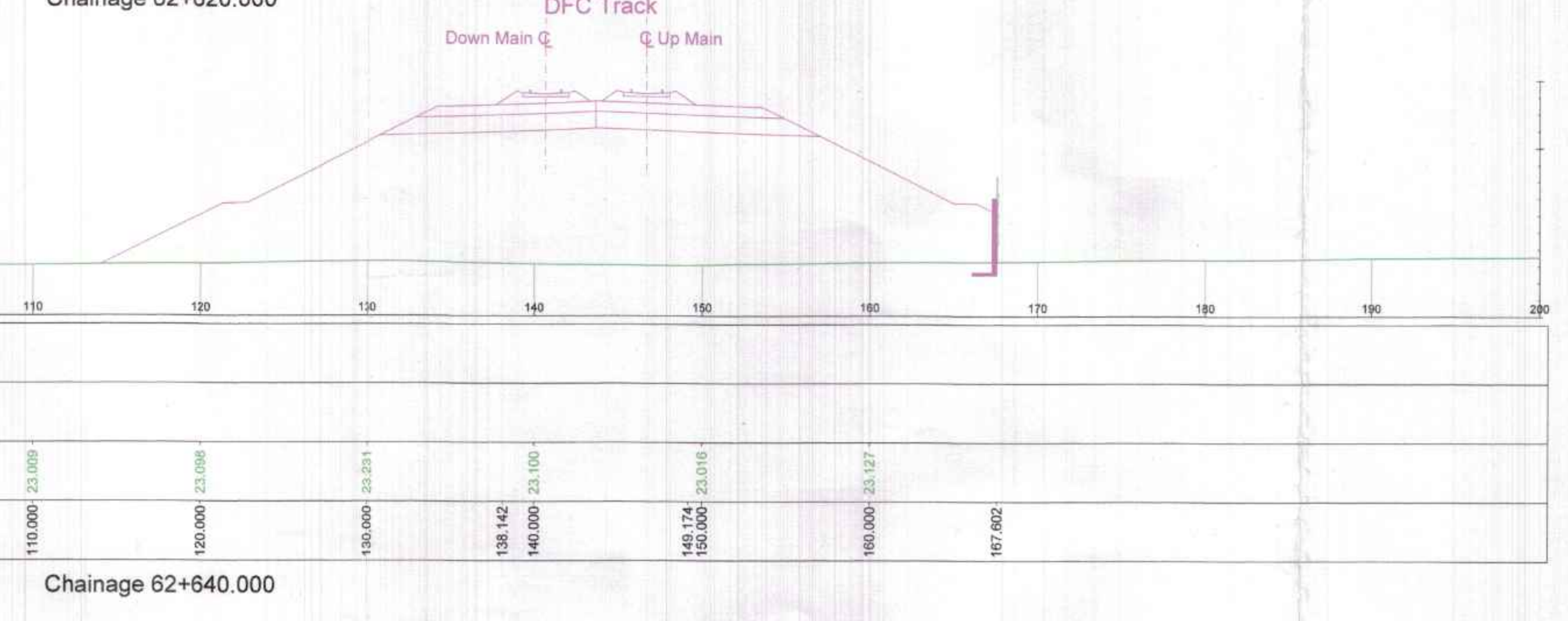
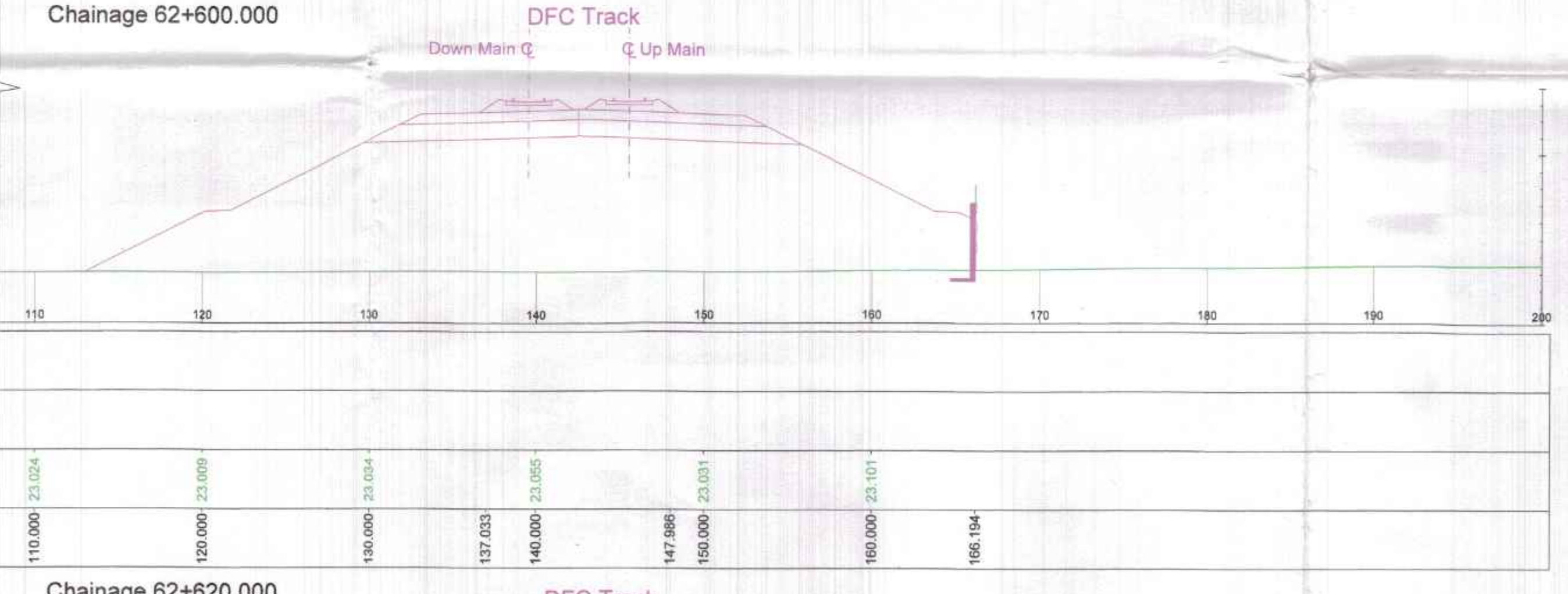
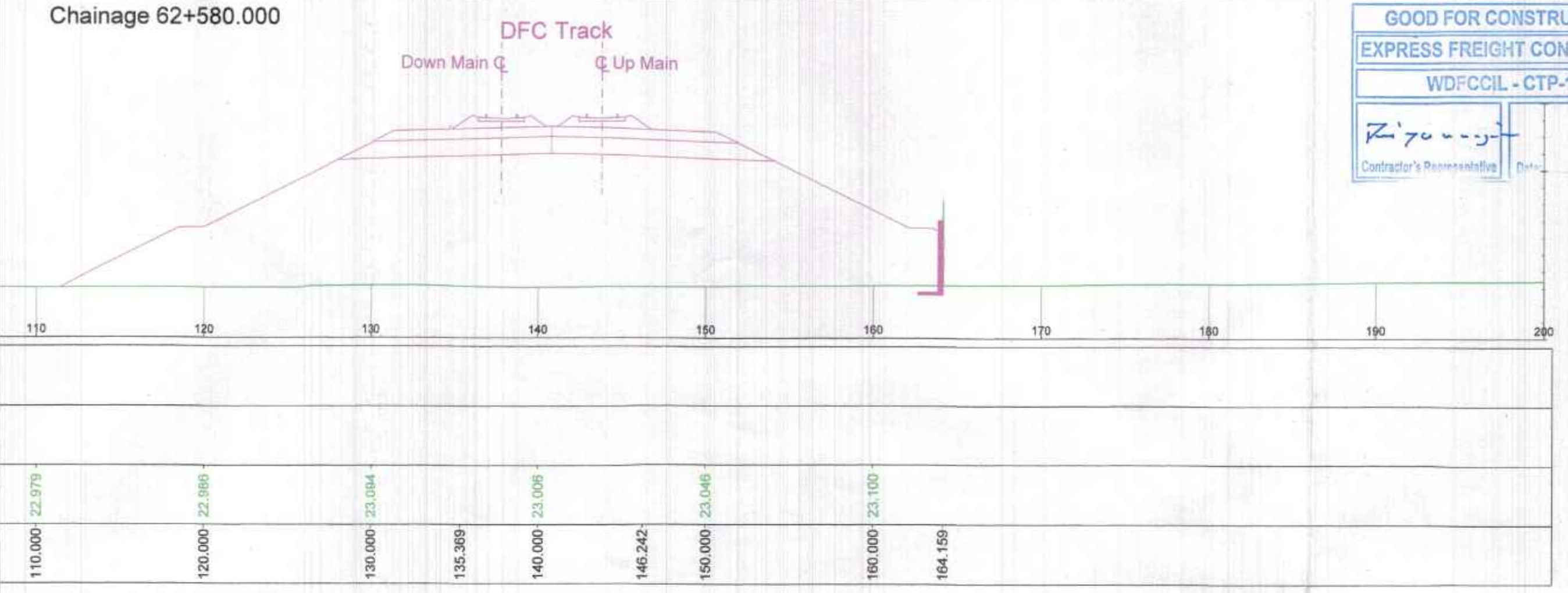
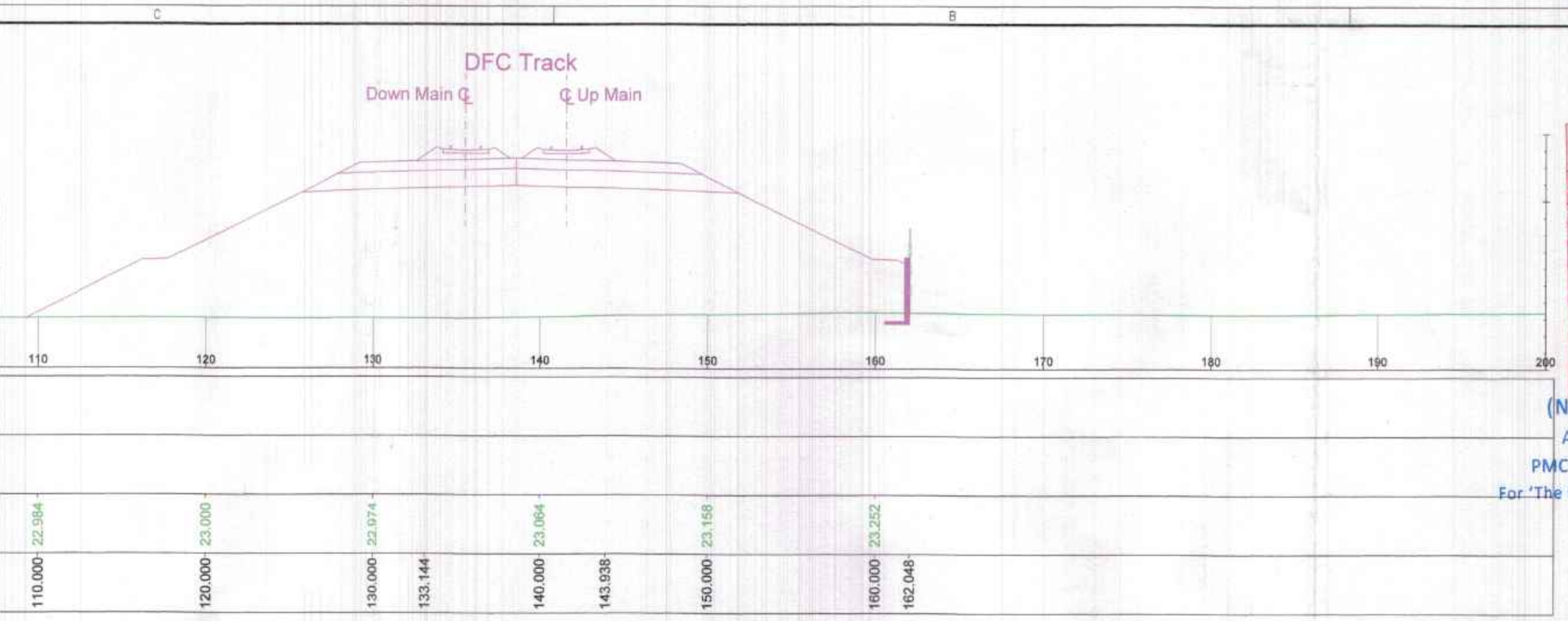
