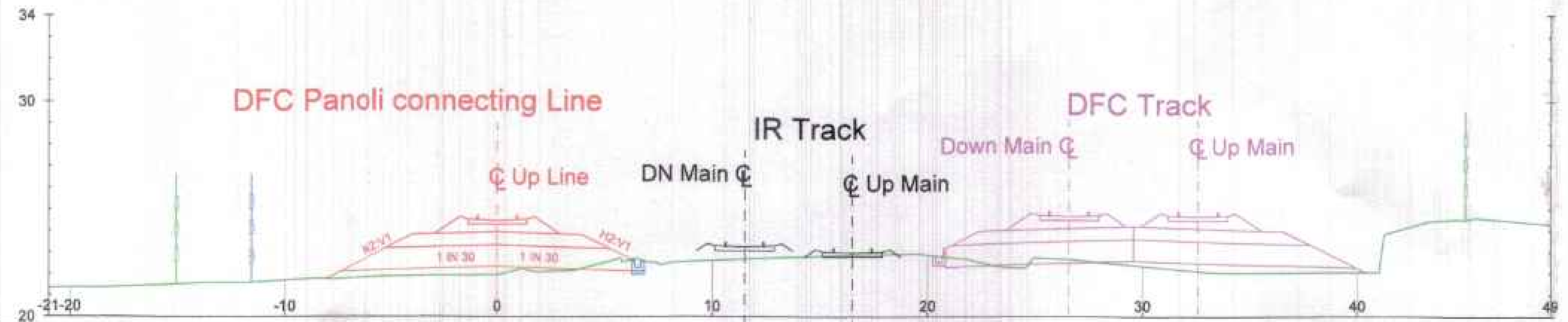


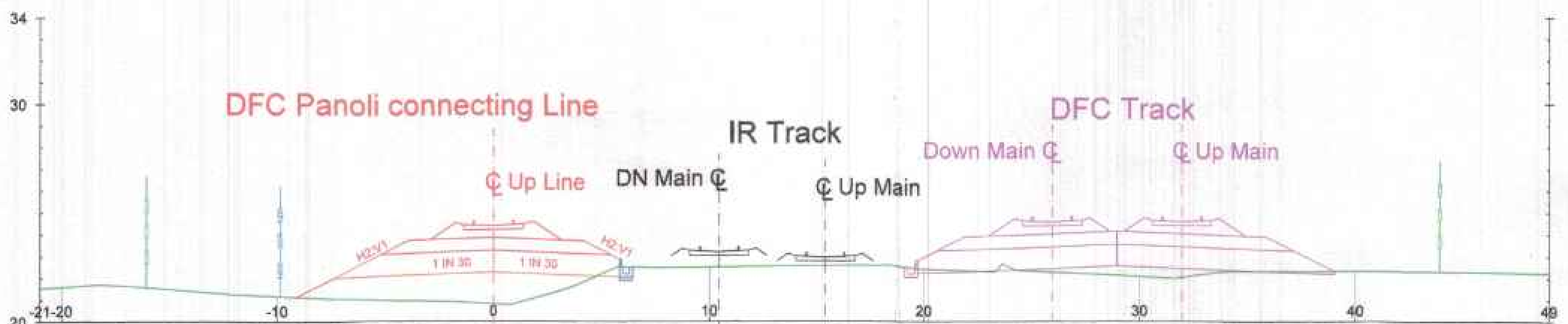
Prop. RL / Ex. RL	24.597, 24.637, 23.435, 23.434, 23.197, 23.191
Prop. FL	21.079, 23.081, 23.724, 23.855, 23.716, 23.073, 22.427
Ground Level	21.538, 21.234, 21.079, 20.822, 20.686, 20.817, 22.013, 22.506, 22.427, 22.505, 22.458, 22.059
Offset	-20.000, -16.929, -15.000, -10.728, -9.220, -5.216, -3.930, 0.000, 4.180, 5.466, 6.757, 10.117, 15.000, 20.000, 25.000, 25.974, 31.974, 43.587

Chainage 59+660.000



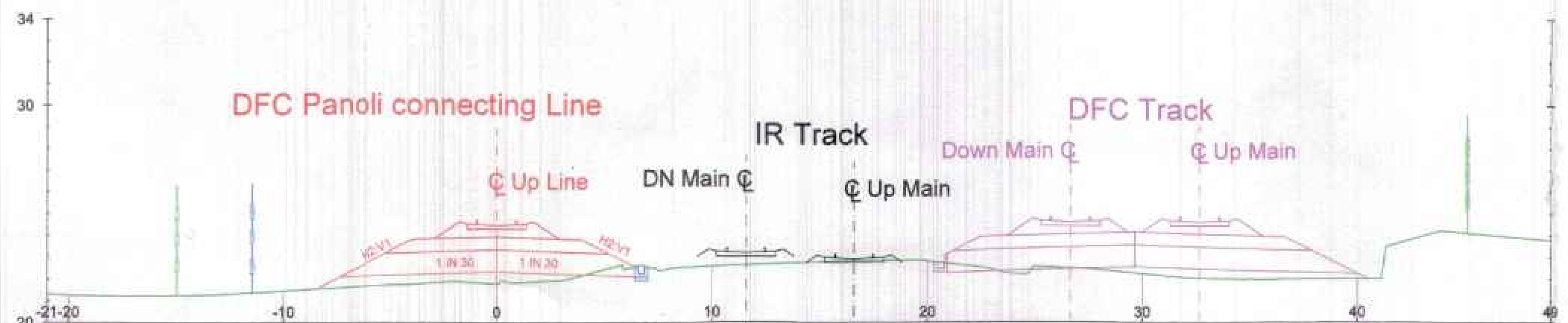
Prop. RL / Ex. RL	24.685, 24.688, 23.438, 23.434, 23.180, 23.175
Prop. FL	21.753, 23.169, 23.812, 23.943, 23.811, 23.168, 22.658
Ground Level	21.352, 21.529, 21.753, 21.872, 21.897, 21.956, 22.262, 22.593, 22.658, 22.822, 22.873, 22.723
Offset	-20.000, -15.491, -15.000, -11.989, -8.048, -5.216, -3.930, 0.000, 3.951, 5.236, 6.256, 11.497, 15.000, 20.000, 25.000, 26.576, 32.578, 45.015

Chainage 59+720.000



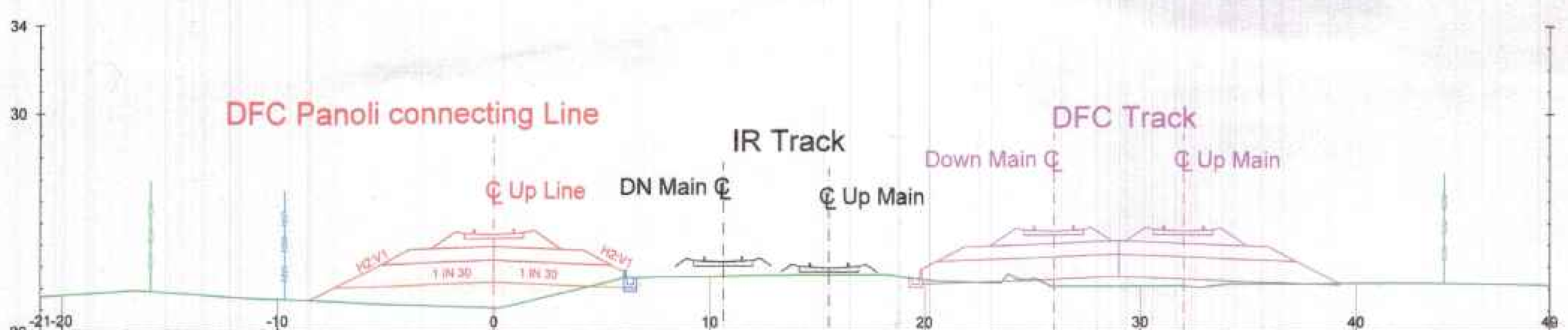
Prop. RL / Ex. RL	24.612, 24.652, 23.441, 23.440, 23.184, 23.174
Prop. FL	21.157, 23.096, 23.739, 23.870, 23.731, 23.088, 22.528
Ground Level	21.619, 21.498, 21.157, 20.999, 20.968, 20.807, 21.828, 22.412, 22.528, 22.565, 22.435, 22.339
Offset	-20.000, -16.592, -15.000, -10.390, -9.094, -5.216, -3.930, 0.000, 4.180, 5.466, 6.586, 10.453, 15.000, 20.000, 25.000, 25.958, 31.958, 43.924

Chainage 59+680.000



Prop. RL / Ex. RL	24.690, 24.692, 23.437, 23.433, 23.180, 23.176
Prop. FL	21.613, 23.174, 23.817, 23.948, 23.816, 23.174, 22.571
Ground Level	21.262, 21.264, 21.573, 21.723, 21.771, 21.805, 22.186, 22.517, 22.571, 22.814, 22.856, 22.599
Offset	-20.000, -15.399, -15.000, -11.897, -8.337, -5.216, -3.930, -0.000, 3.945, 5.230, 6.435, 11.581, 15.000, 20.000, 25.000, 26.649, 32.651, 45.108

Chainage 59+722.892



Prop. RL / Ex. RL	24.627, 24.665, 23.444, 23.442, 23.176, 23.165
Prop. FL	21.453, 23.111, 23.754, 23.885, 23.746, 23.103, 22.534
Ground Level	21.681, 21.769, 21.453, 21.317, 21.264, 21.124, 22.065, 22.381, 22.534, 22.624, 22.466, 22.485
Offset	-20.003, -16.415, -15.003, -10.213, -8.534, -5.219, -3.933, -0.003, 4.165, 5.451, 6.588, 10.630, 14.997, 19.997, 24.997, 26.008, 32.008, 44.102

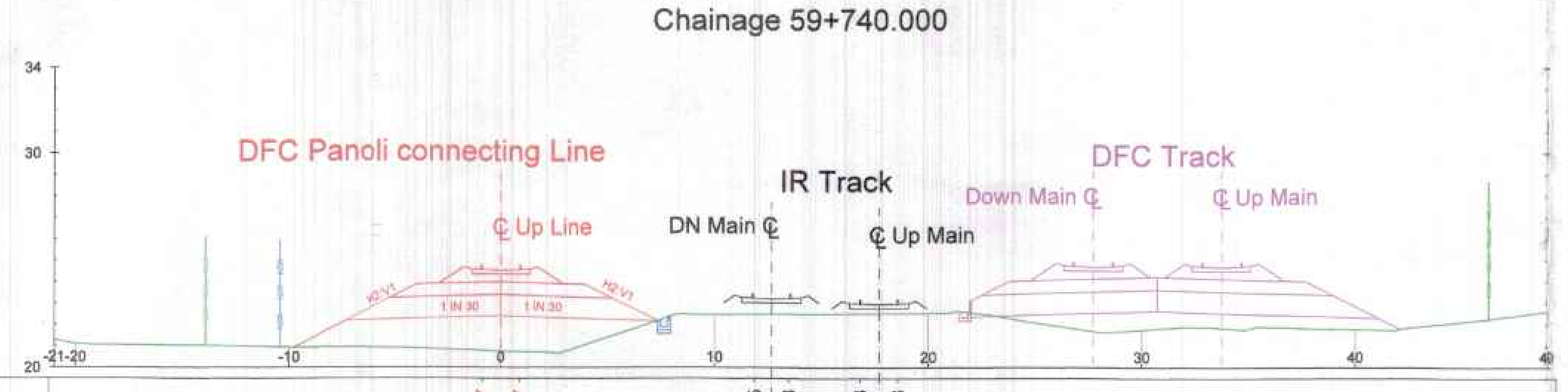
Chainage 59+687.892

Prop. RL / Ex. RL	24.721, 24.721, 23.432, 23.426, 23.170, 23.173
Prop. FL	21.149, 23.205, 23.848, 23.979, 23.848, 23.205, 22.303
Ground Level	21.471, 21.167, 21.149, 21.011, 20.969, 20.874, 21.743, 22.074, 22.303, 22.667, 22.725, 22.170
Offset	-20.000, -15.000, -14.856, -11.354, -9.327, -5.216, -3.930, 0.000, 3.930, 5.216, 7.019, 12.077, 15.000, 20.000, 25.000, 27.125, 33.128, 45.629

Chainage 59+740.000

Prop. RL / Ex. RL	24.649, 24.675, 23.444, 23.442, 23.179, 23.168
Prop. FL	21.947, 23.133, 23.776, 23.907, 23.770, 23.127, 22.632
Ground Level	21.712, 22.156, 21.947, 21.906, 21.884, 21.827, 22.478, 22.682, 22.632, 22.837, 22.555, 22.641
Offset	-20.000, -16.099, -15.000, -11.562, -7.588, -5.216, -3.930, 0.000, 4.094, 5.379, 6.369, 10.936, 15.000, 20.000, 25.000, 26.160, 32.161, 44.419

Chainage 59+700.000



Prop. RL / Ex. RL	24.757, 24.757, 23.425, 23.418, 23.153, 23.158
Prop. FL	20.961, 23.241, 23.884, 24.015, 23.884, 23.241, 22.179
Ground Level	21.101, 21.053, 20.961, 20.914, 20.888, 20.758, 21.073, 21.493, 22.179, 22.512, 22.549, 22.085
Offset	-20.000, -15.000, -14.229, -10.728, -9.776, -5.216, -3.930, 0.000, 3.930, 5.216, 7.339, 12.660, 15.000, 20.000, 25.000, 27.731, 33.734, 46.243

Chainage 59+760.000

PMC-2R OCG CONSORTIUM | OCG-OCI-NK-NKI-RITES
Submtal No/ Ltr. Ref. No: | Date:
Engineer's Response
NONO
Name | Signature
Checked [signature]
Reviewed
Authorised Signatory [signature]
Date: 04-02-2020
(NAVEEN CHOPRA)
Alignment Engineer
PMC -2R (OCG Consortium)
For 'The Engineer' for WDFC Phase -2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCIL - CTP-13
Contractor's Representative [signature] | Date:

N. RAMAKRISHNA RAJU
Chief Design Engineer [signature]

STUP CONSULTANTS PVT. LTD.
PLOT NO.22-A SECTOR-19-C, PALM BEACH MARG, VASHI, TEL: 40887777
Navi Mumbai 400705

[signature]
(S.K. Pathak)

NOTES:

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2. EXISTING WORK IS SHOWN IN BLACK.
3. PROPOSED WORK IS SHOWN IN RED.
4. CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E ADJACENT TO IR TRACK).
5. DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/ 0061E TO 0078E (NONOC RECEIVED VIDE LETTER "L NO. L/OCGC/DFCC/CMT/CTP-13/1906/25094 (DATED 07-JUNE-2019)"
6. DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.86M VIDE ENGINEER LETTER NO. - L/OCGC/DFCC/CMT/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
7. TRACK FORMATION CROSS FALL - 1:30.
8. FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
9. FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
10. FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
11. THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINGAE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
12. FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
13. FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
14. IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
15. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
16. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/E&M CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 .... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
13/GE/DD/0762 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH 104.000 KM TO 126.000 KM
13/GE/DD/0763 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km
13/GE/DD/0765 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM
13/DE/DD/0766 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/ DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **
EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE — ROW — ROW —
PROPOSED NALLA DIVERSION
INNER EDGE OF PROPOSED ROAD — PRD — PRD —
INNER EDGE OF NOT IN SCOPE SERVICE ROAD — NSR — NSR —
BLANKET
SUBGRADE
EXISTING GROUND
FUTURE IR TRACK

NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED	APPROVED
3	26-NOV-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1910/28382 (DATED 14-OCT-2019)	ACT	SRG	SKP	SKP
2	26-AUG-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1908/27131 (DATED 05-AUG-2019)	ACT	SRG	SKP	SKP
1	08-JUL-19	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP	SKP

PROJECT
WESTERN DEDICATED FREIGHT CORRIDOR
ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13
PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION | SEAL & SIGN

EMPLOYER
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC
PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM
OCG - OCI - NK - NKI - RITES
OCG CONSORTIUM

CONTRACTOR
EXPRESS FREIGHT CONSORTIUM
MITSUI&CO., LTD. | TATA

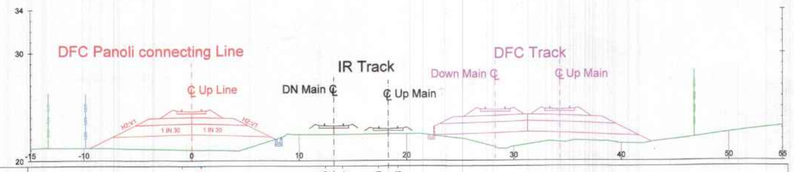
DESIGNER
STUP Consultants Pvt. Ltd.

TITLE
DETAILED CROSS SECTIONS FROM CH. 59+660 TO CH. 59+760

JOB NO: 8309			SIZE A1	STATUS
	NAME	SIGN	PROJECTION	ID: (INCEPTION)
DRWN	ACT	[signature]		TD: (TECHNICAL)
DSGN	SRG	[signature]		✓ CD: (CONSTRUCTION)
CHKD	SKP	[signature]	SCALE	BD: (AS BUILT)
APPD	SKP	[signature]	1:250	DATE : 08-JUL-2019

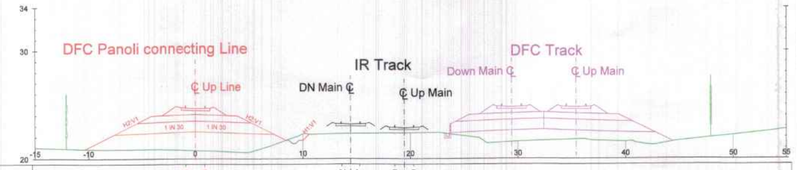
DRG. NO. 13/AL/DG/0165-CD | REV-3

13-AL-000165R3.dwg



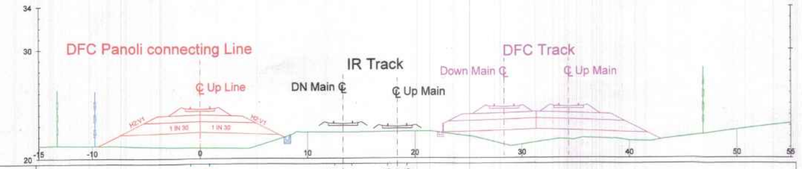
Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-15.000			21.190
-13.686		21.164	21.167
-10.184		23.273	21.105
-9.446		23.916	21.082
-5.228	24.791	24.047	21.008
-3.942	24.789	23.916	21.008
0.000		23.274	20.918
3.930	23.419	22.202	21.162
5.218	23.414	21.992	21.839
7.359	23.140		21.980
7.778	23.138		
13.236			22.442
15.000			
20.000			22.468
25.000			22.055
28.277			
34.279			
46.792			

Chainage 59+777.892



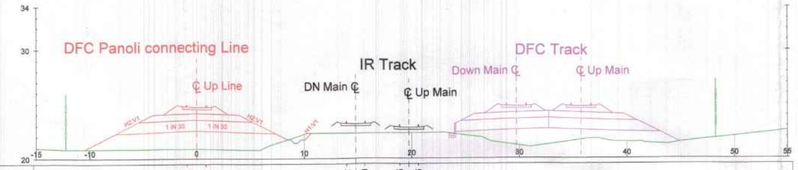
Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-15.000			21.810
-12.507		20.901	20.901
-10.346		23.341	20.894
-5.466	24.905	23.984	20.900
-4.180	24.866		
0.000		24.124	20.770
3.930	23.402	23.993	20.829
5.216	23.407	23.350	20.670
7.359	23.079	22.278	21.353
8.431	23.079	21.742	21.742
14.455			22.342
15.000			
20.000			22.407
25.000			22.126
29.411			
35.412			
47.928			

Chainage 59+820.000



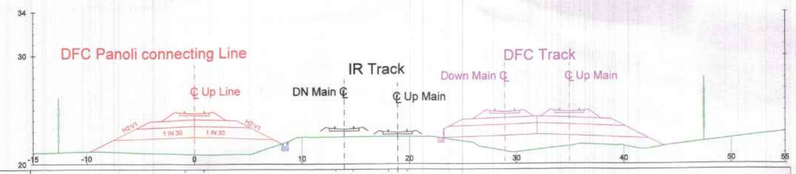
Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-15.000			21.223
-13.622		21.168	21.168
-10.120		23.277	21.097
-9.448		23.920	21.073
-5.231	24.796	24.051	20.999
-3.945	24.793	23.920	21.073
0.000		23.277	20.929
3.930	23.418	22.206	21.127
5.216	23.414	21.976	21.820
7.359	23.136		21.976
7.819	23.133		
13.304			22.444
15.000			
20.000			22.470
25.000			22.055
28.341			
34.344			
46.857			

Chainage 59+780.000



Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-15.000			20.947
-12.128		20.867	20.867
-10.487		23.378	20.884
-5.466	24.942	24.020	20.897
-4.180	24.902		
0.000		24.160	20.899
3.930	23.392	24.029	20.827
5.216	23.399	23.386	20.812
7.359	23.055	22.315	21.405
8.480	23.066	21.754	21.754
14.707			22.316
15.000			
20.000			22.373
25.000			22.142
29.740			
35.740			
48.255			

Chainage 59+840.000

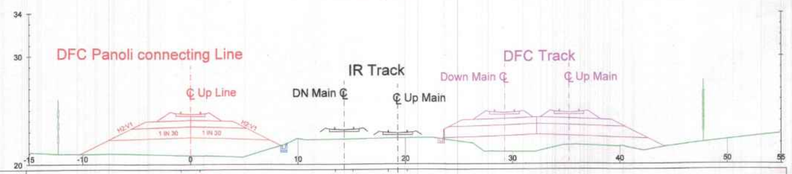


Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-15.000			21.065
-13.034		21.150	21.150
-9.690		23.308	21.037
-5.374	24.855	23.951	21.006
-4.088	24.829		
0.000		24.087	20.913
3.930	23.410	23.955	20.863
5.216	23.410	23.314	20.898
7.359	23.105	22.242	21.608
8.122	23.097	21.860	21.860
13.931			22.509
15.000			
20.000			22.467
25.000			22.092
28.927			
34.930			
47.446			

Chainage 59+800.000

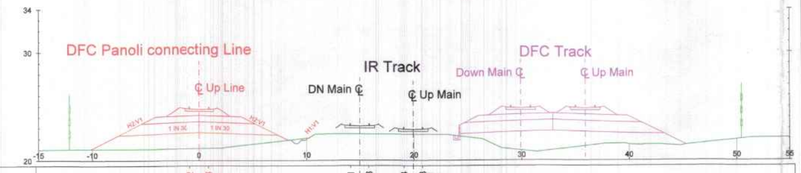
Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-14.995			21.017
-11.953		20.993	20.995
-10.266		23.405	21.011
-5.443	24.865	24.048	21.015
-4.157	24.828		
0.005		24.186	21.043
3.935	23.384	24.055	21.165
5.221	23.391	23.412	21.344
7.363	23.039	22.341	21.842
8.507	23.070	21.769	21.801
14.005			22.415
15.005			
20.005			22.399
25.005			22.151
29.880			
35.880			
50.399			

Chainage 59+854.650



Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-14.986			21.152
-12.681		20.943	20.943
-10.218		23.329	20.971
-5.447	24.890	23.972	20.922
-4.161	24.853		
0.004		24.111	20.831
3.934	23.405	23.980	20.707
5.220	23.408	23.337	20.779
7.363	23.087	22.265	21.438
8.307	23.067	21.763	21.746
14.285			22.347
15.004			
20.004			22.414
25.004			22.116
29.256			
35.258			
47.774			

Chainage 59+812.892



Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-15.000			20.990
-11.914		21.072	21.072
-10.113		23.415	21.070
-5.428	24.972	24.058	21.072
-4.142	24.938		
0.000		24.196	21.124
3.930	23.381	24.065	21.398
5.216	23.388	23.422	21.540
7.359	23.034	22.351	21.776
8.300	23.063	21.860	21.860
14.000			22.430
15.000			
20.000			22.413
25.000			22.154
29.911			
35.911			
50.432			

Chainage 59+860.000

PMC-2R OCG CONSORTIUM	OCG-OCI-NK-NKI-RITES
Submittal No/ Ltr. Ref. No:	Date:
Engineer's Response	
NONO	
	Name / Signature
Checked	P.P
Reviewed	
Authorized Signatory	
Date:	04-02-2020

(NAVEEN CHOPRA)
Alignment Engineer
PMC -2R (OCG Consortium)
For 'The Engineer' for WDFC Phase -2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCIL - CTP-13
Contractor's Representative
Date:

N. RAMAKRISHNA RAJU
Chief Design Engineer

STUP CONSULTANTS PVT. LTD. PLOT NO 32-A SECTOR-19-C PALM BEACH MARG, VASHI, TEL: 43827777 Navi Mumbai 400703

C.K. Pathak

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14. IF ROW IS GREATER THAN CROSS-SECTION LIMIT. THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
15. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
16. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/E&M CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 .... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
13/GE/DD/0762 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH 104.000 KM TO 126.000 KM
13/GE/DD/0763 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km
13/GE/DD/0765 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM
13/DE/DD/0766 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/ DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **
EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE
PROPOSED NALLA DIVERSION
INNER EDGE OF PROPOSED ROAD
INNER EDGE OF NOT IN SCOPE SERVICE ROAD
BLANKET
SUBGRADE
EXISTING GROUND
FUTURE IR TRACK

NO.	DATE	REVISION	DRWN	DESIGNED	CHECKED	APPROVED
3	28-NOV-19	REVISED AS PER PMC COMMENTS LNO. L/OCGC/DFCCI/CTP-13/1910/25092 DATED 14-OCT-2019)	ACT	SRG	SKP	SKP
2	26-AUG-19	REVISED AS PER PMC COMMENTS LNO. L/OCGC/DFCCI/CTP-13/1902/7101 DATED 05-AUG-2019)	ACT	SRG	SKP	SKP
1	09-JUL-19	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP	SKP

PROJECT
WESTERN DEDICATED FREIGHT CORRIDOR
ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13
PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION | SEAL & SIGN

EMPLOYER
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC
PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM
OCG CONSORTIUM OCG - OCI - NK - NKI - RITES

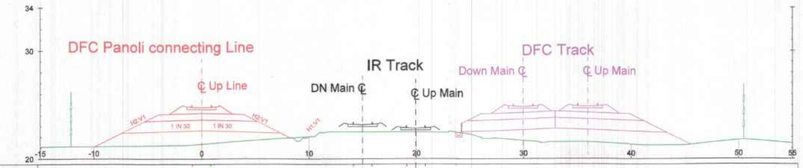
CONTRACTOR
EXPRESS FREIGHT CONSORTIUM
MITSUI & CO., LTD.

