

- NOTES:**
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 - THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHANGE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
 - FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - FOR DIVERSION OF ROAD/STREAM/NALLA ETC. REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
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 - PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/EAM CABLES AS PER CONTRACT REQUIREMENT.

PMC-2R
NONOC
Substantive
Date: 04.02.2020
(NAVEEN CHOPRA)
Alignment Engineer
PMC-2R (OCG Consortium)
For 'The Engineer' for WDFC Phase-2

- REFERENCE TO DRAWINGS: (LATEST REVISION)**
- 13/ST/DG/1100 ... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
 - 13/GE/DD/0762 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 104.000 KM TO 126.000 KM
 - 13/GE/DD/0763 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km
 - 13/GE/DD/0765 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km
 - 13/GE/DD/0766 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

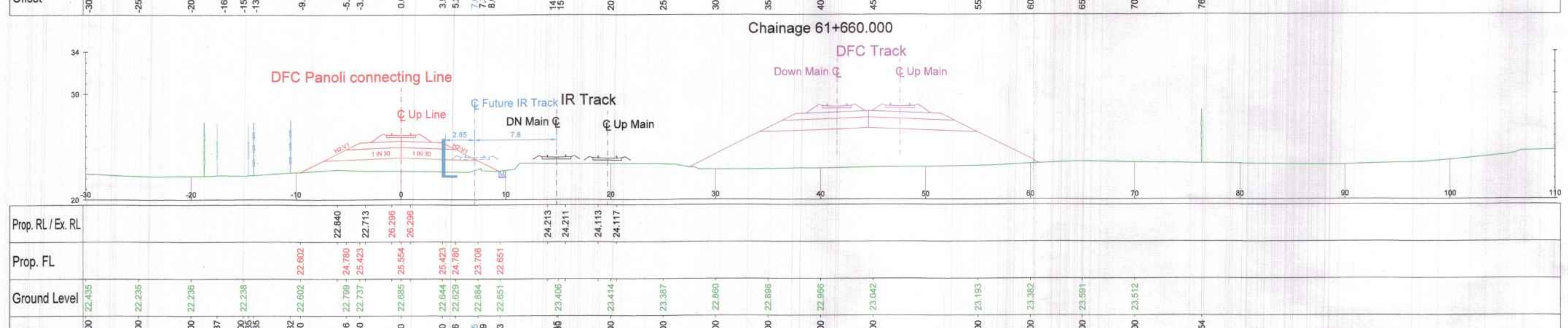
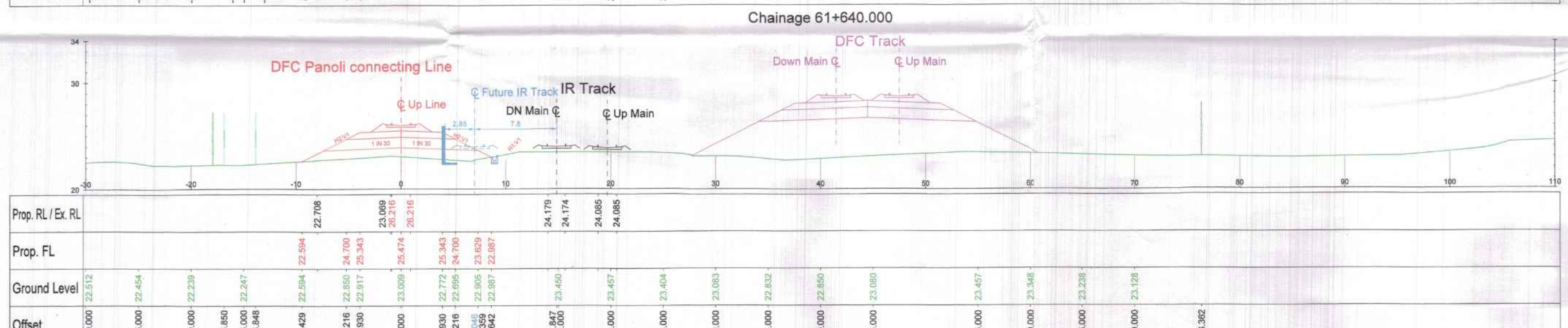
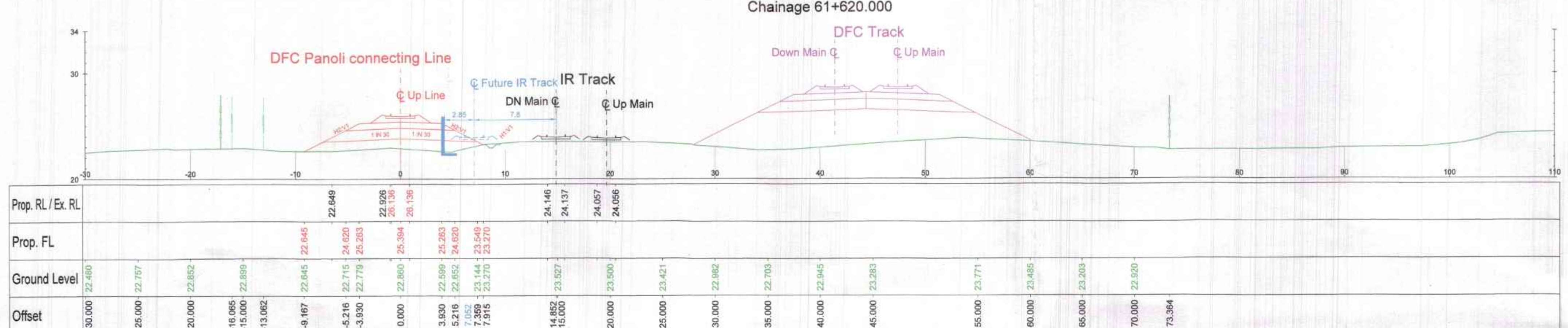
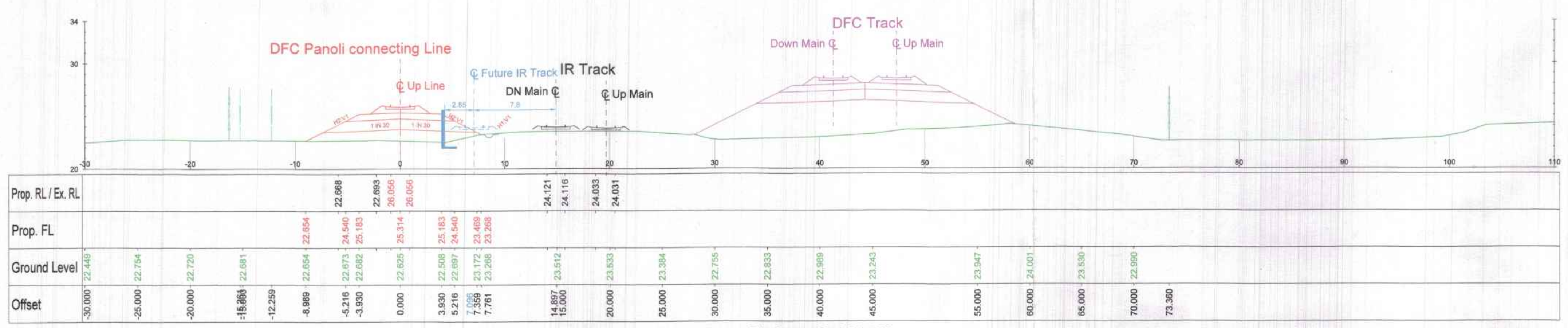
THE CROSS-SECTION OF DFC UP/ DOWN MAIN LINE ARE INDICATIVE FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING	
EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE	
PROPOSED NALLA DIVERSION	
INNER EDGE OF PROPOSED ROAD	
INNER EDGE OF NOT IN SCOPE SERVICE ROAD	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

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

N. RAMAKRISHNA RAJU
Chief Design Engineer



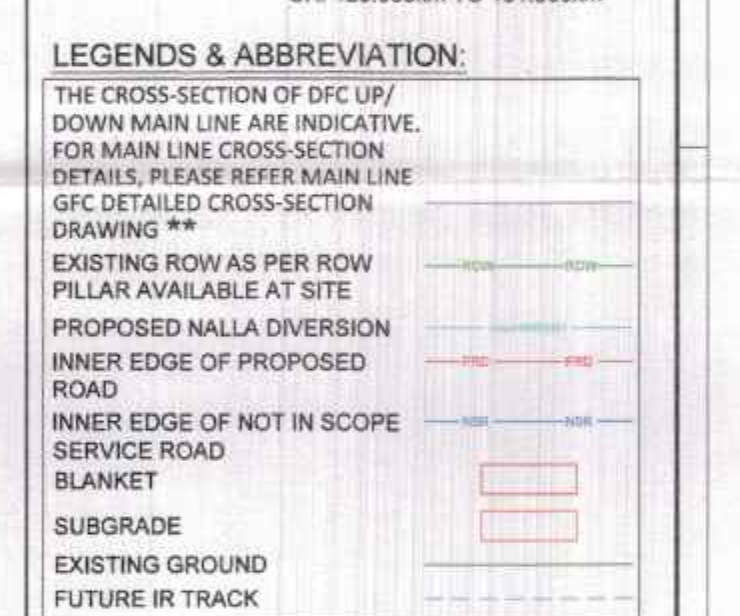
REVIEWED AS PER COMMENTS, L/OCGC/DFCC/CTP-13/1906/25094 (DATED 14-07-2019)		ACT	SHP	S/L	S/L
REVIEWED AS PER COMMENTS, L/OCGC/DFCC/CTP-13/1906/25094 (DATED 14-07-2019)		ACT	SHP	S/L	S/L
ISSUE FOR CONSTRUCTION		ACT	SHP	S/L	S/L
NO. DATE	REVISION	DRAWN	DESIGNED	CHECKED	APPROVED
PROJECT WESTERN DEDICATED FREIGHT CORRIDOR ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13 PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)					
EMPLOYER ORGANIZATION SEAL & SIGN 					
PMC PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM OCG CONSORTIUM OCG - OCI - NK - NKI - RITES					
CONTRACTOR EXPRESS FREIGHT CONSORTIUM 					
DESIGNER 					
TITLE DETAILED CROSS SECTIONS FROM CH. 61+540 TO CH. 61+600					
JOB NO: 8309		SCALE		STATUS	
DRAWN	ACT	PROJECTION	ID: (INCEPTION)		
DSGN	SRG		TD: (TECHNICAL)		
CHKD	SKP		CD: (CONSTRUCTION)		
APPD	SKP	SCALE	BD: (AS BUILT)		
		DATE	DATE: 08-JUL-2019		
DRG. NO. 13/AL/DG/0179-CD				REV-3	



PMC-2R
 OCG-OCI-NK-NKI-RITES
 Engineer's Response
 NONE
 Checked: P.P.
 Reviewed: [Signature]
 Authorized Signatory: [Signature]
 Date: 04.02.2020
(NAVEEN CHOPRA)
 Alignment Engineer
 PMC-2R (DCG Consortium)
 For 'The Engineer' for WDFC Phase -2

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

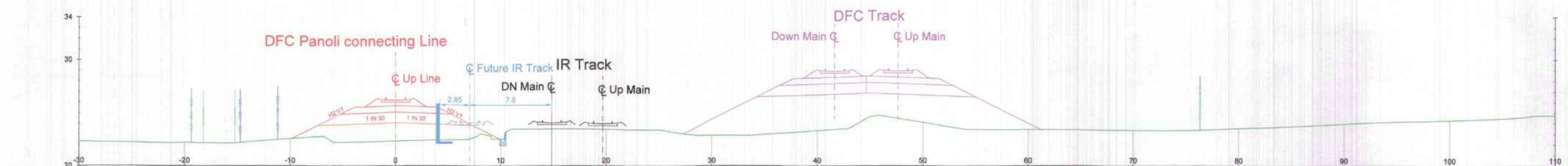


GOOD FOR CONSTRUCTION
 EXPRESS FREIGHT CONSORTIUM
 WDFCCIL - CTP-13
 Contractor's Representative: [Signature] Date:

N. RAMAKRISHNA RAJU
 Chief Design Engineer

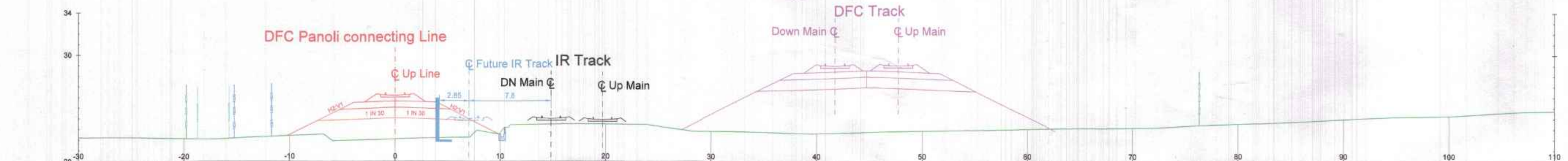


PROJECT: WESTERN DEDICATED FREIGHT CORRIDOR ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13 PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)	
EMPLOYER	DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.
PMC	PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM OCG CONSORTIUM OCG - OCI - NK - NKI - RITES
CONTRACTOR	EXPRESS FREIGHT CONSORTIUM MTR & ILL, LTD.
DESIGNER	STUP Consultants Pvt. Ltd.
TITLE: DETAILED CROSS SECTIONS FROM CH. 61+620 TO CH. 61+680	
JOB NO. 8309	SIZE: A1 STATUS: (INCEPTION)
DRWN ACT	PROJECTION: TO: (TECHNICAL)
DSGN SRG	CD: (CONSTRUCTION)
CHKD SKP	BS: (AS BUILT)
APPD SKP	SCALE: 1:250 DATE: 08-JUL-2019
DRG. NO. 13A/DG/0180-CD REV-3	



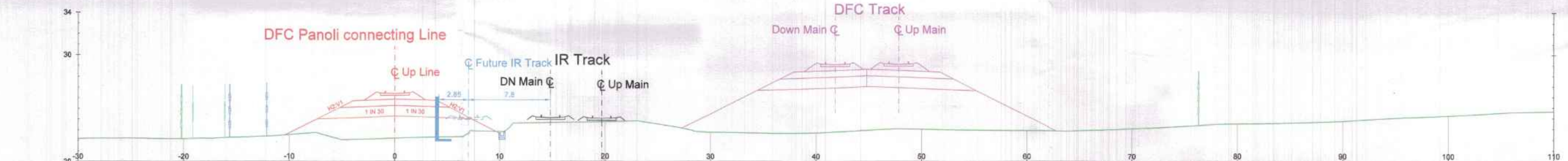
Prop. RL / Ex. RL	22.506	22.217	22.185	22.194	22.559	22.860	25.503	26.376	26.376	24.248	24.248	24.141	23.370	22.867	22.958	23.319	24.606	23.428	23.406	23.385	23.364								
Prop. FL					22.559	22.860	25.503	26.376	26.376	24.248	24.248	24.141	23.370	22.867	22.958	23.319	24.606	23.428	23.406	23.385	23.364								
Ground Level	22.506	22.217	22.185	22.194	22.559	22.860	25.503	26.376	26.376	24.248	24.248	24.141	23.370	22.867	22.958	23.319	24.606	23.428	23.406	23.385	23.364								
Offset	-30.000	-25.000	-20.000	-18.223	-15.222	-13.000	-14.721	-11.219	-9.817	-5.216	-3.930	0.000	3.930	5.216	7.043	7.359	9.907	15.908	20.000	25.000	30.000	35.000	40.000	45.000	55.000	60.000	65.000	70.000	76.346