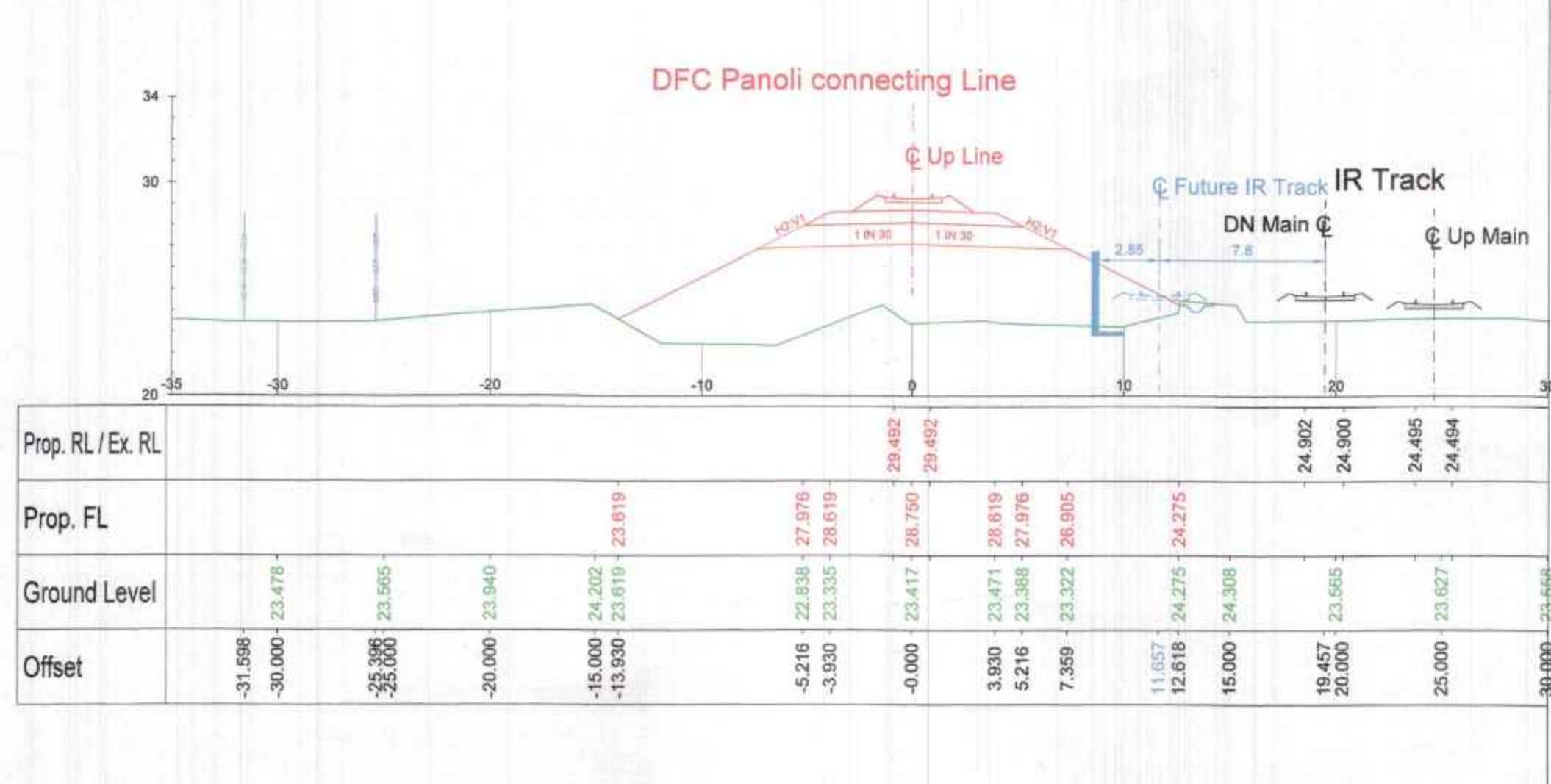
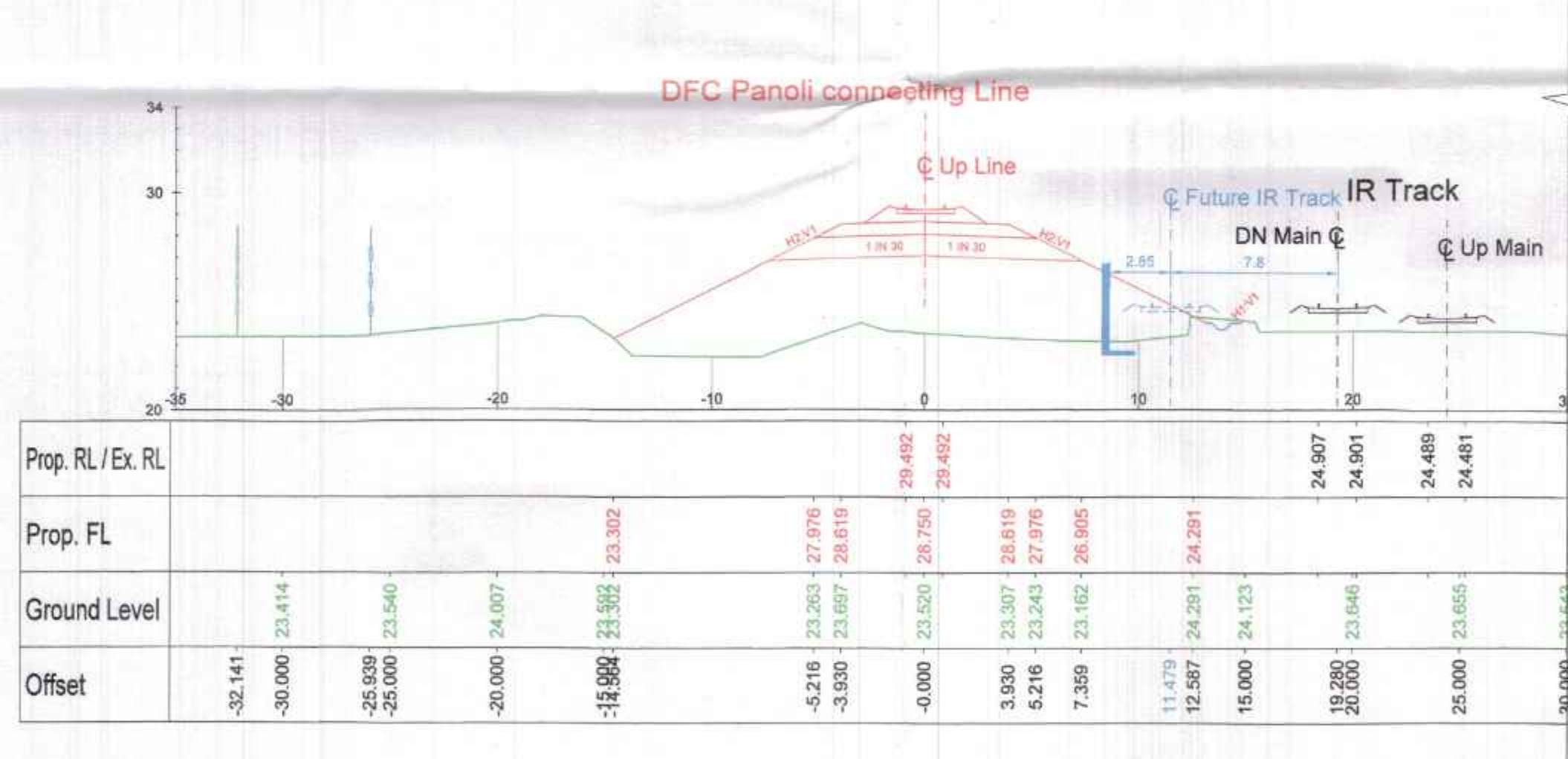
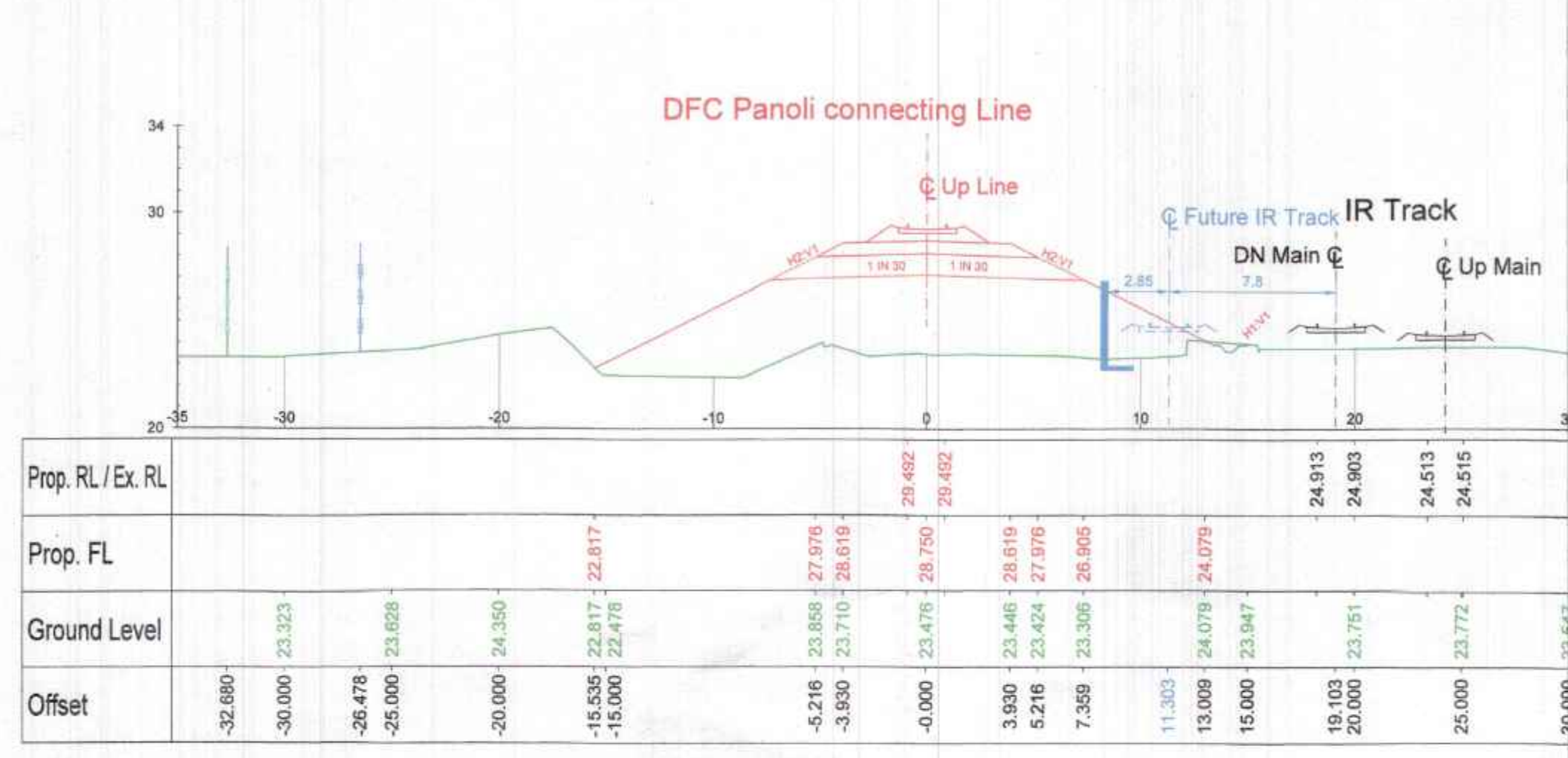
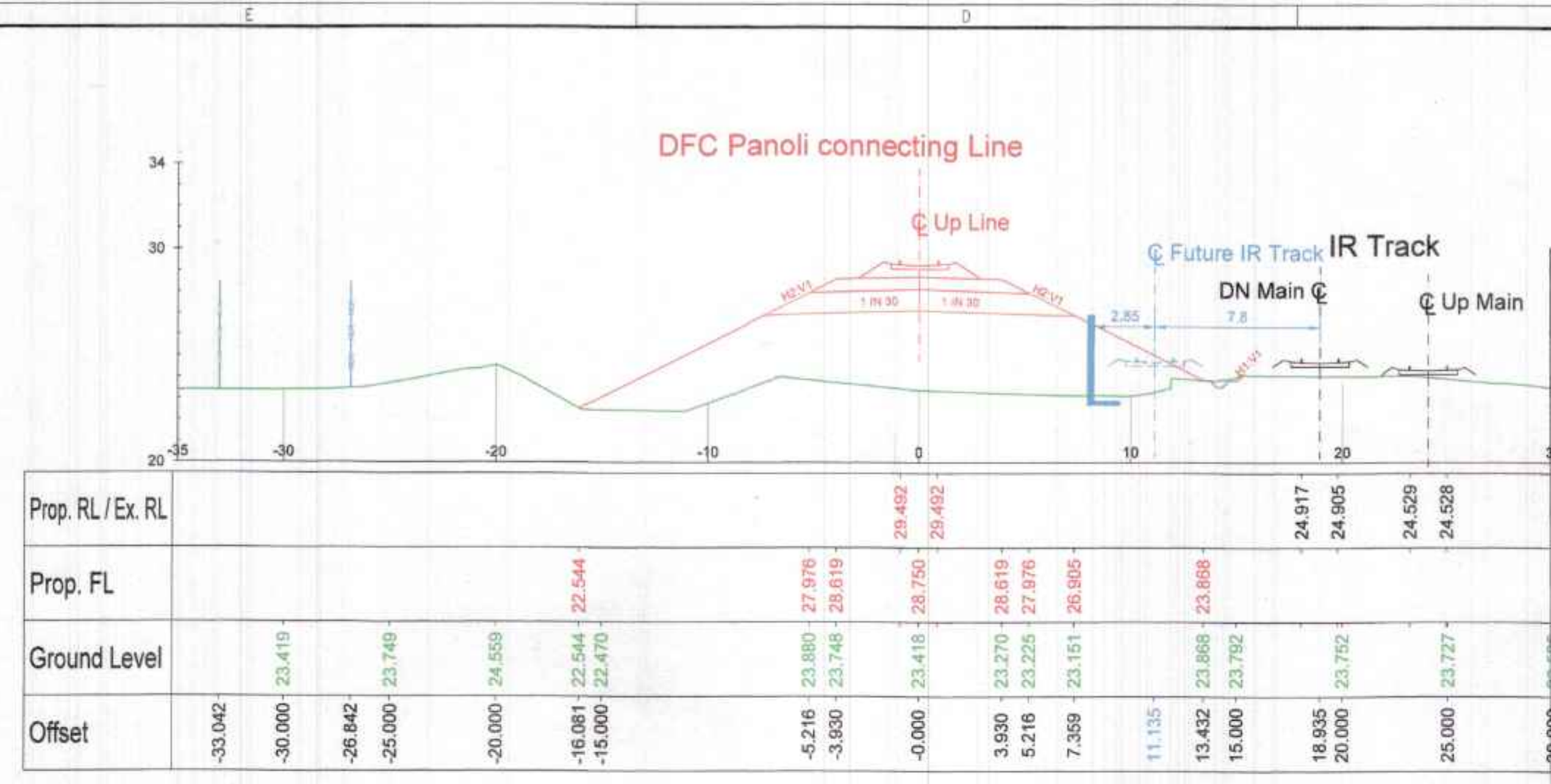