DESIGNER
STUP Consultants Pvt. Ltd.

TITLE
DETAILED CROSS SECTIONS FROM CH. 59+777.892 TO CH. 59+860

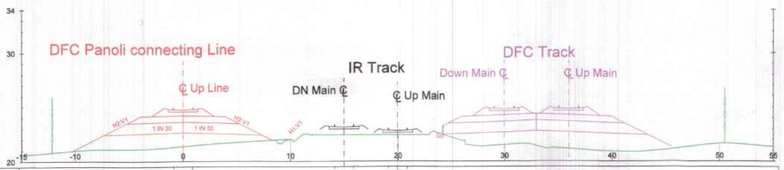
JOB NO: 8309			SIZE: A1	STATUS
	NAME	SIGN	PROJECTION	ID: (INCEPTION)
DRWN	ACT			TD: (TECHNICAL)
DSGN	SRG			✓ CD: (CONSTRUCTION)
CHKD	SKP		SCALE 1:250	BD: (AS BUILT)
APPD	SKP			DATE : 08-JUL-2019
DRG. NO. 13/AL/DG/0166-CD				REV-3

13-AL-DG0166R3.dwg



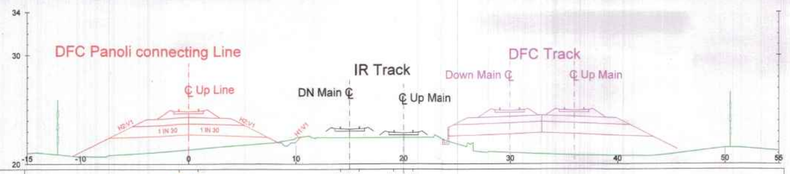
Prop. RL / Ex. RL					24.985	24.974					23.370	23.377	23.018	23.036																
Prop. FL		21.134		23.456	24.099	24.232	24.101	23.458	22.357	21.948																				
Ground Level	21.120	21.134	21.204	21.224	21.398	21.398	21.654	21.747	21.891	21.948	22.494		22.458		22.287															
Offset	-15.000	-11.842 -9.929		-5.285 -3.999		-0.000	3.930 5.216		7.359 8.236		14.980		20.000		25.000		29.954		35.954				50.488							

Chainage 59+880.000



Prop. RL / Ex. RL					24.992	24.982					23.364	23.371	23.006	23.026																
Prop. FL		20.950		23.476	24.119	24.250	24.119	23.476	22.404	21.945																				
Ground Level	20.858	20.862	21.109	21.130	21.387	21.387	21.660	21.744	21.885	21.945	22.443		22.407		22.239															
Offset	-15.000	-11.829 -10.269		-5.218 -3.932		0.000	3.930 5.216		7.359 8.278		14.980		20.000		25.000		29.953		35.953				50.488							

Chainage 59+889.650

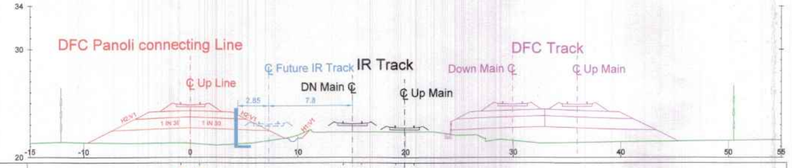


Prop. RL / Ex. RL					25.010	25.010					23.355	23.361	22.985	23.002																
Prop. FL		20.721		23.494	24.137	24.208	24.137	23.494	22.423	21.941																				
Ground Level	21.013	20.721	20.937	21.016	21.309	21.309	21.612	21.710	21.873	21.941	22.388		22.379		21.838															
Offset	-15.000	-11.816 -10.763		-5.216 -3.930		-0.000	3.930 5.216		7.359 8.322		14.987 15.000		20.000		25.000		29.951		35.951				50.460							

Chainage 59+900.000

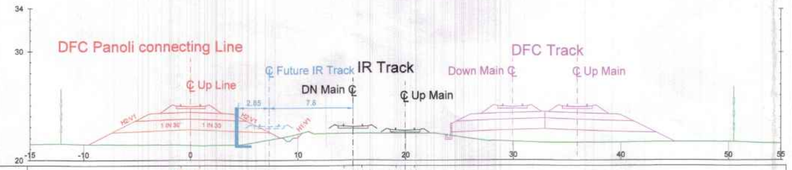
Prop. RL / Ex. RL					25.047	25.047					23.336	23.338	22.922	22.919																
Prop. FL		21.043		23.531	24.174	24.305	24.174	23.531	22.459	21.503																				
Ground Level	21.033	21.043	21.023	21.016	21.136	21.136	21.016	21.164	21.175	21.503	22.300		22.334		22.616															
Offset	-15.000	-11.791 -10.191		-5.216 -3.930		-0.000	3.930 5.216		7.359 9.271		15.000 15.029		20.000		25.000		29.946		35.946				50.493							

Chainage 59+920.000



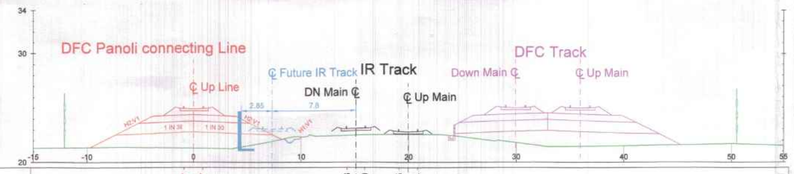
Prop. RL / Ex. RL					25.063	25.063					23.317	23.315	22.944	22.941																
Prop. FL		21.367		23.567	24.210	24.341	24.210	23.567	22.495	21.793																				
Ground Level	21.293	21.367	21.367	21.321	21.310	21.310	21.238	21.317	21.580	21.793	22.344		22.376		22.070															
Offset	-15.000	-11.765 -9.615		-5.216 -3.930		-0.000	3.930 5.216		7.272 7.359 8.763		15.000		20.000		25.000		29.942		35.942				50.496							

Chainage 59+940.000



Prop. RL / Ex. RL					25.119	25.119					23.298	23.292	22.974	22.970																
Prop. FL		21.448		23.603	24.246	24.377	24.246	23.603	22.532	21.846																				
Ground Level	21.450	21.448	21.422	21.414	21.365	21.365	21.394	21.496	21.674	22.046	22.459		22.500		22.168															
Offset	-15.000	-11.739 -9.526		-5.216 -3.930		-0.000	3.930 5.216		7.312 7.359 8.331		15.000		20.000		25.000		29.937		35.937				50.496							

Chainage 59+960.000



Prop. RL / Ex. RL					25.137	25.137					23.276	23.270	22.975	22.964																
Prop. FL		21.362		23.621	24.264	24.385	24.264	23.621	22.550	22.128																				
Ground Level	21.289	21.362	21.378	21.355	21.289	21.289	21.311	21.545	21.948	22.128	22.469		22.532		22.305															
Offset	-15.000	-11.711 -9.733		-5.216 -3.930		-0.000	3.930 5.216		7.301 7.359 8.200		15.000		20.000		25.000		29.932		35.932				50.498							

Chainage 59+980.000

Prop. RL / Ex. RL					25.137	25.137					23.254	23.249	22.974	22.965																
Prop. FL		21.395		23.621	24.264	24.395	24.264	23.621	22.550	22.175																				
Ground Level	21.388	21.395	21.412	21.410	21.396	21.396	21.371	21.450	21.988	22.175	22.448		22.421		22.287															
Offset	-15.000	-11.684 -9.667		-5.216 -3.930		0.000	3.930 5.216		7.292 7.359 8.109		15.000		20.000		25.000		29.928		35.928				50.499							

Chainage 60+000.000

PMC-2R OCG-OCI-NK-NKI-RITES
OCG CONSORTIUM
Submittal Ref. No.: Date:
Engineer's Response
NONO
Checked — Name — Signature
Reviewed
Authorised Signatory
Date: 04-02-2021
(NAVEEN CHOPRA)
Alignment Engineer
PMC -2R (OCG Consortium)
For 'The Engineer' for WDFC Phase -2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCIL - CTP-13
Contractor's Representative — Date:

N. RAMAKRISHNA RAJU
Chief Design Engineer

STUP CONSULTANTS PVT. LTD. PLOT NO.22-A SECTOR-19-C, PALM BEACH MARG, VASHI, TEL.: 40987777 Navi Mumbai 400703
(S. K. Pathak)

NOTES:

1. ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
2. EXISTING WORK IS SHOWN IN BLACK.
3. PROPOSED WORK IS SHOWN IN RED.
4. CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E ADJACENT TO IR TRACK).
5. DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER "L NO. L/OCGC/DFCC/CMT/CTP-13/1906/25094 (DATED 07-JUNE-2019)"
6. DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.86M VIDE ENGINEER LETTER NO. - L/OCGC/DFCC/CMT/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
7. TRACK FORMATION CROSS FALL - 1:30.
8. FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
9. FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
10. FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
11. THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINGAE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
12. FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
13. FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
14. IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
15. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
16. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/E&M CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 .... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
13/GE/DDI/0762 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH 104.000 KM TO 126.000 KM
13/GE/DDI/0763 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km
13/GE/DDI/0765 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM
13/DE/DDI/0766 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/ DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **
EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE
PROPOSED NALLA DIVERSION
INNER EDGE OF PROPOSED ROAD
INNER EDGE OF NOT IN SCOPE SERVICE ROAD
BLANKET
SUBGRADE
EXISTING GROUND
FUTURE IR TRACK

NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED	APPROVED
3	26-NOV-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1910/3382 (DATED 14-OCT-2019)	ACT	SRG	SKP	SKP
2	26-AUG-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1908/3132 (DATED 26-AUG-2019)	ACT	SRG	SKP	SKP
1	09-JUL-19	ISSUE FOR CONSTRUCTION	ASR	SRG	SKP	SKP

PROJECT: WESTERN DEDICATED FREIGHT CORRIDOR ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13 PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION — SEAL & SIGN

EMPLOYER: DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC: PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM — OCG - OCI - NK - NKI - RITES

CONTRACTOR: EXPRESS FREIGHT CONSORTIUM — MITSUI E.C.L. LTD. — TATA

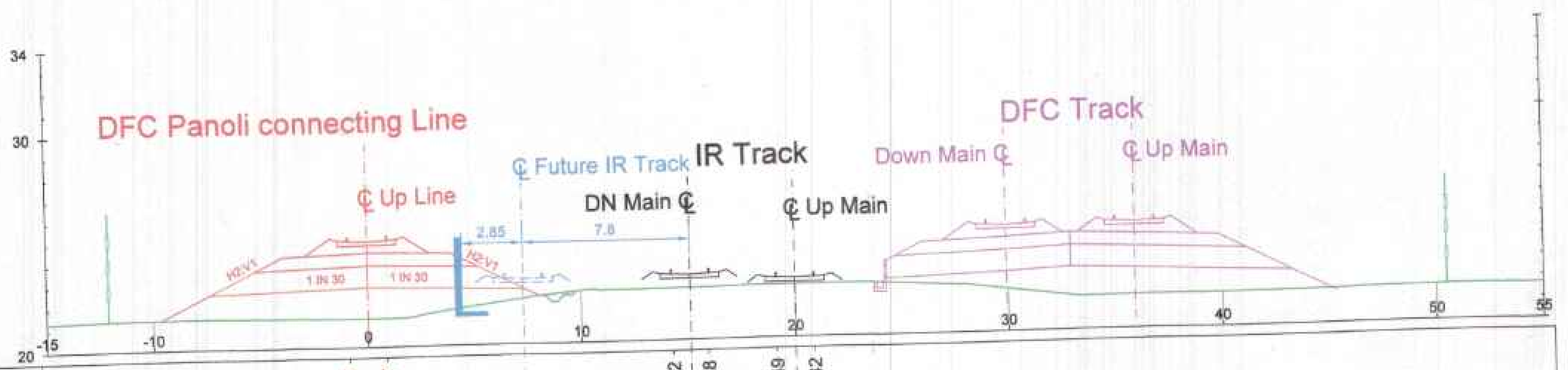
DESIGNER: STUP Consultants Pvt. Ltd.

TITLE: DETAILED CROSS SECTIONS FROM CH. 59+880 TO CH. 60+000

JOB NO: 8309			SIZE A1	STATUS
	NAME	SIGN	PROJECTION	ID: (INCEPTION)
DRWN	ACT			TD: (TECHNICAL)
DSGN	SRG			✓ CD: (CONSTRUCTION)
CHKD	SKP		SCALE 1:250	BD: (AS BUILT)
APPD	SKP			DATE : 08-JUL-2019

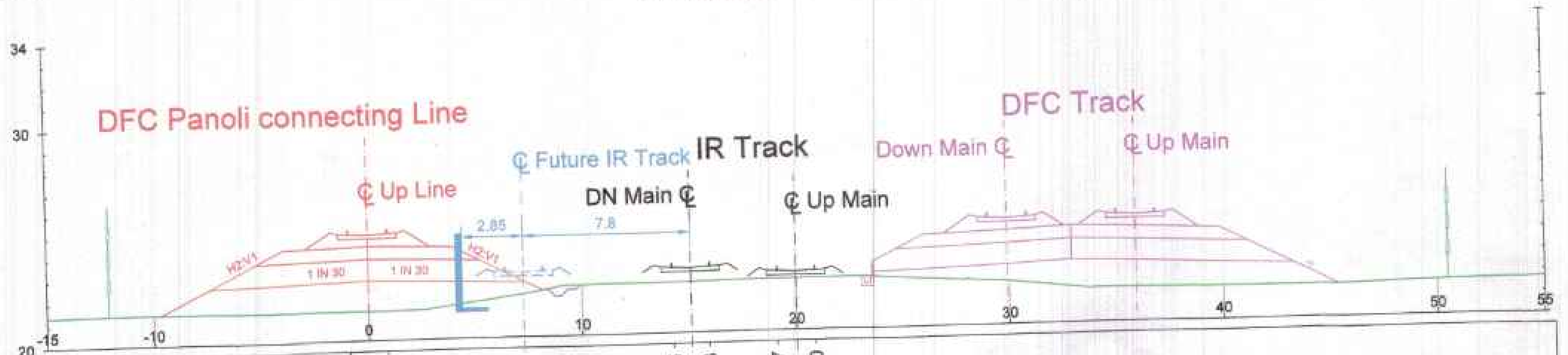
DRG. NO. 13/AL/DG/0167-CD — REV-3

13-AL-00016763.dwg



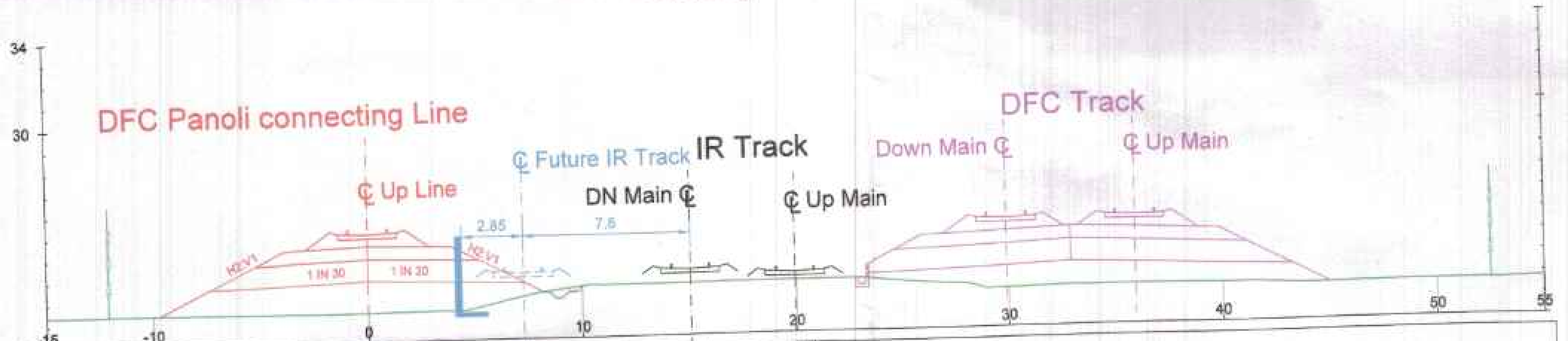
Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-15.000			21.350
-11.662			
-9.627		21.415	21.415
-5.216		23.621	21.407
-3.930		24.264	21.391
-0.000	25.137 25.137	24.395	21.346
3.930		24.264	21.662
5.216		23.621	21.838
7.282			
7.359		22.550	22.132
8.015		22.222	22.222
15.000	23.232		22.425
15.082	23.228		
20.000	22.949 22.942		22.437
25.000			22.377
29.923			
35.923			
50.499			

Chainage 60+020.000



Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-15.000			21.389
-11.640			
-9.670		21.394	21.394
-5.216		23.621	21.378
-3.930		24.264	21.379
-0.000	25.137 25.137	24.395	21.375
3.930		24.264	21.548
5.216		23.621	21.721
7.267			
7.359		22.550	22.022
8.136		22.161	22.161
15.000	23.215		22.372
15.067	23.213		
20.000	22.937 22.920		22.383
25.000			22.302
29.919			
35.919			
50.499			

Chainage 60+040.000

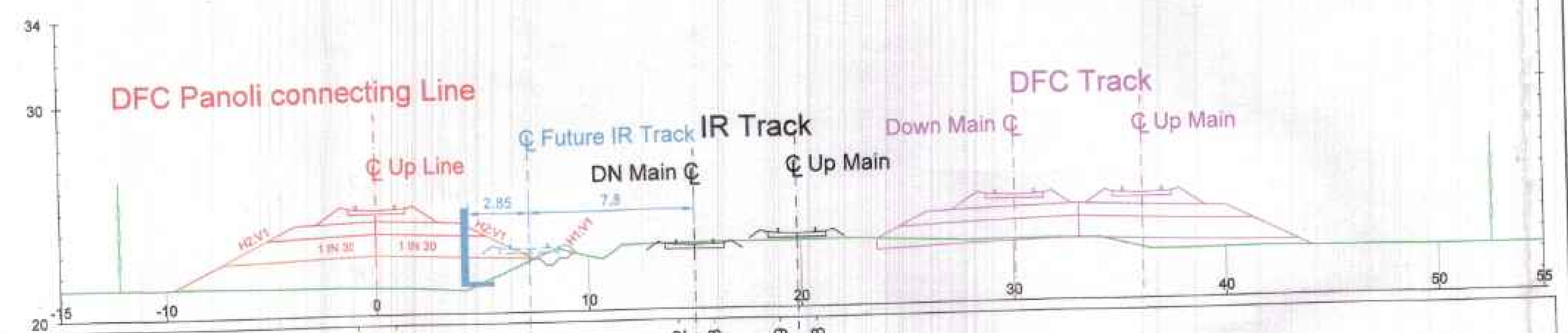


Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-15.000			21.420
-11.613			
-9.708		21.375	21.375
-5.216		23.621	21.365
-3.930		24.264	21.362
-0.000	25.137 25.137	24.395	21.352
3.930		24.264	21.341
5.216		23.621	21.494
7.249			
7.359		22.550	21.970
8.188		22.135	22.135
15.000	23.203		22.393
15.049	23.202		
20.000	22.962 22.947		22.389
25.000			22.235
29.914			
35.914			
52.499			

Chainage 60+060.000

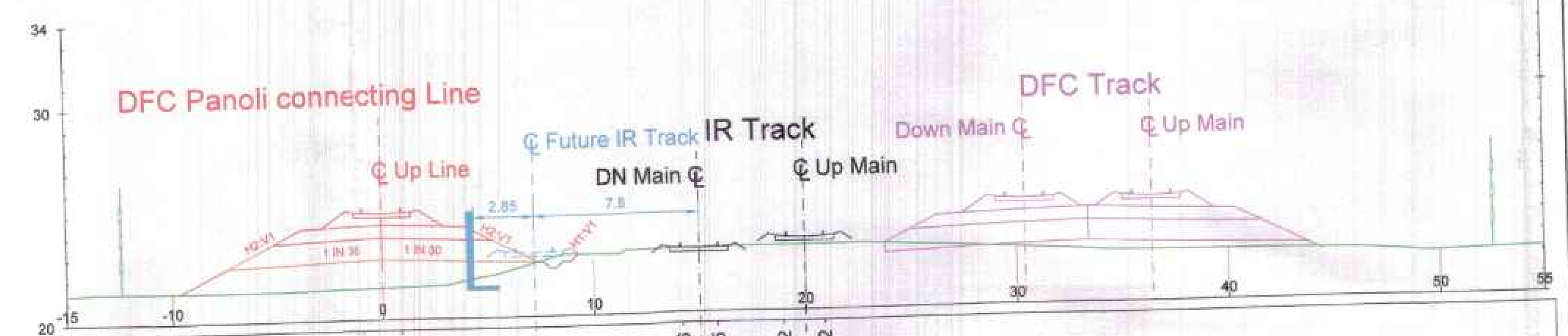
Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-15.000			21.426
-11.571			
-9.644		21.407	21.407
-5.216		23.621	21.472
-3.930		24.264	21.467
0.000	25.137 25.137	24.395	21.451
3.930		24.264	21.435
5.216		23.621	21.752
7.229			
7.407		22.550	22.507
7.359		22.526	22.526
15.000	23.190		23.152
15.029	23.191		
20.000	23.587 23.562		23.134
25.000			22.927
29.945			
35.946			
52.499			