Chainage 61+700.000



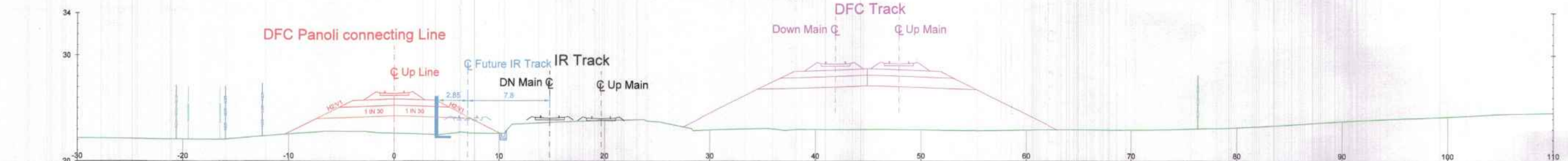
Prop. RL / Ex. RL	22.184	22.184	22.162	22.224	22.440	24.940	25.583	26.405	26.405	24.268	24.270	24.171	24.168	23.352	22.824	22.723	22.625	22.738	22.954	23.031	23.098	23.165							
Prop. FL					22.440	24.940	25.583	26.405	26.405	24.268	24.270	24.171	24.168	23.352	22.824	22.723	22.625	22.738	22.954	23.031	23.098	23.165							
Ground Level	22.184	22.184	22.162	22.224	22.440	24.940	25.583	26.405	26.405	24.268	24.270	24.171	24.168	23.352	22.824	22.723	22.625	22.738	22.954	23.031	23.098	23.165							
Offset	-30.000	-25.000	-20.000	-18.727	-15.726	-13.000	-14.721	-11.219	-9.817	-5.216	-3.930	0.000	3.930	5.216	7.043	7.359	9.907	15.908	20.000	25.000	30.000	35.000	40.000	45.000	55.000	60.000	65.000	70.000	76.340

Chainage 61+720.000



Prop. RL / Ex. RL	22.176	22.207	22.175	22.230	22.444	25.020	25.662	26.535	26.535	24.278	24.272	24.205	24.196	23.360	22.763	22.664	22.721	22.857	23.000	22.927	22.911	23.129								
Prop. FL					22.444	25.020	25.662	26.535	26.535	24.278	24.272	24.205	24.196	23.360	22.763	22.664	22.721	22.857	23.000	22.927	22.911	23.129								
Ground Level	22.176	22.207	22.175	22.230	22.444	25.020	25.662	26.535	26.535	24.278	24.272	24.205	24.196	23.360	22.763	22.664	22.721	22.857	23.000	22.927	22.911	23.129								
Offset	-30.000	-25.000	-20.000	-18.134	-15.133	-13.000	-14.721	-11.212	-9.806	-5.216	-3.930	0.000	3.930	5.216	7.029	7.359	9.932	14.827	15.000	20.000	25.000	30.000	35.000	40.000	45.000	55.000	60.000	65.000	70.000	76.333

Chainage 61+740.000



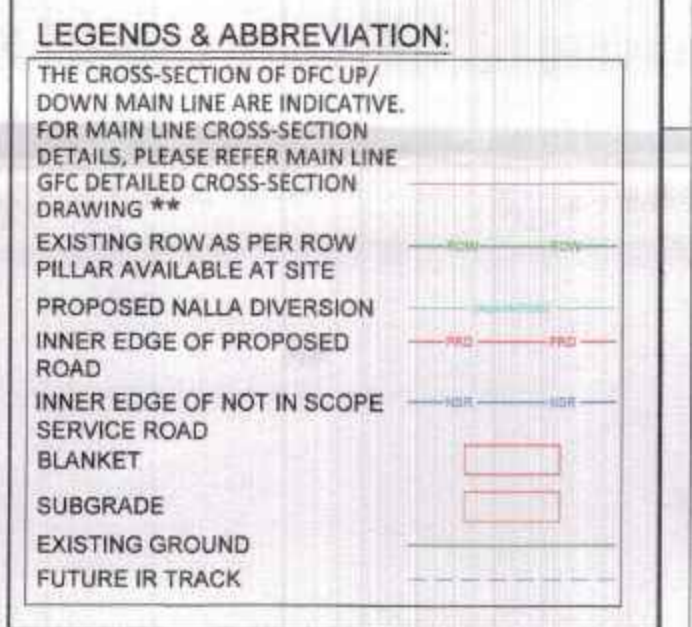
Prop. RL / Ex. RL	22.172	22.127	22.098	22.152	22.533	25.099	25.742	26.615	26.615	24.287	24.274	24.226	24.219	23.368	23.071	23.032	22.966	22.939	22.944	22.946	22.967									
Prop. FL					22.533	25.099	25.742	26.615	26.615	24.287	24.274	24.226	24.219	23.368	23.071	23.032	22.966	22.939	22.944	22.946	22.967									
Ground Level	22.172	22.127	22.098	22.152	22.533	25.099	25.742	26.615	26.615	24.287	24.274	24.226	24.219	23.368	23.071	23.032	22.966	22.939	22.944	22.946	22.967									
Offset	-30.000	-25.000	-20.000	-19.468	-16.468	-15.000	-14.721	-12.468	-10.350	-5.216	-3.930	0.000	3.930	5.216	7.019	7.359	10.106	14.819	15.000	20.000	25.000	30.000	35.000	40.000	45.000	55.000	60.000	65.000	70.000	76.326

Chainage 61+760.000

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

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 - 13/GE/DD/0785 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km
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GOOD FOR CONSTRUCTION
 EXPRESS FREIGHT CONSORTIUM
 WDFCCIL - CTP-13
 Contractor's Representative: [Signature]
 Date: _____

N. RAMAKRISHNA RAJU
 Chief Design Engineer



3	26-AUG-18	REVISION FOR PMO COMMENTS	ACT	SRG	SKP	SKP
2	26-AUG-18	REVISION FOR PMO COMMENTS	ACT	SRG	SKP	SKP
1	26-AUG-18	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)

EMPLOYER: DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

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

CONTRACTOR: EXPRESS FREIGHT CONSORTIUM

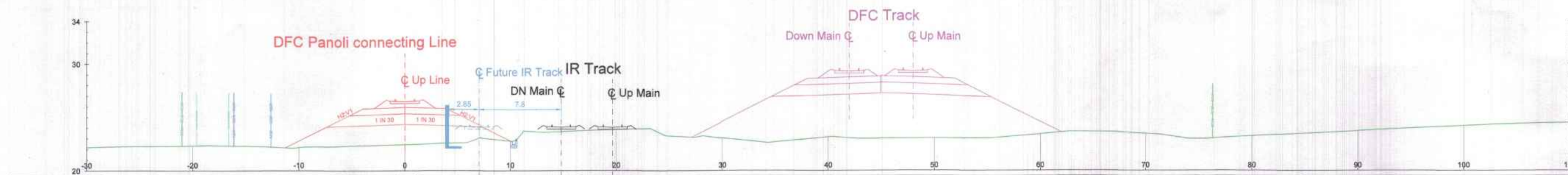
DESIGNER: STUP Consultants Pvt. Ltd.

TITLE: DETAILED CROSS SECTIONS FROM CH. 61+700 TO CH. 61+760

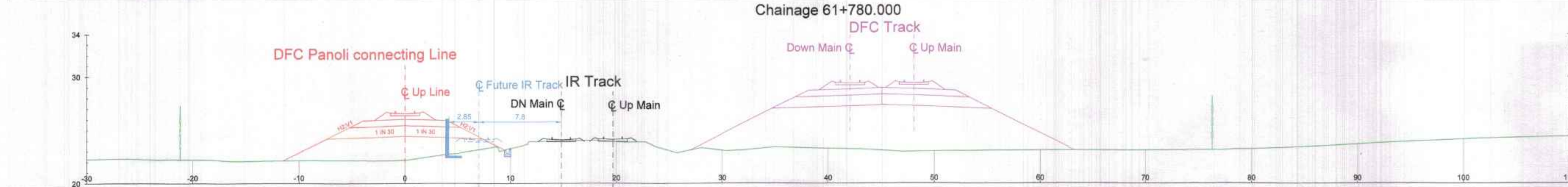
JOB NO: 8309 SIZE: A1 STATUS: ID: (INCEPTION) TO: (TECHNICAL) CD: (CONSTRUCTION) BD: (AS BUILT)

APPD: SKP 1/2 SCALE: 1:250 DATE: 08-JUL-2019

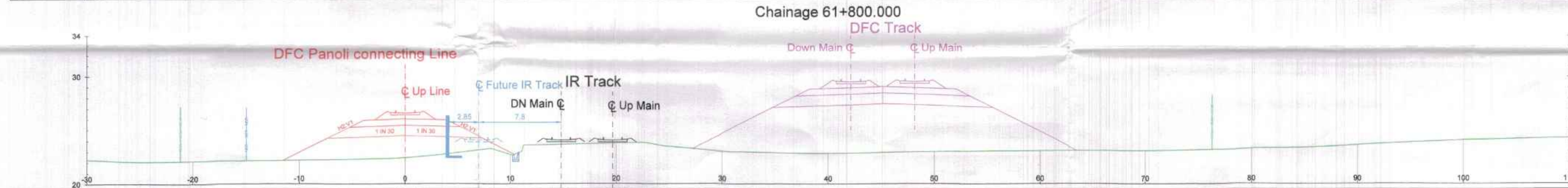
DRG. NO: 13/AL/DG/0181-CD REV-3



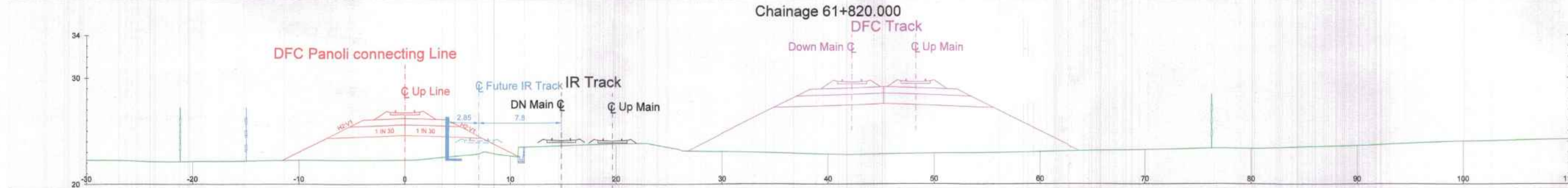
Prop. RL / Ex. RL	Prop. FL	Ground Level	Offset
34			
30			
26			
22			
18			
14			
10			
6			
2			
-2			
-6			
-10			
-14			
-18			
-22			
-26			
-30			



Prop. RL / Ex. RL	Prop. FL	Ground Level	Offset
34			
30			
26			
22			
18			
14			
10			
6			
2			
-2			
-6			
-10			
-14			
-18			
-22			
-26			
-30			



Prop. RL / Ex. RL	Prop. FL	Ground Level	Offset
34			
30			
26			
22			
18			
14			
10			
6			
2			
-2			
-6			
-10			
-14			
-18			
-22			
-26			
-30			



Prop. RL / Ex. RL	Prop. FL	Ground Level	Offset
34			
30			
26			
22			
18			
14			
10			
6			
2			
-2			
-6			
-10			
-14			
-18			
-22			
-26			
-30			

PMC-2R
 OCG-OCI-NK-NKI-RITES
 Date: 06.01.2020
 Alignment Engineer
(NAVEEN CHOPRA)
 PMC-2R (OCG Consortium)
 For 'The Engineer' for WDFC Phase-2

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 - FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
 - FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP-13 CHAINAGE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
 - FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - FOR DIVERSION OF ROAD/STREAM/NALLA ETC., REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
 - 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.
 - TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
 - PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T&M CABLES AS PER CONTRACT REQUIREMENT.

- REFERENCE TO DRAWINGS: (LATEST REVISION)**
- 13/ST/DG/1100 ... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
 - 13/GE/DD/0782 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH 104.000 KM TO 126.000 KM
 - 13/GE/DD/0763 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH 126.000km TO 131.000km
 - 13/GE/DD/0765 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH 126.000km TO 131.000km
 - 13/GE/DD/0768 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH 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

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
 WDFCCIL - CTP-13
 Contract's Representative

N. RAMAKRISHNA RAJU
 Chief Design Engineer



REVISIONS:

NO.	DATE	REVISION	BY	CHKD	APPD
3	28-NOV-19	REVISION PER PMC COMMENTS NO. DATE: 14-11-2019	ACT	SRG	SKP
2	28-AUG-19	REVISION PER PMC COMMENTS NO. DATE: 04-08-2019	ACT	SRG	SKP
1	28-SEP-19	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP

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

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

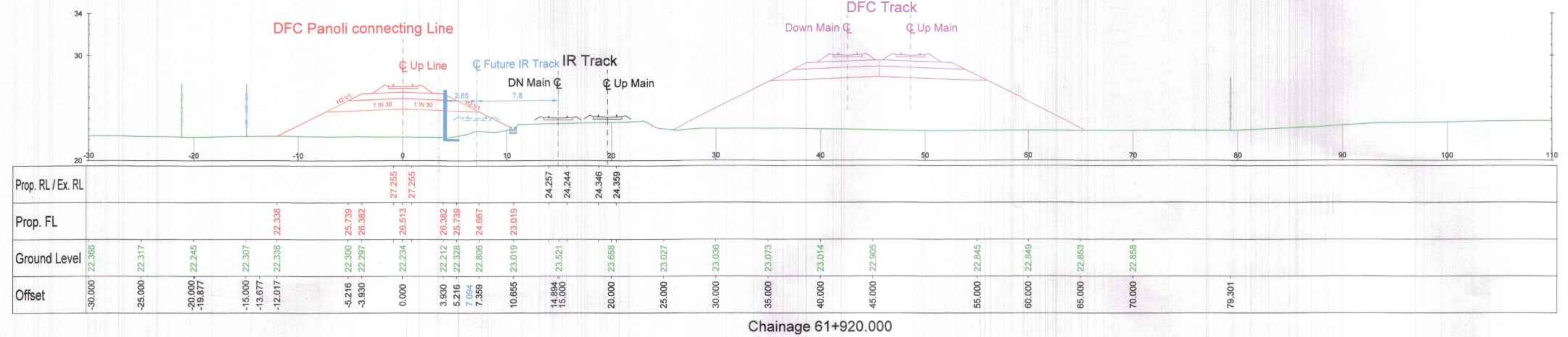
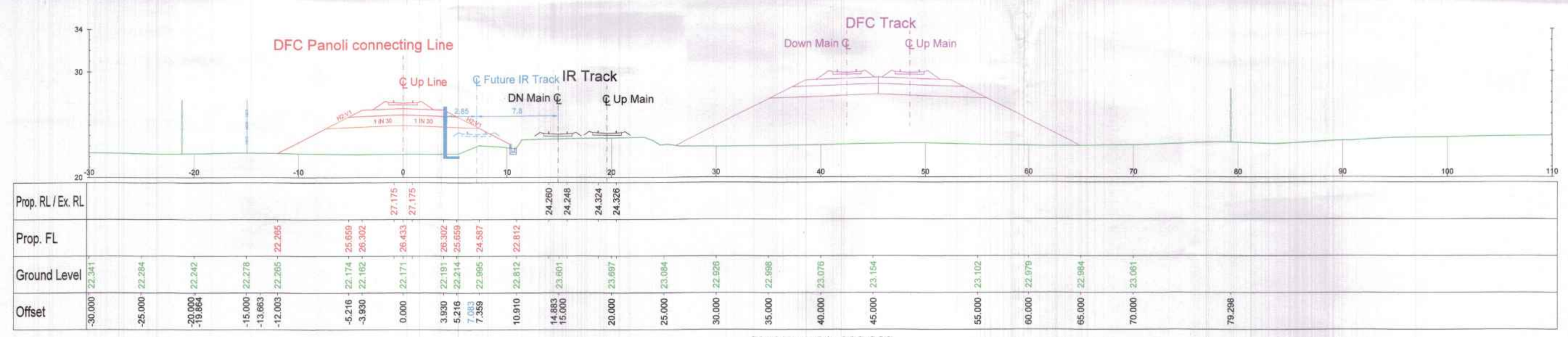
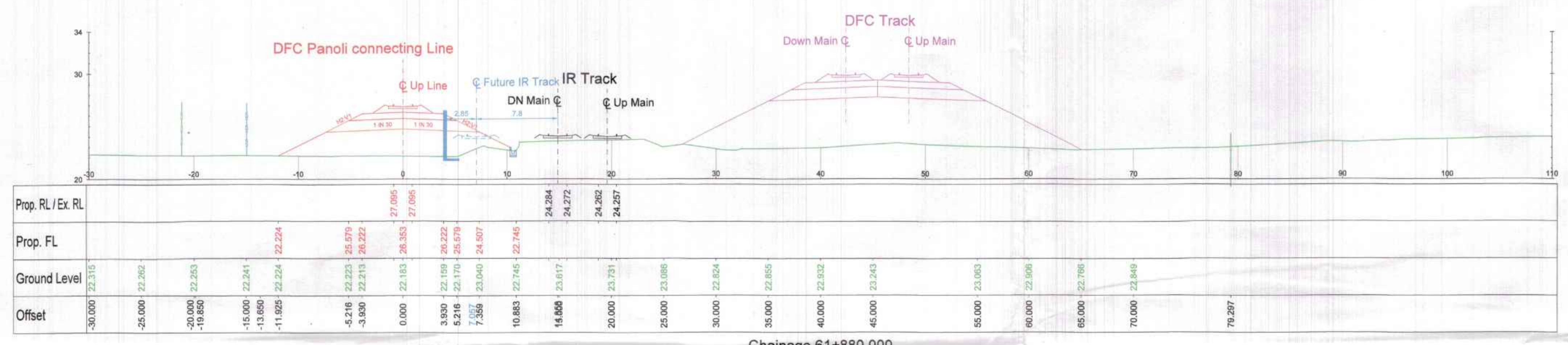
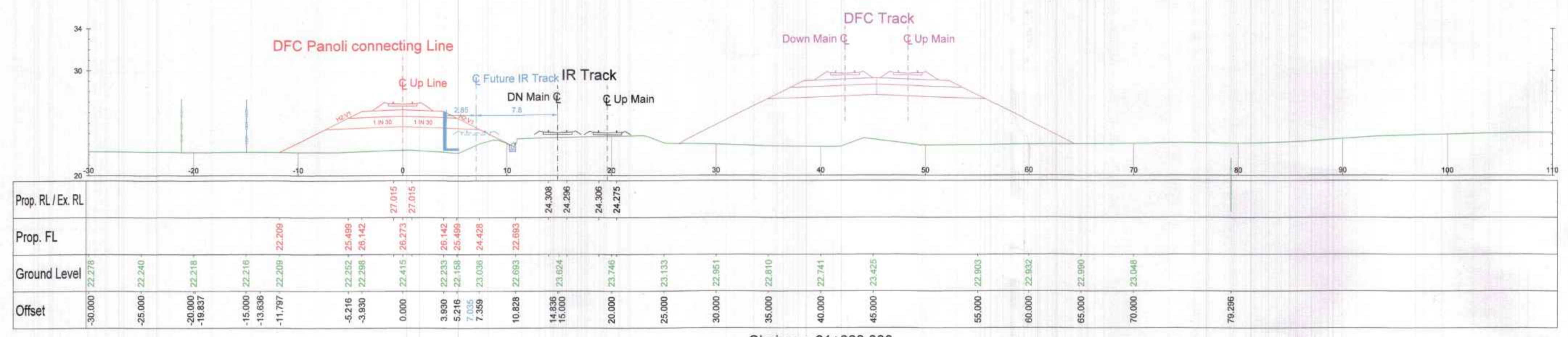
DESIGNER: STUP Consultants Pvt. Ltd.

TITLE: DETAILED CROSS SECTIONS FROM CH. 61+780 TO CH. 61+840

JOB NO: 8309

NAME	SIGN	PROJECTION	STATUS
DRWN	ACT		TD: (TECHNICAL)
OSGN	SRG		CD: (CONSTRUCTION)
CHKD	SKP		BD: (AS BUILT)
APPD	SKP		DATE: 08-JUL-2019

DRG. NO. 13/AL/DG/0182-CD
 REV-3



PMC-2R
 OCG-OCI-NK-NKI-RITES
 Checked: P.P. [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
 [Signature]
 Contractor's Representative Date:

[Signature]
N. RAMAKRISHNA RAJU
 Chief Design Engineer



- NOTES:**
- ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
 - EXISTING WORK IS SHOWN IN BLACK.
 - PROPOSED WORK IS SHOWN IN RED.
 - CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (IF ADJACENT TO IR TRACK).
 - DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER L NO. L/OCG/DFCC/CTP-13/1906/25094 (DATED 07-JUNE-2019)).
 - 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/OCG/DFCC/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
 - TRACK FORMATION CROSS FALL - 1:30.
 - FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
 - FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINAGE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
 - FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
 - 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. THE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
 - PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF SAT/EM 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/0782 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 104.000 KM TO 126.000 KM
 - 13/GE/DD/0783 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km
 - 13/GE/DD/0785 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km
 - 13/GE/DD/0786 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH 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	[Symbol]
PROPOSED NALLA DIVERSION	[Symbol]
INNER EDGE OF PROPOSED ROAD	[Symbol]
INNER EDGE OF NOT IN SCOPE SERVICE ROAD	[Symbol]
BLANKET	[Symbol]
SUBGRADE	[Symbol]
EXISTING GROUND	[Symbol]
FUTURE IR TRACK	[Symbol]

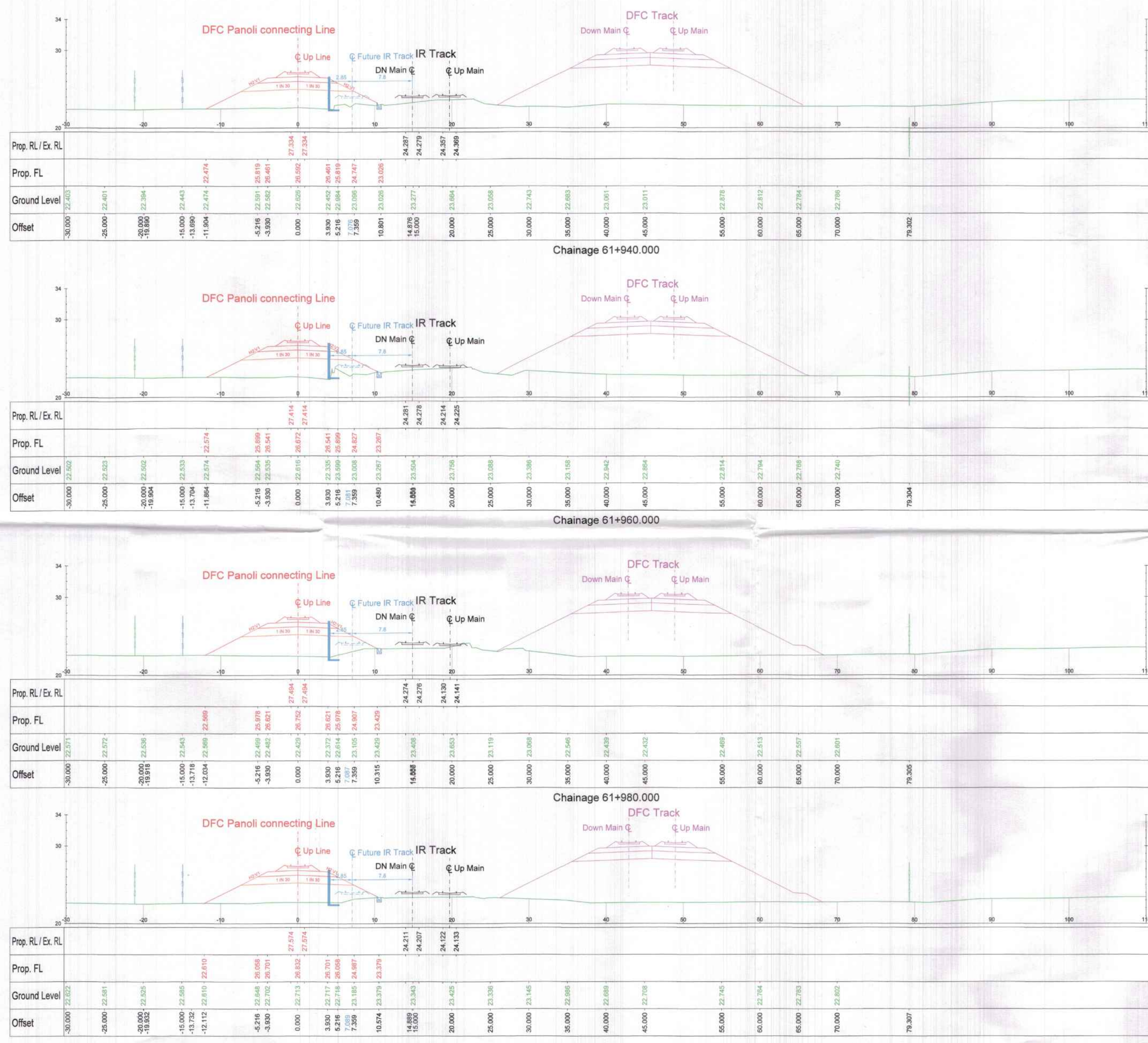
NO.	DATE	REVISION	DRAWN	CHECKED	APPROVED
3	28-NOV-19	REVISION AS PER COMMENTS AND L/OCG/DFCC/CTP-13/1906/25094 DATED 24-02-2019	[Signature]	[Signature]	[Signature]
2	28-AUG-19	REVISION AS PER COMMENTS AND L/OCG/DFCC/CTP-13/1906/25094 DATED 04-08-2019	[Signature]	[Signature]	[Signature]
1	28-JUL-19	ISSUE FOR CONSTRUCTION	[Signature]	[Signature]	[Signature]

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

EMPLOYER: DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.
PMC: PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM
CONTRACTOR: EXPRESS FREIGHT CONSORTIUM
DESIGNER: STUP Consultants Pvt. Ltd.
TITLE: DETAILED CROSS SECTIONS FROM CH. 61+860 TO CH. 61+920

JOB NO:	NAME	SIGN	PROJECTION	STATUS
8309	ACT	[Signature]	PROJECTION	ID: (RECEPTION)
	SRG	[Signature]		TD: (TECHNICAL)
	SKP	[Signature]		CD: (CONSTRUCTION)
	SKP	[Signature]		BD: (AS BUILT)

SCALE: 1:250
 DATE: 08-JUL-2019
 DRG. NO. 13/AL/DG/0183-CD REV-3

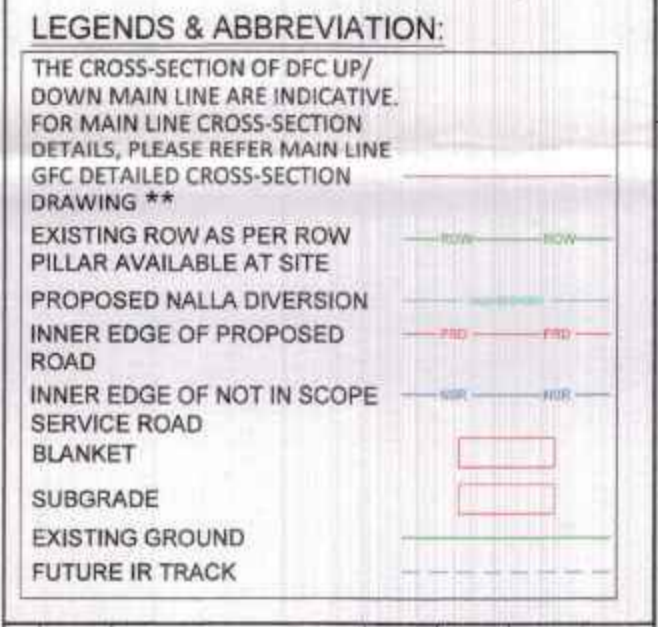


OCG-OCI-NK-NKI-RITES
 Date: 04.02.2020
 Signature: [Signature]
 Name: P.P. [Signature]
 Checked: [Signature]
 Reviewed: [Signature]
 Authorized Signatory: [Signature]

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

- NOTES:**
- ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
 - EXISTING WORK IS SHOWN IN BLACK.
 - PROPOSED WORK IS SHOWN IN RED.
 - CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (E ADJACENT TO IR TRACK).
 - 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))
 - DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.88M VIDE ENGINEER LETTER NO. L/OCGC/DFCC/CMT/CTP-13/170222913 (DATED 22-FEBRUARY-2017).
 - TRACK FORMATION CROSS FALL - 1:30.
 - FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
 - FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP-13 CHAINAGE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
 - FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - FOR DIVERSION OF ROAD/STREAM/NALLA ETC., REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
 - 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.
 - TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
 - PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T&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/0782 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 104.000 KM TO 126.000 KM
 - 13/GE/DD/0783 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km
 - 13/GE/DD/0785 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km
 - 13/DE/DD/0786 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km