PMO-2R  
Substantive  
No. Ref. No.  
Engineer's Response  
NOKO  
Checked  
Reviewed  
Authorized  
Signature  
Date: 04-02-2020  
(NAVEEN CHOPRA)  
Alignment Engineer  
PMC-2R (OCG Consortium)  
For 'The Engineer' for WDFC Phase-2

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

- 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/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 13.85M 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.
  - 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 SATTEAM 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:
- THE CROSS-SECTION OF DFC UP/ DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE DFC 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-18 | REVISED AS PER PMC COMMENTS (NO. L/OCG/DFCC/CTP-13/1906/25094 (DATED 14-01-2019)) | ACT   | SRG      | SKP     | SKP      |
| 2   | 26-AUG-18 | REVISED AS PER PMC COMMENTS (NO. L/OCG/DFCC/CTP-13/1702/2913 (DATED 26-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 SANJALI (DFC)

EMPLOYER: DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

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

CONTRACTOR: EXPRESS FREIGHT CONSORTIUM  
MITSUBISHI & CO., LTD. TATA

DESIGNER: STUP Consultants Pvt. Ltd.

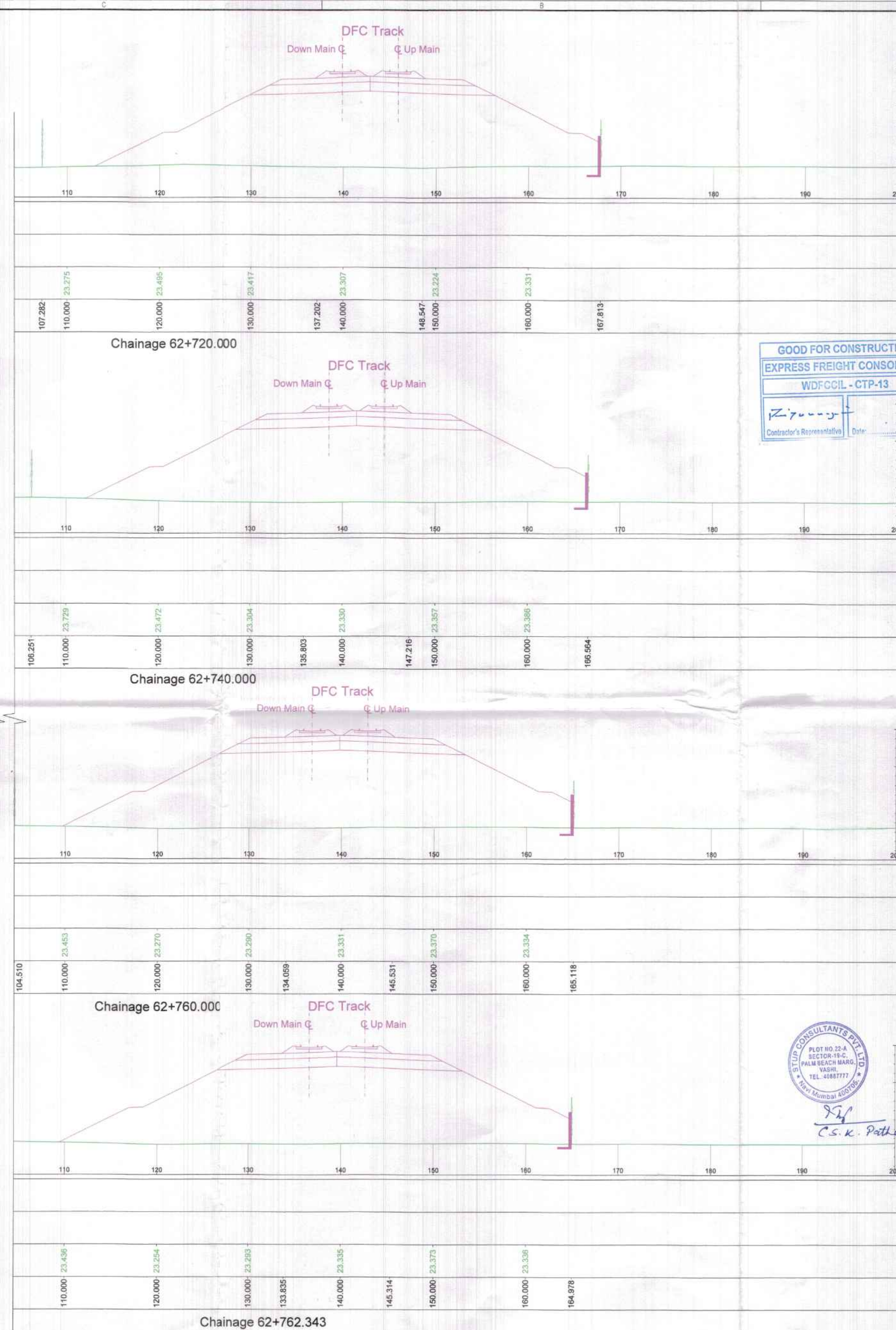
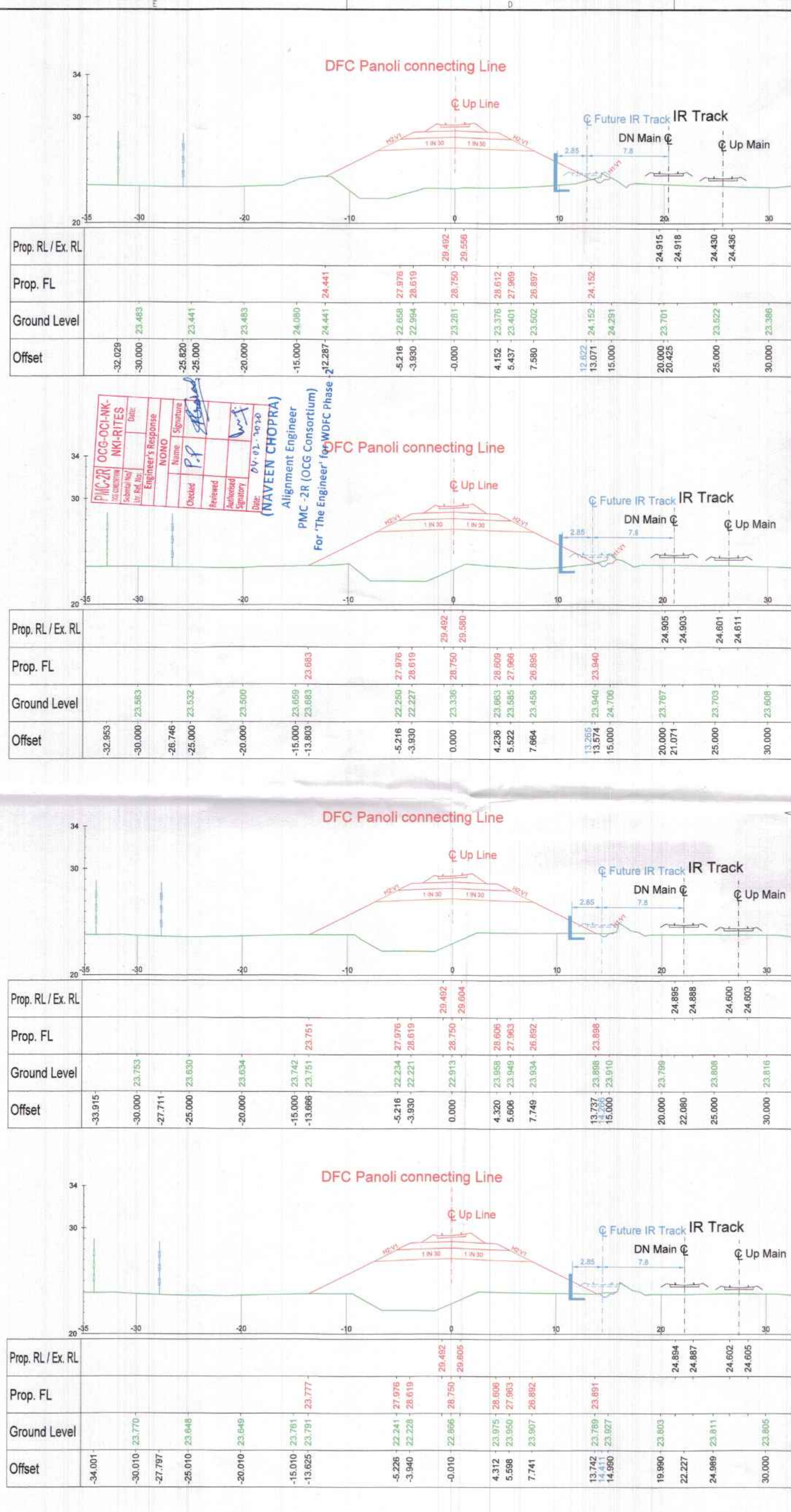
TITLE: DETAILED CROSS SECTIONS FROM CH. 62+580 TO CH. 62+640

| JOB NO.  | 8309             | SIZE       | A1                 | STATUS |
|----------|------------------|------------|--------------------|--------|
| NAME     | SIGN             | PROJECTION | TD: (INCEPTION)    |        |
| DRWN     | ACT              | SRG        | CD: (CONSTRUCTION) |        |
| CHKD     | SKP              | SCALE      | BD: (AS BUILT)     |        |
| APPD     | SKP              | 1:250      | DATE: 08-JUL-2019  |        |
| SRG. NO. | 13/AL/DG/0193-CD | REV-3      |                    |        |









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-13/1702/2913 (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/STREANALLA 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 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/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 DFC 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

SUBGRADE

EXISTING GROUND

FUTURE IR TRACK

REVISION HISTORY

| NO. | DATE      | REVISION                                        | DRAWN | DESIGNED | CHECKED | APPROVED |
|-----|-----------|-------------------------------------------------|-------|----------|---------|----------|
| 3   | 28-AUG-18 | REVISED AS PER PMC COMMENTS (DATED 14-AUG-2018) | ACT   | SRG      | SKP     | SKP      |
| 2   | 28-AUG-18 | REVISED AS PER PMC COMMENTS (DATED 08-AUG-2018) | ACT   | SRG      | SKP     | SKP      |
| 1   | 28-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: N. RAMAKRISHNA RAJU Chief Design Engineer

ORGANIZATION: DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

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

CONTRACTOR: EXPRESS FREIGHT CONSORTIUM

DESIGNER: STUP Consultants Pvt. Ltd.