Chainage 60+080.000



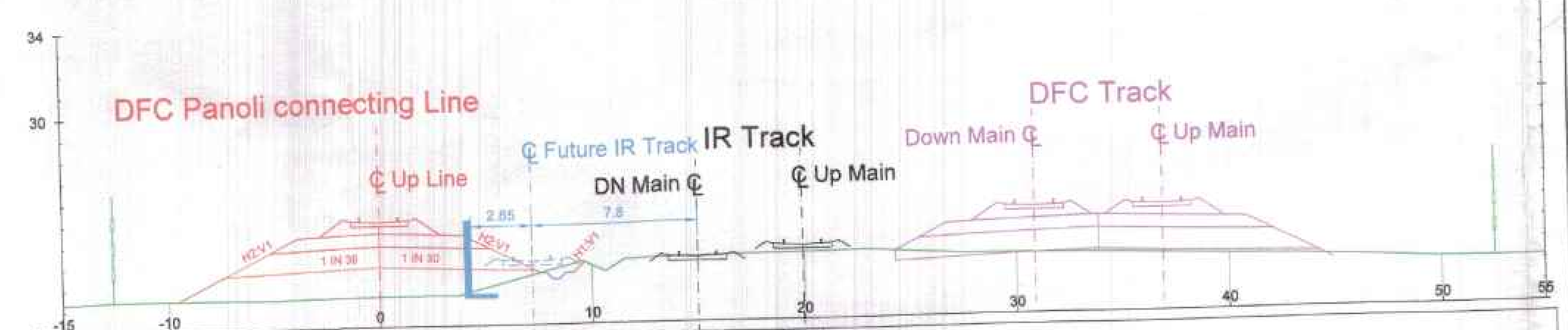
Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-15.000			21.405
-11.530			
-9.641		21.408	21.408
-5.216		23.621	21.363
-3.930		24.264	21.338
-0.000	25.137 25.137	24.395	21.271
3.930		24.264	21.116
5.216		23.621	21.518
7.209			
7.359		22.550	22.480
7.428		22.515	22.515
15.000	23.182 23.183		23.077
20.000	23.639 23.638		23.125
25.000			23.024
30.095			
36.096			
52.500			

Chainage 60+100.000



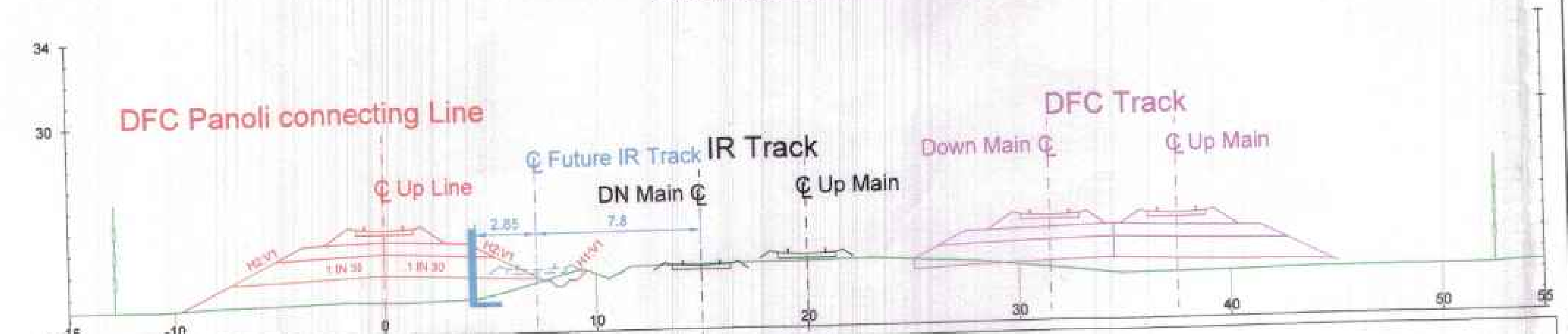
Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-15.000			21.363
-11.542			
-9.645		21.407	21.407
-5.216		23.621	21.398
-3.930		24.264	21.408
0.000	25.137 25.137	24.395	21.468
3.930		24.264	21.733
5.216		23.621	21.972
7.197			
7.359		22.545	22.542
7.369		22.550	22.545
14.998	23.186		23.002
15.000	23.185		
20.000	23.652 23.612		23.050
25.000			22.962
30.404			
36.406			
52.500			

Chainage 60+120.000



Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-15.000			21.332
-11.583			
-9.568		21.445	21.445
-5.216		23.621	21.389
-3.930		24.264	21.395
0.000	25.137 25.137	24.395	21.413
3.930		24.264	21.489
5.216		23.621	21.830
7.187			
7.359		22.550	22.384
7.577		22.440	22.440
14.987	23.190		23.027
15.000	23.187		
20.000	23.591 23.633		23.101
25.000			23.014
30.872			
36.875			
52.500			

Chainage 60+140.000



Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-15.000			21.342
-11.662			
-9.662		21.398	21.398
-5.216		23.621	21.517
-3.930		24.264	21.537
0.000	25.137 25.137	24.395	21.534
3.930		24.264	21.620
5.216		23.621	21.816
7.174			
7.359		22.550	22.408
7.541		22.458	22.458
14.974	23.194		23.053
15.000	23.189		
20.000	23.602 23.635		23.127
25.000			23.054
31.482			
37.485			
52.500			

Chainage 60+160.000

NOTES:

1. ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
2. EXISTING WORK IS SHOWN IN BLACK.
3. PROPOSED WORK IS SHOWN IN RED.
4. CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E ADJACENT TO IR TRACK).
5. DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER "L NO. L/OCGC/DFCC/CMT/CTP-13/1906/25094 (DATED 07-JUNE-2019)"
6. DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.86M VIDE ENGINEER LETTER NO. - L/OCGC/DFCC/CMT/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
7. TRACK FORMATION CROSS FALL - 1:30.
8. FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
9. FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
10. FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
11. THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINGAE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
12. FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
13. FOR DIVERSION OF ROAD/STREAM/NALLA ETC. REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
14. IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
15. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
16. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/E&M CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 .... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)

13/GE/DD/0762 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH 104.000 KM TO 126.000 KM

13/GE/DD/0763 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km

13/GE/DD/0765 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM

13/DE/DD/0766 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **

EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE — ROW

PROPOSED NALLA DIVERSION

INNER EDGE OF PROPOSED ROAD — PRD

INNER EDGE OF NOT IN SCOPE SERVICE ROAD — NSR

BLANKET

SUBGRADE

EXISTING GROUND

FUTURE IR TRACK

NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED	APPROVED
3	26-NOV-19	REVISED AS PER PMC COMMENTS L.NO. L/OCGC/DFCC/CMT/CTP-13/1910/28382 (DATED 14-OCT-2019)	ACT	SRG	SKP	SKP
2	26-AUG-19	REVISED AS PER PMC COMMENTS L.NO. L/OCGC/DFCC/CMT/CTP-13/1908/27131 (DATED 05-AUG-2019)	ACT	SRG	SKP	SKP
1	08-JUL-19	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP	SKP

PROJECT
WESTERN DEDICATED FREIGHT CORRIDOR
ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13
PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION — SEAL & SIGN

EMPLOYER
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC
PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM
OCG - OCI - NK - NKI - RITES
OCG CONSORTIUM

CONTRACTOR
EXPRESS FREIGHT CONSORTIUM
MITSUI & CO., LTD. — IRCON — TATA

DESIGNER
STUP Consultants Pvt. Ltd.

TITLE
DETAILED CROSS SECTIONS FROM CH. 60+020 TO CH. 60+160

JOB NO: 8309			SIZE A1	STATUS
	NAME	SIGN	PROJECTION	ID: (INCEPTION)
DRWN	ACT			TD: (TECHNICAL)
DSGN	SRG			✓ CD: (CONSTRUCTION)
CHKD	SKP		SCALE	BD: (AS BUILT)
APPD	SKP		1:250	DATE : 08-JUL-2019
DRG. NO. 13/AL/DG/0168-CD				REV-3

13-AL-00016803.dwg

PMC-2R OCG CONSORTIUM | OCG-OCI-NK-NKI-RITES
Submittal No/ Ltr. Ref. No: | Date:
Engineer's Response
NONO
Checked: P.P
Reviewed
Authorised Signatory
Date: 04-02-2020

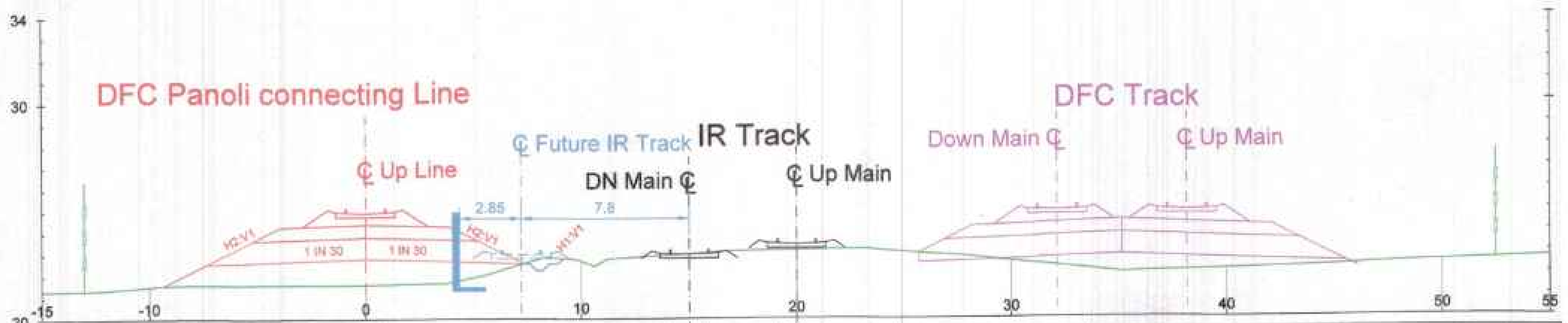
(NAVEEN CHOPRA)
Alignment Engineer
PMC -2R (OCG Consortium)
For 'The Engineer' for WDFC Phase -2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCIL - CTP-13
Contractor's Representative | Date:

N. RAMAKRISHNA RAJU
Chief Design Engineer

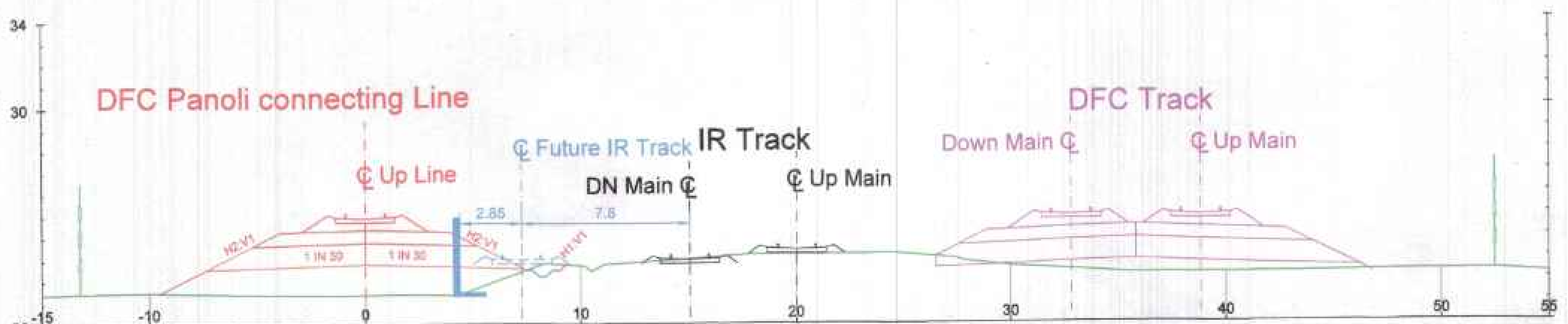
STUP CONSULTANTS PVT. LTD.
PLOT NO 22-A SECTOR-19-C, PALM BEACH MARG, VASHI, TEL.:40887777
Navi Mumbai 400705

(S.K. Pathak)



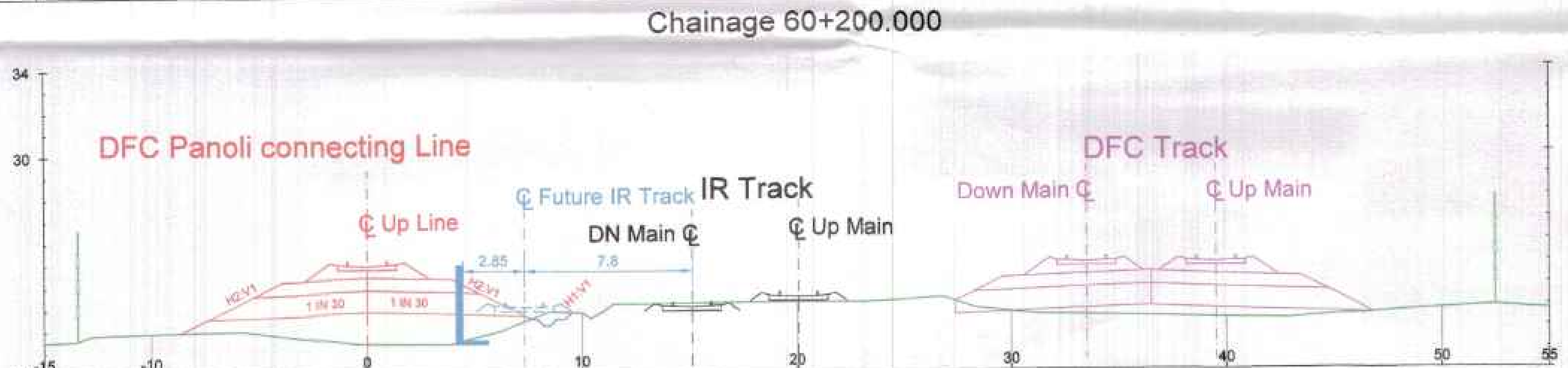
Prop. RL / Ex. RL						25.137 25.137					23.188 23.181	23.629 23.627				
Prop. FL			21.559	23.621	24.264	24.395	24.264	23.621		22.567						
Ground Level	21.323		21.559	21.587	21.592	21.605	21.691	21.955		22.567	23.007	23.153	23.063			
Offset	-15.000	-11.963	-9.340	-5.216	-3.930	0.000	3.930	5.216	7.213	7.324	15.000	20.000	25.000	32.152	38.156	52.499

Chainage 60+180.000



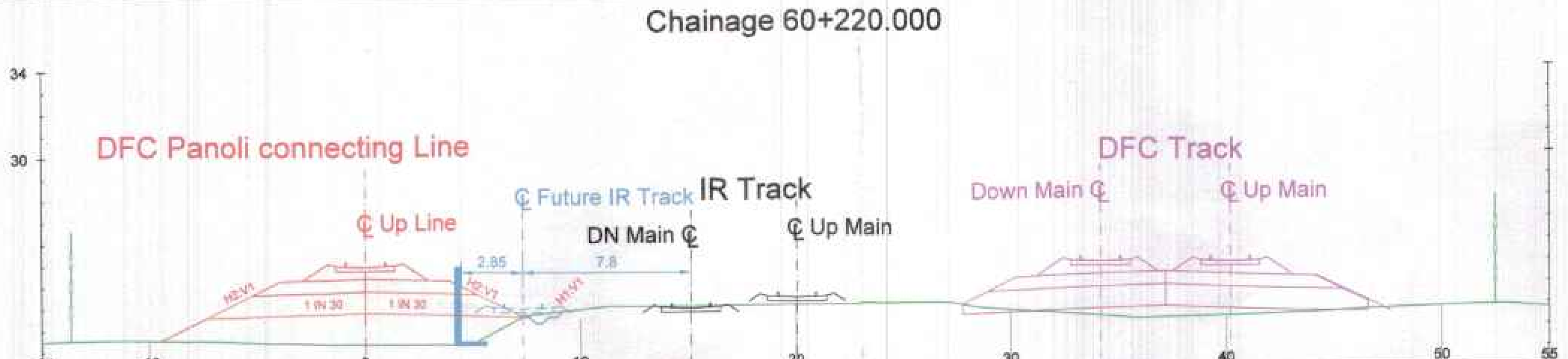
Prop. RL / Ex. RL						25.137 25.137						23.182	23.171	23.619 23.615				
Prop. FL			21.474	23.621	24.264	24.395	24.264	23.621		22.550	22.492							
Ground Level	21.438		21.474	21.406	21.391	21.377	21.343	21.662		22.449	22.492	22.996		23.183	23.211			
Offset	-15.000	-12.263	-9.511	-5.216	-3.930	0.000	3.930	5.216	7.259	7.359	7.475	15.000	15.059	20.000	25.000	32.827	38.831	52.499

Chainage 60+200.000



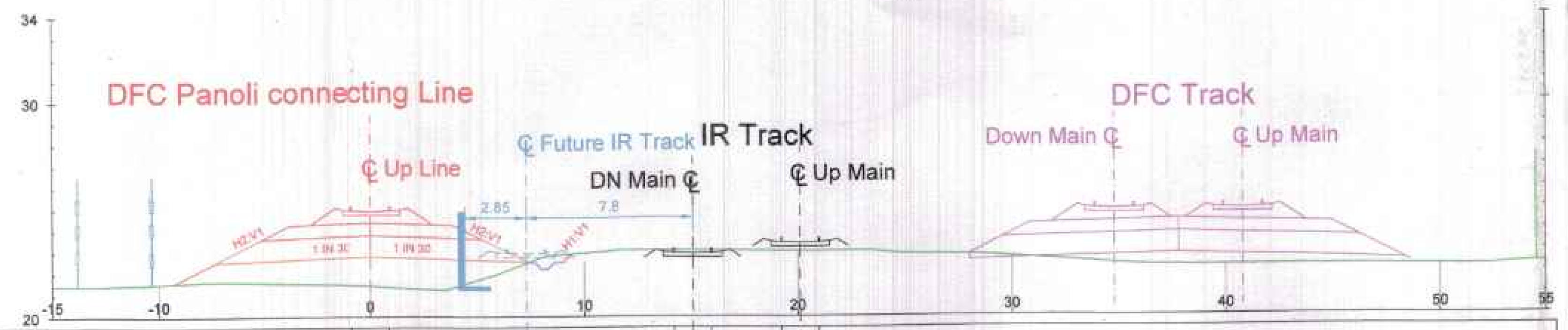
Prop. RL / Ex. RL						25.137 25.137						23.175	23.162	23.608 23.602				
Prop. FL			21.914	23.621	24.264	24.395	24.264	23.621		22.550	22.423							
Ground Level	21.520		21.914	21.935	21.772	21.325	21.273	21.608		22.320	22.423	23.120		23.136	23.264			
Offset	-15.000	-12.614	-8.630	-5.216	-3.930	0.000	3.930	5.216	7.304	7.359	7.612	15.000	15.104	20.000	25.000	33.502	39.506	52.499

Chainage 60+220.000



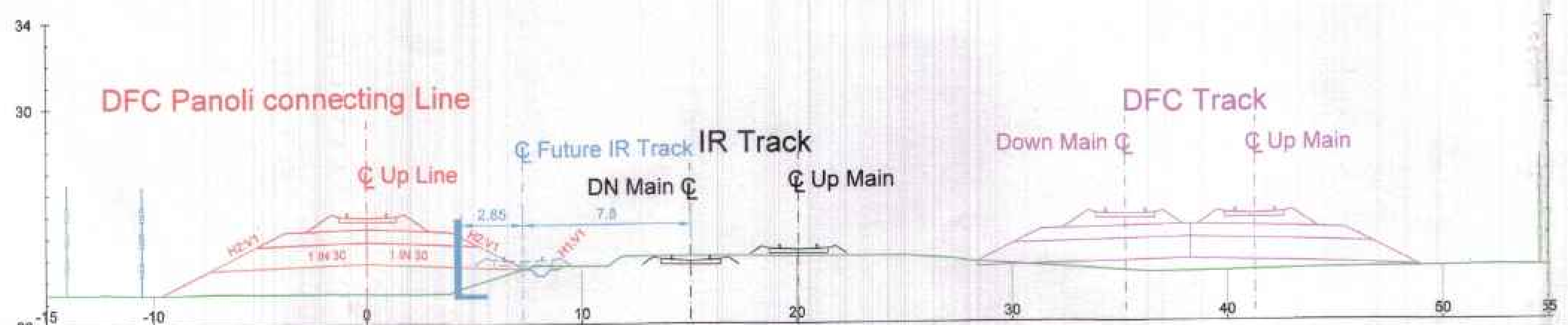
Prop. RL / Ex. RL						25.137 25.137				23.166	23.151	23.614 23.611				
Prop. FL			21.510	23.621	24.264	24.395	24.264	23.621	22.574							
Ground Level	21.501		21.510	21.441	21.408	21.345	21.295	21.459	22.574	23.057		23.067	23.136			
Offset	-15.000	-12.993	-9.439	-5.216	-3.930	0.000	3.930	5.216	7.311	15.000	15.111	20.000	25.000	34.174	40.178	52.499

Chainage 60+240.000



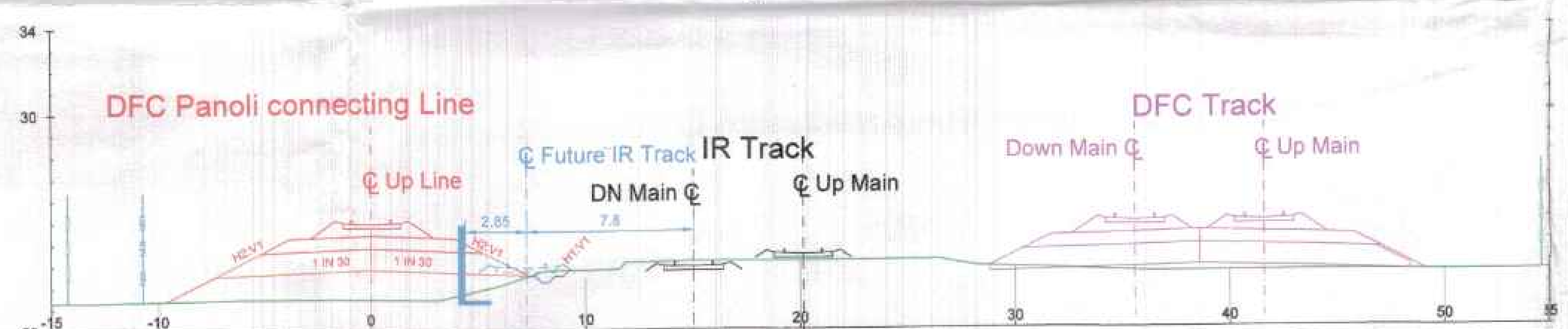
Prop. RL / Ex. RL							25.137 25.137						23.154	23.136	23.635 23.627				
Prop. FL				21.584	23.621	24.264	24.395	24.264	23.621		22.550	22.526							
Ground Level	21.446			21.584	21.609	21.571	21.441	21.366	21.756		22.507	22.526	23.068		23.044	22.923			
Offset	-15.000	-13.362	-9.862	-9.291	-5.216	-3.930	0.000	3.930	5.216	7.269	7.359	7.407	15.000	15.089	20.000	25.000	34.794	40.797	54.505

Chainage 60+260.000



Prop. RL / Ex. RL							25.137 25.137					23.142	23.122	23.633 23.622				
Prop. FL				21.421	23.621	24.264	24.395	24.264	23.621		22.563							
Ground Level	21.422			21.421	21.446	21.435	21.406	21.464	21.907		22.563	23.133		23.129	23.116			
Offset	-15.000	-13.683	-10.183	-9.615	-5.216	-3.930	0.000	3.930	5.216	7.267	7.332	15.067	15.000	20.000	25.000	35.279	41.281	54.514

Chainage 60+280.000



Prop. RL / Ex. RL							25.137 25.137						23.130	23.109	23.616 23.676				
Prop. FL				21.422	23.621	24.264	24.395	24.264	23.621		22.550	22.530							
Ground Level	21.316			21.422	21.477	21.462	21.418	21.577	21.887		22.517	22.530	23.158		23.177	23.195			
Offset	-15.000	-14.004	-10.503	-9.614	-5.216	-3.930	-0.000	3.930	5.216	7.244	7.359	7.398	15.000	15.044	20.000	25.000	35.605	41.606	54.523

Chainage 60+300.000

Prop. RL / Ex. RL							25.137 25.137						23.123	23.104	23.598 23.743				
Prop. FL				21.360	23.621	24.264	24.395	24.264	23.621		22.550	22.392							
Ground Level	21.282			21.360	21.417	21.398	21.342	21.335	21.646		22.302	22.392	23.078		23.075	23.167			
Offset	-15.000	-14.160	-10.660	-9.738	-5.216	-3.930	0.000	3.930	5.216	7.232	7.359	7.674	15.000	15.033	20.000	25.000	35.780	41.780	54.533

Chainage 60+320.000

NOTES:

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5. DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER "L NO. L/OCGC/DFCC/CMT/CTP-13/1906/25094 (DATED 07-JUNE-2019)"
6. DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.86M VIDE ENGINEER LETTER NO. - L/OCGC/DFCC/CMT/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
7. TRACK FORMATION CROSS FALL - 1:30.
8. FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
9. FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
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12. FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
13. FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
14. IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
15. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
16. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/E&M CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

- 13/ST/DG/11100 .... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
- 13/GE/DD/0762 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH 104.000 KM TO 126.000 KM
- 13/GE/DD/0763 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km
- 13/GE/DD/0765 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM
- 13/DE/DD/0766 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

- THE CROSS-SECTION OF DFC UP/ DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **
- EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE — ROW — ROW —
- PROPOSED NALLA DIVERSION
- INNER EDGE OF PROPOSED ROAD — PRD — PRD —
- INNER EDGE OF NOT IN SCOPE SERVICE ROAD — NSR — NSR —
- BLANKET
- SUBGRADE
- EXISTING GROUND
- FUTURE IR TRACK

PMC-2R OCG CONSORTIUM | OCG-OCI-NK-NKI-RITES
Submittal No/ Ltr. Ref. No: | Date:
Engineer's Response: NONO
Checked: Name P.P, Signature [signed]
Reviewed:
Authorised Signatory: [signed]
Date: 04-02-2020
(NAVEEN CHOPRA)
Alignment Engineer
PMC -2R (OCG Consortium)
For 'The Engineer' for WDFC Phase -2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCIL - CTP-13
[signed]
Contractor's Representative | Date:

N. RAMAKRISHNA RAJU
Chief Design Engineer
[signed]

STUP CONSULTANTS PVT. LTD. PLOT NO.22-A SECTOR-19-C, PALM BEACH MARG, VASHI, TEL. 40887777 Navi Mumbai 400705
(S. K. Pathak)

NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED	APPROVED
3	26-NOV-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1910/29382 (DATED 14-OCT-2019)	ACT	SRG	SKP	SKP
2	26-AUG-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1908/27131 (DATED 05-AUG-2019)	ACT	SRG	SKP	SKP
1	08-JUL-19	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP	SKP

PROJECT
WESTERN DEDICATED FREIGHT CORRIDOR
ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13
PROPOSED DFC CONNECTIVITY BETWEEN
PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION | SEAL & SIGN

EMPLOYER
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC
PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM
OCG - OCI - NK - NKI - RITES
OCG CONSORTIUM

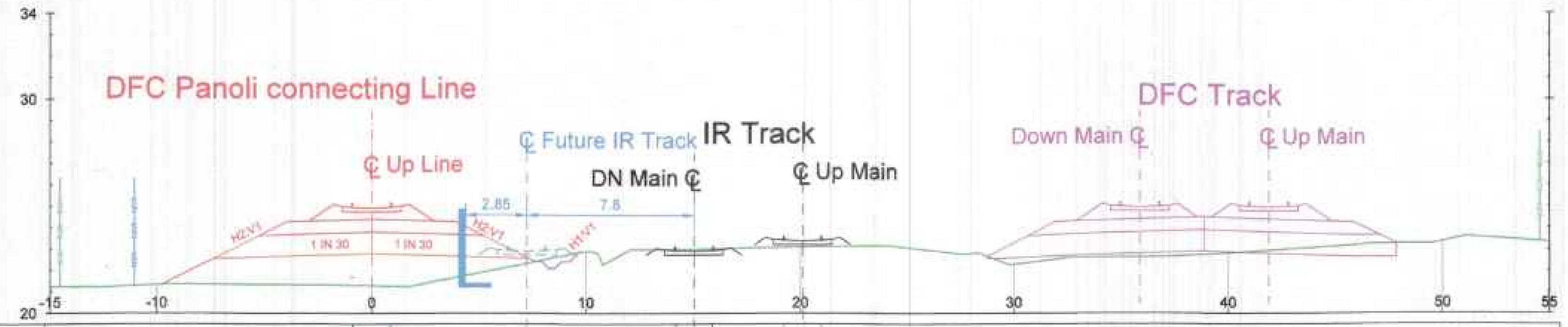
CONTRACTOR
EXPRESS FREIGHT CONSORTIUM
MITSUI & CO., LTD. | L&T | TATA

DESIGNER
STUP Consultants Pvt. Ltd.

TITLE
DETAILED CROSS SECTIONS
FROM CH. 60+180 TO CH. 60+320

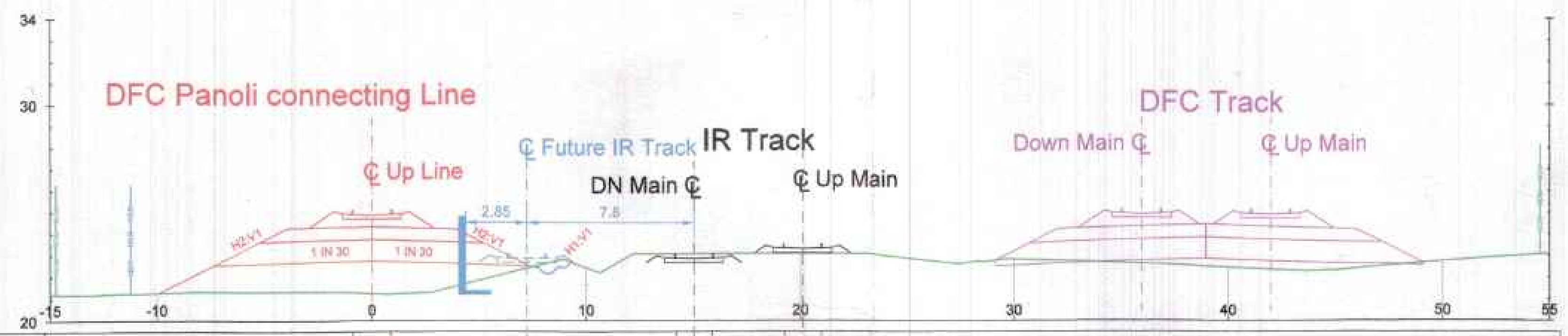
JOB NO: 8309			SIZE A1	STATUS
	NAME	SIGN	PROJECTION	ID: (INCEPTION)
DRWN	ACT	[signed]		TD: (TECHNICAL)
DSGN	SRG	[signed]		✓ CD: (CONSTRUCTION)
CHKD	SKP	[signed]	SCALE	BD: (AS BUILT)
APPD	SKP	[signed]	1:250	DATE : 08-JUL-2019
DRG. NO. 13/AL/DG/0169-CD				REV-3

13-AL-D0016R3.dwg



Prop. RL / Ex. RL							25.137 / 25.137						23.117	23.100	23.577 / 23.578				
Prop. FL				21.343	23.621	24.264	24.395	24.264	23.621		22.550	22.409							
Ground Level	21.260			21.343	21.337	21.329	21.298	21.674	21.926		22.349	22.409	22.981		23.072	23.062			
Offset	-15.000	-14.226	-10.726	-9.771	-5.216	-3.930	0.000	3.930	5.216	7.224	7.359	7.640	15.000	15.025	20.000	25.000	35.875	41.875	54.542

Chainage 60+340.000

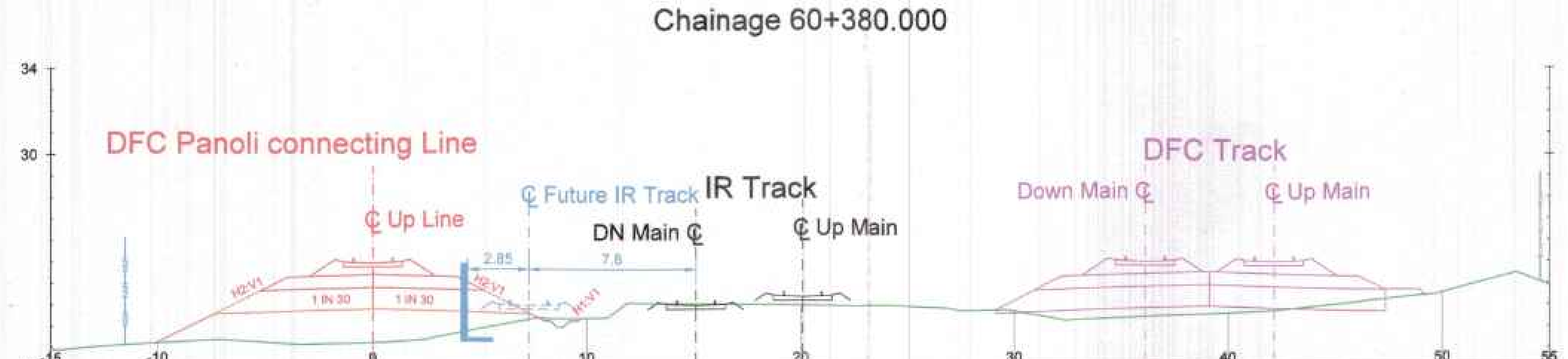


Prop. RL / Ex. RL							25.137 / 25.137						23.111	23.095	23.545 / 23.550				
Prop. FL				21.268	23.621	24.264	24.395	24.264	23.621		22.550	22.503							
Ground Level	21.210			21.268	21.333	21.338	21.285	21.605	21.933		22.479	22.503	23.133		23.123	22.920			
Offset	-15.000	-14.273	-10.773	-9.922	-5.216	-3.930	-0.000	3.930	5.216	7.215	7.359	7.452	15.000	15.015	20.000	25.000	35.960	41.960	54.551

Chainage 60+360.000

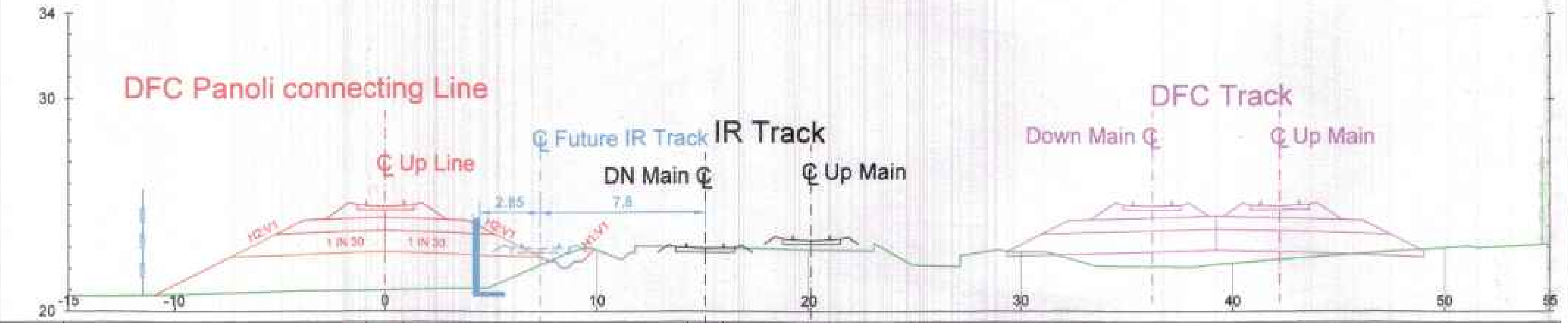
Prop. RL / Ex. RL							25.137 / 25.137						23.122	23.113	23.540 / 23.545				
Prop. FL				21.195	23.621	24.264	24.395	24.264	23.621		22.550	22.418							
Ground Level	21.155			21.195	21.227	21.243	21.261	21.570	21.863		22.355	22.418	23.066		22.980	22.740			
Offset	-15.000	-14.211	-10.711	-10.068	-5.216	-3.930	-0.000	3.930	5.216	7.243	7.359	7.623	15.000	15.043	20.000	25.000	36.045	42.045	54.560

Chainage 60+380.000



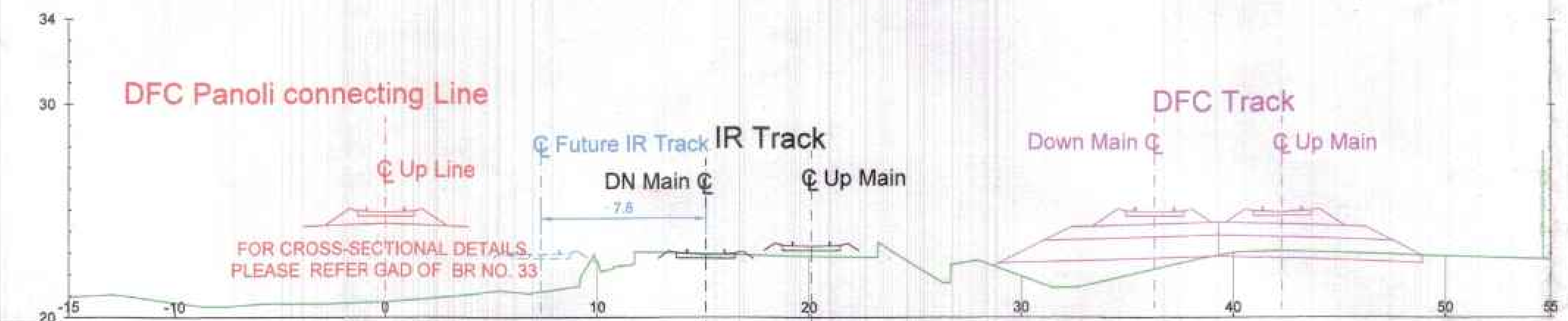
Prop. RL / Ex. RL							25.137 / 25.137						23.139	23.137	23.540 / 23.547				
Prop. FL				21.185	23.621	24.264	24.395	24.264	23.621		22.550	22.367							
Ground Level	20.893			21.185	21.243	21.165	21.222	21.651	21.902		22.298	22.367	23.009		22.936	22.902			
Offset	-15.000	-14.150	-10.650	-10.088	-5.216	-3.930	-0.000	3.930	5.216	7.279	7.359	7.723	15.000	15.079	20.000	25.000	36.130	42.130	54.570

Chainage 60+400.000



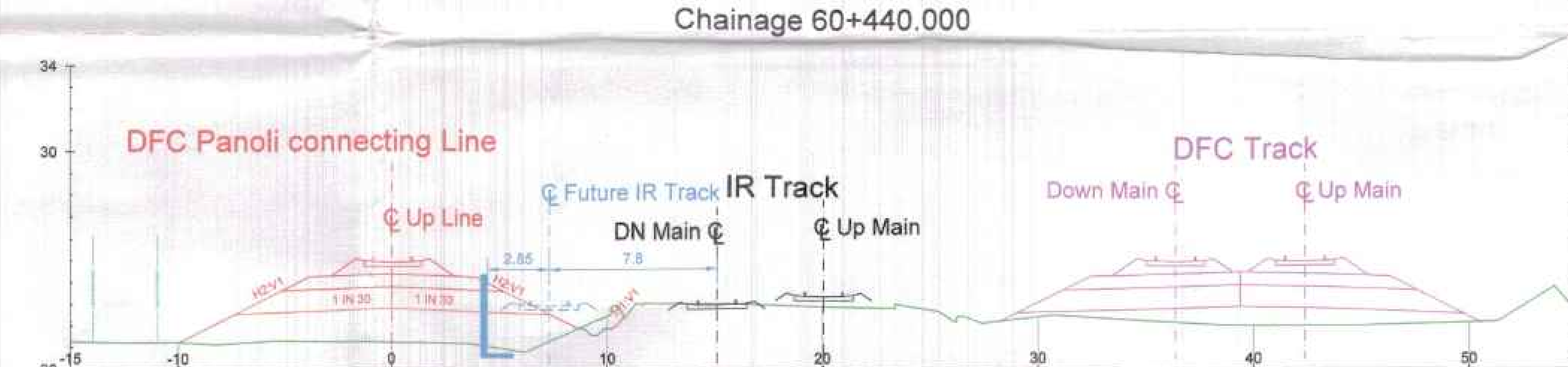
Prop. RL / Ex. RL						25.137 / 25.137						23.156	23.161	23.549 / 23.556				
Prop. FL			20.762	23.621	24.264	24.395	24.264	23.621		22.550	22.365							
Ground Level	20.714		20.762	20.916	20.950	20.985	21.086	21.255		22.202	22.365	22.984		22.910	22.184			
Offset	-15.000	-14.087	-10.934	-5.216	-3.930	0.000	3.930	5.216	7.316	7.359	7.727	15.000	15.116	20.000	25.000	36.215	42.215	54.579

Chainage 60+420.000



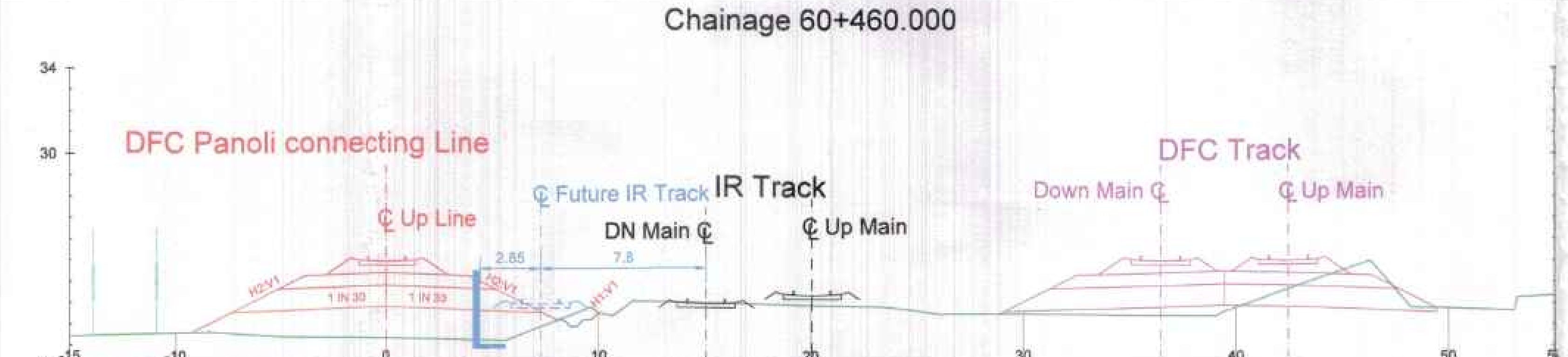
Prop. RL / Ex. RL						25.137 / 25.137						23.162	23.171	23.543 / 23.548				
Prop. FL			20.810	23.621	24.264	24.395	24.264	23.621		22.550	21.569							
Ground Level	20.951		20.810	20.657	20.647	20.749	21.083	21.241		21.212	22.076	22.988		22.884	22.434			
Offset	-15.000	-14.024	-10.838	-5.216	-3.930	0.000	3.930	5.216	7.332	7.359	9.320	15.000	15.132	20.000	25.000	36.299	42.299	54.589

Chainage 60+440.000



Prop. RL / Ex. RL							25.137 / 25.137						23.150	23.159	23.535 / 23.537				22.862
Prop. FL				21.254	23.621	24.264	24.395	24.264	23.621		22.550	21.900							
Ground Level	21.254			21.254	21.313	21.289	21.238	21.165	20.968		21.324	21.900	22.991		22.878	22.710			
Offset	-15.000	-13.961	-10.961	-9.950	-5.216	-3.930	-0.000	3.930	5.216	7.305	7.359	8.657	15.000	15.106	20.000	25.000	36.384	42.384	

Chainage 60+460.000



Prop. RL / Ex. RL							25.137 / 25.137						23.139	23.148	23.542 / 23.543				22.777	22.652
Prop. FL				21.602	23.621	24.264	24.395	24.264	23.621		22.550	22.194								
Ground Level	21.425			21.602	21.415	21.383	21.320	21.258	21.237		21.918	22.194	22.984		22.877	22.618				
Offset	-15.000	-13.898	-10.898	-9.254	-5.216	-3.930	0.000	3.930	5.216	7.277	7.359	8.071	15.000	15.077	20.000	25.000	36.469	42.469		

Chainage 60+480.000

PMC-2R OCG CONSORTIUM | OCG-OCI-NK-NKI-RITES
Submittal No/ Ltr. Ref. No: | Date:
Engineer's Response: NONO
Checked: P.P (signature)
Reviewed:
Authorised Signatory: (signature)
Date: 04-02-2020
(NAVEEN CHOPRA)
Alignment Engineer
PMC -2R (OCG Consortium)
For 'The Engineer' for WDFC Phase -2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCIL - CTP-13
Contractor's Representative (signature) | Date:

N. RAMAKRISHNA RAJU
Chief Design Engineer
(signature)

STUP CONSULTANTS PVT. LTD. PLOT NO.22-A SECTOR-19-C, PALM BEACH MARG, VASHI, TEL.:40887777 Navi Mumbai 400705
(S.K. Pathak)

NOTES:

1. ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
2. EXISTING WORK IS SHOWN IN BLACK.
3. PROPOSED WORK IS SHOWN IN RED.
4. CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E ADJACENT TO IR TRACK).
5. DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER "L NO. L/OCGC/DFCC/CMT/CTP-13/1906/25094 (DATED 07-JUNE-2019)"
6. DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.86M VIDE ENGINEER LETTER NO. - L/OCGC/DFCC/CMT/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
7. TRACK FORMATION CROSS FALL - 1:30.
8. FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
9. FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
10. FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
11. THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINGAE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
12. FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
13. FOR DIVERSION OF ROAD/STREAM/NALLA ETC. REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
14. IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
15. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
16. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/E&M CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 .... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
13/GE/DD/0762 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH 104.000 KM TO 126.000 KM
13/GE/DD/0763 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km
13/GE/DD/0765 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM
13/DE/DD/0766 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **
EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE — ROW
PROPOSED NALLA DIVERSION
INNER EDGE OF PROPOSED ROAD — PRO
INNER EDGE OF NOT IN SCOPE SERVICE ROAD — NSR
BLANKET
SUBGRADE
EXISTING GROUND
FUTURE IR TRACK

NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED	APPROVED
3	26-NOV-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1910/26382 (DATED 14-OCT-2019)	ACT	SRG	SKP	SKP
2	26-AUG-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1908/27131 (DATED 05-AUG-2019)	ACT	SRG	SKP	SKP
1	08-JUL-19	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP	SKP

PROJECT
WESTERN DEDICATED FREIGHT CORRIDOR ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13 PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION | SEAL & SIGN

EMPLOYER
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC
PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM OCG - OCI - NK - NKI - RITES
OCG CONSORTIUM

CONTRACTOR
EXPRESS FREIGHT CONSORTIUM
MITSUI & CO., LTD. | TATA

DESIGNER
STUP Consultants Pvt. Ltd.