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

N. MAHADESHNA RAJU
 Chief Design Engineer

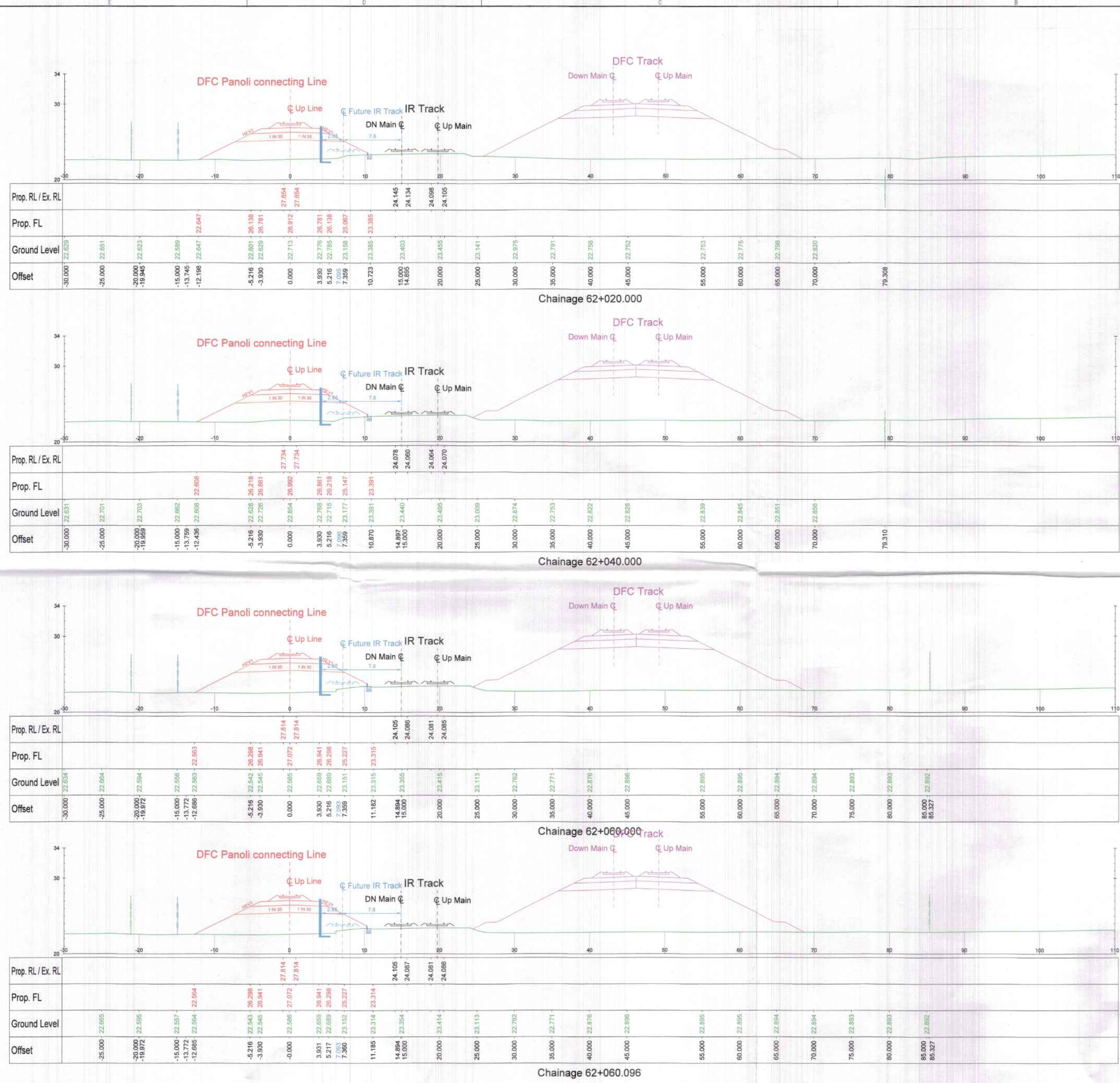


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2	28-AUG-18	REVISED AS PER PMC COMMENTS NO. 9	ACT	SRG	SHP	SFP
1	28-AUG-18	ISSUE FOR CONSTRUCTION	ACT	SRG	SHP	SFP

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

EMPLOYER: DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.
 PMC: PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM
 CONTRACTOR: EXPRESS FREIGHT CONSORTIUM
 DESIGNER: STUP Consultants Pvt. Ltd.

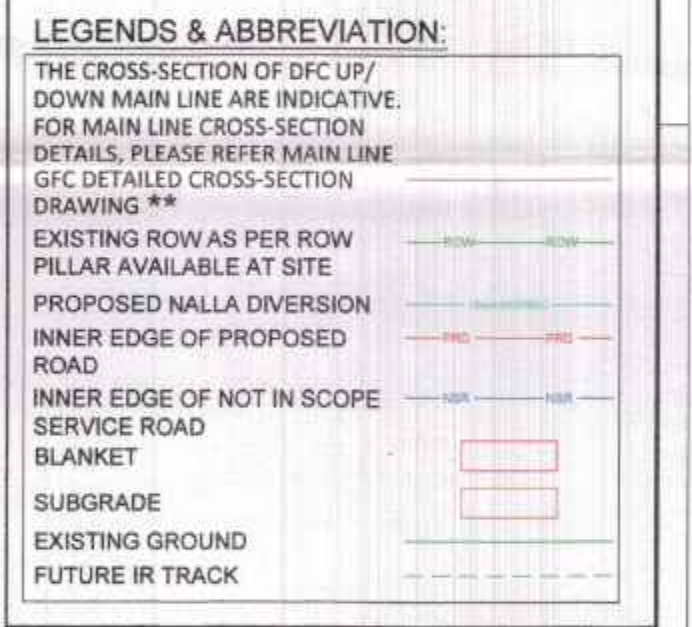
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NAME:	SRG	PROJECTION:		ID:	(INCEPTION)
DSGN:	SRG			TD:	(TECHNICAL)
CHKD:	SKP			CD:	(CONSTRUCTION)
APPD:	SKP			BD:	(AS BUILT)
DRG. NO.	13/AL/DG/0164-CD	REV:	3		



PMC-2R
 OCG-OCI-NK-NKI-RITES
 Date: 01.02.2020
(NAVEEN CHOPRA)
 Alignment Engineer
 PMC-2R (OCG Consortium)
 For 'The Engineer' for WDFC Phase-2

- NOTES:**
- ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
 - EXISTING WORK IS SHOWN IN BLACK.
 - PROPOSED WORK IS SHOWN IN RED.
 - CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E. ADJACENT TO IR TRACK).
 - DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER NO. LOCG/DFCC/CTP-13/1906/25094 (DATED 07-JUNE-2019)).
 - 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. - LOCG/DFCC/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
 - TRACK FORMATION CROSS FALL - 1:30.
 - FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
 - FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP 13 CHAINAGE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
 - FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - FOR DIVERSION OF ROAD/STREAM/NALLA ETC., REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
 - 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. THE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
 - 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/1100 ... DETAILS OF RCG RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
 - 13/GE/DD/0762 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 104.000 KM TO 126.000 KM
 - 13/GE/DD/0763 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km
 - 13/GE/DD/0765 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km
 - 13/GE/DD/0766 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km



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

N. RAMAKRISHNA RAJU
 Chief Design Engineer

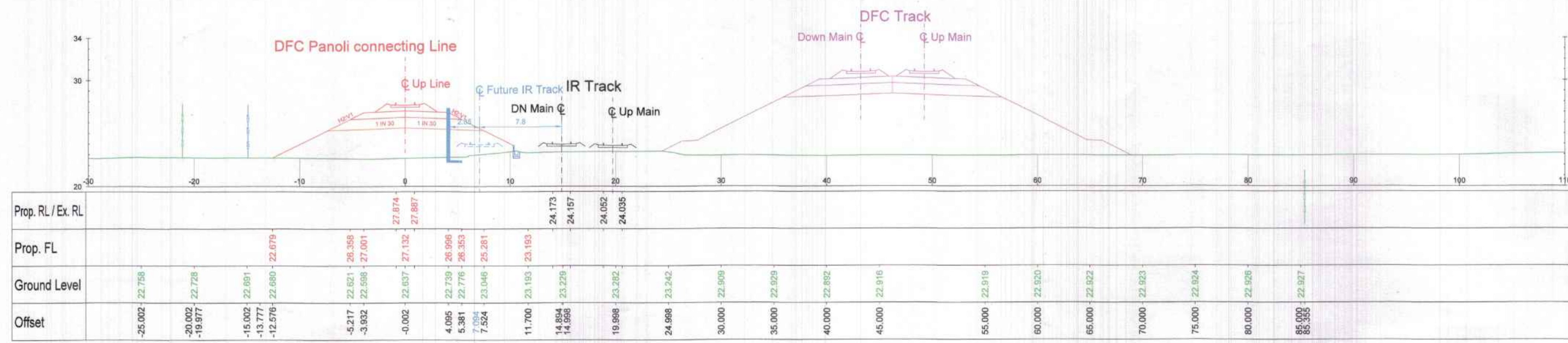


NO.	DATE	REVISION	DRAWN	CHECKED	APPROVED
3	26-NOV-19	REVIEW ALL PERMITS COMMENTS AND LOCG/DFCC/CTP-13/1906/25094 (DATED 14-07-2019)	ACT	SRG	SRP
2	26-AUG-19	REVIEW ALL PERMITS COMMENTS AND LOCG/DFCC/CTP-13/1906/25094 (DATED 04-08-2019)	ACT	SRG	SRP
1	26-JUL-19	ISSUE FOR CONSTRUCTION	ACT	SRG	SRP

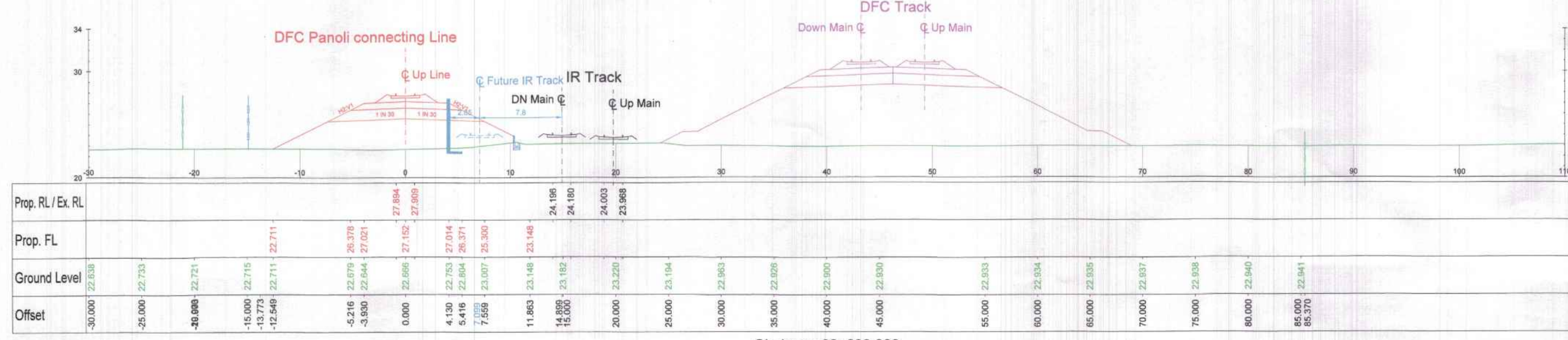
PROJECT: WESTERN DEDICATED FREIGHT CORRIDOR
 ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13
 PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)
 ORGANIZATION: SEAL & SIGN

EMPLOYER: DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.
 PMC: PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM (OCG-OCI-NK-NKI-RITES)
 CONTRACTOR: EXPRESS FREIGHT CONSORTIUM (MITSUBISHI & CO., LTD., TATA)
 DESIGNER: STUP Consultants Pvt. Ltd.
 TITLE: DETAILED CROSS SECTIONS FROM CH. 62+020 TO CH. 62+060.096

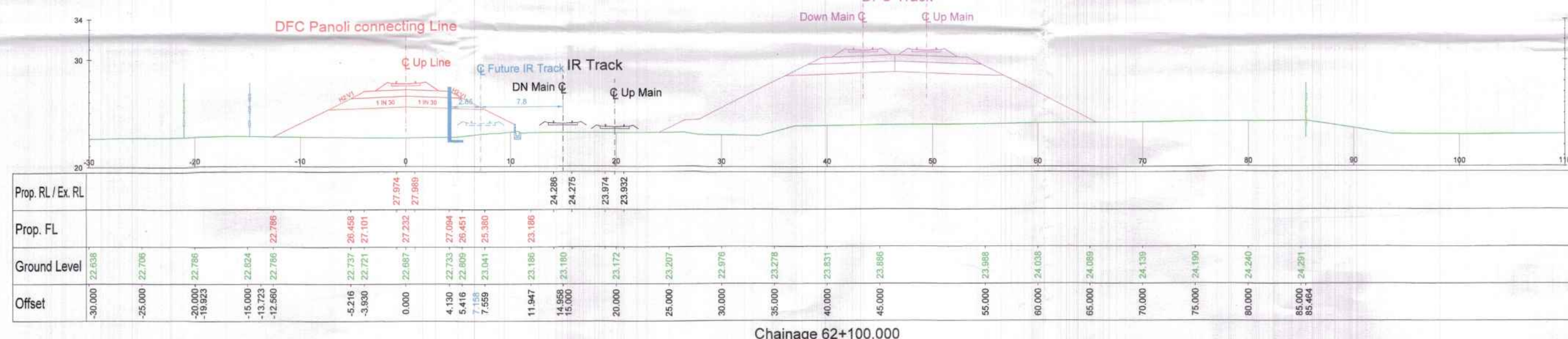
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CHKD:	SRP	DATE:	08-JUL-2019	CD: (CONSTRUCTION)
APPD:	SRP	DATE:	08-JUL-2019	BD: (AS BUILT)
DRG. NO.:	13/AL/DG/0185-CD	REV:	3	



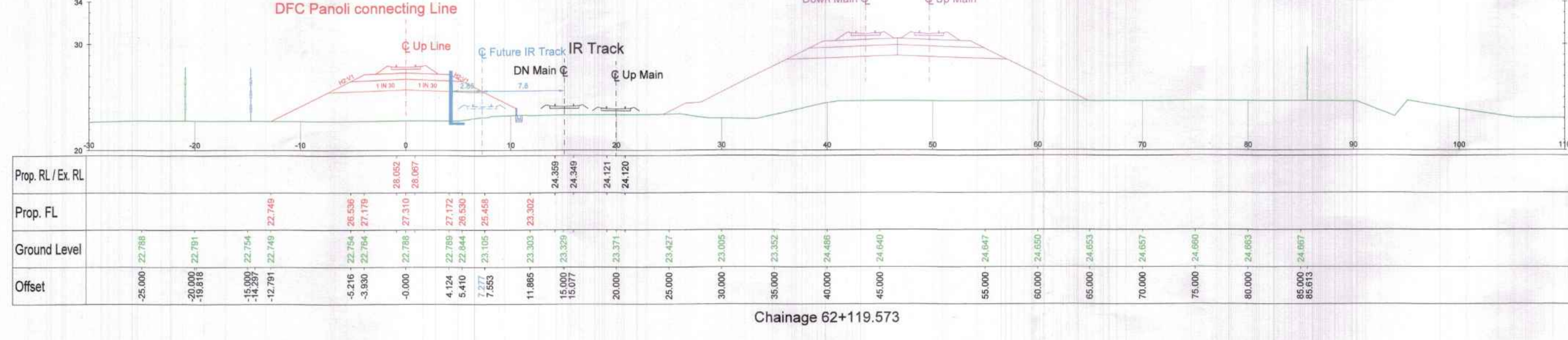
Chainage 62+075.096



Chainage 62+080.000



Chainage 62+100.000



Chainage 62+119.573

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCIL - CTP-13

N. RAMAKRISHNA RAJU
 Chief Design Engineer

(S.K. Pathak)

NOTES:

- ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
- EXISTING WORK IS SHOWN IN BLACK.
- PROPOSED WORK IS SHOWN IN RED.
- CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E ADJACENT TO IR TRACK)
- DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER L NO. LOCCG/DFCC/CT/CTP-13/1906/25094 (DATED 07-JUNE-2019)
- 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. LOCCG/DFCC/CT/CTP-13/17022213 (DATED 22-FEBRUARY-2017)
- TRACK FORMATION CROSS FALL - 1:30
- FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
- FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
- FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
- THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP-13 CHANGES LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
- FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
- FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
- 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.
- TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
- PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&TEAM 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 STRETCH FROM CH. 104.000 KM TO 128.000 KM

13/GE/DD/0763 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 128.000km TO 131.000km

13/GE/DD/0765 ... GROUND IMPROVEMENT FOR EMBANKMENT STRETCH FROM CH. 128.000km TO 131.000km

13/DE/DD/0768 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 128.000km 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

3	28-NOV-18	REVISION FOR COMMENTS AND ACT	SRG	SKP	1/1	1/1
2	28-AUG-18	REVISION FOR COMMENTS AND ACT	SRG	SKP	1/1	1/1
1	18-JUL-18	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP	SKP

NO. DATE REVISION DRAWN (CHECKED) CHECKED (APPROVED)