TITLE: DETAILED CROSS SECTIONS FROM CH. 62+720 TO CH. 62+762.343

JOB NO: 8309

NAME: SION

PROJECTION: ID: (NCEPTION) TD: (TECHNICAL) CD: (CONSTRUCTION) BD: (AS BUILT)

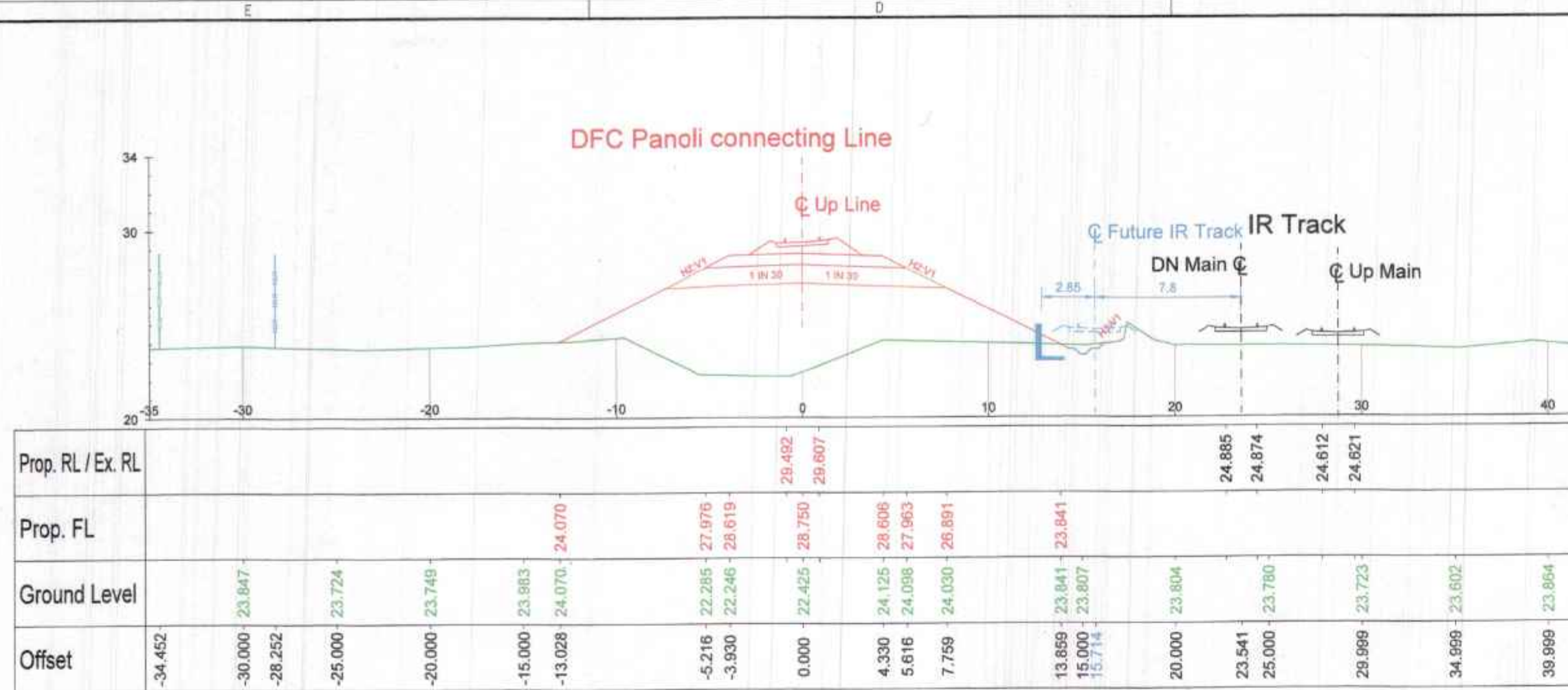
SCALE: 1:250

DATE: 08-JUL-2019

DRS: NO. 13/AL/DG/0195-CD

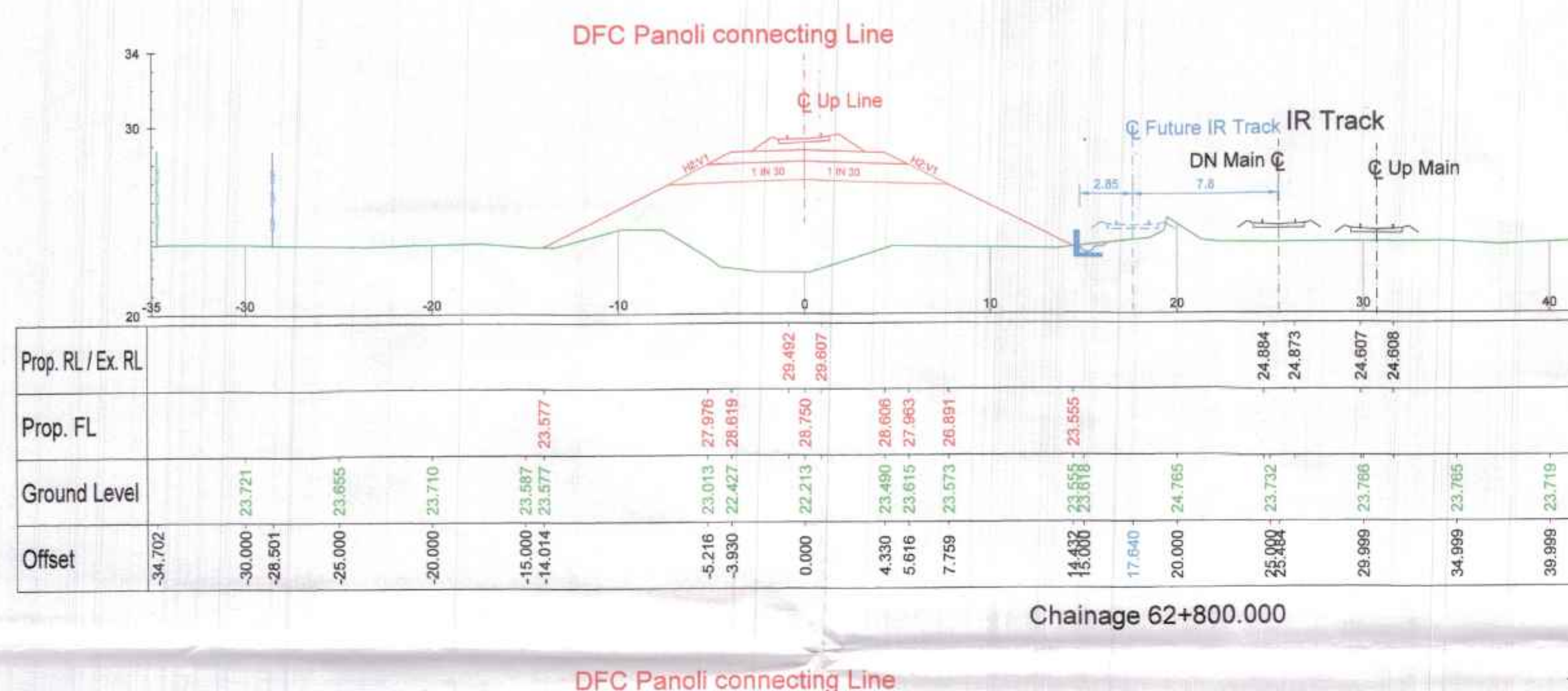
REV-3





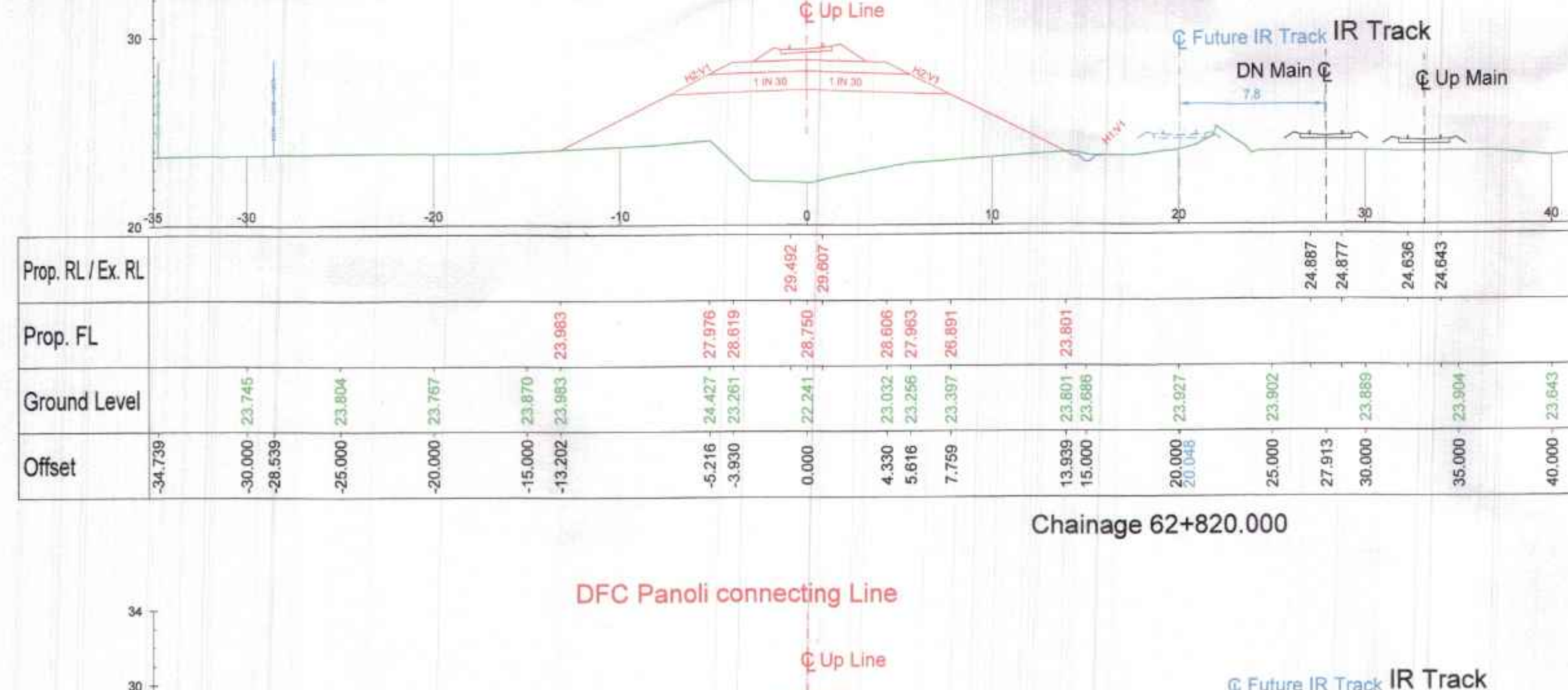
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Chainage 62+780.000 |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---------------------|

Chainage 62+780.000



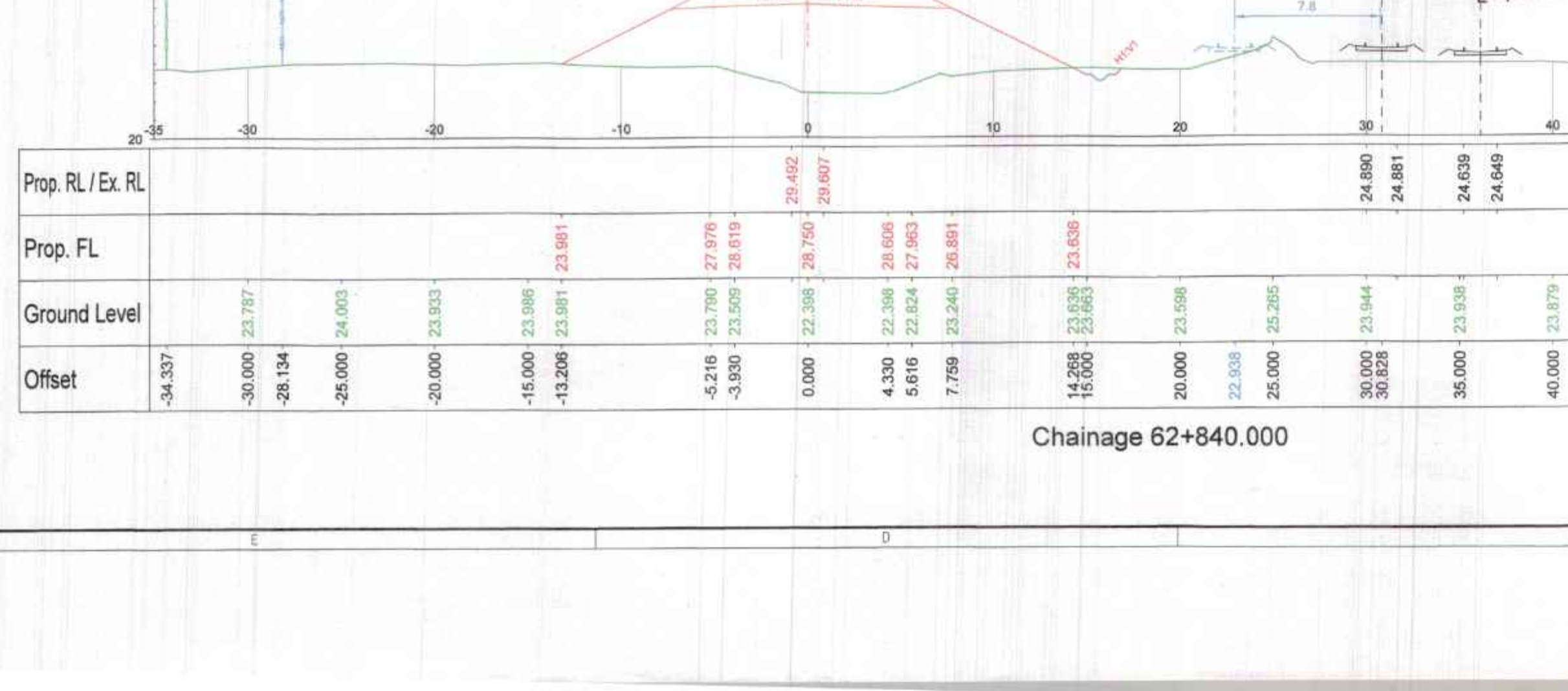
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Chainage 62+800.000