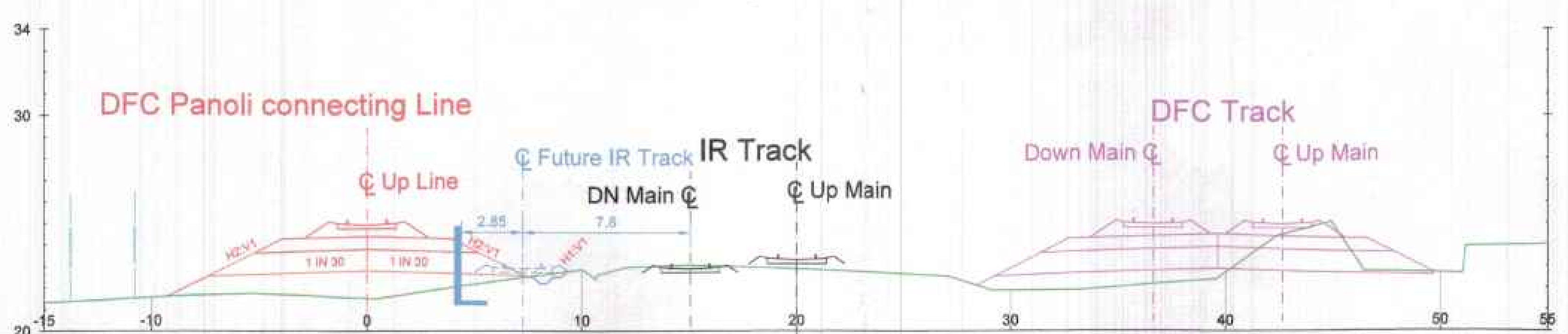
TITLE
DETAILED CROSS SECTIONS FROM CH. 60+380 TO CH. 60+480

JOB NO: 8309			SIZE A1	STATUS
	NAME	SIGN	PROJECTION	ID: (INCEPTION)
DRWN	ACT			TD: (TECHNICAL)
DSGN	SRG			✓ CD: (CONSTRUCTION)
CHKD	SKP		SCALE	BD: (AS BUILT)
APPD	SKP		1:250	DATE : 08-JUL-2019
DRG. NO. 13/AL/DG/0170-CD				REV-3

13-AL-DG0170R3.dwg

Prop. RL / Ex. RL	25.137, 25.137, 23.127, 23.137, 23.531, 23.531, 22.765, 22.609
Prop. FL	21.470, 23.621, 24.264, 24.395, 24.264, 23.621, 22.550, 22.319
Ground Level	21.303, 21.470, 21.645, 21.627, 21.436, 21.344, 21.641, 22.199, 22.319, 22.975, 22.838, 22.597
Offset	-15.000, -13.835, -10.835, -9.517, -5.216, -3.930, 0.000, 3.930, 5.216, 7.245, 7.359, 7.819, 15.000, 15.046, 20.000, 25.000, 36.554, 42.554

Chainage 60+500.000

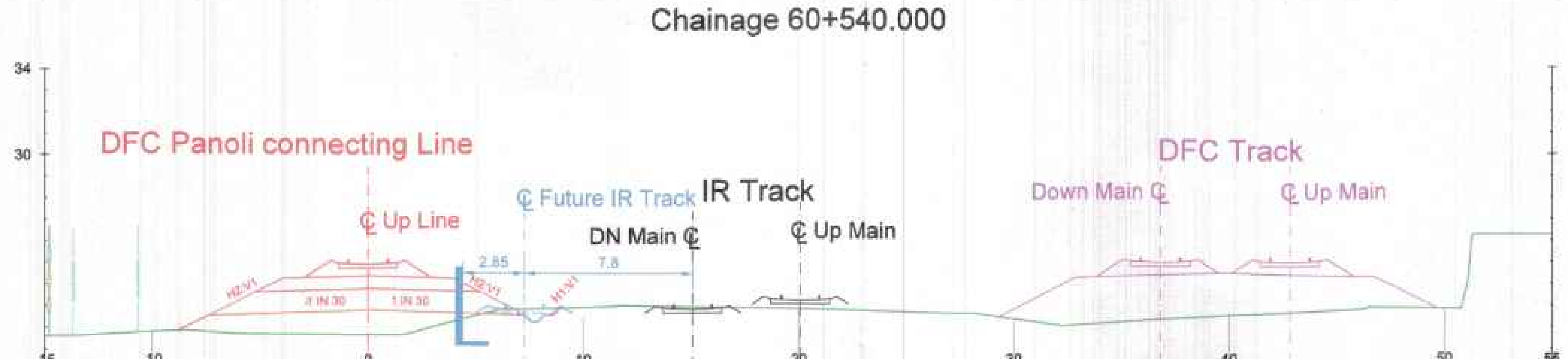


Prop. RL / Ex. RL	25.137, 25.137, 23.094, 23.100, 23.501, 23.502, 22.781, 22.656
Prop. FL	21.597, 23.621, 24.264, 24.395, 24.264, 23.621, 22.550, 22.503
Ground Level	21.351, 21.597, 21.751, 21.695, 21.524, 22.012, 22.197, 22.491, 22.503, 23.057, 22.865, 22.655
Offset	-15.000, -13.772, -10.772, -9.264, -5.216, -3.930, -0.000, 3.930, 5.216, 7.244, 7.359, 7.452, 15.000, 15.044, 20.000, 25.000, 36.639, 42.639

Chainage 60+520.000

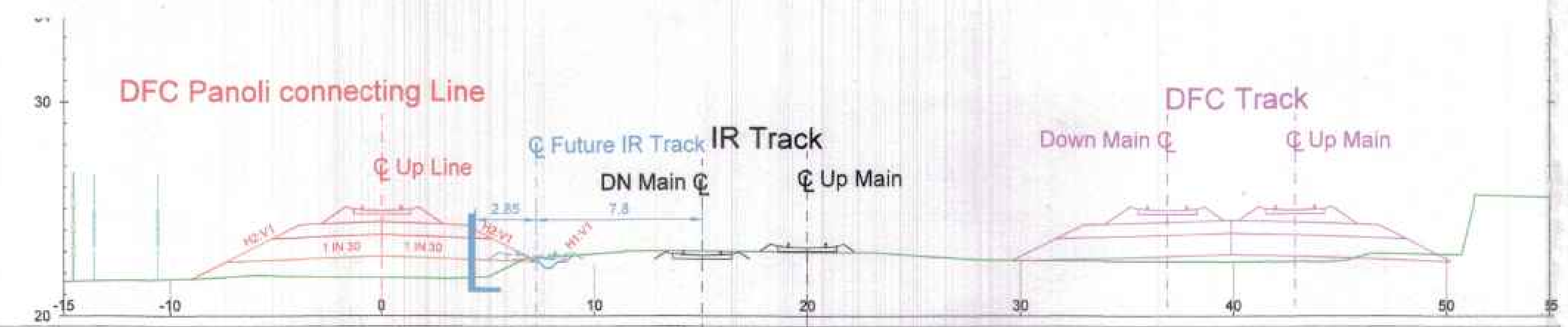
Prop. RL / Ex. RL	25.137, 25.137, 23.061, 23.064, 23.476, 23.479, 22.799, 22.706
Prop. FL	21.688, 23.621, 24.264, 24.395, 24.264, 23.621, 22.595
Ground Level	21.494, 21.688, 21.925, 21.850, 21.798, 22.147, 22.320, 22.595, 22.554, 22.707, 22.709
Offset	-15.000, -13.710, -10.710, -9.127, -5.216, -3.930, -0.000, 3.930, 5.216, 7.249, 7.268, 15.000, 15.049, 20.000, 25.000, 36.724, 42.724

Chainage 60+540.000



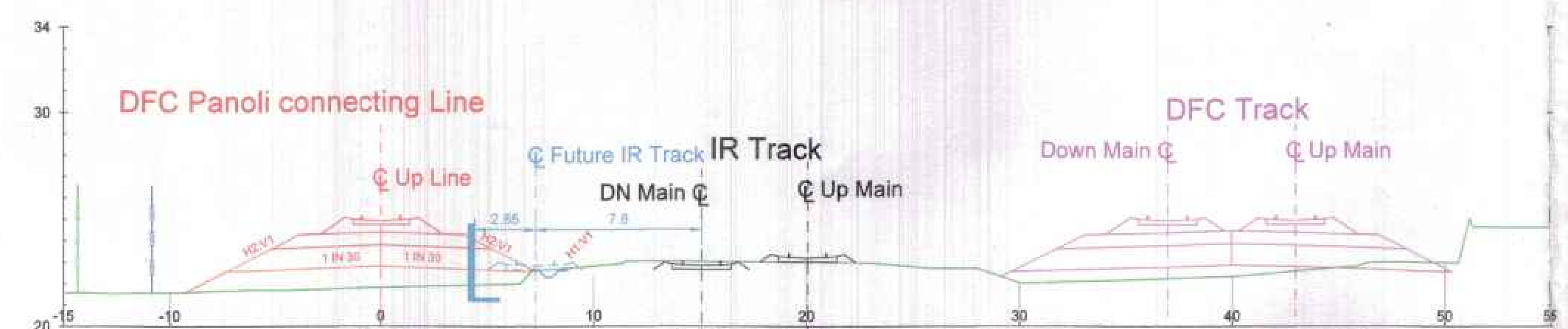
Prop. RL / Ex. RL	25.137, 25.137, 23.030, 23.030, 23.449, 23.447, 22.859, 22.796
Prop. FL	21.844, 23.621, 24.264, 24.395, 24.264, 23.621, 22.745
Ground Level	21.628, 21.844, 21.697, 21.693, 21.661, 22.254, 22.593, 22.745, 22.950, 22.843, 22.714
Offset	-15.000, -13.647, -10.647, -8.769, -5.216, -3.930, -0.000, 3.930, 5.216, 6.968, 7.250, 15.000, 15.050, 20.000, 25.000, 36.809, 42.809

Chainage 60+560.000



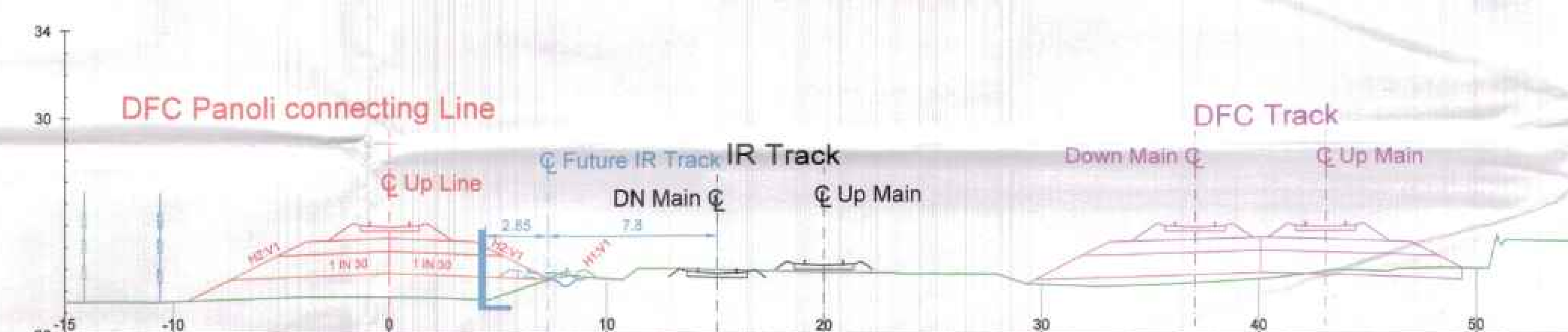
Prop. RL / Ex. RL	25.137, 25.137, 23.036, 23.034, 23.413, 23.420, 22.918, 22.886
Prop. FL	21.732, 23.621, 24.264, 24.395, 24.264, 23.621, 22.687
Ground Level	21.608, 21.732, 21.885, 21.853, 21.788, 21.796, 21.934, 22.687, 23.018, 23.001, 22.849
Offset	-15.000, -13.584, -10.584, -8.994, -5.216, -3.930, 0.000, 3.930, 5.216, 7.084, 7.261, 15.000, 15.062, 20.000, 25.000, 36.894, 42.894

Chainage 60+580.000



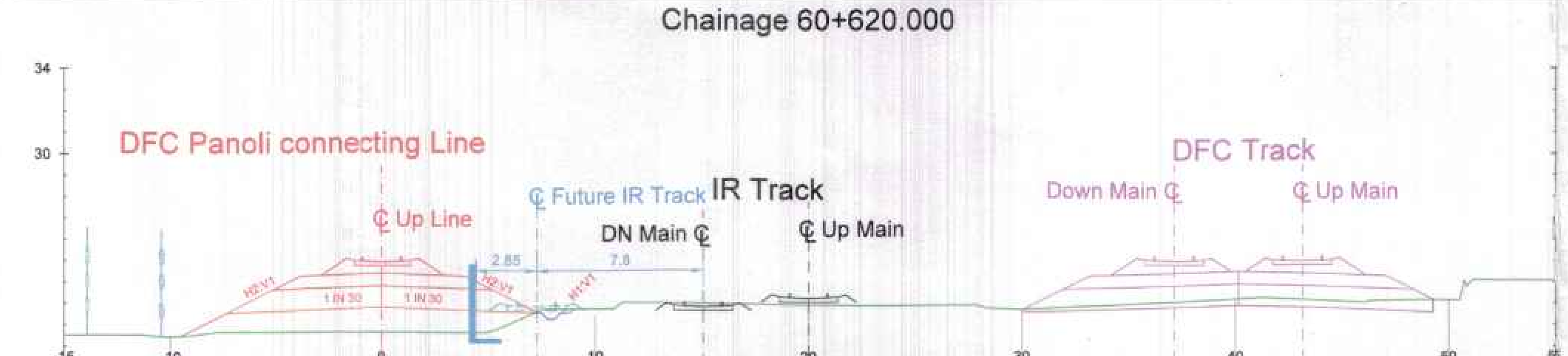
Prop. RL / Ex. RL	25.137, 25.137, 23.041, 23.038, 23.434, 23.417, 22.978, 22.976
Prop. FL	21.574, 23.621, 24.264, 24.395, 24.264, 23.621, 22.659
Ground Level	21.549, 21.574, 21.689, 21.704, 21.813, 21.917, 21.951, 22.659, 23.027, 23.005, 22.805
Offset	-15.000, -13.521, -10.021, -9.310, -5.216, -3.930, 0.000, 3.930, 5.216, 7.141, 7.273, 15.000, 15.073, 20.000, 25.000, 36.978, 42.978

Chainage 60+600.000



Prop. RL / Ex. RL	25.137, 25.137, 23.046, 23.042, 23.430, 23.426, 23.038, 23.066
Prop. FL	21.561, 23.621, 24.264, 24.395, 24.264, 23.621, 22.550
Ground Level	21.491, 21.561, 21.699, 21.724, 21.691, 21.618, 21.819, 22.550, 22.989, 22.921, 22.830
Offset	-15.000, -13.458, -9.958, -9.336, -5.216, -3.930, -0.000, 3.930, 5.216, 7.283, 7.357, 15.000, 15.084, 20.000, 25.000, 37.063, 43.063

Chainage 60+620.000



Prop. RL / Ex. RL	25.137, 25.137, 23.039, 23.035, 23.450, 23.450, 23.098, 23.156
Prop. FL	21.476, 23.621, 24.264, 24.395, 24.264, 23.621, 22.591
Ground Level	21.507, 21.476, 21.650, 21.646, 21.635, 21.624, 21.718, 22.591, 22.980, 22.938, 22.918
Offset	-15.000, -13.395, -9.895, -9.506, -5.216, -3.930, 0.000, 3.930, 5.216, 7.275, 7.276, 15.000, 15.075, 20.000, 25.000, 37.148, 43.148

Chainage 60+640.000

PMC-2R OCG CONSORTIUM | OCG-OCI-NK-NKI-RITES
Submittal No/ Ltr. Ref. No: | Date:
Engineer's Response: NONO
Checked: P P (signature)
Reviewed:
Authorised Signatory: (signature)
Date: 04-02-2020
(NAVEEN CHOPRA)
Alignment Engineer
PMC -2R (OCG Consortium)
For 'The Engineer' for WDFC Phase -2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCIL - CTP-13
Contractor's Representative | Date:

N. RAMAKRISHNA RAJU
Chief Design Engineer

STUP CONSULTANTS PVT. LTD. PLOT NO.22-A SECTOR-19-C, PALM BEACH MARG, VASHI, TEL.:40887777 Navi Mumbai 400705
(S.K. Pathak)

NOTES:

1. ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
2. EXISTING WORK IS SHOWN IN BLACK.
3. PROPOSED WORK IS SHOWN IN RED.
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5. DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/ 0061E TO 0078E (NONOC RECEIVED VIDE LETTER "L NO. L/OCGC/DFCC/CMT/CTP-13/1906/25094 (DATED 07-JUNE-2019)"
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7. TRACK FORMATION CROSS FALL - 1:30.
8. FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
9. FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
10. FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
11. THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINGAE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
12. FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
13. FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
14. IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
15. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
16. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/E&M CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 .... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
13/GE/DD/0762 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH 104.000 KM TO 126.000 KM
13/GE/DD/0763 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km
13/GE/DD/0765 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM
13/DE/DD/0766 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

- THE CROSS-SECTION OF DFC UP/ DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **
- EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE — ROW
- PROPOSED NALLA DIVERSION
- INNER EDGE OF PROPOSED ROAD — PRD
- INNER EDGE OF NOT IN SCOPE SERVICE ROAD — NSR
- BLANKET
- SUBGRADE
- EXISTING GROUND
- FUTURE IR TRACK

NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED	APPROVED
3	26-NOV-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1910/29382 (DATED 14-OCT-2019)	ACT	SRG	SKP	SKP
2	26-AUG-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1908/27101 (DATED 05-AUG-2019)	ACT	SRG	SKP	SKP
1	08-JUL-19	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP	SKP

PROJECT
WESTERN DEDICATED FREIGHT CORRIDOR ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13 PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION | SEAL & SIGN

EMPLOYER
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC
PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM OCG - OCI - NK - NKI - RITES
OCG CONSORTIUM

CONTRACTOR
EXPRESS FREIGHT CONSORTIUM
MITSUI & CO., LTD | TATA

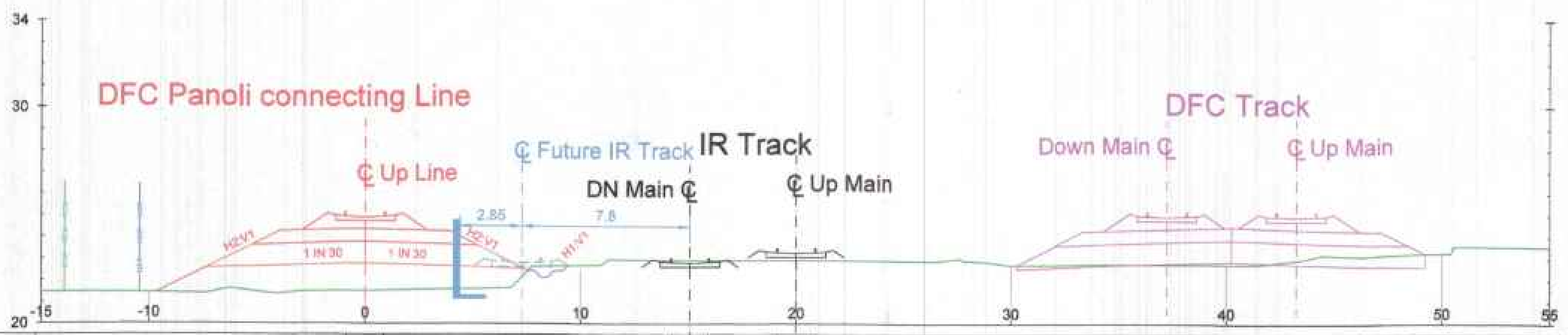
DESIGNER
STUP Consultants Pvt. Ltd.

TITLE
DETAILED CROSS SECTIONS FROM CH. 60+500 TO CH. 60+640

JOB NO: 8309			SIZE A1	STATUS
	NAME	SIGN	PROJECTION	ID: (INCEPTION)
DRWN	ANUJ			TD: (TECHNICAL)
DSGN	SRG			✓ CD: (CONSTRUCTION)
CHKD	SVK		SCALE	BD: (AS BUILT)
APPD	SVK		1:250	DATE : 08-JUL-2019

DRG. NO. 13/AL/DG/0171-CD | REV-3

13-AL-DG0171R3.dwg

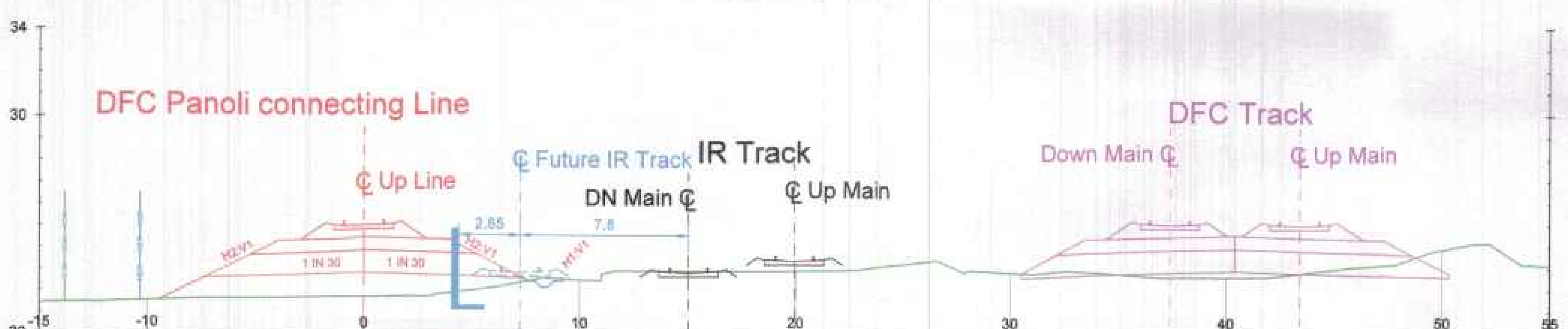


Prop. RL / Ex. RL	25.137, 25.137, 23.027, 23.023, 23.467, 23.470, 23.157, 23.246
Prop. FL	21.407, 23.621, 24.264, 24.395, 24.264, 23.621, 22.550, 22.452
Ground Level	21.462, 21.407, 21.492, 21.385, 21.530, 21.584, 21.601, 22.248, 22.452, 22.941, 22.920, 22.916
Offset	-15.000, -13.332, [illegible], -5.216, -3.930, -0.000, 3.930, 5.216, 7.259, 7.359, 7.554, 15.000, 15.060, 20.000, 25.000, 37.233, 43.233

Chainage 60+660.000

Prop. RL / Ex. RL	25.137, 25.137, 23.015, 23.012, 23.493, 23.497, 23.184, 23.260
Prop. FL	21.535, 23.621, 24.264, 24.395, 24.264, 23.621, 22.550, 22.474
Ground Level	21.400, 21.535, 21.754, 21.682, 21.503, 21.682, 21.950, 22.444, 22.474, 22.908, 22.893, 22.956
Offset	-15.000, -13.269, -9.769, -9.388, -5.216, -3.930, -0.000, 3.930, 5.216, 7.243, 7.359, 7.511, 15.000, 15.043, 20.000, 25.000, 37.318, 43.318

Chainage 60+680.000

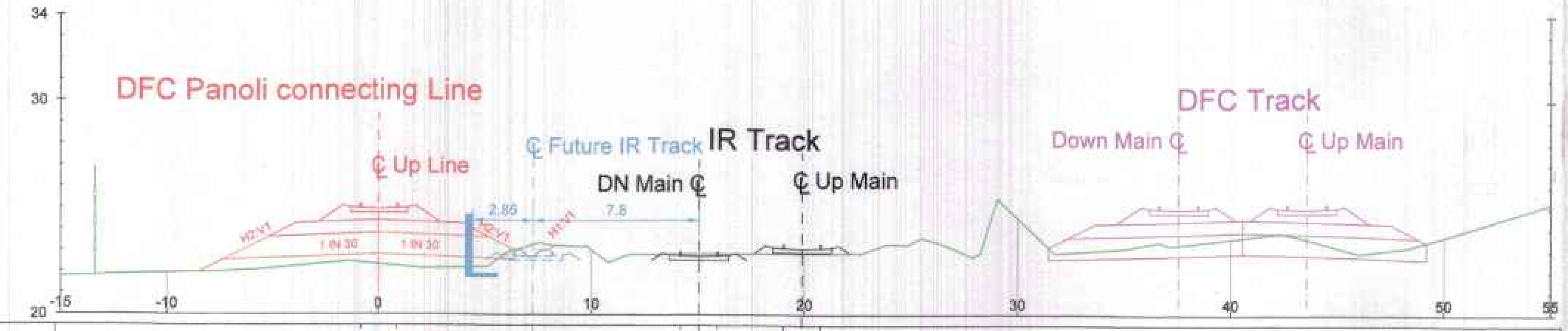


Prop. RL / Ex. RL	25.137, 25.137, 22.994, 22.985, 23.524, 23.515, [illegible], 23.178
Prop. FL	21.517, 23.621, 24.264, 24.395, 24.264, 23.621, 22.550, 22.421
Ground Level	21.422, 21.517, 21.610, 21.632, 21.700, 21.861, 22.013, 22.370, 22.421, 22.863, 22.851, 23.186
Offset	-15.000, -13.206, -9.707, -9.424, -5.216, -3.930, 0.000, 3.930, 5.216, 7.238, 7.359, 7.616, 15.000, 15.038, 20.000, 25.000, 37.403, 43.403