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

EMPLOYER: DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

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

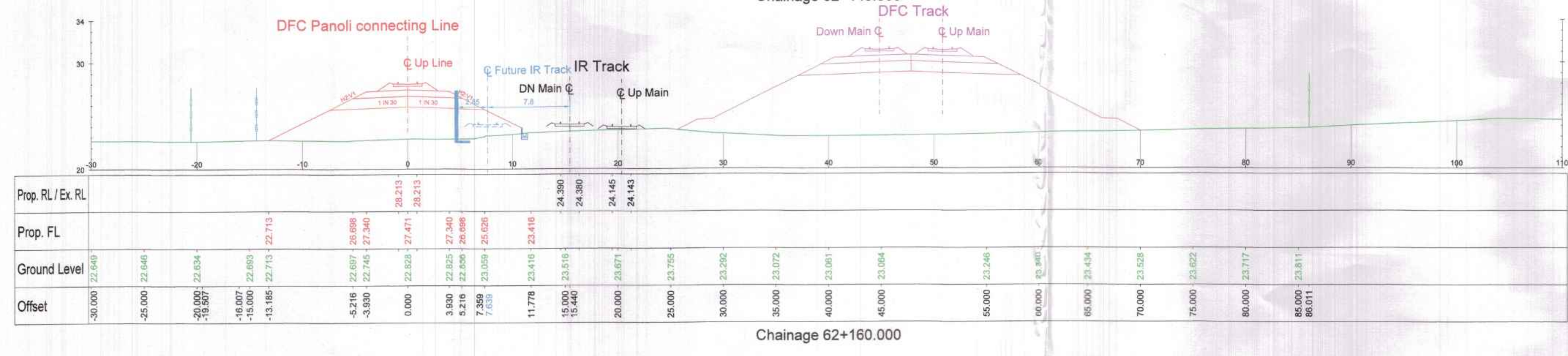
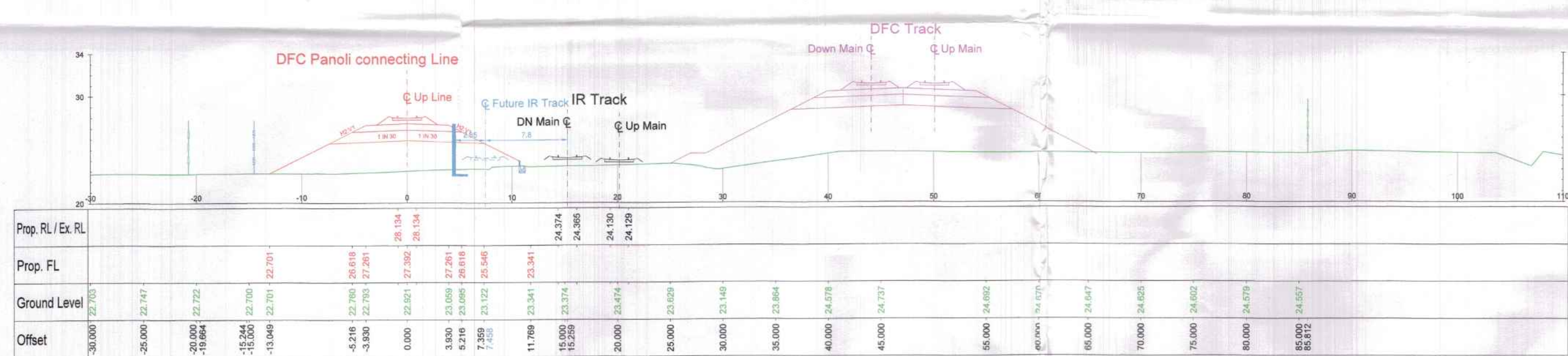
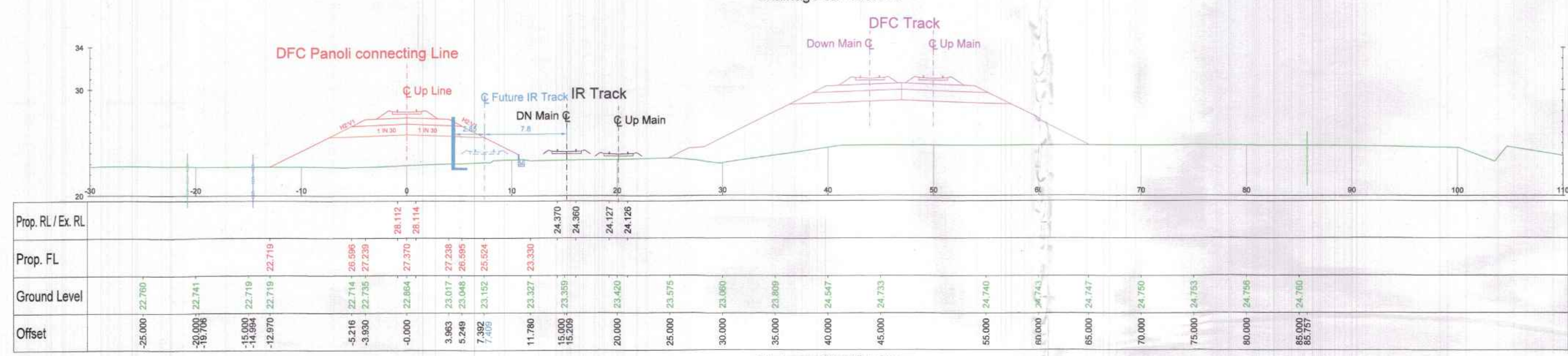
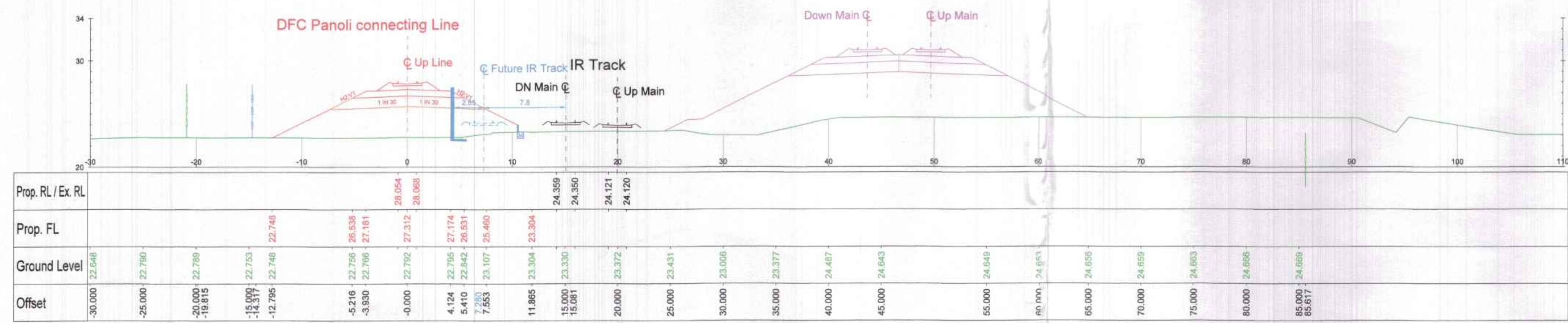
CONTRACTOR: EXPRESS FREIGHT CONSORTIUM

DESIGNER: STUP Consultants Pvt. Ltd.

TITLE: DETAILED CROSS SECTIONS FROM CH. 62+075.096 TO CH. 62+119.573

JOB NO: 8309			SIZE A1		STATUS	
DRWN	ACT	SRG	PROJECTION	ID: (INCEPTION)	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/0186-CD REV-3



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

- NOTES:
- ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
 - EXISTING WORK IS SHOWN IN BLACK.
 - PROPOSED WORK IS SHOWN IN RED.
 - CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (IE ADJACENT TO IR TRACK).
 - DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0081E TO 0078E (NONOC RECEIVED VIDE LETTER 'L' NO L/OCCG/DFCC/CMT/CTP-13/1906/25094 (DATED 07-JUNE-2019)
 - 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/OCCG/DFCC/CMT/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
 - TRACK FORMATION CROSS FALL - 1:30.
 - FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
 - FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINAGE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
 - FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
 - 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. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
 - 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/1100 ... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)

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

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

13/GE/DD/0765 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km

13/DE/DD/0766 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH 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	ISSUE FOR CONSTRUCTION	ISSUED BY	CHECKED BY	APPROVED BY
3	26-AUG-18	ISSUED AFTER PMC COMMENTS INCORPORATED	ACT	SRG	SKP	SKP
2	26-AUG-18	ISSUED AFTER PMC COMMENTS INCORPORATED	ACT	SRG	SKP	SKP
1	26-AUG-18	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP	SKP

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

N. RAMAKRISHNA RAJU
Chief Design Engineer



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

EMPLOYER: DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

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

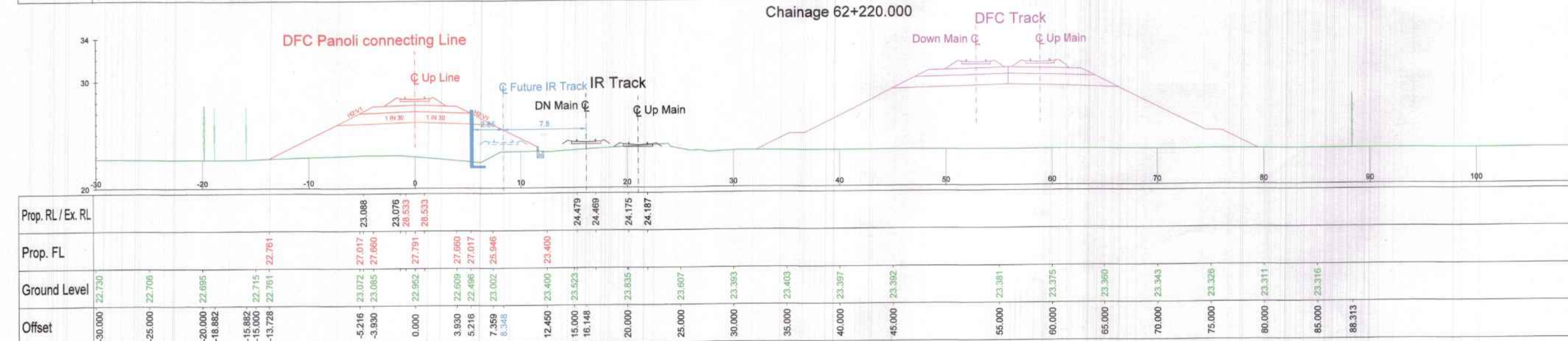
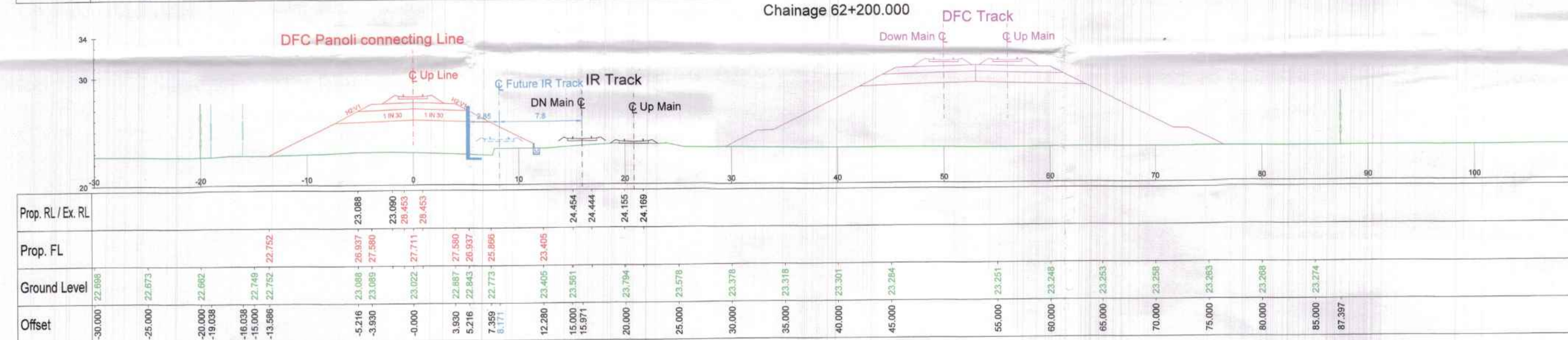
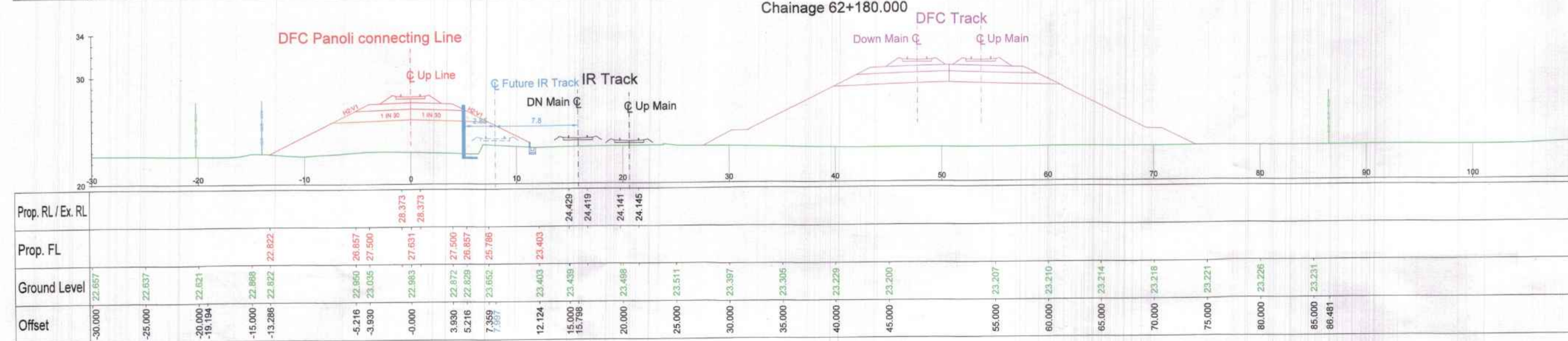
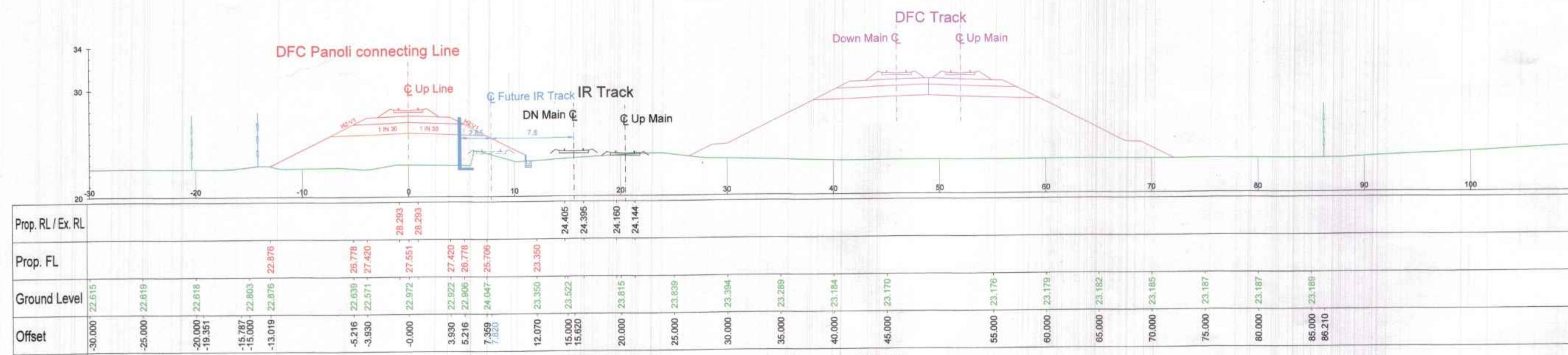
CONTRACTOR: EXPRESS FREIGHT CONSORTIUM
MITSUBISHI, LTD. TATA

DESIGNER: STUP Consultants Pvt. Ltd.