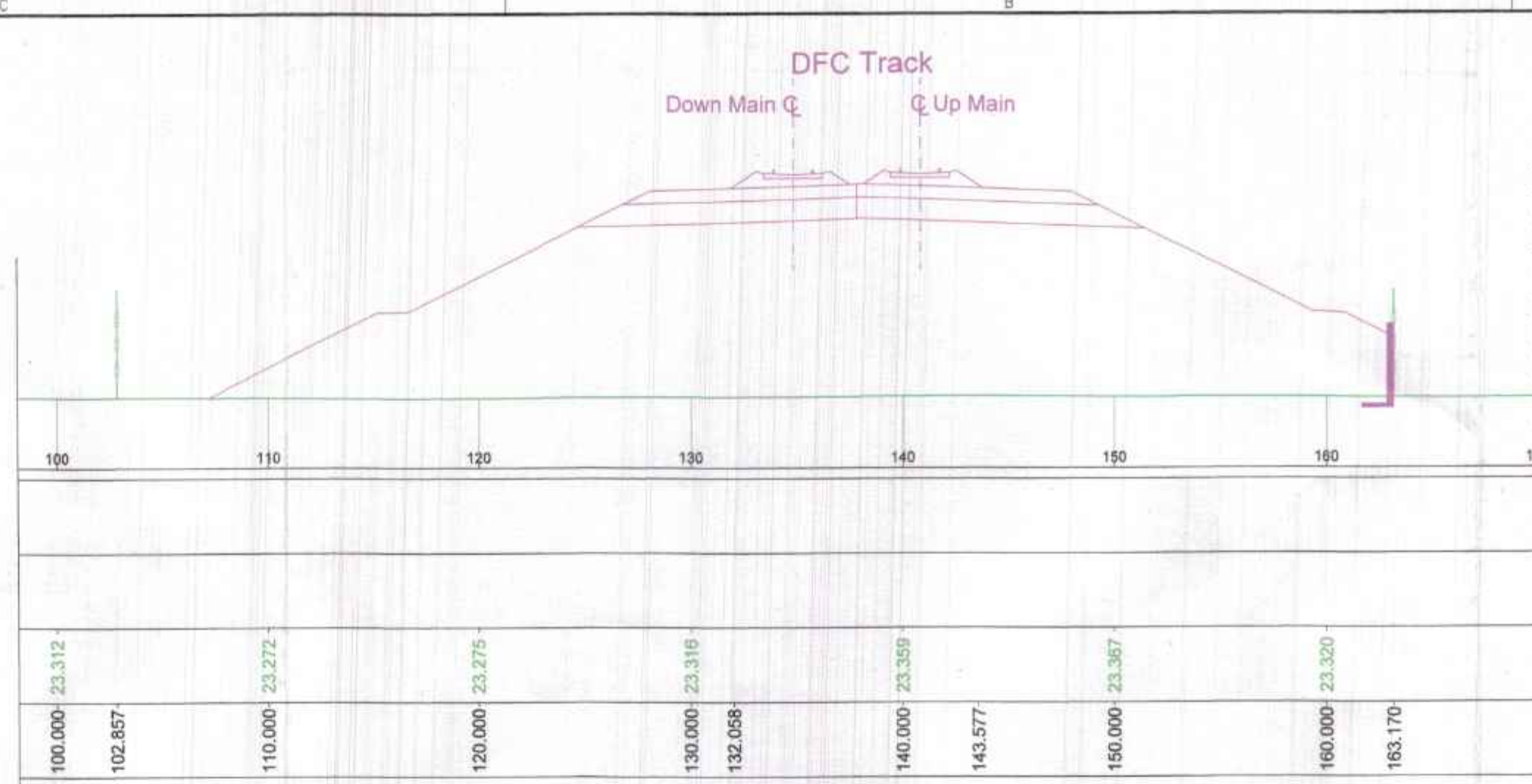
|                   |         |         |         |         |         |         |         |         |         |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Prop. RL / Ex. RL | -34.739 | -30.000 | -28.539 | -25.000 | -20.000 | -15.000 | -13.202 | -23.983 | -23.983 | -5.216 | -3.930 | 0.000  | 4.330  | 5.616  | 7.759  | 13.859 | 23.841 | 23.807 | 20.000 | 23.804 | 23.541 | 25.000 | 23.780 | 29.999 | 23.723 | 34.899 | 23.602 | 39.999 | 23.894 |
| Prop. FL          |         |         |         |         |         |         |         |         |         |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Ground Level      |         | 23.745  | 23.804  | 23.767  | 23.970  | 24.070  | 23.983  | 23.983  | 23.983  | 22.285 | 22.246 | 22.425 | 24.125 | 24.098 | 24.030 | 23.841 | 23.807 | 23.807 | 23.804 | 23.804 | 23.541 | 25.000 | 23.780 | 29.999 | 23.723 | 34.899 | 23.602 | 39.999 | 23.894 |
| Offset            | -34.739 | -30.000 | -28.539 | -25.000 | -20.000 | -15.000 | -13.202 | -23.983 | -23.983 | -5.216 | -3.930 | 0.000  | 4.330  | 5.616  | 7.759  | 13.859 | 23.841 | 23.807 | 20.000 | 23.804 | 23.541 | 25.000 | 23.780 | 29.999 | 23.723 | 34.899 | 23.602 | 39.999 | 23.894 |

Chainage 62+820.000



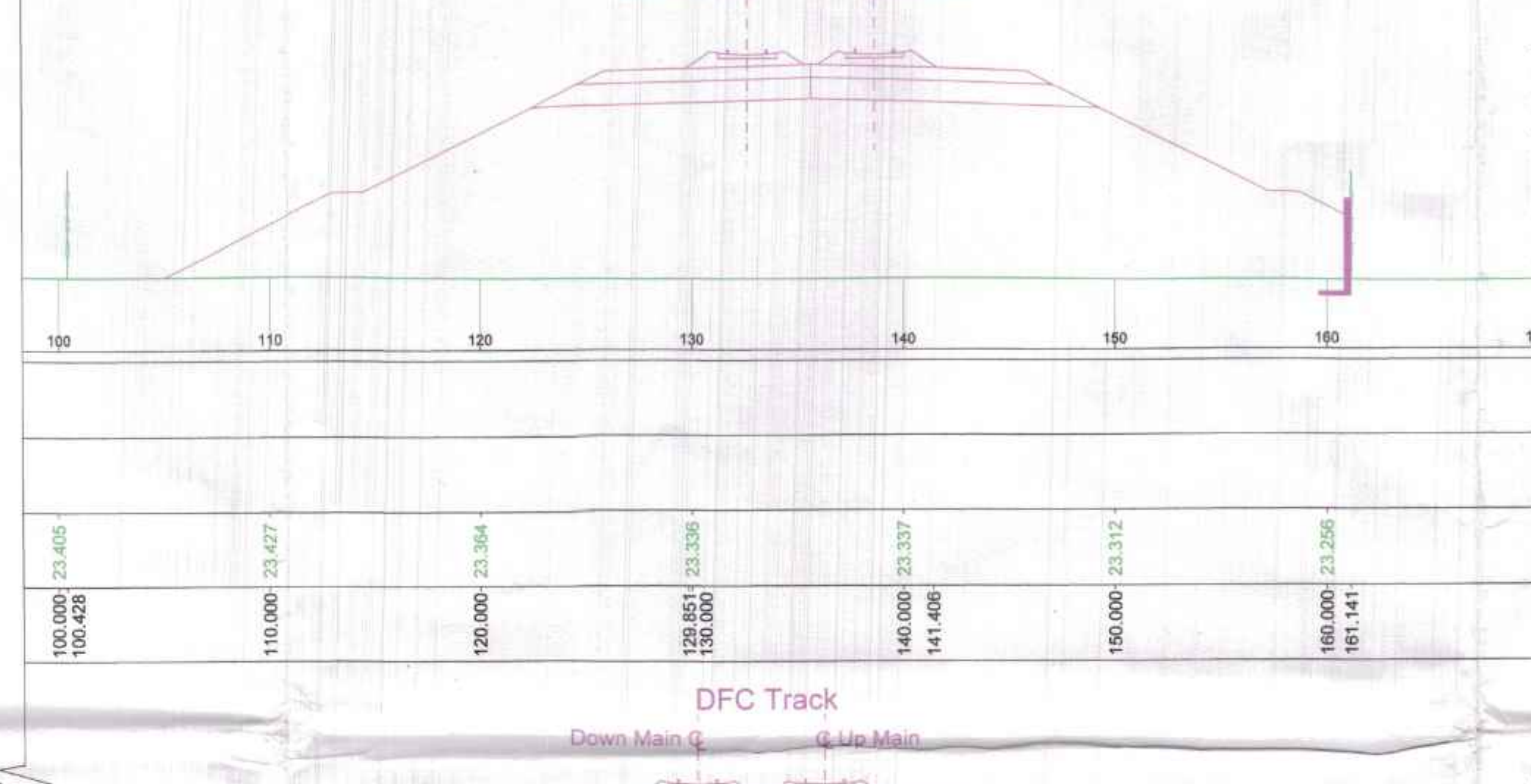
|                   |         |         |         |         |         |         |         |         |         |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Prop. RL / Ex. RL | -34.337 | -30.000 | -28.134 | -25.000 | -20.000 | -15.000 | -13.206 | -23.981 | -23.981 | -5.216 | -3.930 | 0.000  | 4.330  | 5.616  | 7.759  | 14.268 | 23.826 | 23.807 | 20.000 | 23.804 | 23.541 | 25.000 | 23.780 | 29.999 | 23.723 | 34.899 | 23.602 | 39.999 | 23.894 |
| Prop. FL          |         |         |         |         |         |         |         |         |         |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Ground Level      |         | 23.787  | 24.003  | 23.933  | 23.986  | 24.070  | 23.981  | 23.981  | 23.981  | 22.285 | 22.246 | 22.425 | 24.125 | 24.098 | 24.030 | 23.841 | 23.807 | 23.807 | 23.804 | 23.804 | 23.541 | 25.000 | 23.780 | 29.999 | 23.723 | 34.899 | 23.602 | 39.999 | 23.894 |
| Offset            | -34.337 | -30.000 | -28.134 | -25.000 | -20.000 | -15.000 | -13.206 | -23.981 | -23.981 | -5.216 | -3.930 | 0.000  | 4.330  | 5.616  | 7.759  | 14.268 | 23.826 | 23.807 | 20.000 | 23.804 | 23.541 | 25.000 | 23.780 | 29.999 | 23.723 | 34.899 | 23.602 | 39.999 | 23.894 |