Chainage 60+700.000

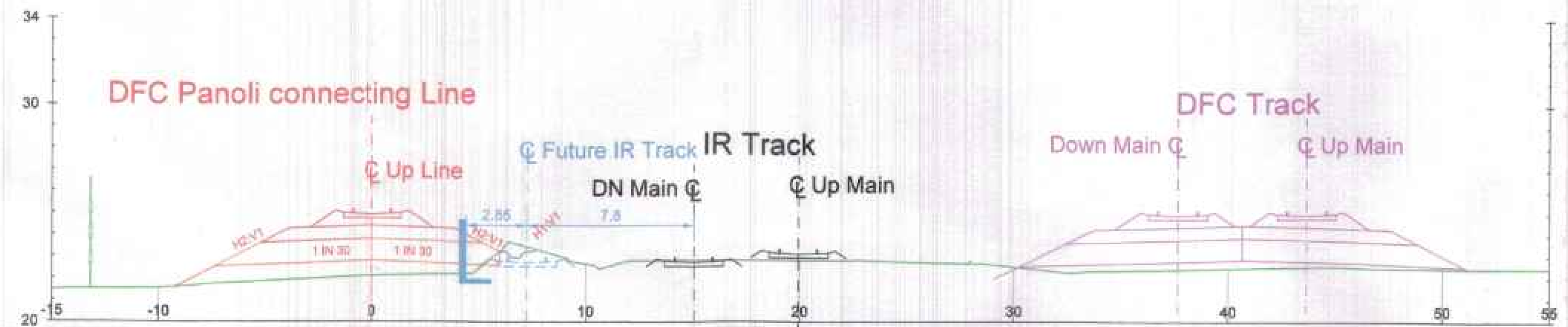
Prop. RL / Ex. RL	25.137, 25.137, 22.952, 22.966, 23.462, 23.444, 23.146
Prop. FL	21.572, 23.621, 24.264, 24.395, 24.264, 23.621, 22.636
Ground Level	21.624, 21.572, 21.661, 21.618, 21.583, 21.946, 22.117, 22.636, 22.853, 22.941, 23.407
Offset	-15.000, -13.143, -9.644, -9.315, -5.216, -3.930, -0.000, 3.930, 5.216, 7.187, 7.253, 15.000, 15.053, 20.000, 25.000, 37.488, 43.488

Chainage 60+720.000



Prop. RL / Ex. RL	25.137, 25.137, 22.927, 22.949, 23.312, 23.308
Prop. FL	21.978, 23.621, 24.264, 24.395, 24.264, 23.621, 23.024
Ground Level	21.742, 21.978, 22.146, 22.257, 22.338, 22.200, 22.279, 23.024, 22.833, 22.885, 23.387
Offset	-15.000, -13.081, -9.581, -8.501, -5.216, -3.930, 0.000, 3.930, 5.216, 6.409, 7.266, 15.000, 15.066, 20.000, 25.000, 37.573, 43.573

Chainage 60+740.000



Prop. RL / Ex. RL	25.137, 25.137, 22.942, 22.958, 23.345, 23.345
Prop. FL	21.621, 23.621, 24.264, 24.395, 24.264, 23.621
Ground Level	21.476, 21.621, 21.869, 21.935, 22.110, 22.202, 22.607, 22.818, 22.841, 22.790
Offset	-15.000, -13.018, -9.215, -5.216, -3.930, -0.000, 3.930, 5.216, 7.272, 15.000, 15.072, 20.000, 25.000, 37.657, 43.657

Chainage 60+760.000

Prop. RL / Ex. RL	25.137, 25.137, 22.956, 22.968, 23.322, 23.325
Prop. FL	21.482, 23.621, 24.264, 24.395, 24.264, 23.621, 22.620
Ground Level	21.421, 21.482, 21.606, 21.645, 21.933, 22.259, 22.372, 22.620, 22.735, 22.814, 22.877
Offset	-15.000, -12.955, -9.495, -5.216, -3.930, -0.000, 3.930, 5.216, 7.217, 7.281, 15.000, 15.081, 20.000, 25.000, 37.742, 43.742

Chainage 60+780.000

Prop. RL / Ex. RL	25.137, 25.137, 22.970, 22.977, 23.310, 23.318
Prop. FL	21.548, 23.621, 24.264, 24.395, 24.264, 23.621, 22.679
Ground Level	21.475, 21.548, 21.710, 21.747, 21.861, 21.982, 22.258, 22.679, 22.792, 22.821, 22.808
Offset	-15.000, -12.892, -9.363, -5.216, -3.930, -0.000, 3.930, 5.216, 7.100, 7.289, 15.000, 15.089, 20.000, 25.000, 37.827, 43.827

Chainage 60+800.000

PMC-2R OCG-OCI-NK-NKI-RITES
Engineer's Response: NONO
Checked: P.P
Date: 04.02.2020
(NAVEEN CHOPRA)
Alignment Engineer
PMC -2R (OCG Consortium)
For 'The Engineer' for WDFC Phase -2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCIL - CTP-13
Contractor's Representative
Date:

N. RAMAKRISHNA RAJU
Chief Design Engineer

STUP CONSULTANTS PVT. LTD. PLOT NO.22-A SECTOR-19-C, PALM BEACH MARG, VASHI, TEL.:40887777 Navi Mumbai 400705
(S.K. Pathak)

NOTES:

1. ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
2. EXISTING WORK IS SHOWN IN BLACK.
3. PROPOSED WORK IS SHOWN IN RED.
4. CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E ADJACENT TO IR TRACK).
5. DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER "L NO. L/OCGC/DFCC/CMT/CTP-13/1906/25094 (DATED 07-JUNE-2019)"
6. DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.86M VIDE ENGINEER LETTER NO. - L/OCGC/DFCC/CMT/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
7. TRACK FORMATION CROSS FALL - 1:30.
8. FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
9. FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
10. FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
11. THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINGAE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
12. FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
13. FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
14. IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
15. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
16. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/E&M CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 .... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
13/GE/DD/0762 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH 104.000 KM TO 126.000 KM
13/GE/DD/0763 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km
13/GE/DD/0765 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM
13/DE/DD/0766 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **
EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE
PROPOSED NALLA DIVERSION
INNER EDGE OF PROPOSED ROAD
INNER EDGE OF NOT IN SCOPE SERVICE ROAD
BLANKET
SUBGRADE
EXISTING GROUND
FUTURE IR TRACK

NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED	APPROVED
3	28-NOV-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1910/29382 (DATED 14-OCT-2019)	ACT	SRG	SKP	SKP
2	26-AUG-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1908/27131 (DATED 05-AUG-2019)	ACT	SRG	SKP	SKP
1	08-JUL-19	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP	SKP

PROJECT
WESTERN DEDICATED FREIGHT CORRIDOR ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13 PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION — SEAL & SIGN

EMPLOYER
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC
PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM OCG - OCI - NK - NKI - RITES
OCG CONSORTIUM

CONTRACTOR
EXPRESS FREIGHT CONSORTIUM
MITSUI & CO., LTD. IRCON TATA

DESIGNER
STUP Consultants Pvt. Ltd.

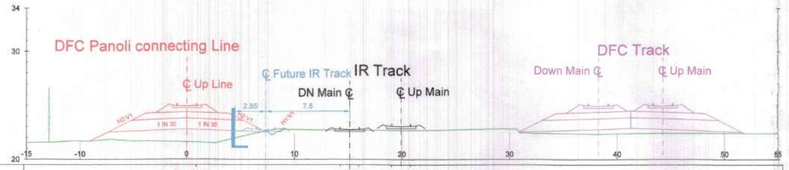
TITLE
DETAILED CROSS SECTIONS FROM CH. 60+660 TO CH. 60+800

JOB NO: 8309			SIZE A1	STATUS
	NAME	SIGN	PROJECTION	ID: (INCEPTION)
DRWN	ACT			TD: (TECHNICAL)
DSGN	SRG			✓ CD: (CONSTRUCTION)
CHKD	SKP		SCALE	BD: (AS BUILT)
APPD	SKP		1:250	DATE : 08-JUL-2019
DRG. NO. 13/AL/DG/0172-CD				REV-3

13-AL-DG0172R3.dwg

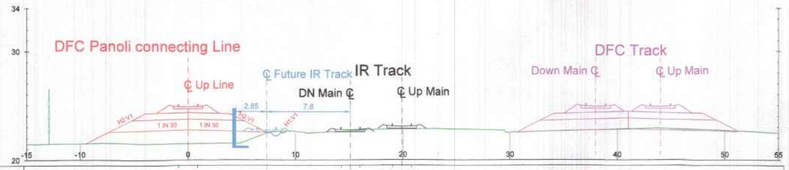
Prop. RL / Ex. RL					25.137	25.137			22.984	22.987	23.310	23.307												
Prop. FL			21.515	23.621	24.264	24.395	24.264	23.621	22.592															
Ground Level	21.498		21.515	21.602	21.625	21.562	21.522	21.737	22.592	22.754	22.826	22.845					37.912		43.912					
Offset	-15.000	-12.829	-9.428	-5.216	-3.930	0.000	3.930	5.216	7.274 / 7.296	15.000 / 15.096	20.000	25.000												

Chainage 60+820.000



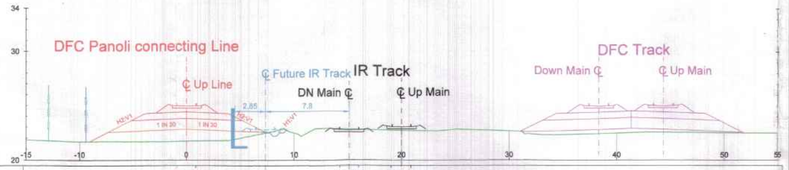
Prop. RL / Ex. RL					25.137	25.137					22.992	22.966	23.261	23.260										
Prop. FL			21.689	23.621	24.264	24.395	24.264	23.621	22.626															
Ground Level	21.513		21.689	21.703	21.701	21.613	21.833	22.159	22.626	22.699			22.713	22.761										
Offset	-15.000	-12.577	-9.079	-5.216	-3.930	0.000	3.930	5.216	7.206 / 7.341	15.000 / 15.142			20.000	25.000					38.251		44.252			

Chainage 60+900.000



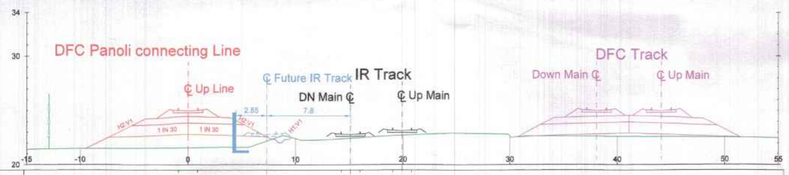
Prop. RL / Ex. RL					25.137	25.137			22.993	22.990	23.316	23.299												
Prop. FL			21.501	23.621	24.264	24.395	24.264	23.621	22.550 / 22.526															
Ground Level	21.476		21.501	21.510	21.476	21.511	21.531	21.673	22.527 / 22.526	22.692	22.839	22.886					37.997		43.997					
Offset	-15.000	-12.766	-9.456	-5.216	-3.930	-0.000	3.930	5.216	7.305 / 7.459	15.000 / 15.105	20.000	25.000												

Chainage 60+840.000



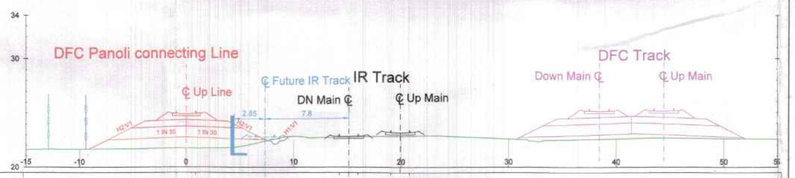
Prop. RL / Ex. RL					25.137	25.137					23.003	22.987	23.266	23.288										
Prop. FL			21.701	23.621	24.264	24.395	24.264	23.621	22.560 / 22.501															
Ground Level	21.529		21.701	21.703	21.698	21.721	21.802	22.048	22.461 / 22.501		22.652		22.772	22.859										
Offset	-15.000	-12.514	-9.056	-5.216	-3.930	0.000	3.930	5.216	7.336 / 7.359 / 7.455		15.000 / 15.136		20.000	25.000					38.336		44.336			

Chainage 60+920.000



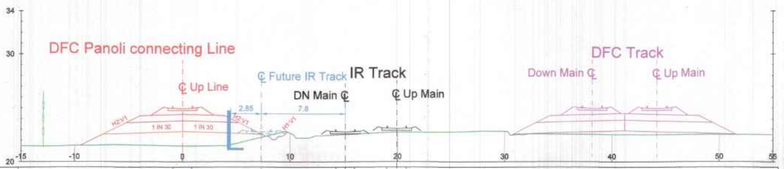
Prop. RL / Ex. RL					25.137	25.137			22.993	22.982	23.294	23.296												
Prop. FL			21.491	23.621	24.264	24.395	24.264	23.621	22.550 / 22.325															
Ground Level	21.421		21.491	21.524	21.533	21.559	21.586	21.590	22.171 / 22.325	22.419	22.677	22.878					38.082		44.082					
Offset	-15.000	-12.703	-9.476	-5.216	-3.930	0.000	3.930	5.216	7.315 / 7.369 / 7.869	15.000 / 15.115	20.000	25.000												

Chainage 60+860.000



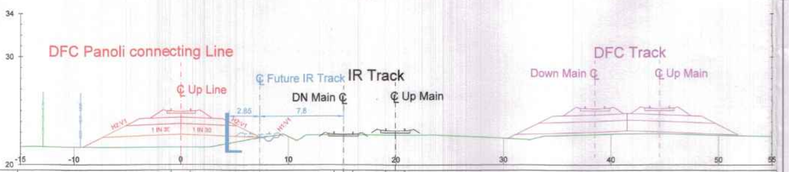
Prop. RL / Ex. RL					25.137	25.137					23.014	23.008	23.320	23.343										
Prop. FL			21.685	23.621	24.264	24.395	24.264	23.621	22.550 / 22.456															
Ground Level	21.521		21.685	21.704	21.714	21.754	21.805	21.942	22.418 / 22.456		22.767		22.827	22.785										
Offset	-15.000	-12.452	-9.089	-5.216	-3.930	-0.000	3.930	5.216	7.335 / 7.369 / 7.939		15.000 / 15.135		20.000	25.000					38.421		44.421			

Chainage 60+940.000



Prop. RL / Ex. RL					25.137	25.137			22.992	22.974	23.262	23.281												
Prop. FL			21.509	23.621	24.264	24.395	24.264	23.621	22.550 / 22.363															
Ground Level	21.468		21.509	21.570	21.546	21.473	21.475	21.739	22.270 / 22.363	22.518	22.732	22.786					38.167		44.167					
Offset	-15.000	-12.640	-9.440	-5.216	-3.930	0.000	3.930	5.216	7.328 / 7.359 / 7.733	15.000 / 15.128	20.000	25.000												

Chainage 60+880.000



Prop. RL / Ex. RL					25.137	25.137					23.026	23.030	23.327	23.380										
Prop. FL			21.630	23.621	24.264	24.395	24.264	23.621	22.560 / 22.521															
Ground Level	21.557		21.630	21.617	21.615	21.612	21.872	22.121	22.512 / 22.521		22.764		22.777	22.722										
Offset	-15.000	-12.389	-9.199	-5.216	-3.930	0.000	3.930	5.216	7.331 / 7.359 / 7.416		15.000 / 15.131		20.000	25.000					38.506		44.506			

Chainage 60+960.000

PMC-2R OCG CONSORTIUM	OCG-OCI-NK-NKI-RITES
Submittal Ref/ Ltr. Ref. No.	Date:
Engineer's Response	
NONO	
	Name / Signature
Checked	P.P
Reviewed	
Authorised Signatory	
Date: 04.03.2020	

(NAVEEN CHOPRA)
Alignment Engineer
PMC -2R (OCG Consortium)
For 'The Engineer' for WDFC Phase -2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCIL - CTP-13
Contractor's Representative | Date:

N. [illegible] RAJU
Chief Design Engineer

STUP CONSULTANTS PVT. LTD. PLOT NO.22-A SECTOR-19-C PALM BEACH MARG, VASHI TEL.43987777 New Mumbai 400 705

(S.K. Pathak)

NOTES:

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2. EXISTING WORK IS SHOWN IN BLACK.
3. PROPOSED WORK IS SHOWN IN RED.
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5. DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER "L NO. L/OCGC/DFCC/CMT/CTP-13/1906/25094 (DATED 07-JUNE-2019)'
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7. TRACK FORMATION CROSS FALL - 1:30.
8. FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
9. FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
10. FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
11. THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINGAE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
12. FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
13. FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
14. IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
15. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
16. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/E&M CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 .... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
13/GE/DD/0762 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH 104.000 KM TO 126.000 KM
13/GE/DD/0763 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km
13/GE/DD/0765 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM
13/DE/DD/0766 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/ DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **
EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE
PROPOSED NALLA DIVERSION
INNER EDGE OF PROPOSED ROAD
INNER EDGE OF NOT IN SCOPE SERVICE ROAD
BLANKET
SUBGRADE
EXISTING GROUND
FUTURE IR TRACK

NO.	DATE	REVISION	DRWN	DSGN	CHKD	APPRD
3.	25-NOV-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1910/25362 DATED 14-DEC-2019.	ACT	SRG	SKP	SKP
2.	29-AUG-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1908/27131 DATED 05-AUG-2019.	ACT	SRG	SKP	SKP
1.	09-JUL-19	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP	SKP

PROJECT
WESTERN DEDICATED FREIGHT CORRIDOR
ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13
PROPOSED DFC CONNECTIVITY BETWEEN
PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION | SEAL & SIGN

EMPLOYER
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC
PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM
OCG - OCI - NK - NKI - RITES
OCG CONSORTIUM

CONTRACTOR
EXPRESS FREIGHT CONSORTIUM
MITSUI & CO., LTD. | IGW | TATA

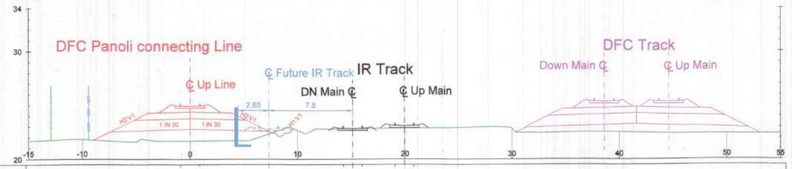
DESIGNER
STUP Consultants Pvt. Ltd.

TITLE
DETAILED CROSS SECTIONS
FROM CH. 60+820 TO CH. 60+960

JOB NO: 8309	NAME	SIGN	SIZE A1	STATUS
			PROJECTION	ID: (INCEPTION)
DRWN	ACT	ACT		TD: (TECHNICAL)
DSGN	SRG	SRG		✓ CD: (CONSTRUCTION)
CHKD	SKP	SKP	SCALE	BD: (AS BUILT)
APPD	SKP	SKP	1:250	DATE : 08-JUL-2019

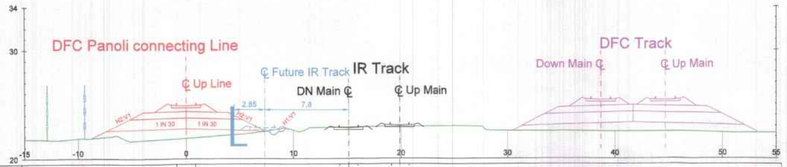
DRG. NO. 13/AL/DG/0173-CD REV-3

13-AL-00017383.dwg



Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-15.000			21.701
-12.326		21.776	21.776
-8.906		21.776	21.776
-5.216	25.137	23.621	21.612
-3.930	25.137	24.264	21.808
-0.000	24.395	24.395	21.695
3.930	23.040	24.264	21.704
5.216	23.048	23.621	21.704
7.327	23.264	22.550	22.340
7.604	23.293	22.427	22.427
15.000	22.812		
15.127			
20.000	22.855		
25.000	22.926		
38.591			
44.591			

Chainage 60+980.000



Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-15.000			21.826
-12.074		21.756	21.756
-8.947		23.621	21.761
-5.216	25.137	24.264	21.771
-3.930	25.137	24.395	21.807
0.000		24.264	21.955
3.930		23.621	22.168
5.216		22.550	22.504
7.340		22.315	22.516
7.369			
7.428			
15.000	23.123		22.980
15.140	23.130		
20.000	23.236		22.925
25.000	23.233		23.274
38.930			
44.931			

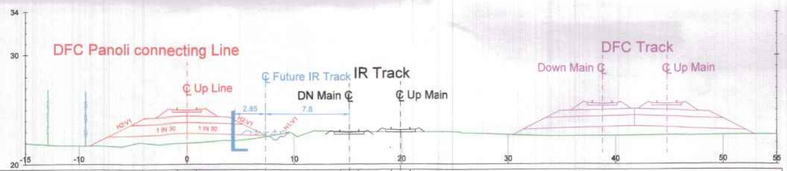
Chainage 61+060.000

Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-15.000			21.794
-12.253		21.859	21.859
-8.741		23.621	21.602
-5.216	25.137	24.264	21.677
-3.930	25.137	24.395	21.910
-0.000		24.264	22.190
3.930	23.054	23.621	22.272
5.216	23.065	22.550	22.519
7.322	23.278	22.527	22.527
7.359	23.282		
7.404			
15.000	22.916		
15.122			
20.000	22.967		
25.000	23.039		
38.676			
44.676			

Chainage 61+000.000

Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-15.000			21.769
-12.011		21.806	21.806
-8.848		23.621	21.685
-5.216	25.137	24.264	21.891
-3.930	25.137	24.395	21.906
-0.000		24.264	21.895
3.930		23.621	22.026
5.216		22.550	22.440
7.355		22.470	22.470
7.369			
7.518			
15.000	23.151		22.895
15.156	23.159		
20.000	23.204		22.914
25.000	23.198		22.879
39.015	22.908		
45.015			

Chainage 61+080.000



Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-15.000			21.958
-12.200		21.735	21.735
-8.988		23.621	21.825
-5.216	25.137	24.264	21.964
-3.930	25.137	24.395	21.905
0.000		24.264	22.083
3.930	23.069	23.621	22.172
5.216	23.081	22.550	22.469
7.319	23.279	22.460	22.460
7.359	23.283		
7.417			
15.000	22.944		
15.119			
20.000	22.859		
25.000	22.900		
38.761			
44.761			

Chainage 61+020.000

Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-15.000			21.783
-11.948		21.784	21.784
-8.890		23.621	21.967
-5.216	25.137	24.264	22.001
-3.930	25.137	24.395	21.999
-0.000		24.264	21.993
3.930		23.621	21.979
5.216		22.550	22.434
7.370		22.470	22.470
7.399			
7.519			
15.000	23.179		23.076
15.170	23.188		
20.000	23.281		23.062
25.000	23.277		22.993
39.100	22.979		
45.100			

Chainage 61+100.000

Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-15.000			21.863
-12.137		21.915	21.915
-8.628		23.621	21.920
-5.216	25.137	24.264	21.926
-3.930	25.137	24.395	22.020
-0.000		24.264	22.038
3.930	23.090	23.621	22.217
5.216	23.100	22.550	22.504
7.322	23.292	22.515	22.515
7.359	23.294		
7.431			
15.000	22.938		
15.122			
20.000	22.899		
25.000	23.140		
38.846			
44.846			

Chainage 61+040.000

Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-15.000			21.840
-11.885		21.799	21.799
-8.861		23.621	21.842
-5.216	25.137	24.264	21.802
-3.930	25.137	24.395	21.788
-0.000		24.264	21.817
3.930		23.621	21.900
5.216		22.550	22.364
7.365		22.416	22.416
7.359			
7.626			
15.000	23.211		23.127
15.165	23.214		
20.000	23.311		23.100
25.000	23.308		23.029
39.185	23.049		
45.185			

Chainage 61+120.000

NOTES:

1. ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
2. EXISTING WORK IS SHOWN IN BLACK.
3. PROPOSED WORK IS SHOWN IN RED.
4. CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E ADJACENT TO IR TRACK).
5. DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER "L NO. L/OCGC/DFCC/CMT/CTP-13/1906/25094 (DATED 07-JUNE-2019)"
6. DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.86M VIDE ENGINEER LETTER NO. - L/OCGC/DFCC/CMT/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
7. TRACK FORMATION CROSS FALL - 1:30.
8. FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
9. FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
10. FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
11. THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINGAE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
12. FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
13. FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
14. IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
15. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
16. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/E&M CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 .... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
13/GE/DD/0762 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH 104.000 KM TO 126.000 KM
13/GE/DD/0763 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km
13/GE/DD/0765 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM
13/DE/DD/0766 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **
EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE — ROW — ROW
PROPOSED NALLA DIVERSION — NALLA DIVERSION
INNER EDGE OF PROPOSED ROAD — IRD — IRD
INNER EDGE OF NOT IN SCOPE SERVICE ROAD — NSR — NSR
BLANKET
SUBGRADE
EXISTING GROUND
FUTURE IR TRACK

NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED	APPROVED
3	28-NOV-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1910/2092 (DATED 14-OCT-2019)	ACT	SRG	SKP	SKP
2	26-AUG-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1826/2191 (DATED 05-AUG-2019)	ACT	SRG	SKP	SKP
1	08-JUL-19	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP	SKP

PROJECT
WESTERN DEDICATED FREIGHT CORRIDOR ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13 PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION | SEAL & SIGN

EMPLOYER
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC
PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM
OCG CONSORTIUM — OCG - OCI - NK - NKI - RITES

CONTRACTOR
EXPRESS FREIGHT CONSORTIUM
MITSUI & CO., LTD. — TATA

DESIGNER
STUP Consultants Pvt. Ltd.