TITLE: DETAILED CROSS SECTIONS FROM CH. 62+120 TO CH. 62+160

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

DRG. NO. 13/AL/DG/0187-CD REV-3



PMC-2R OCG-OCI-NK-NKI-RITES
 Submittal No: / Date: /
 Engineer's Response
 Checked: P.P. / Signature: [Signature]
 Reviewed: /
 Authorized Signatory: [Signature]
 Date: 04.02.2019
 (NAVEEN CHOPRA)
 Alignment Engineer
 PMC-2R (OCG Consortium)
 For 'The Engineer' for WDFC Phase-2

- NOTES:
- ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
 - EXISTING WORK IS SHOWN IN BLACK.
 - PROPOSED WORK IS SHOWN IN RED.
 - CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (E ADJACENT TO IR TRACK).
 - DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER 'L' NO. LOGCG/DFCC/CTP-13/1908/25094 (DATED 07-JUNE-2019)).
 - 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. - LOGCG/DFCC/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
 - TRACK FORMATION CROSS FALL - 1:30.
 - FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
 - FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP-13 CHANGE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
 - FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
 - 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. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
 - PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T 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/0752 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH 104.000 KM TO 126.000 KM
 13/GE/DD/0783 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH 126.000km TO 131.000km
 13/GE/DD/0765 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH 126.000km TO 131.000km
 13/DE/DD/0766 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH 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

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

[Signature]
 N. RAMAKRISHNA RAJU
 Chief Design Engineer



NO.	DATE	REVISION	DRW.	ISSUED	DESIGN	APPROVED
3	28-NOV-18	REVIEW FOR PERM COMMENTS NO. 10000000000000000000	ACT	SRG	SKP	SKP
2	28-AUG-18	REVIEW FOR PERM COMMENTS NO. 10000000000000000000	ACT	SRG	SKP	SKP
1	28-JUL-18	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 BANAJLI (DFC)

EMPLOYER: ORGANIZATION SEAL & SIGN
 DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

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

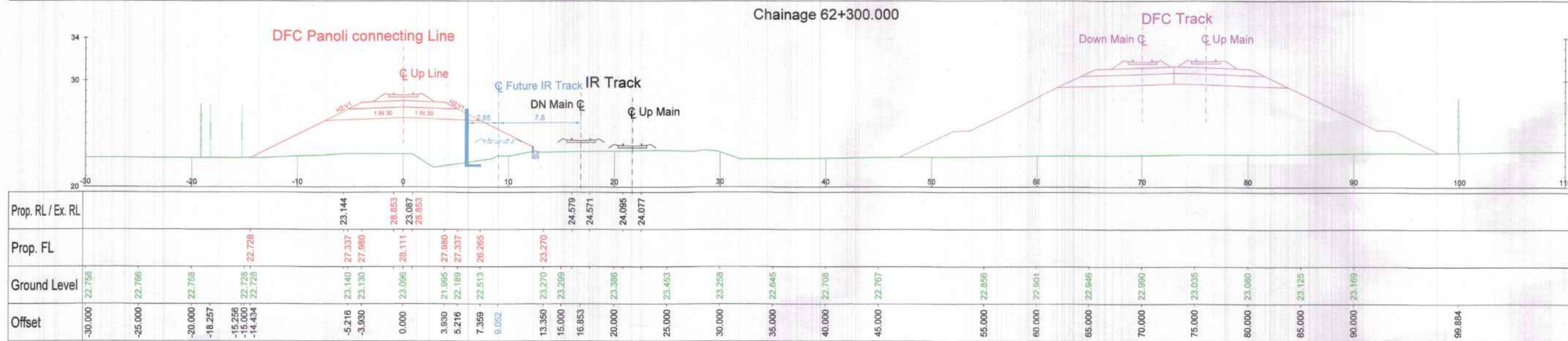
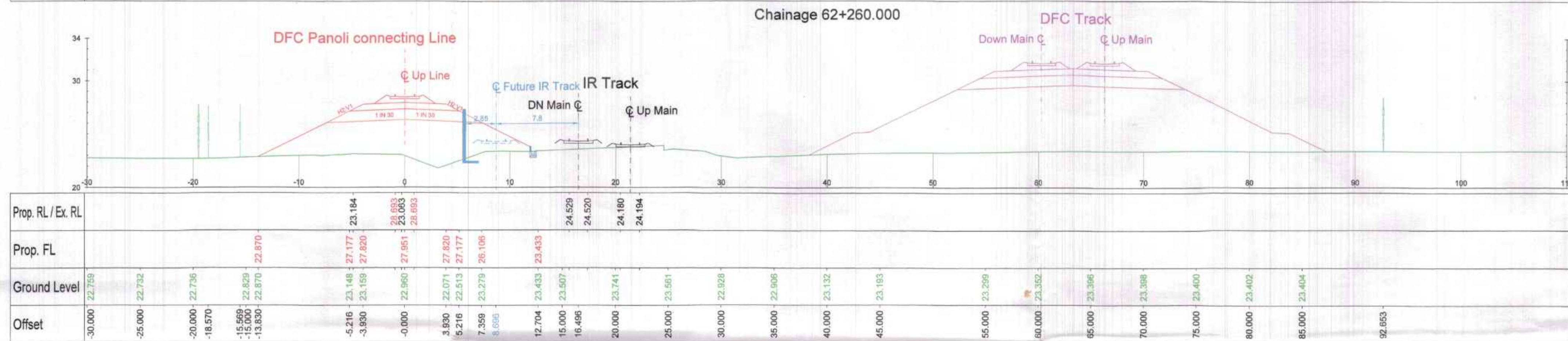
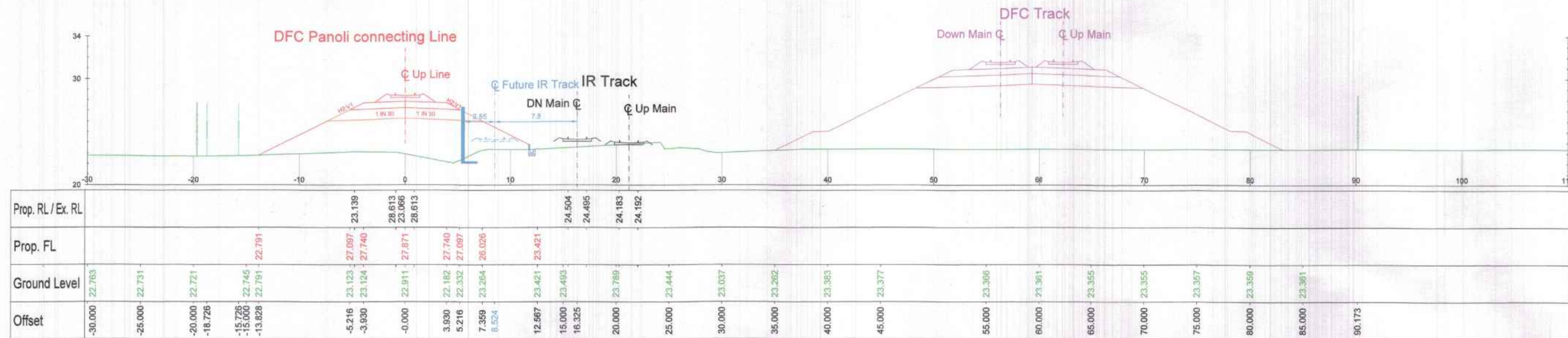
CONTRACTOR: EXPRESS FREIGHT CONSORTIUM
 AMTRILCAL, LTD. IRCON RATA

DESIGNER: STUP Consultants Pvt. Ltd.

TITLE: DETAILED CROSS SECTIONS FROM CH. 62+180 TO CH. 62+240

JOB NO:	NAME	SIGN	PROJECTION	SCALE	DATE	STATUS
8309					09-JUL-2019	
DRWN	ACT	SRG	SKP			IS (CONCEPTION)
DSGN	ACT	SRG	SKP			TD (TECHNICAL)
CHKD	ACT	SRG	SKP			CD (CONSTRUCTION)
APPR	ACT	SRG	SKP			SD (AS-BUILT)

DRG. NO. 13/AL/DG/0188-CD REV-3

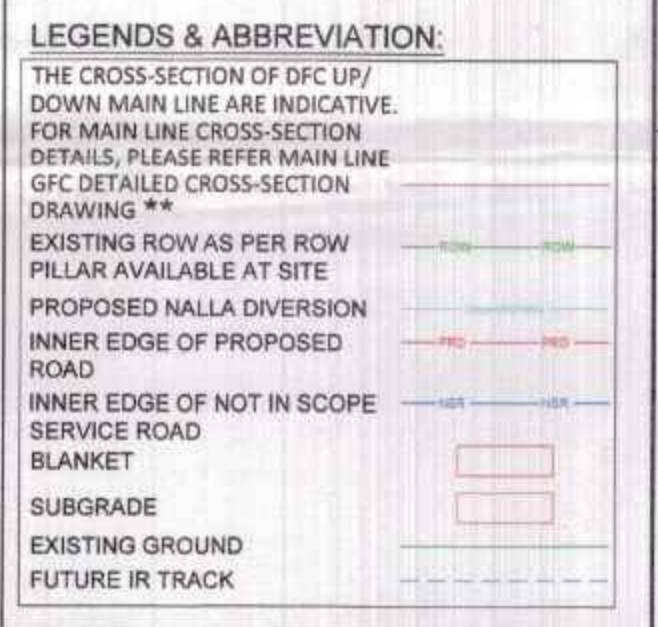


PMC-2R		OCG-OCI-NK-NKI-RITES	
Submittal No.		Date:	
Ln. Ref. No.		Engineer's Response	
NONO			
Checked	J.P.	Signature	
Reviewed			
Authorized Signatory			
Date:	04.02.2020		

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

- NOTES:**
- ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
 - EXISTING WORK IS SHOWN IN BLACK.
 - PROPOSED WORK IS SHOWN IN RED.
 - CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E. ADJACENT TO IR TRACK).
 - DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER 'L' NO. L/OCGG/DFCC/CTP-13/1906/25084 (DATED 07-JUNE-2019).
 - 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/OCGG/DFCC/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
 - TRACK FORMATION CROSS FALL - 1:30.
 - FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
 - FOR DRAINAGE DETAILS. REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHANGE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
 - FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - 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. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
 - PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF SIXTEEN 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 STRETCH FROM CH 104.000 KM TO 126.000 KM
 - 13/GE/DD/0763 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km
 - 13/GE/DD/0765 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km
 - 13/GE/DD/0766 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km



GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCL - CTP-13

Zigoung
Contractor's Representative

NO.	DATE	REVISION	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP	APPROVED
3	28-NOV-19	REVISION PER PER COMMENTS (GATED 14 OCT 2019)		ACT	SRG	SKP	APPROVED
2	28-NOV-19	REVISION PER PER COMMENTS (GATED 14 OCT 2019)		ACT	SRG	SKP	APPROVED
1	09-JUL-19	ISSUE FOR CONSTRUCTION		ACT	SRG	SKP	APPROVED

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

EMPLOYER: DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC: PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM

CONTRACTOR: EXPRESS FREIGHT CONSORTIUM

DESIGNER: STUP Consultants Pvt. Ltd.

TITLE: DETAILED CROSS SECTIONS FROM CH. 62+260 TO CH. 62+320

JOB NO.	NAME	SIGN	STATUS
8309			
DRWN	ACT		PRODUCTION
DSGN	SRG		TD: (TECHNICAL)
CHD	SKP		CD: (CONSTRUCTION)
APPD	SKP		BD: (AS BUILT)

SCALE: 1:250
DATE: 05-JUL-2019
REV-3

N. R. RAJU
Chief Design Engineer

C.S.K. Pathak



PMC-2R
 OCG-OCI-NK-NKI-RITES
 Engineer's Response
 NONO
 Checked: P.P. [Signature]
 Reviewed: [Signature]
 Authorized Signatory: [Signature]
 Date: 04-05-2019
 (NAVEEN CHOPRA)
 Alignment Engineer
 PMC-2R (OCG Consortium)
 For 'The Engineer' for WDFC Phase-2

- NOTES:
- ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
 - EXISTING WORK IS SHOWN IN BLACK.
 - PROPOSED WORK IS SHOWN IN RED.
 - CHAINAGES SHOWN AS PER DFC DOWN MAIN TRACK (I.E ADJACENT TO IR TRACK).
 - DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED WIDE LETTER 'L' NO. L/OCG/DFCC/CTP-13/1906/25094 (DATED 07-JUNE-2019)
 - 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 WIDE ENGINEER LETTER NO. - L/OCG/DFCC/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
 - TRACK FORMATION CROSS FALL - 1:30.
 - FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
 - FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWINGS AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHANGING LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
 - FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - FOR DIVERSION OF ROAD/STREAM/NALLA ETC., REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
 - 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.
 - TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
 - PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/E&M CABLES AS PER CONTRACT REQUIREMENT.

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

- REFERENCE TO DRAWINGS: (LATEST REVISION)
- 13/STD/G/11100 ... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
 - 13/GE/DD/0782 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 104.000 KM TO 128.000 KM
 - 13/GE/DD/0783 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 128.000km TO 131.000km
 - 13/GE/DD/0785 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 128.000km TO 131.000km
 - 13/DE/DD/0786 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 128.000km 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	ISSUED	DESIGNED	CHECKED	APPROVED
3	24-NOV-18	REVISED AS PER COMMENTS NO. 1 TO 10 OF PROFORMA DATED 14-07-2018	ACT	SRG	SKP	SKP
2	28-AUG-18	REVISED AS PER COMMENTS NO. 1 TO 10 OF PROFORMA DATED 28-08-2018	ACT	SRG	SKP	SKP
1	19-JUL-18	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)

EMPLOYER: N. RAMAKRISHNA RAJU DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

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

CONTRACTOR: EXPRESS FREIGHT CONSORTIUM

DESIGNER: STUP Consultants Pvt. Ltd.