Chainage 62+840.000



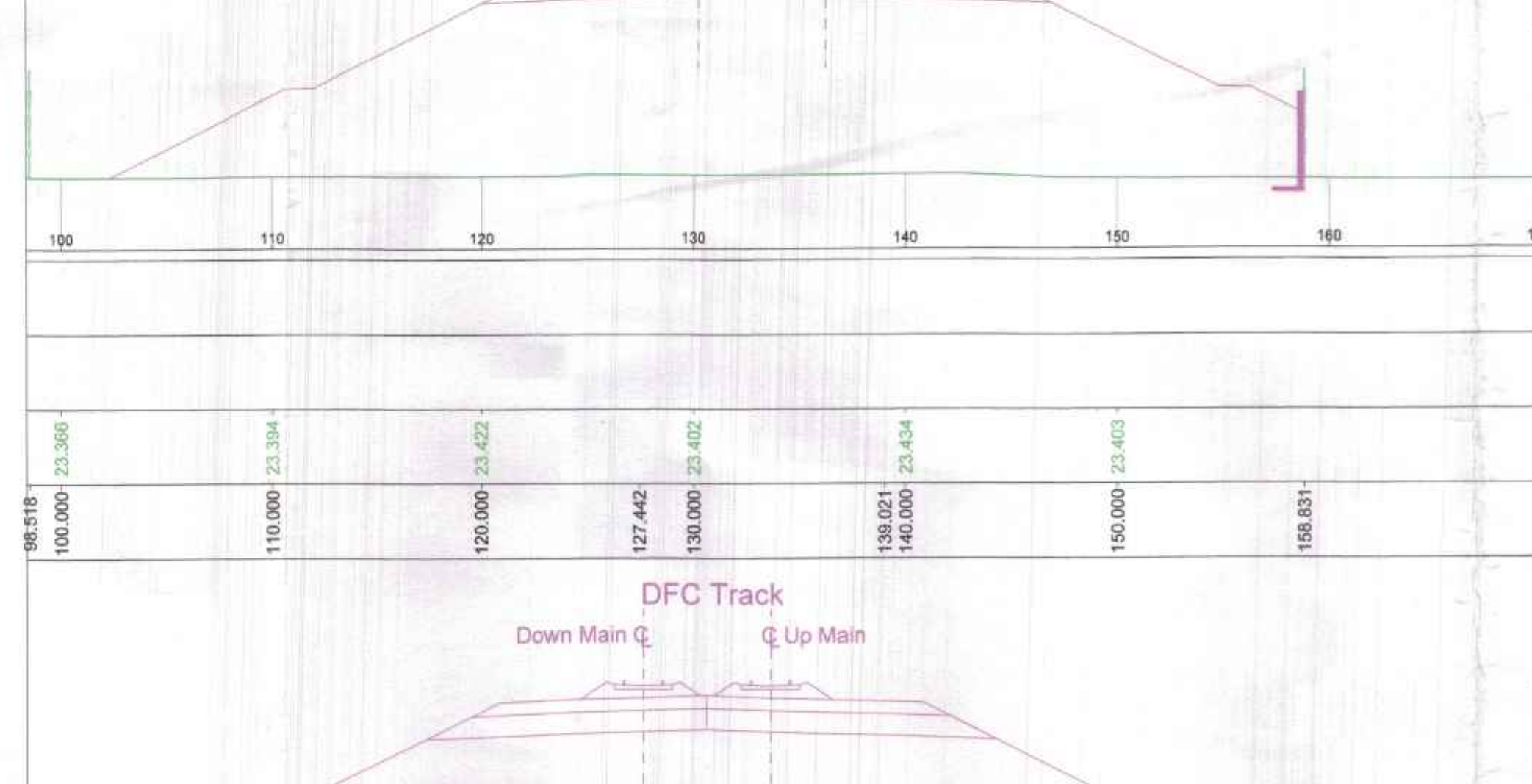
|                   |         |         |         |         |         |         |         |         |         |
|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Prop. RL / Ex. RL | 100.000 | 102.857 | 110.000 | 120.000 | 130.000 | 140.000 | 150.000 | 160.000 | 163.170 |
| Prop. FL          |         |         |         |         |         |         |         |         |         |
| Ground Level      |         |         |         |         |         |         |         |         |         |
| Offset            |         |         |         |         |         |         |         |         |         |

Chainage 62+860.000



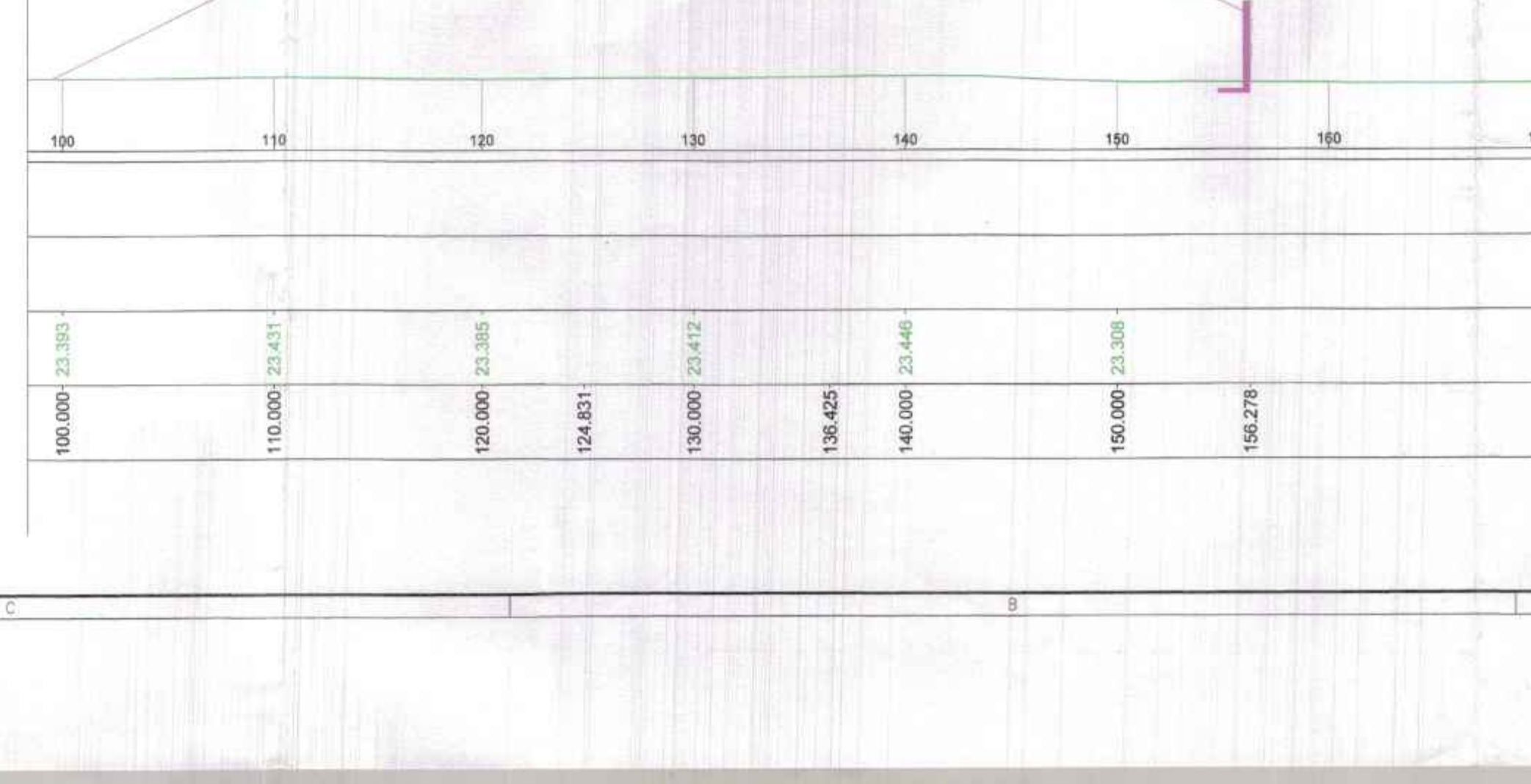
|                   |         |         |         |         |         |         |         |         |         |
|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Prop. RL / Ex. RL | 100.000 | 100.428 | 110.000 | 120.000 | 130.000 | 140.000 | 150.000 | 160.000 | 161.141 |
| Prop. FL          |         |         |         |         |         |         |         |         |         |
| Ground Level      |         |         |         |         |         |         |         |         |         |
| Offset            |         |         |         |         |         |         |         |         |         |

Chainage 62+880.000



|                   |        |         |         |         |         |         |         |         |         |
|-------------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| Prop. RL / Ex. RL | 98.516 | 100.000 | 110.000 | 120.000 | 130.000 | 140.000 | 150.000 | 160.000 | 168.831 |
| Prop. FL          |        |         |         |         |         |         |         |         |         |
| Ground Level      |        |         |         |         |         |         |         |         |         |
| Offset            |        |         |         |         |         |         |         |         |         |

Chainage 62+900.000



|                   |         |         |         |         |         |         |         |         |
|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Prop. RL / Ex. RL | 100.000 | 110.000 | 120.000 | 130.000 | 140.000 | 150.000 | 160.000 | 168.831 |
| Prop. FL          |         |         |         |         |         |         |         |         |
| Ground Level      |         |         |         |         |         |         |         |         |
| Offset            |         |         |         |         |         |         |         |         |

Chainage 62+920.000

PMC-2R  
OCC-OCI-NK-  
NKI-RITES  
Date: 04.02.2019  
Engineer's Response  
NONO  
Checked: P.P. [Signature]  
Reviewed: [Signature]  
Authorized Signatory: [Signature]  
Date: 04.02.2019  
Alignment Engineer  
PMC-2R (OCC Consortium)  
For 'The Engineer' for WDFC Phase-2

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

N. RAMAKRISHNA RAU  
Chief Design Engineer

STUP CONSULTANTS PVT. LTD.  
PLOT NO. 22-A  
SECTOR-19-C  
BALM SEACH MARI  
VASHI  
TEL. 49887777

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/0061E TO 0078E (NONOC RECEIVED VIDE LETTER 'L' NO. LOCCG/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. LOCCG/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.
- TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
- PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/EAM CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/STD/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 CH. 126.000km TO 131.000km

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 DFC 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-16 | REVISED AS PER NCI COMMENT (NO. 100505/DFCC/CTP-13/1906/25094) (DATED 14-OCT-2016) | ACT   | SRG      | SKP     | SKP      |
| 2   | 28-AUG-16 | REVISED AS PER NCI COMMENT (NO. 100505/DFCC/CTP-13/1906/25094) (DATED 28-AUG-2016) | ACT   | SRG      | SKP     | SKP      |
| 1   | 18-JUL-16 | 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  
OCC - OCI - NK - NKI - RITES

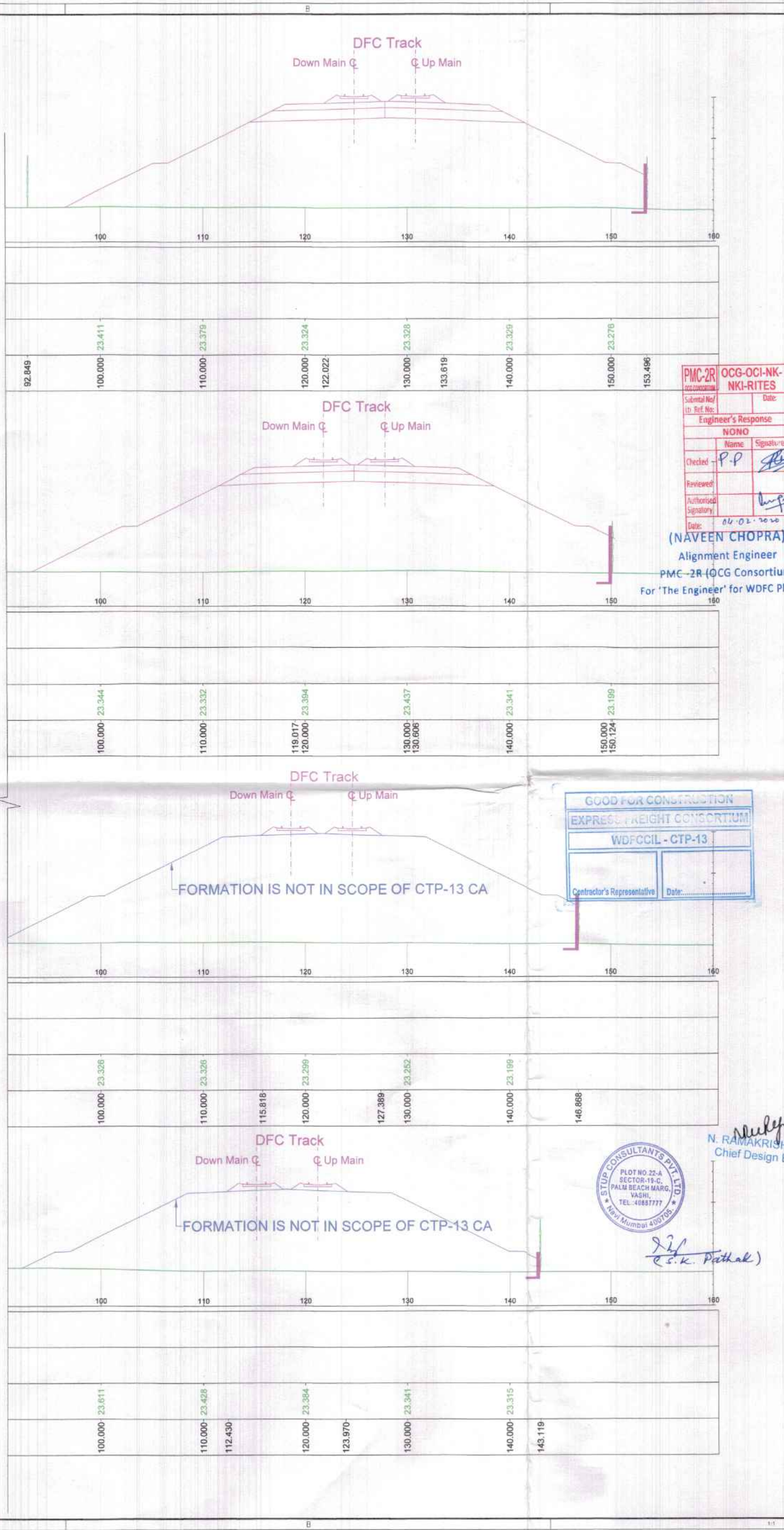
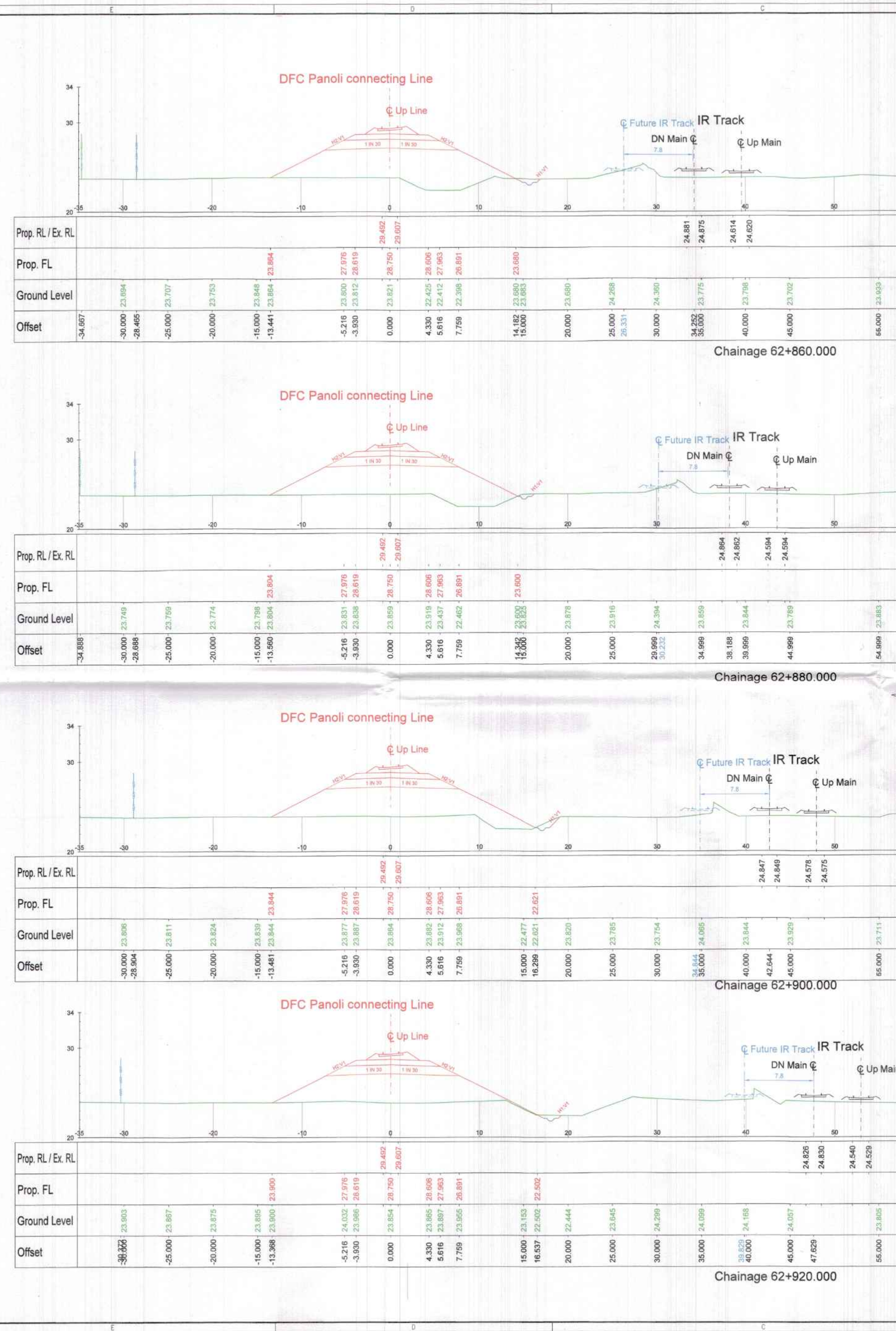
CONTRACTOR: EXPRESS FREIGHT CONSORTIUM  
MITHUL & SONS LTD. [Logo] TATA [Logo]