TITLE
DETAILED CROSS SECTIONS FROM CH. 60+980 TO CH. 61+120

JOB NO: 8309	NAME	SIGN	SIZE A1	STATUS
DRWN	ACT		PROJECTION	ID: (INCEPTION)
DSGN	SRG			TD: (TECHNICAL)
CHKD	SKP			✓ CD: (CONSTRUCTION)
APPD	SKP		SCALE 1:250	BID: (AS BUILT)
				DATE : 08-JUL-2019

DRG. NO. 13/AL/DG/0174-CD — REV-3

PMC-2R OCG CONSORTIUM	OCG-OCI-NK-NKI-RITES
Submittal No/ Ltr. Ref. No:	Date:
Engineer's Response	
NONO	
	Name / Signature
Checked	P.P
Reviewed	
Authorised Signatory	
Date:	04.02.2020

(NAVEEN CHOPRA)
Alignment Engineer
PMC -2R (OCG Consortium)
For 'The Engineer' for WDFC Phase -2

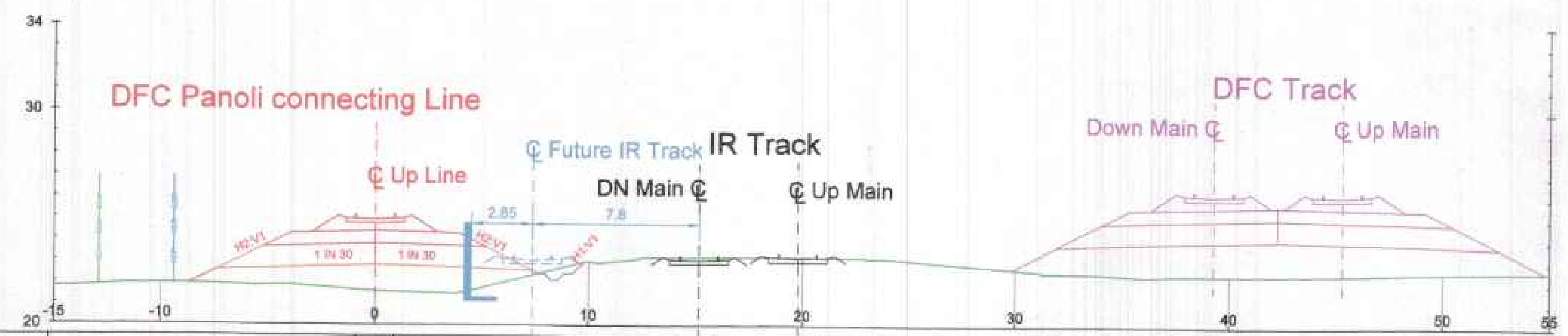
GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCIL - CTP-13
Contractor's Representative | Date:

N. MURAKRISHNA RAJU
Chief Design Engineer

STUP CONSULTANTS PVT. LTD. PLOT NO. 22-A SECTOR-19-C PALM BEACH MARG, VASHI TEL:-49607777 Navi Mumbai 400703

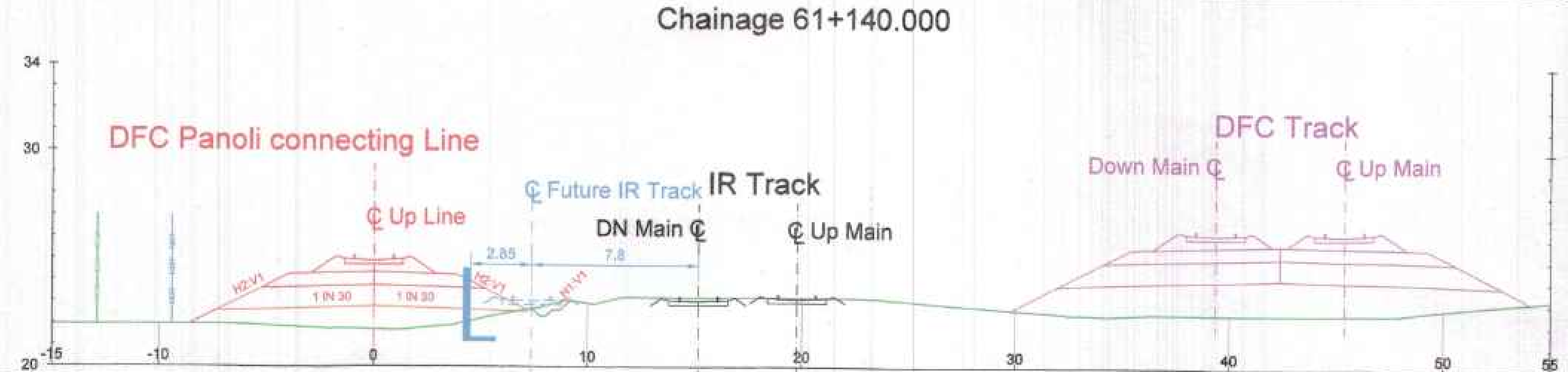
(S.K. Pathak)

1:1 A 13-AL-0001745.dwg



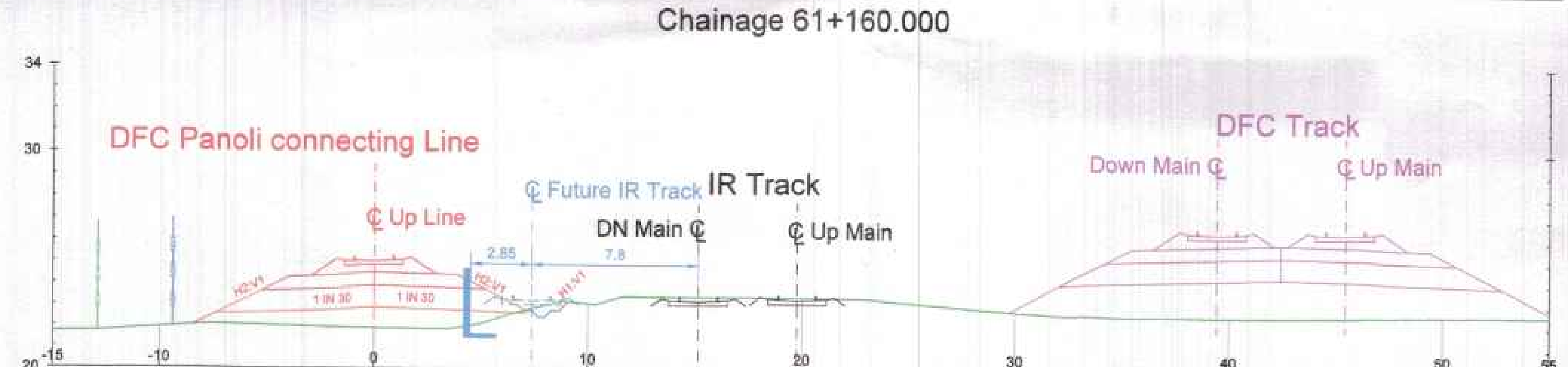
Prop. RL / Ex. RL						25.137 25.137				23.244 23.239	23.325 23.329	23.120			
Prop. FL			21.891	23.621	24.264	24.395	24.264	23.621	22.550 22.409						
Ground Level	21.777		21.891	21.839	21.851	21.598	21.473	21.789	22.338 22.409	23.175	23.159		23.067		
Offset	-15.000	-11.822	-8.675	-5.216	-3.930	0.000	3.930	5.216	7.367 7.359 7.641	15.000 15.167	20.000		25.000	39.270	45.270

Chainage 61+140.000



Prop. RL / Ex. RL						25.137 25.137				23.278 23.268	23.353 23.360	23.190			
Prop. FL			21.952	23.621	24.264	24.395	24.264	23.621	22.661						
Ground Level	21.949		21.952	21.919	21.861	21.735	21.880	22.278	22.661	23.245	23.218		23.084		
Offset	-15.000	-11.759	-8.554	-5.216	-3.930	-0.000	3.930	5.216	7.137 7.367	15.000 15.167	20.000		25.000	39.355	45.355

Chainage 61+160.000

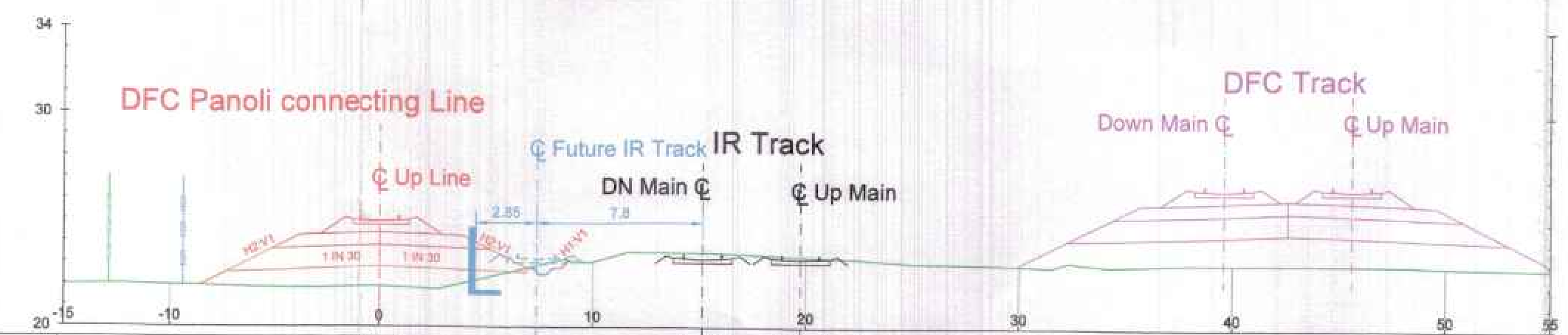


Prop. RL / Ex. RL						25.137 25.137				23.324 23.313	23.380 23.385	23.261			
Prop. FL			22.010	23.621	24.264	24.395	24.264	23.621	22.692						
Ground Level	21.726		22.010	22.041	22.002	21.893	21.893	22.141	22.692	23.320	23.280		23.112		
Offset	-15.000	-11.696	-8.438	-5.216	-3.930	0.000	3.930	5.216	7.073 7.370	15.000	20.000		25.000	39.440	45.440

Chainage 61+180.000

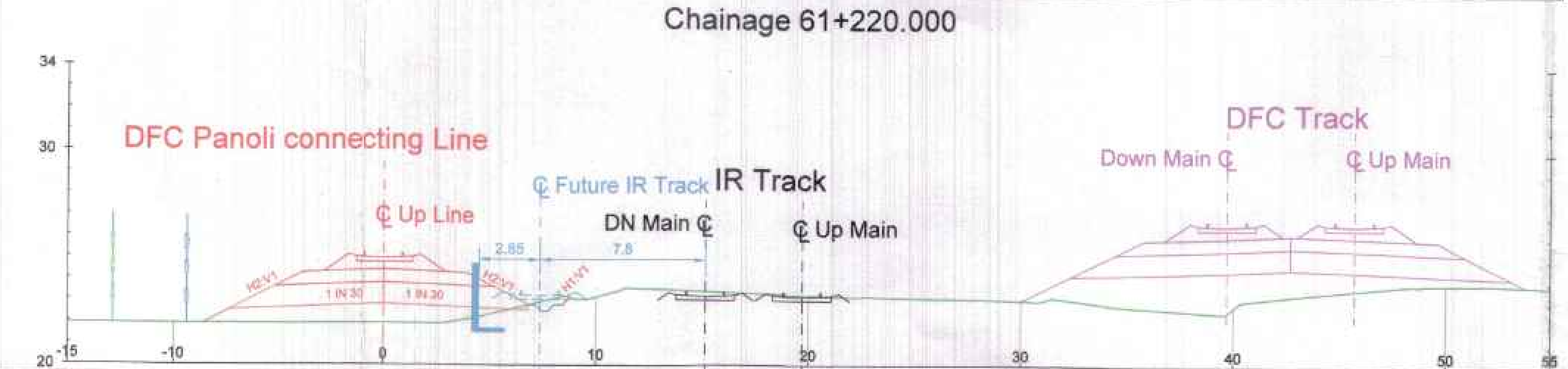
Prop. RL / Ex. RL						25.137 25.137				23.369 23.358	23.384 23.406	23.283			
Prop. FL			21.989	23.621	24.264	24.395	24.264	23.621	22.731						
Ground Level	21.927		21.989	21.981	21.977	21.823	21.932	22.303	22.731	23.399	23.358		23.107		
Offset	-15.000	-11.633	-8.481	-5.216	-3.930	-0.000	3.930	5.216	6.997 7.370	15.000 15.170	20.000		25.000	39.525	45.525

Chainage 61+200.000



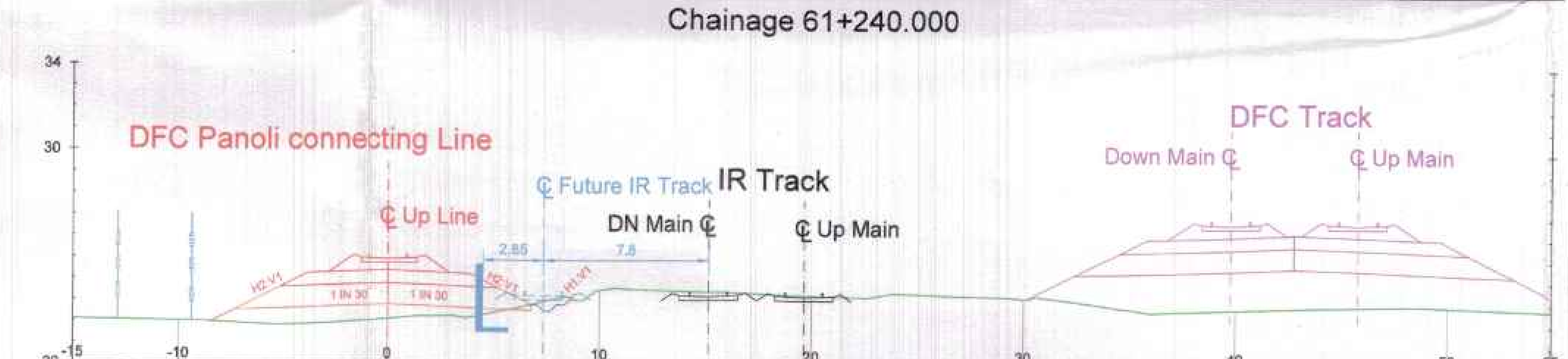
Prop. RL / Ex. RL						25.137 25.137				23.411 23.399	23.370 23.405	23.236			
Prop. FL			21.922	23.621	24.264	24.395	24.264	23.621	22.769						
Ground Level	21.933		21.922	21.839	21.813	21.868	22.051	22.360	22.769	23.479	23.315		23.046		
Offset	-15.000	-11.570	-8.614	-5.216	-3.930	-0.000	3.930	5.216	6.920 7.372	15.000 15.172	20.000		25.000	39.609	45.610

Chainage 61+220.000



Prop. RL / Ex. RL						25.137 25.137				23.440 23.425	23.416 23.420	23.208			
Prop. FL			21.933	23.621	24.264	24.395	24.264	23.621	22.808						
Ground Level	21.899		21.933	21.925	21.919	21.924	22.132	22.417	22.808	23.453	23.282		23.174		
Offset	-15.000	-11.507	-8.592	-5.216	-3.930	-0.000	3.930	5.216	6.843 7.363	15.000 15.163	20.000		25.000	39.694	45.694

Chainage 61+240.000



Prop. RL / Ex. RL						25.137 25.137				23.470 23.452	23.461 23.446	23.246			
Prop. FL			21.998	23.621	24.264	24.395	24.264	23.621	22.846						
Ground Level	22.075		21.998	21.843	21.885	22.120	22.242	22.510	22.846	23.454	23.304		23.387		
Offset	-15.000	-11.444	-8.462	-5.216	-3.930	0.000	3.930	5.216	6.768 7.363	15.000 15.153	20.000		25.000	39.779	45.779

Chainage 61+260.000

Prop. RL / Ex. RL						25.137 25.137				23.502 23.485	23.496 23.495	23.284			
Prop. FL			21.961	23.621	24.264	24.395	24.264	23.621	22.924						
Ground Level	22.047		21.961	22.070	22.081	22.098	22.396	22.650	22.924	23.465	23.346		23.525		
Offset	-15.000	-11.382	-8.537	-5.216	-3.930	-0.000	3.930	5.216	6.611 7.346	15.000 15.146	20.000		25.000	39.864	45.864

Chainage 61+280.000

PMC-2R OCG CONSORTIUM | OCG-OCI-NK-NKI-RITES
Submittal No/ Ltr. Ref. No: | Date:
Engineer's Response: NONO
Checked: P.P (signature)
Reviewed
Authorised Signatory (signature)
Date: 04-02-2020
(NAVEEN CHOPRA)
Alignment Engineer
PMC -2R (OCG Consortium)
For 'The Engineer' for WDFC Phase -2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCIL - CTP-13
Contractor's Representative | Date:

N. RAMAKRISHNA RAJU
Chief Design Engineer

STUP CONSULTANTS PVT. LTD. PLOT NO.22-A SECTOR-19-C, PALM BEACH MARG, VASHI, TEL.:40887777 Navi Mumbai 400705
(S. K. Pathak)

NOTES:

1. ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
2. EXISTING WORK IS SHOWN IN BLACK.
3. PROPOSED WORK IS SHOWN IN RED.
4. CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E ADJACENT TO IR TRACK).
5. DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER "L NO. L/OCGC/DFCC/CMT/CTP-13/1906/25094 (DATED 07-JUNE-2019)"
6. DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.86M VIDE ENGINEER LETTER NO. - L/OCGC/DFCC/CMT/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
7. TRACK FORMATION CROSS FALL - 1:30.
8. FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
9. FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
10. FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
11. THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINGAE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
12. FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
13. FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
14. IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
15. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
16. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/E&M CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 .... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
13/GE/DD/0762 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH 104.000 KM TO 126.000 KM
13/GE/DD/0763 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km
13/GE/DD/0765 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM
13/DE/DD/0766 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/ DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **
EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE
PROPOSED NALLA DIVERSION
INNER EDGE OF PROPOSED ROAD
INNER EDGE OF NOT IN SCOPE SERVICE ROAD
BLANKET
SUBGRADE
EXISTING GROUND
FUTURE IR TRACK

NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED	APPROVED
3	26-NOV-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1910/29382 (DATED 14-OCT-2019)	ACT	SRG	SKP	SKP
2	26-AUG-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1908/27131 (DATED 05-AUG-2019)	ACT	SRG	SKP	SKP
1	08-JUL-19	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP	SKP

PROJECT
WESTERN DEDICATED FREIGHT CORRIDOR ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13 PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION | SEAL & SIGN

EMPLOYER
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC
PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM OCG - OCI - NK - NKI - RITES
OCG CONSORTIUM

CONTRACTOR
EXPRESS FREIGHT CONSORTIUM
MITSUI & CO., LTD. | L&T | TATA

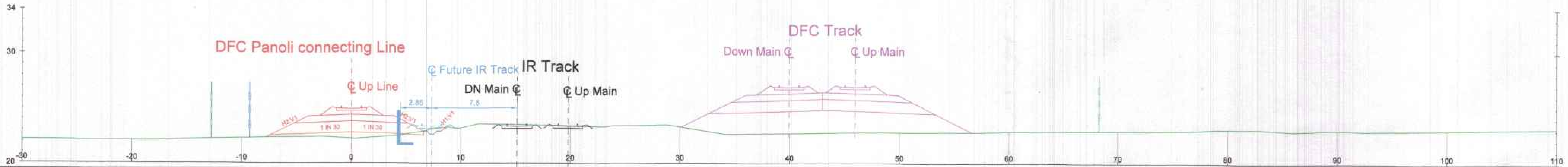
DESIGNER
STUP Consultants Pvt. Ltd.

TITLE
DETAILED CROSS SECTIONS FROM CH. 61+140 TO CH. 61+280

JOB NO: 8309			SIZE A1	STATUS
	NAME	SIGN	PROJECTION	ID: (INCEPTION)
DRWN	ANUJ	(signature)		TD: (TECHNICAL)
DSGN	SRG	(signature)		✓ CD: (CONSTRUCTION)
CHKD	SVK	(signature)	SCALE	BD: (AS BUILT)
APPD	SVK	(signature)	1:250	DATE : 08-JUL-2019

DRG. NO. 13/AL/DG/0175-CD REV-3

13-AL-DG0175R3.dwg

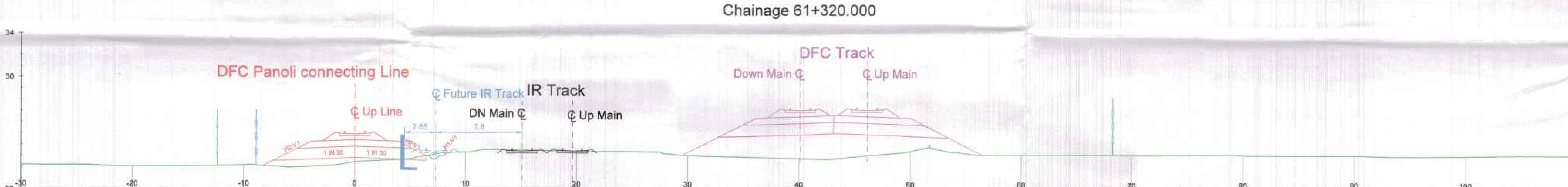


Offset	Ground Level	Prop. FL	Prop. RL / Ex. RL
-30.000	22.126		
-25.000	22.099		
-20.000	22.083		
-15.000	22.149		
-11.319			
-7.762	22.348	22.348	
-5.216	22.384	23.621	
-3.930	22.398	24.264	
0.000	22.228	24.395	25.137, 25.137
3.930	22.468	24.264	
5.216	22.693	23.621	
6.626	22.916	22.916	
7.336			
15.000	23.498		23.543
15.136			23.537
20.000	23.389		23.572, 23.571
25.000	23.458		
30.000	23.294		
35.000	22.652		
40.000	22.728		
45.000	22.783		
55.000	22.840		
60.000	22.866		
68.301			

Chainage 61+300.000

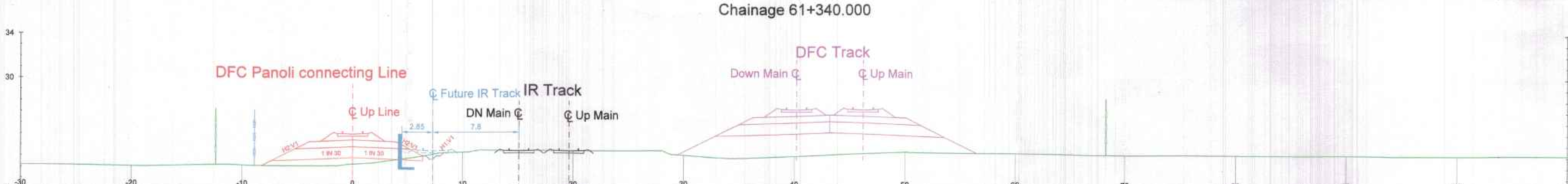
Offset	Ground Level	Prop. FL	Prop. RL / Ex. RL
-30.000	22.192		
-25.000	22.090		
-20.000	21.983		
-15.000	22.008		
-11.256			
-7.999	22.229	22.229	
-5.216	22.341	23.621	
-3.930	22.384	24.264	
0.000	22.401	24.395	25.137, 25.137
3.930	22.514	24.264	
5.216	22.626	23.621	
6.488	22.985	22.985	
7.329			
15.000	23.511		23.583
15.130			23.589
20.000	23.425		23.619, 23.618
25.000	23.372		
30.000	23.080		
35.000	22.941		
40.000	22.802		
45.000	22.838		
55.000	23.224		
60.000	23.202		
68.304			