TITLE: DETAILED CROSS SECTIONS FROM CH. 62+340 TO CH. 632+400

JOB NO: 8308 SIZE: A1 STATUS: ID (MECHANICAL)

DRWN: ACT PROJECTION: TD (TECHNICAL)

DSGN: SRG CD (CONSTRUCTION)

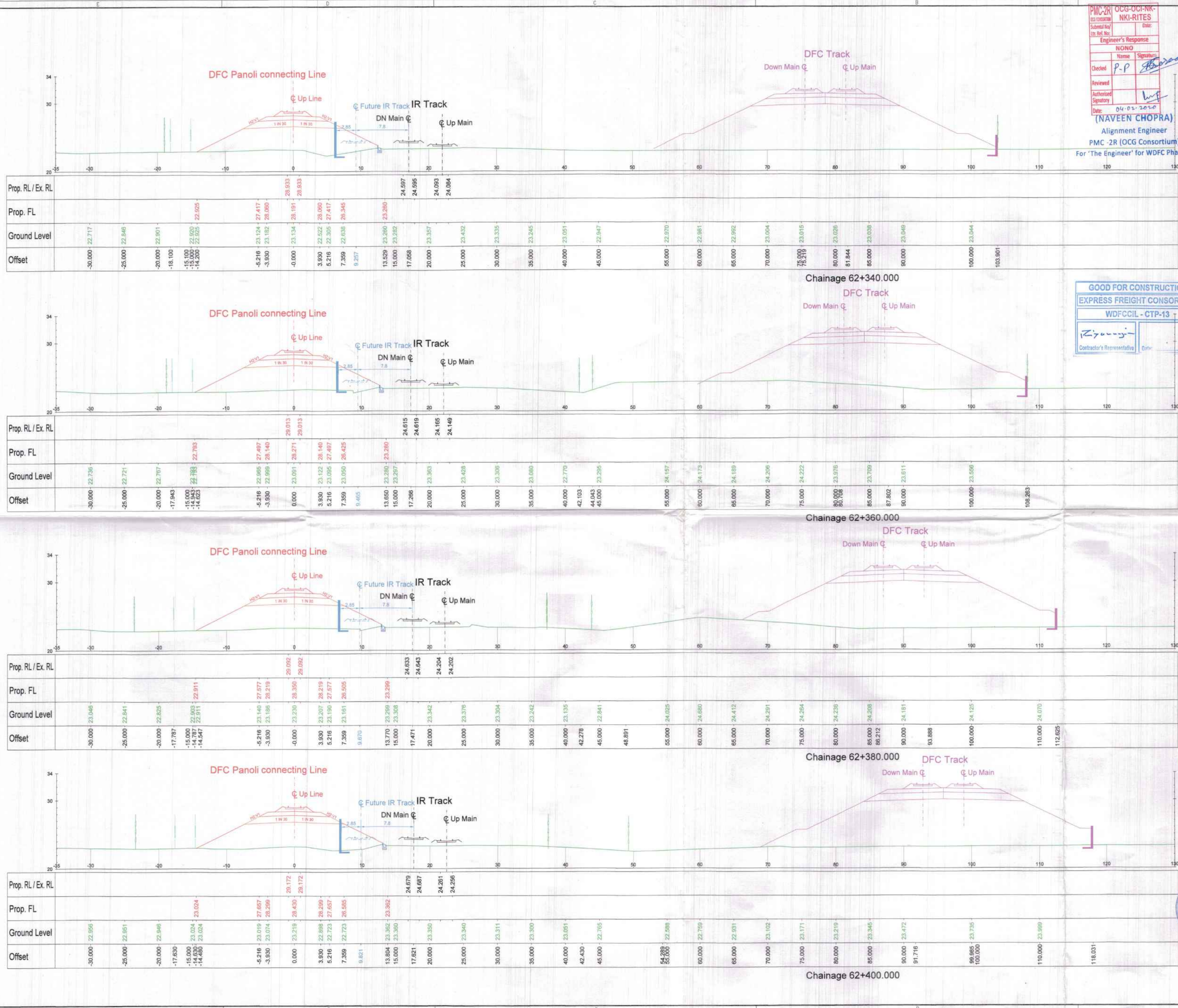
CHKD: SKP BD (AS BUILT)

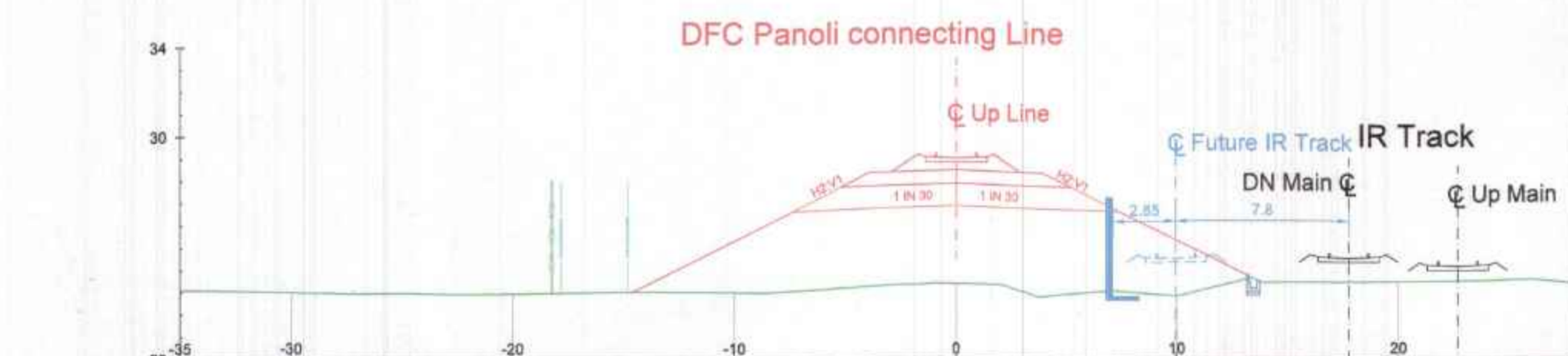
APPD: SKP SCALE: 1:250 DATE: 08-JUL-2019

DRG. NO. 13/AL/DG/0190-CD REV-3

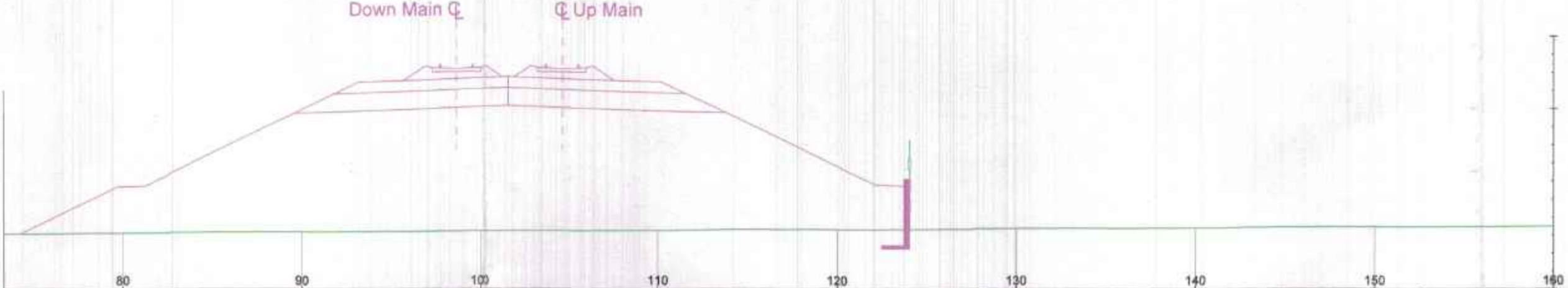
N. Ramakrishna Raju
 Chief Design Engineer

STUP CONSULTANTS PVT. LTD.
 PLOT NO. 22-A
 SECTOR 18-C
 PALM BEACH MARG.
 GARDNER
 TEL. 49817771
 Mumbai - 400029

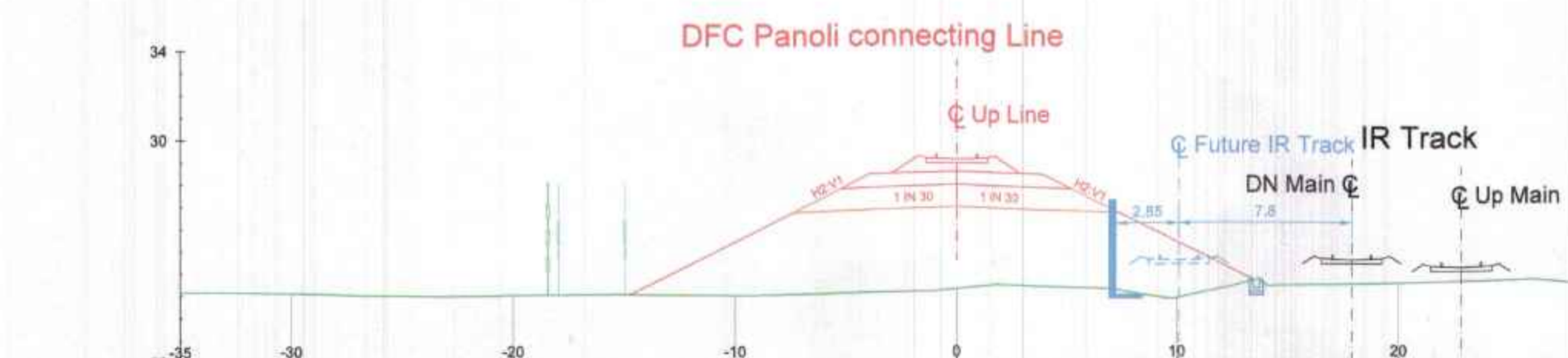




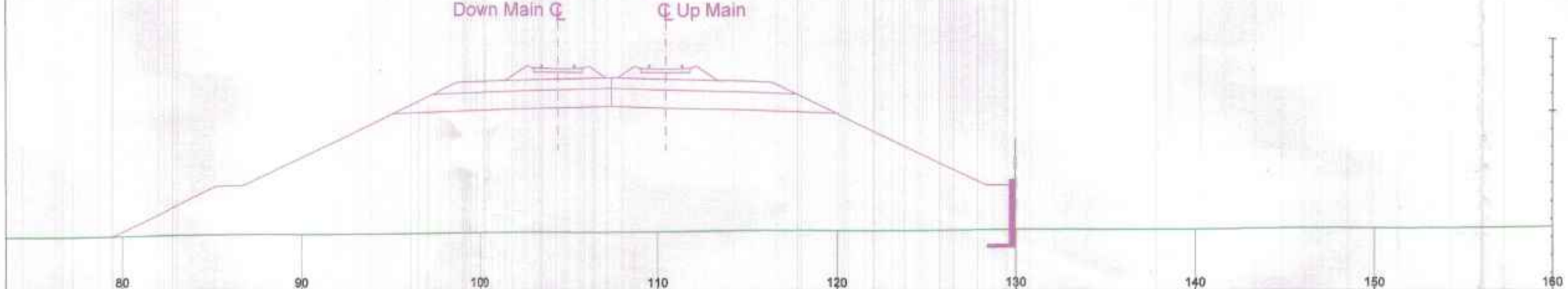
Prop. RL / Ex. RL	23.000	22.980	22.960	23.004	23.252	23.252	23.408	23.510	23.665	23.665	24.733	24.736	24.384	24.383							
Prop. FL																					
Ground Level	23.000	22.980	22.960	23.004	23.252	23.252	23.408	23.510	23.665	23.665	24.733	24.736	24.384	24.383							
Offset	-30.000	-25.000	-20.000	-17.474	-15.000	-14.620	-14.730	-14.474	-5.216	-3.890	-0.000	3.930	5.216	7.359	9.954	13.372	15.000	17.754	20.000	23.485	25.000



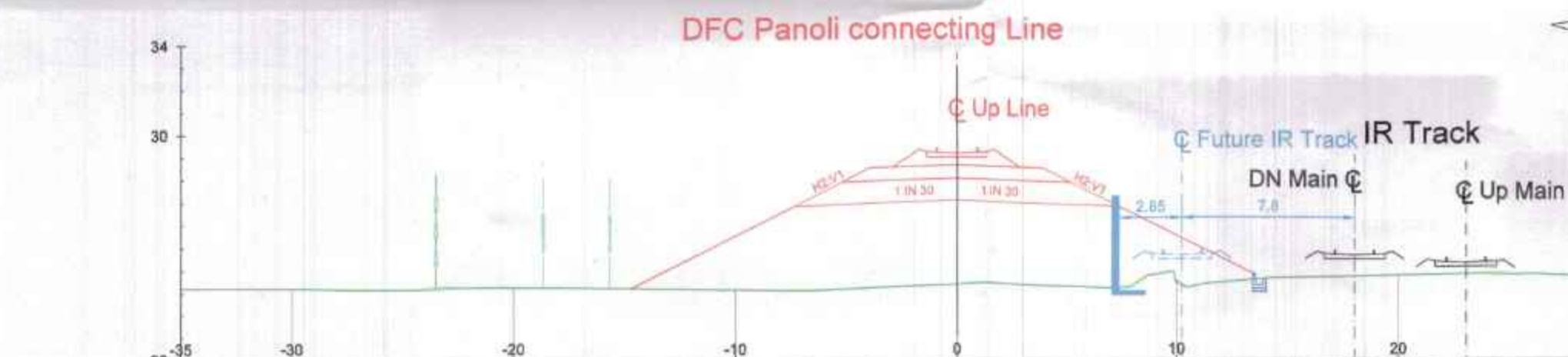
Prop. RL / Ex. RL	23.096	23.156	23.156	23.156	23.170	23.164	23.218	23.218	23.218	23.218	24.027	
Prop. FL												
Ground Level	23.096	23.156	23.156	23.156	23.170	23.164	23.218	23.218	23.218	23.218	24.027	
Offset	76.000	80.000	85.000	85.000	90.000	97.220	100.000	106.082	110.000	110.000	124.027	



Prop. RL / Ex. RL	23.095	23.015	23.028	23.099	23.332	23.332	23.488	23.590	23.745	23.745	24.786	24.786	24.435	24.424							
Prop. FL																					
Ground Level	23.095	23.015	23.028	23.099	23.332	23.332	23.488	23.590	23.745	23.745	24.786	24.786	24.435	24.424							
Offset	-30.000	-25.000	-20.000	-17.317	-15.000	-14.730	-14.517	-14.317	-5.216	-3.930	-0.000	3.930	5.216	7.359	10.037	13.465	15.000	17.887	20.000	23.545	25.000



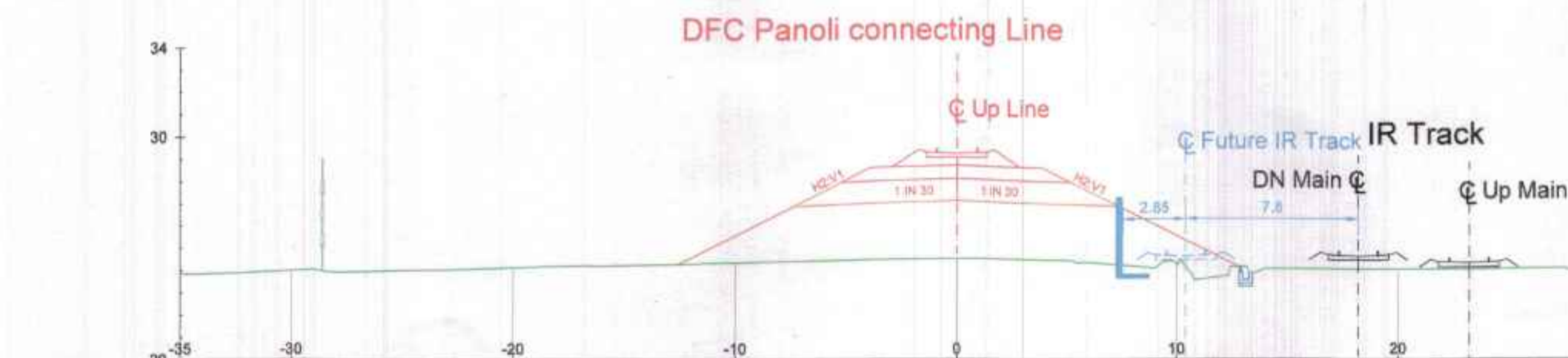
Prop. RL / Ex. RL	23.942	23.041	23.101	23.103	23.188	23.203	23.203	23.327	23.327	23.327	23.942	
Prop. FL												
Ground Level	23.942	23.041	23.101	23.103	23.188	23.203	23.203	23.327	23.327	23.327	23.942	
Offset	75.000	80.000	85.000	85.000	90.000	102.725	100.000	112.168	110.000	112.168	129.942	