Chainage 61+320.000



Offset	Ground Level	Prop. FL	Prop. RL / Ex. RL
-30.000	22.184		
-25.000	22.208		
-20.000	22.085		
-15.000	22.028		
-11.194			
-8.239	22.109	22.109	
-5.216	21.989	23.621	
-3.930	22.042	24.264	
0.000	22.395	24.395	25.137, 25.137
3.930	22.629	24.264	
5.216	22.731	23.621	
6.446	23.006	23.006	
7.321			
15.000	23.510		23.629
15.121			23.640
20.000	23.439		23.666, 23.664
25.000	23.439		
30.000	23.078		
35.000	22.956		
40.000	22.841		
45.000	22.969		
55.000	23.331		
60.000	23.208		
68.307			

Chainage 61+340.000



Offset	Ground Level	Prop. FL	Prop. RL / Ex. RL
-30.000	22.160		
-25.000	22.150		
-20.000	22.062		
-15.000	22.116		
-11.131			
-8.226	22.116	22.116	
-5.216	22.100	23.621	
-3.930	22.092	24.264	
0.000	22.219	24.395	25.137, 25.137
3.930	22.641	24.264	
5.216	22.829	23.621	
6.403	23.027	23.027	
7.309			
15.000	23.530		23.684
15.109			23.690
20.000	23.530		23.694, 23.695
25.000	23.530		
30.000	23.073		
35.000	22.820		
40.000	23.022		
45.000	23.224		
55.000	23.371		
60.000	23.309		
68.310			

Chainage 61+360.000

PMC-2R OCG CONSORTIUM | OCG-OCI-NK-NKI-RITES
Submtal No/ Ltr. Ref. No: | Date:
Engineer's Response
NONO
Checked: P.P (signature)
Reviewed:
Authorised Signatory: (signature)
Date: 04-02-2020
(NAVEEN CHOPRA)
Alignment Engineer
PMC -2R (OCG Consortium)
For 'The Engineer' for WDFC Phase -2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCIL - CTP-13
Contractor's Representative | Date:

N. RAMAKRISHNA RAJU
Chief Design Engineer

STUP CONSULTANTS PVT. LTD. PLOT NO.22-A SECTOR-19-C, PALM BEACH MARG, VASHI, TEL.:40887777 Navi Mumbai 400705
(S.K. Dathak)

NOTES:

1. ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
2. EXISTING WORK IS SHOWN IN BLACK.
3. PROPOSED WORK IS SHOWN IN RED.
4. CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E ADJACENT TO IR TRACK).
5. DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER "L NO. L/OCGC/DFCC/CMT/CTP-13/1906/25094 (DATED 07-JUNE-2019)"
6. DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.86M VIDE ENGINEER LETTER NO. - L/OCGC/DFCC/CMT/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
7. TRACK FORMATION CROSS FALL - 1:30.
8. FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
9. FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
10. FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
11. THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINGAE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
12. FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
13. FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
14. IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
15. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
16. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/E&M CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 .... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
13/GE/DD/0762 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH 104.000 KM TO 126.000 KM
13/GE/DD/0763 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km
13/GE/DD/0765 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM
13/DE/DD/0766 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **
EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE
PROPOSED NALLA DIVERSION
INNER EDGE OF PROPOSED ROAD
INNER EDGE OF NOT IN SCOPE SERVICE ROAD
BLANKET
SUBGRADE
EXISTING GROUND
FUTURE IR TRACK

NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED	APPROVED
3	26-NOV-19	REVISED AS PER PMC COMMENTS L.NO. L/OCGC/DFCC/CMT/CTP-13/1910/26362 (DATED 14-OCT-2019)	ACT	SRG	SKP	SKP
2	26-AUG-19	REVISED AS PER PMC COMMENTS L.NO. L/OCGC/DFCC/CMT/CTP-13/1908/27131 (DATED 05-AUG-2019)	ACT	SRG	SKP	SKP
1	08-JUL-19	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP	SKP

PROJECT
WESTERN DEDICATED FREIGHT CORRIDOR ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13 PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION | SEAL & SIGN

EMPLOYER
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC
PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM OCG - OCI - NK - NKI - RITES
OCG CONSORTIUM

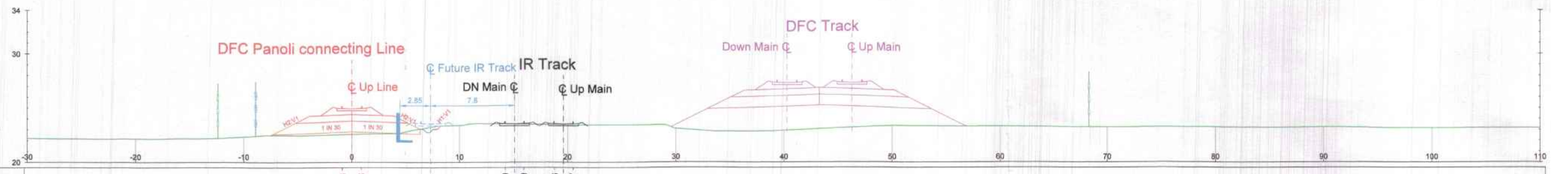
CONTRACTOR
EXPRESS FREIGHT CONSORTIUM
MITSUI & CO., LTD. | IRCON | TATA

DESIGNER
STUP Consultants Pvt. Ltd.

TITLE
DETAILED CROSS SECTIONS FROM CH. 61+300 TO CH. 61+360

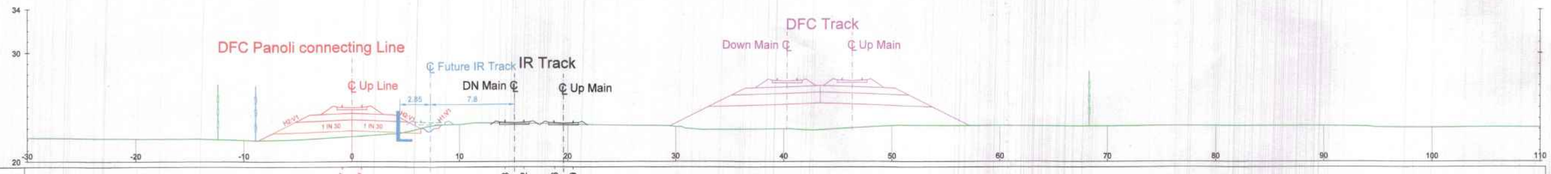
JOB NO: 8309		SIZE A1	STATUS
	NAME / SIGN	PROJECTION	ID: (INCEPTION)
DRWN	ANUJ		TD: (TECHNICAL)
DSGN	SRG		✓ CD: (CONSTRUCTION)
CHKD	SVK	SCALE	BD: (AS BUILT)
APPD	SVK	1:250	DATE : 08-JUL-2019
DRG. NO. 13/AL/DG/0176-CD			REV-3

13-AL-000176R3.dwg



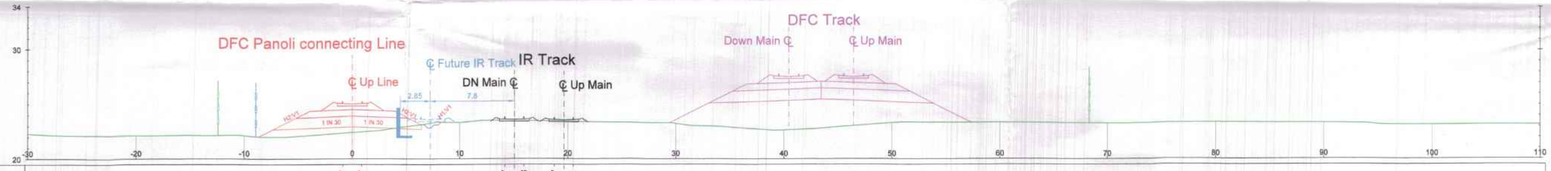
Offset	Ground Level	Prop. FL	Prop. RL / Ex. RL
-30.000	22.193		
-25.000	22.158		
-20.000	22.168		
-15.000	22.174		
-11.088			25.138
-7.478	22.491	22.491	25.138
-5.216	22.472	22.622	
-3.930	22.466	24.265	
0.000	22.567	24.396	
3.930	22.648	24.265	
5.216	22.649	23.622	
6.441	23.052	23.062	
7.299			
15.000	23.512		23.740
15.089			23.739
20.000	23.438		23.733
25.000	23.437		23.717
30.000	23.084		
35.000	22.830		
40.000	22.920		
45.000	23.129		
55.000	23.319		
60.000	23.281		
68.313			

Chainage 61+380.000



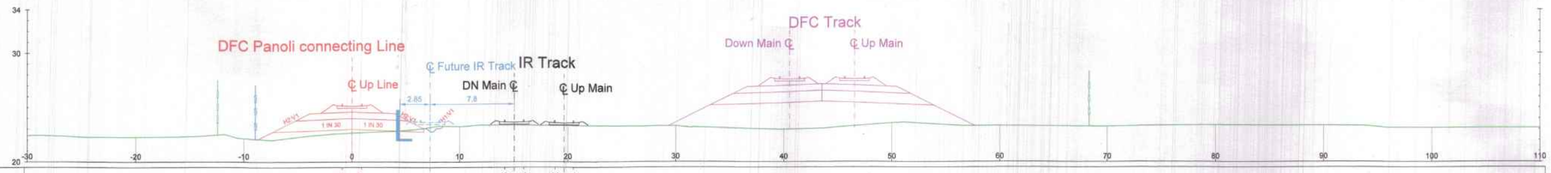
Offset	Ground Level	Prop. FL	Prop. RL / Ex. RL
-30.000	22.157		
-25.000	22.127		
-20.000	22.111		
-15.000	22.083		
-11.005			25.177
-8.653	21.943	21.943	25.177
-5.216	22.021	23.662	
-3.930	22.087	24.304	
0.000	22.290	24.435	
3.930	22.557	24.304	
5.216	22.774	23.662	
6.449	23.060	23.060	
7.338			
15.000	23.511		23.788
15.088			23.782
20.000	23.430		23.756
25.000	23.352		23.739
30.000	23.166		
35.000	22.941		
40.000	22.998		
45.000	22.994		
55.000	23.295		
60.000	23.274		
68.316			

Chainage 61+400.000



Offset	Ground Level	Prop. FL	Prop. RL / Ex. RL
-30.000	22.315		
-25.000	22.155		
-20.000	22.137		
-15.000	22.141		
-10.971			25.257
-8.662	22.018	22.018	25.257
-5.216	22.066	23.741	
-3.930	22.150	24.384	
0.000	22.407	24.515	
3.930	22.801	24.384	
5.216	22.979	23.741	
6.441	23.129	23.129	
7.210			
15.000	23.507		23.827
15.071			23.818
20.000	23.441		23.757
25.000	23.357		23.761
30.000	23.218		
35.000	22.901		
40.000	22.854		
45.000	22.923		
55.000	23.356		
60.000	23.333		
68.318			

Chainage 61+420.000



Offset	Ground Level	Prop. FL	Prop. RL / Ex. RL
-30.000	22.418		
-25.000	22.285		
-20.000	22.289		
-15.000	22.343		
-10.953			25.337
-8.690	22.094	22.094	25.337
-5.216	22.272	23.821	
-3.930	22.417	24.464	
0.000	22.647	24.595	
3.930	22.837	24.464	
5.216	22.938	23.821	
6.666	23.096	23.096	
7.205			
15.000	23.376		23.866
15.055			23.854
20.000	23.336		23.772
25.000	23.296		23.774
30.000	23.296		
35.000	23.110		
40.000	23.004		
45.000	23.181		
55.000	23.415		
60.000	23.294		
68.322			

Chainage 61+440.000

NOTES:

1. ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
2. EXISTING WORK IS SHOWN IN BLACK.
3. PROPOSED WORK IS SHOWN IN RED.
4. CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E ADJACENT TO IR TRACK).
5. DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER "L NO. L/OCGC/DFCC/CMT/CTP-13/1906/25094 (DATED 07-JUNE-2019)".
6. DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.86M VIDE ENGINEER LETTER NO. - L/OCGC/DFCC/CMT/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
7. TRACK FORMATION CROSS FALL - 1:30.
8. FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
9. FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
10. FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
11. THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINGAE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
12. FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
13. FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
14. IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
15. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
16. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/E&M CABLES AS PER CONTRACT REQUIREMENT.

PMC-2R (OCG CONSORTIUM) | OCG-OCI-NK-NKI-RITES
Submittal Ref/ Un. Ref. No.: | Date:
Engineer's Response
NONO
Checked: P.P | Reviewed | Authorized Signatory | Date: 04-02-2020

(NAVEEN CHOPRA)
Alignment Engineer
PMC -2R (OCG Consortium)
For 'The Engineer' for WDFC Phase -2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCIL - CTP-13
Contractor's Representative | Date:

N. RAMAKRISHNA RAJU
Chief Design Engineer

STUP CONSULTANTS PVT. LTD. PLOT NO.22-A SECTOR-15-C, PALM BEACH MARG, VASHI, TEL. 40927777, Navi Mumbai 400705
(S.K. Pathak)

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 .... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
13/GE/DD/0762 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH 104.000 KM TO 126.000 KM
13/GE/DD/0763 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km
13/GE/DD/0765 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM
13/DE/DD/0766 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **
EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE
PROPOSED NALLA DIVERSION
INNER EDGE OF PROPOSED ROAD
INNER EDGE OF NOT IN SCOPE SERVICE ROAD
BLANKET
SUBGRADE
EXISTING GROUND
FUTURE IR TRACK

NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED	APPROVED
3	26-NOV-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1910/2082 DATED 14-OCT-2019	ACT	SRG	SKP	SKP
2	26-AUG-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1909/2191 DATED 05-AUG-2019	ACT	SRG	SKP	SKP
1	05-JUL-19	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP	SKP

PROJECT: WESTERN DEDICATED FREIGHT CORRIDOR ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13 PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION | SEAL & SIGN

EMPLOYER: DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC: PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM OCG - OCI - NK - NKI - RITES (OCG CONSORTIUM)

CONTRACTOR: EXPRESS FREIGHT CONSORTIUM

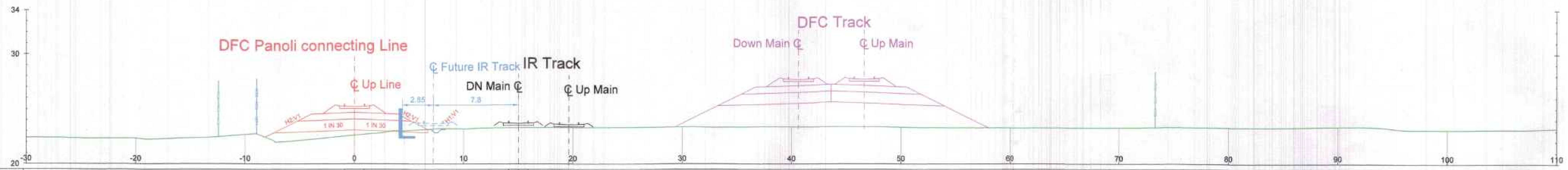
DESIGNER: STUP Consultants Pvt. Ltd.

TITLE: DETAILED CROSS SECTIONS FROM CH. 61+380 TO CH. 61+440

JOB NO: 8309	NAME	SIGN	SIZE A1	STATUS
DRWN	ACT		PROJECTION	ID: (INCEPTION)
DSGN	SRG			TD: (TECHNICAL)
CHKD	SKP			CD: (CONSTRUCTION) ✓
APPD	SKP		SCALE 1:250	BD: (AS BUILT)
				DATE : 08-JUL-2019

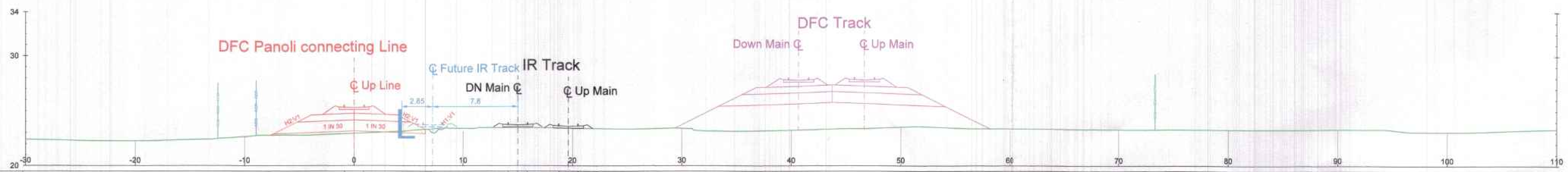
DRG. NO. 13/AL/DG/0177-CD | REV-3

13-AL-DG0177R3.dwg



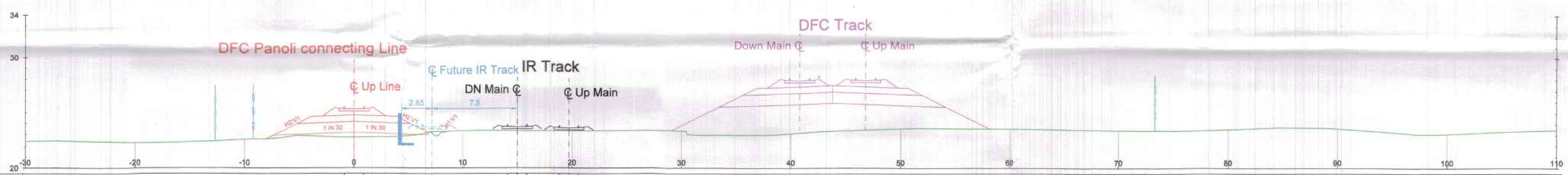
Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-30.000			22.389
-25.000			22.344
-20.000			22.343
-15.000			22.349
-10.972			
-8.157		22.430	22.430
-5.216		23.901	22.133
-3.930		24.544	22.247
0.000	25.417 25.417	24.675	22.596
3.930		24.544	23.009
5.216		23.901	23.050
6.728		23.145	23.145
7.236			
15.000	23.899		23.290
15.036	23.888		
20.000	23.770 23.770		23.313
25.000			23.337
30.000			23.361
35.000			23.362
40.000			23.396
45.000			23.384
55.000			23.317
60.000			23.280
65.000			23.291
70.000			23.312
73.325			

Chainage 61+460.000



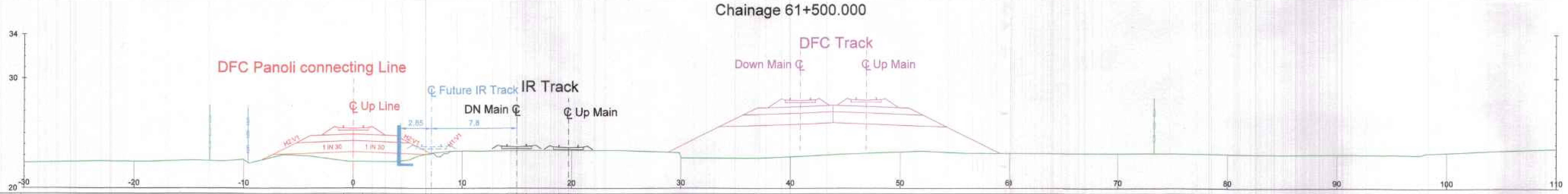
Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-30.000			22.380
-25.000			22.294
-20.000			22.266
-15.000			22.368
-11.206			
-7.606		22.786	22.786
-5.216		23.981	22.799
-3.930		24.624	22.803
0.000	25.497 25.497	24.755	22.933
3.930		24.624	23.117
5.216		23.981	23.221
6.545		23.316	23.316
7.217			
15.000	23.925		23.459
15.018	23.921		
20.000	23.806 23.806		23.429
25.000			23.372
30.000			23.392
35.000			23.145
40.000			23.250
45.000			23.355
55.000			23.447
60.000			23.352
65.000			23.329
70.000			23.306
73.329			

Chainage 61+480.000



Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-30.000			22.365
-25.000			22.385
-20.000			22.296
-15.000			22.370
-11.440			
-8.063		22.637	22.637
-5.216		24.061	22.975
-3.930		24.704	22.924
0.000	25.576 25.576	24.834	22.789
3.930		24.704	22.860
5.216		24.061	22.962
6.845		23.246	23.246
7.199			
15.000	23.951 23.955		23.394
20.000	23.854 23.856		23.400
25.000			23.423
30.000			23.308
35.000			22.944
40.000			23.089
45.000			23.343
55.000			23.553
60.000			23.500
65.000			23.447
70.000			23.394
73.334			

Chainage 61+500.000



Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-30.000			22.334
-25.000			22.430
-20.000			22.442
-15.000			22.530
-11.860			
-8.344		22.577	22.577
-5.216		24.141	23.014
-3.930		24.783	22.925
0.000	25.656 25.656	24.914	22.424
3.930		24.783	22.439
5.216		24.141	22.593
7.122		23.187	23.187
7.189			
15.000	23.980 23.986		23.419
20.000	23.912 23.914		23.452
25.000			23.446
30.000			22.866
35.000			22.751
40.000			22.862
45.000			23.097
55.000			23.254
60.000			23.162
65.000			23.167
70.000			23.172
73.338			

Chainage 61+520.000

PMC-2R OCG CONSORTIUM | OCG-OCI-NK-NKI-RITES
Submtal No/ Ltr. Ref. No: | Date:
Engineer's Response: NONO
Checked: P.P (signature)
Reviewed:
Authorised Signatory: (signature)
Date: 04.02.2020

(NAVEEN CHOPRA)
Alignment Engineer
PMC -2R (OCG Consortium)
For 'The Engineer' for WDFC Phase -2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCIL - CTP-13
Contractor's Representative (signature) | Date:

N. RAMAKRISHNA RAJU
Chief Design Engineer

STUP CONSULTANTS PVT. LTD. PLOT NO.22-A SECTOR-19-C, PALM BEACH MARG, VASHI, TEL.:40887777 Navi Mumbai 400705

(C.S.K. Pathak)

NOTES:

1. ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
2. EXISTING WORK IS SHOWN IN BLACK.
3. PROPOSED WORK IS SHOWN IN RED.
4. CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E ADJACENT TO IR TRACK).
5. DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER "L NO. L/OCGC/DFCC/CMT/CTP-13/1906/25094 (DATED 07-JUNE-2019)"
6. DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.86M VIDE ENGINEER LETTER NO. - L/OCGC/DFCC/CMT/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
7. TRACK FORMATION CROSS FALL - 1:30.
8. FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
9. FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
10. FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
11. THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINGAE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
12. FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
13. FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
14. IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
15. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
16. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/E&M CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 .... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
13/GE/DD/0762 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH 104.000 KM TO 126.000 KM
13/GE/DD/0763 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km
13/GE/DD/0765 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM
13/DE/DD/0766 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **
EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE
PROPOSED NALLA DIVERSION
INNER EDGE OF PROPOSED ROAD
INNER EDGE OF NOT IN SCOPE SERVICE ROAD
BLANKET
SUBGRADE
EXISTING GROUND
FUTURE IR TRACK

NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED	APPROVED
3	26-NOV-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1910/25382 (DATED 14-OCT-2019)	ACT	SRG	SKP	SKP
2	26-AUG-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1908/27131 (DATED 05-AUG-2019)	ACT	SRG	SKP	SKP
1	08-JUL-19	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP	SKP

PROJECT
WESTERN DEDICATED FREIGHT CORRIDOR
ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13
PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION | SEAL & SIGN

EMPLOYER
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC
PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM
OCG - OCI - NK - NKI - RITES
OCG CONSORTIUM

CONTRACTOR
EXPRESS FREIGHT CONSORTIUM
MITSUI&CO., LTD | IRCON | TATA

DESIGNER
STUP Consultants Pvt. Ltd.

TITLE
DETAILED CROSS SECTIONS FROM CH. 61+460 TO CH. 61+520

JOB NO: 8309			SIZE A1	STATUS
	NAME	SIGN	PROJECTION	ID: (INCEPTION)
DRWN	ACT			TD: (TECHNICAL)
DSGN	SRG			✓ CD: (CONSTRUCTION)
CHKD	SKP		SCALE	BD: (AS BUILT)
APPD	SKP		1:250	DATE : 08-JUL-2019
DRG. NO. 13/AL/DG/0178-CD				REV-3

13-AL-OC0178R3.dwg