Prop. RL / Ex. RL	23.201	23.199	23.168	23.143	23.412	23.412	23.570	23.672	23.825	23.825	24.831	24.827	24.513	24.489							
Prop. FL																					
Ground Level	23.201	23.199	23.168	23.143	23.412	23.412	23.570	23.672	23.825	23.825	24.831	24.827	24.513	24.489							
Offset	-30.000	-25.000	-20.000	-17.181	-15.000	-14.723	-14.556	-14.343	-5.216	-3.930	-0.000	3.930	5.216	7.359	10.235	13.543	15.000	18.035	20.000	23.735	25.000



Prop. RL / Ex. RL	24.405	24.616	24.680	24.703	24.451	24.165	23.879	23.593	23.593	23.593	24.405	
Prop. FL												
Ground Level	24.405	24.616	24.680	24.703	24.451	24.165	23.879	23.593	23.593	23.593	24.405	
Offset	75.000	80.000	85.000	90.000	100.000	108.207	110.000	118.128	120.000	130.000	135.609	



Prop. RL / Ex. RL	24.019	24.025	24.135	24.293	24.480	24.480	24.637	24.739	24.892	24.892	24.881	24.855	24.542	24.540							
Prop. FL																					
Ground Level	24.019	24.025	24.135	24.293	24.480	24.480	24.637	24.739	24.892	24.892	24.881	24.855	24.542	24.540							
Offset	-30.000	-25.000	-20.000	-17.005	-15.000	-14.723	-14.556	-14.343	-5.216	-3.930	-0.000	3.930	5.216	7.359	10.410	12.806	15.000	18.210	20.000	23.894	25.000

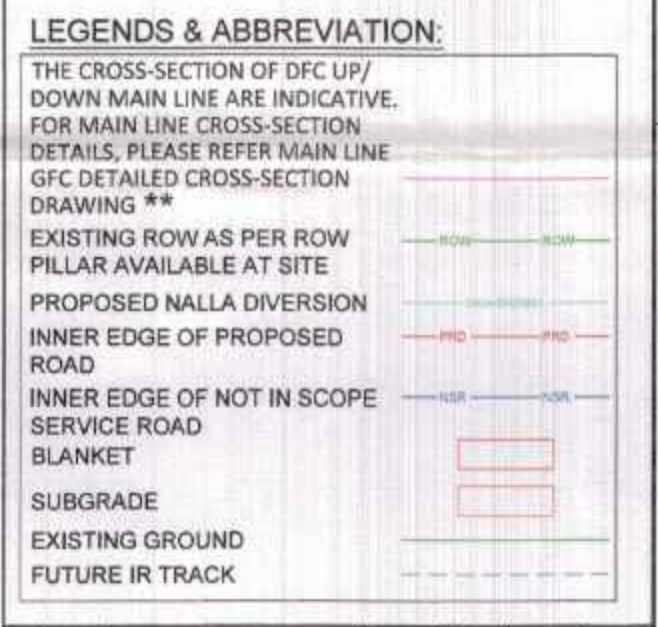


Prop. RL / Ex. RL	24.388	24.126	25.133	24.943	24.592	24.182	23.893	23.600	23.600	23.600	24.388	
Prop. FL												
Ground Level	24.388	24.126	25.133	24.943	24.592	24.182	23.893	23.600	23.600	23.600	24.388	
Offset	75.000	78.864	85.000	85.000	90.000	110.000	113.532	120.000	123.790	130.000	141.276	

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

- NOTES:
- ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
 - EXISTING WORK IS SHOWN IN BLACK.
 - PROPOSED WORK IS SHOWN IN RED.
 - CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (E ADJACENT TO IR TRACK).
 - DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER L NO. LOCCG/DFCC/CMT/CTP-13/1906/25064 (DATED 07-JUNE-2019)).
 - DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.88M VIDE ENGINEER LETTER NO. - LOCCG/DFCC/CMT/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
 - TRACK FORMATION CROSS FALL - 1:30.
 - FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
 - FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHANGAE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
 - FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
 - 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. THE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
 - 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/1100 ... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
 - 13/GE/DD/0762 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 104.000 KM TO 126.000 KM
 - 13/GE/DD/0763 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km
 - 13/GE/DD/0765 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km
 - 13/DE/DD/0766 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km



NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED	APPROVED
3	28/NOV/19	REVISION PER COMMENT NO. 10 DATED 14/11/2019	ACT	SRG	SKP	SKP
2	28/AUG/19	REVISION PER COMMENT NO. 10 DATED 06/08/2019	ACT	SRG	SKP	SKP
1	04/AUG/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)

EMPLOYER: DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC: PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM

CONTRACTOR: EXPRESS FREIGHT CONSORTIUM

DESIGNER: STUP Consultants Pvt. Ltd.

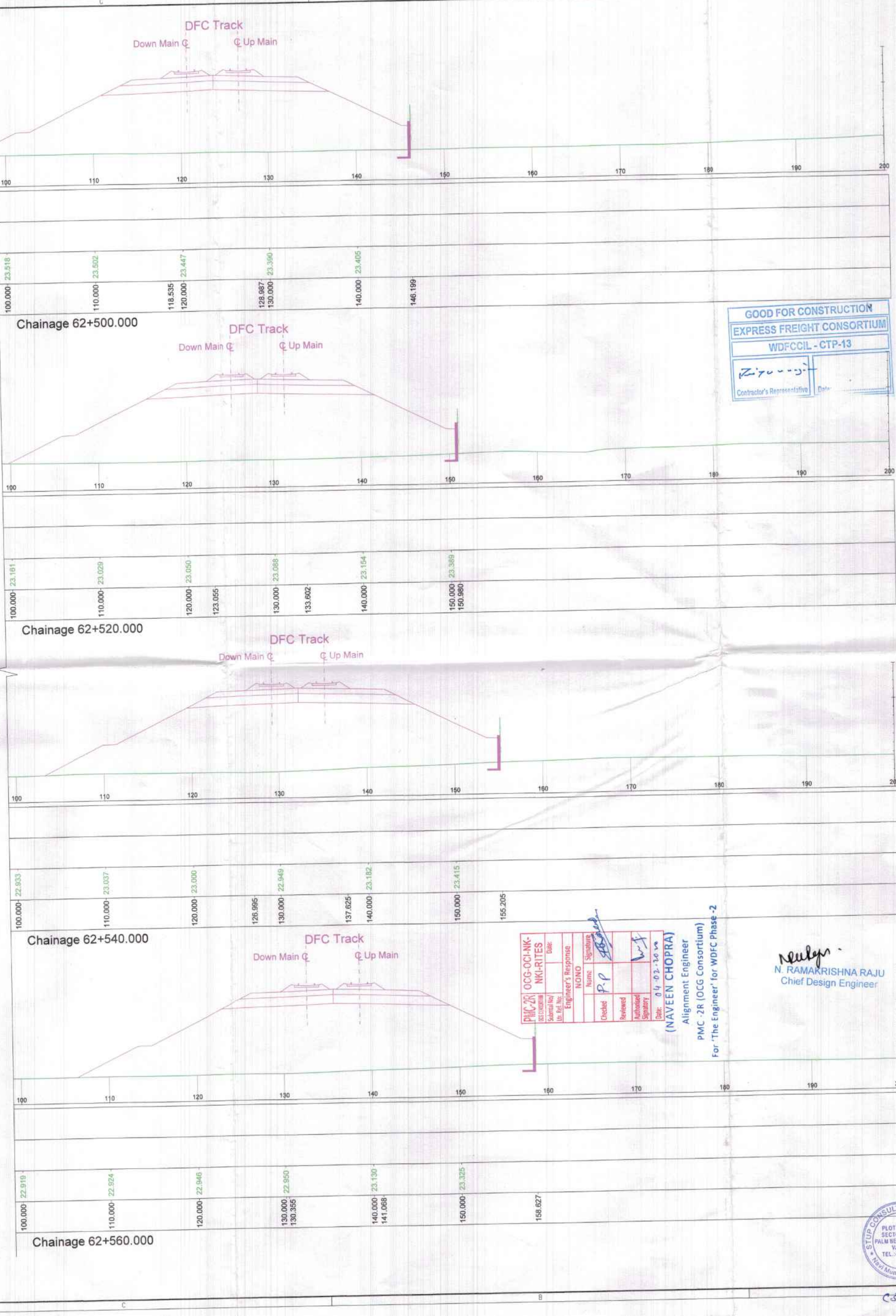
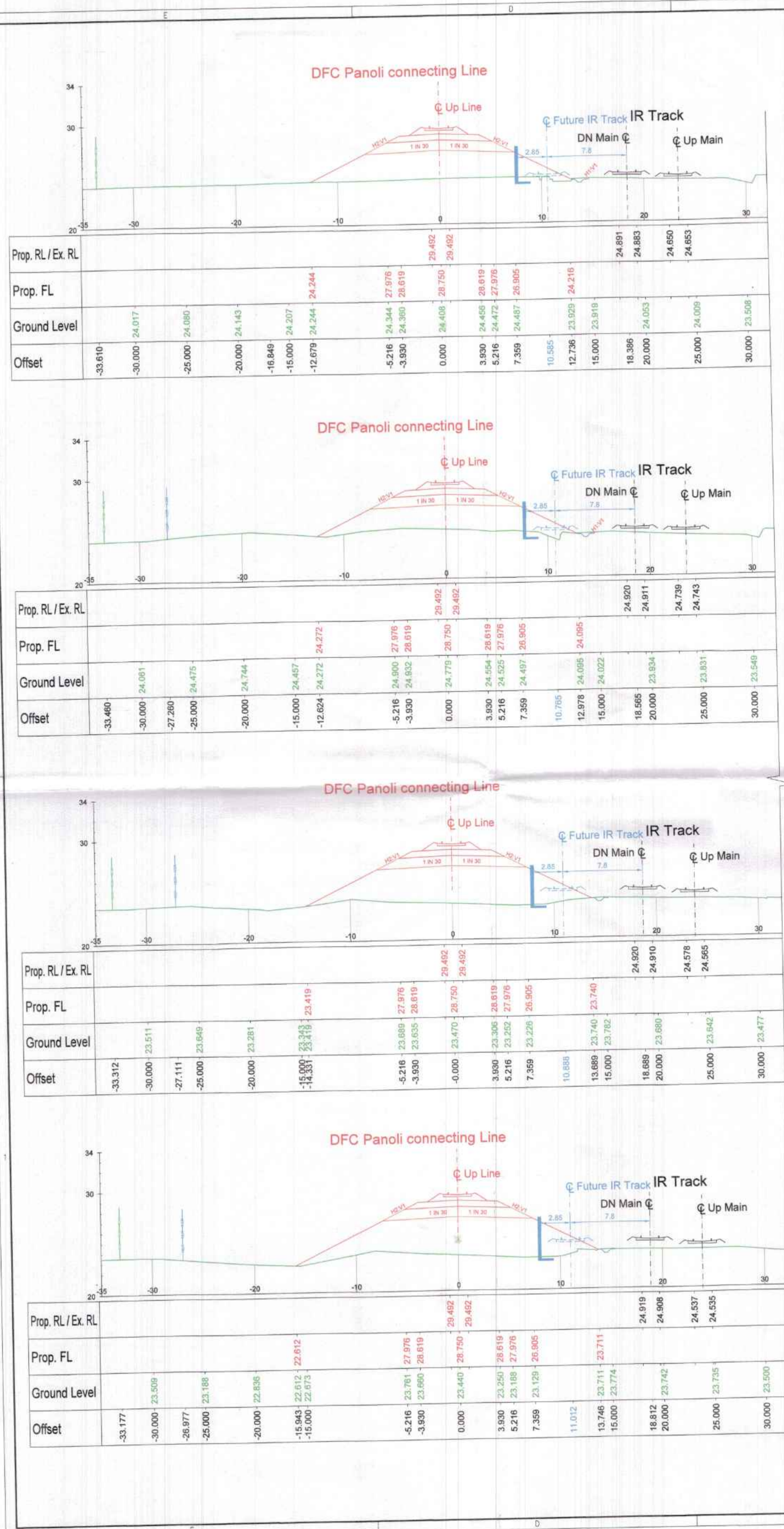
GOOD FOR CONSTRUCTION
 EXPRESS FREIGHT CONSORTIUM
 WDFCCIL - CTP-13
 Contractor's Representative: [Signature]
 Date: [Blank]

N. RAMAKRISHNA RAJU
 Chief Design Engineer

STUP CONSULTANTS PVT. LTD.
 PLOT NO. 22-A
 SECTOR-19-C
 PALM BEACH MARG,
 VASHTI,
 TEL: 49887777

TITLE: DETAILED CROSS SECTIONS FROM CH. 62+420 TO CH. 62+480

JOB NO:	8309	SCALE:	1:250	DATE:	08-JUL-2019
NAME:	[Blank]	PROJECTION:	[Blank]	ID:	(INCEPTION)
ACT:	[Blank]	CD:	(CONSTRUCTION)	BD:	(AS BUILT)
SRG:	[Blank]	DATE:	08-JUL-2019	REV:	3



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

PM-2R OCG-OCI-NK-RITES
 Checked: P.P. [Signature]
 Date: 21.02.2019
 (NAVEEN CHOPRA)
 Alignment Engineer
 PMC-2R (OCG Consortium)
 For The Engineer for WDFC Phase-2

N. Ramakrishna Raju
N. RAMAKRISHNA RAJU
 Chief Design Engineer

- NOTES:**
- ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
 - EXISTING WORK IS SHOWN IN BLACK.
 - PROPOSED WORK IS SHOWN IN RED.
 - CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E. ADJACENT TO IR TRACK).
 - DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER 'L' NO. L/OCGC/DFCC/CTP-13/1906/25094 (DATED 07-JUNE-2019)).
 - DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.85M VIDE ENGINEER LETTER NO. L/OCGC/DFCC/CTP-13/1702/2813 (DATED 22-FEBRUARY-2017).
 - TRACK FORMATION CROSS FALL - 1:30
 - FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
 - FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP-13 CHANGE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
 - FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - FOR DIVERSION OF ROAD/STREAM/NALLA ETC. REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
 - 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. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
 - PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF 8/7E&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 STRETCH FROM CH 104.000 KM TO 126.000 KM
 - 13/GE/DD/0763 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH 126.000km TO 131.000km
 - 13/GE/DD/0765 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km
 - 13/DE/DD/0766 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km

- LEGENDS & ABBREVIATION:**
- 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	BY	DESIGNED	CHECKED	APPROVED
3	28-NOV-18	REVISED AS PER PMC COMMENTS AND DATED 14-NOV-2018	ACT	SRG	SKP	SKP
2	28-AUG-18	REVISED AS PER PMC COMMENTS AND DATED 28-AUG-2018	ACT	SRG	SKP	SKP
1	08-JUL-18	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 SANALI (DFC)

EMPLOYER: DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

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

CONTRACTOR: EXPRESS FREIGHT CONSORTIUM

DESIGNER: STUP Consultants Pvt. Ltd.

TITLE: DETAILED CROSS SECTIONS FROM CH. 62+500 TO CH. 62+560

JOB NO:	8308	SIZE:	A1	STATUS:
DRWN:	ACT	PROJECTION:		ID: (INCEPTION)
DSGN:	SRG	SCALE:		TD: (TECHNICAL)
CHKD:	SKP	DATE:	05-JUL-2019	CD: (CONSTRUCTION)
APPD:	SKP	SCALE:	1:250	BD: (AS BUILT)
DRG. NO.:	13/AL/DG/0192-CD	REV:	3	



C.S.K. Patil