DESIGNER: STUP Consultants Pvt. Ltd. [Logo]

TITLE: DETAILED CROSS SECTIONS  
FROM CH. 62+780 TO CH. 62+840

|                           |             |                    |
|---------------------------|-------------|--------------------|
| JOB NO. 8309              | SIZE A1     | STATUS             |
| NAME SIGN                 | PROJECTION  | ID: (INCEPTION)    |
| DRWN ACT                  |             | 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/0196-CD |             | REV-3              |





**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 VIDEO LETTER NO. L/OCG/DFC/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 VIDEO ENGINEER LETTER NO. L/OCG/DFC/CMT/CTP-13/1702/2013 (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/E&M CABLES AS PER CONTRACT REQUIREMENT.

**REFERENCE TO DRAWINGS: (LATEST REVISION)**

| NO.            | DATE | REVISION | DESCRIPTION                                                                                    |
|----------------|------|----------|------------------------------------------------------------------------------------------------|
| 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:**

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**  
**WDFCCL - CTP-13**  
Contractor's Representative: \_\_\_\_\_ Date: \_\_\_\_\_

**STUP CONSULTANTS PVT. LTD.**  
PLOT NO. 22-A  
SECTOR-18-C,  
PALM BEACH MARG,  
VASHI,  
TEL. 48877777  
MUMBAI 401105

**N. RAMAKRISHNA RAO**  
Chief Design Engineer

**EMPLOYER**  
CORRIDOR CORPORATION OF INDIA LTD.

**PMO**  
PMO-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM  
OCG - OCI - NK - NK - RITES

**CONTRACTOR**  
EXPRESS FREIGHT CONSORTIUM

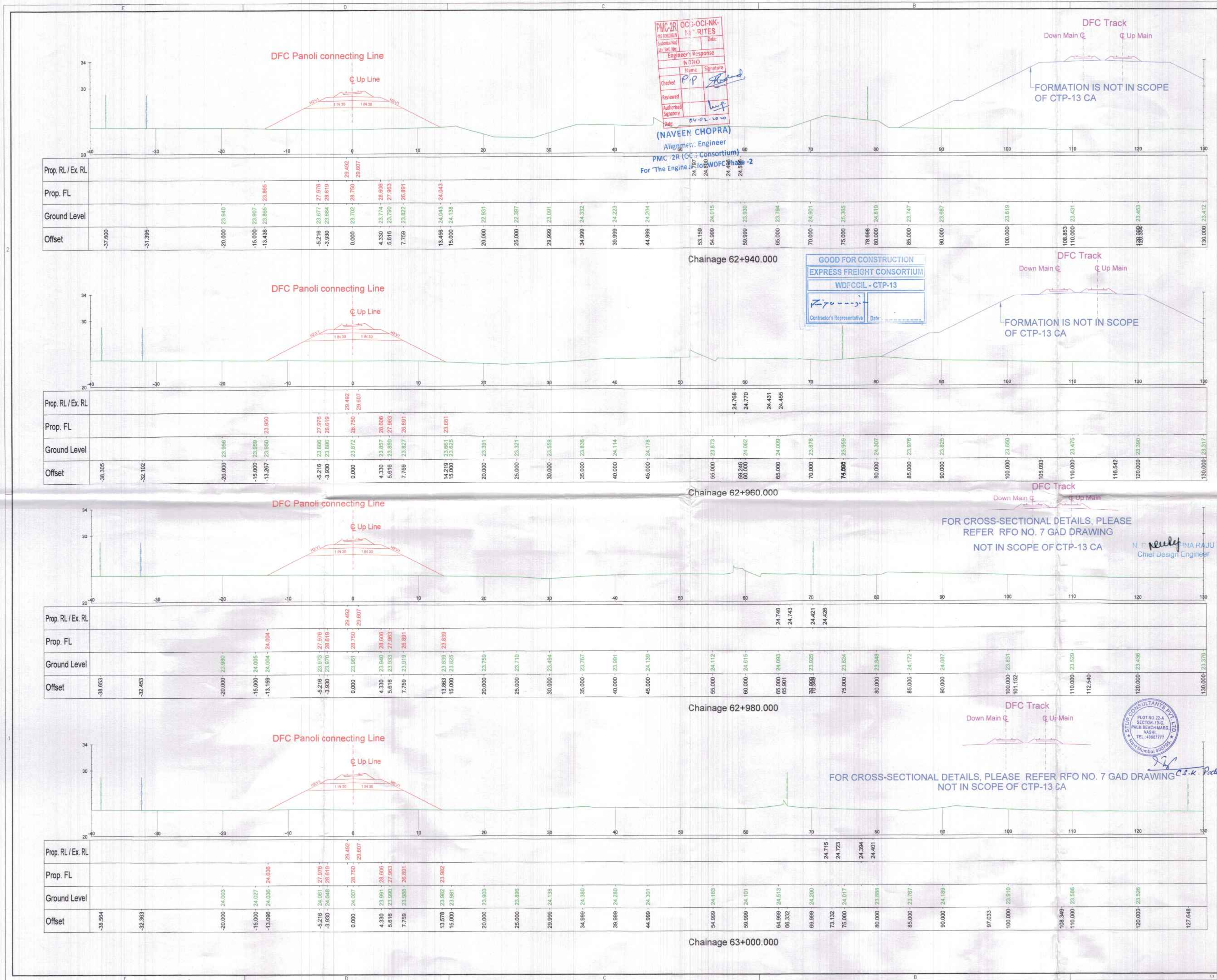
**DESIGNER**  
STUP Consultants Pvt. Ltd.

**TITLE**  
DETAILED CROSS SECTIONS  
FROM CH. 62+860 TO CH. 62+920

| JOB NO: 8309 | NAME | SIGN | AI | STATUS             |      |
|--------------|------|------|----|--------------------|------|
|              |      |      |    | PROJECTION         | DATE |
| DRWN         | ACT  |      |    | TD: (CONCEPTION)   |      |
| DSGN         | SRG  |      |    | TD: (TECHNICAL)    |      |
| CHKD         | SKP  |      |    | CD: (CONSTRUCTION) |      |
| APPD         | SKP  |      |    | BD: (AS BUILT)     |      |

SCALE: 1:250  
DATE: 08-JUL-2019  
ORG. NO. 13/AL/DG/0197-CD  
REV-3





- 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 NO. JOCGC/DFCC/CTP-13/1908/25094 (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 13.89M VIDE ENGINEER LETTER NO. JOCGC/DFCC/CTP-13/1702/2813 (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 CTP-13 CHAINAGE 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 8&12MM 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/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                                                                   | BY  | CHKD | APPD | DESIGNED | CHECKED | APPROVED |
|-----|-----------|----------------------------------------------------------------------------|-----|------|------|----------|---------|----------|
| 3   | 26-NOV-18 | REVISION AS PER COMMENTS NO. JOCGC/DFCC/CTP-13/1908/25094 DATED 14-07-2018 | ACT | SRG  | SRP  | SRP      | SRP     | SRP      |
| 2   | 26-AUG-18 | REVISION AS PER COMMENTS NO. JOCGC/DFCC/CTP-13/1908/25094 DATED 06-08-2018 | ACT | SRG  | SRP  | SRP      | SRP     | SRP      |
| 1   | 26-JUL-18 | ISSUE FOR CONSTRUCTION                                                     | ACT | SRG  | SRP  | SRP      | SRP     | SRP      |

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: PM2-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM

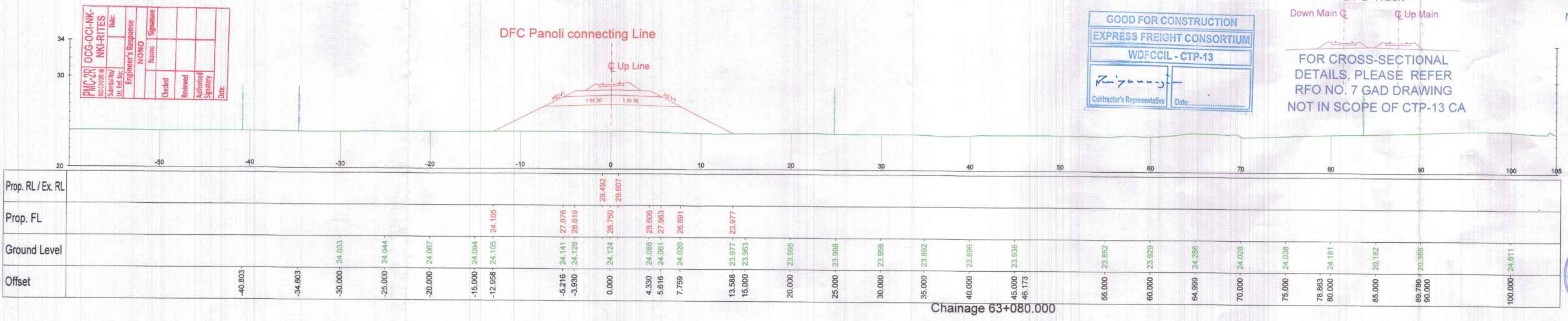
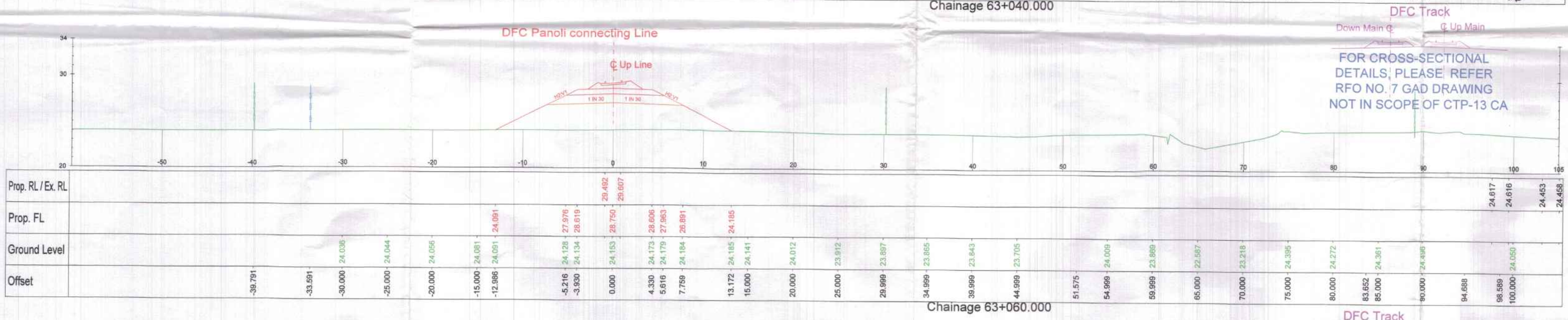
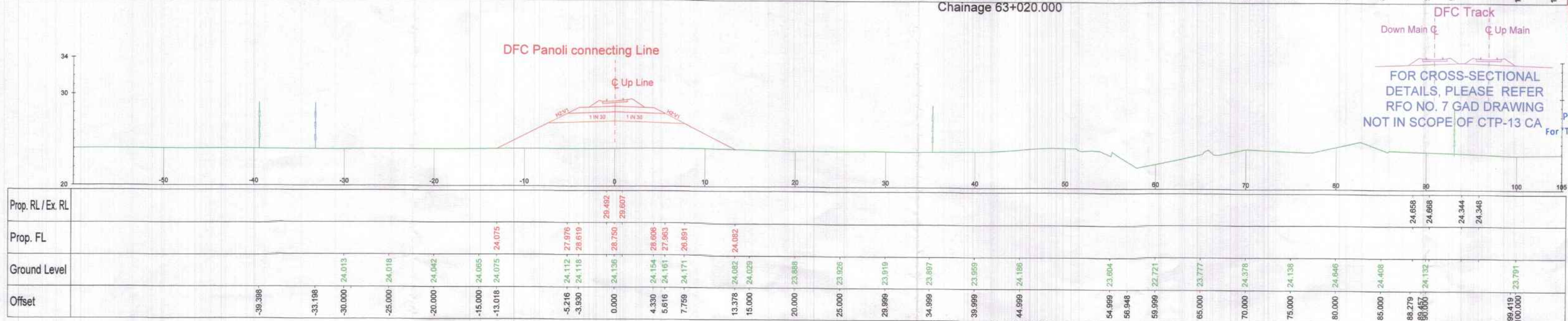
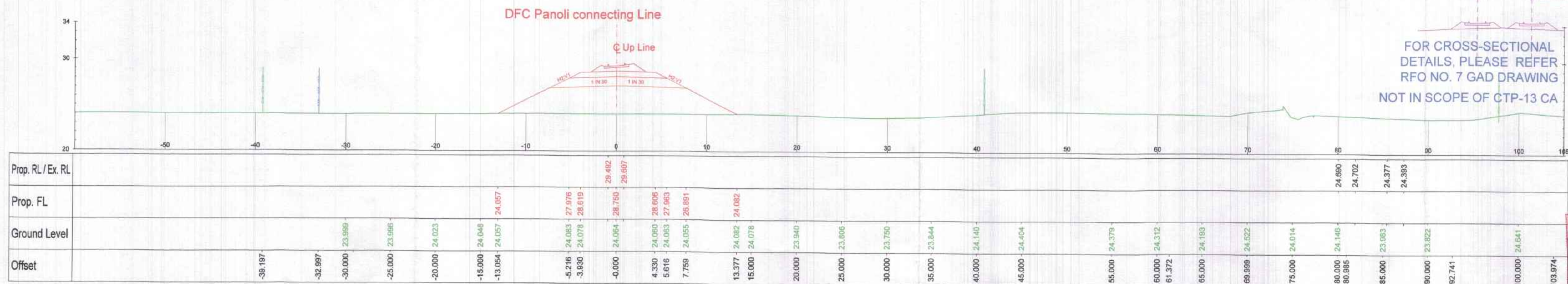
CONTRACTOR: EXPRESS FREIGHT CONSORTIUM

DESIGNER: STUP Consultants Pvt. Ltd.

TITLE: DETAILED CROSS SECTIONS FROM CH. 62+940 TO CH. 83+000

| JOB NO.  | 8309             | SIZE       | A1    | STATUS             |
|----------|------------------|------------|-------|--------------------|
| DRWN     | ACT              | PROJECTION |       | ID: (INCEPTION)    |
| DSGN     | SRG              |            |       | TD: (TECHNICAL)    |
| CHKD     | SRP              |            |       | CD: (CONSTRUCTION) |
| APPD     | SRP              |            |       | BD: (AS BUILT)     |
| DRG. NO. | 13/AL/DG/0198-CD | SCALE      | 1:250 | DATE: 08-JUL-2019  |
| REV      | 3                |            |       |                    |





- 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 (IE ADJACENT TO IR TRACK).
  5. DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 3/AL/DG/0081E TO 0078E (NONOC RECEIVED VIDE LETTER 'L' NO. LOCCG/DFCC/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 13.88M VIDE ENGINEER LETTER NO. LOCCG/DFCC/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 CTP-13 CHAINAGE 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.
- PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/EAM CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/GE/DD/0762 ... 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 DFC 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                                            | BY  | CHKD | APPD |
|----|-----------|-----------------------------------------------------|-----|------|------|
| 1  | 08-JUL-19 | ISSUE FOR CONSTRUCTION                              | ACT | SRG  | SRP  |
| 2  | 28-AUG-19 | REVISD ALP/IR/CTP-13/1906/25094 (DATED 08-AUG-2019) | ACT | SRG  | SRP  |
| 3  | 28-NOV-19 | REVISD ALP/IR/CTP-13/1906/25094 (DATED 28-NOV-2019) | ACT | SRG  | SRP  |

PROJECT: WESTERN DEDICATED FREIGHT CORRIDOR

ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13

PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANALI (DFC)

ORGANIZATION: SEAL & SIGN

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC: PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM

DCG CONSORTIUM

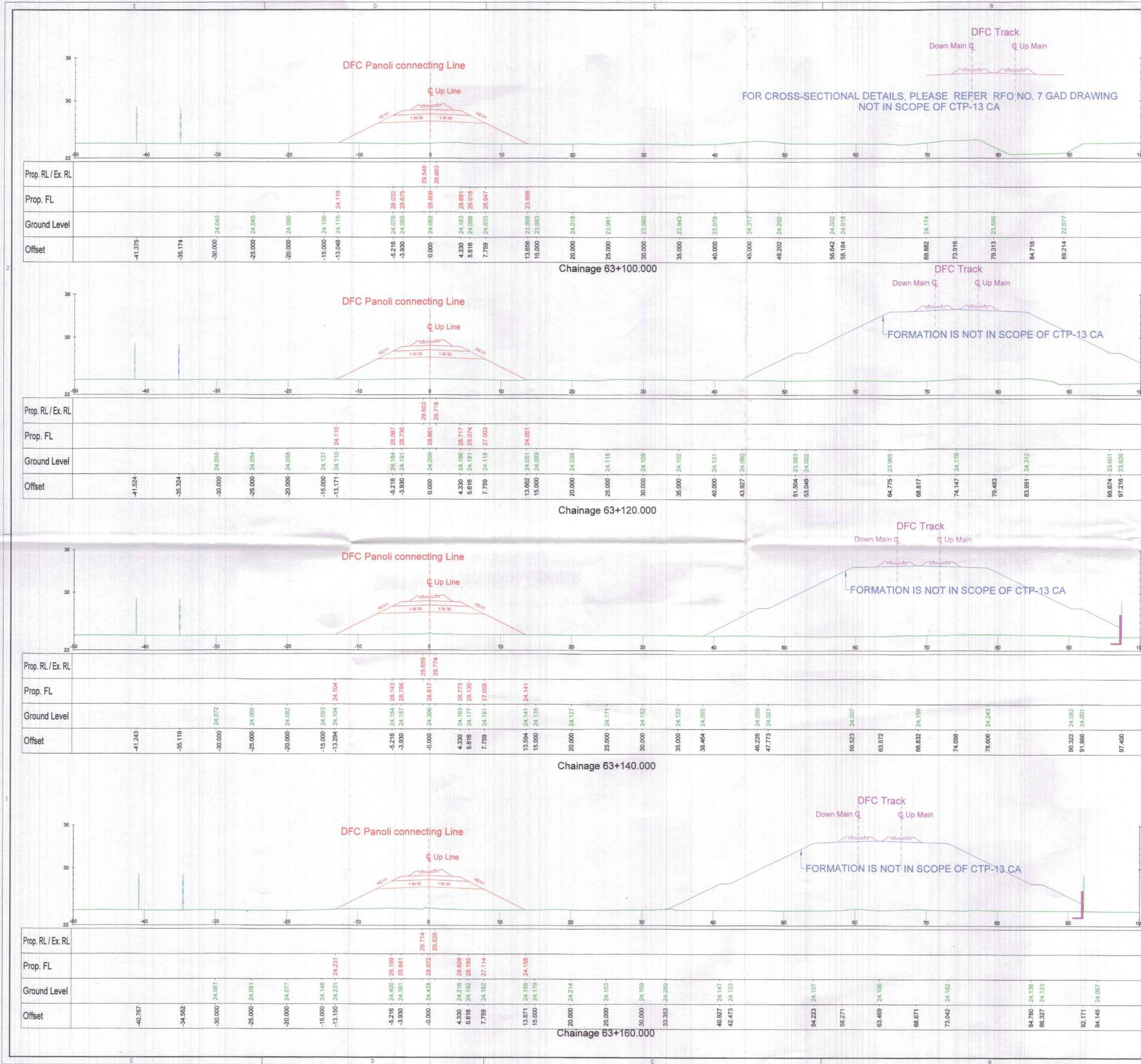
CONTRACTOR: EXPRESS FREIGHT CONSORTIUM

DESIGNER: STUP Consultants Pvt. Ltd.

TITLE: DETAILED CROSS SECTIONS FROM CH. 63+020 TO CH. 63+080

| JOB NO:  | 8309             | SIZE: | A1                 | STATUS:         |
|----------|------------------|-------|--------------------|-----------------|
| DRWN     | ACT              | SIGN  | PROJECTION         | ID: (INCEPTION) |
| DSGN     | SRG              | SRP   | TD: (TECHNICAL)    |                 |
| CHKD     | SRG              | SRP   | CD: (CONSTRUCTION) |                 |
| APPD     | SRG              | SRP   | BD: (AS BUILT)     |                 |
| SCALE:   | 1:250            | DATE: | 08-JUL-2019        |                 |
| DRG. NO: | 13/AL/DG/0199-CD | REV-3 |                    |                 |





FOR CROSS-SECTIONAL DETAILS, PLEASE REFER R/O NO. 7 GAD DRAWING NOT IN SCOPE OF CTP-13 CA

FORMATION IS NOT IN SCOPE OF CTP-13 CA

FORMATION IS NOT IN SCOPE OF CTP-13 CA

FORMATION IS NOT IN SCOPE OF CTP-13 CA

PMC-2R OGC-OCI-NK-NKI-RITES  
Substantive May 10, Ref No.   
Engineer's Response  
Checked: P.P. Approved:   
Reviewed:   
Authorized signature:   
Date: 07-01-2019  
Alignment Engineer  
PMC-2R (OCG Consortium)  
For 'The Engineer' for WDFC Phase-2

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

N. Kulkarni  
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 (E ADJACENT TO IR TRACK).
- DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER 1 NO. L/OCCG/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/OCCG/DFCC/CTP-13/1702/2913 (DATED 23-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 SATELLITE 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/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 DFC 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-16 | REVISED AS PER PMC COMMENTS (NO. L/OCCG/DFCC/CTP-13/1906/25094 DATED 14-NOV-2016) | ACT   | SRG      | SRP     | SRP      |
| 2   | 28-AUG-16 | REVISED AS PER PMC COMMENTS (NO. L/OCCG/DFCC/CTP-13/1906/25094 DATED 28-AUG-2016) | ACT   | SRG      | SRP     | SRP      |
| 1   | 08-JUL-16 | ISSUE FOR CONSTRUCTION                                                            | ACT   | SRG      | SRP     | 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, LTD. IRCTC TATA

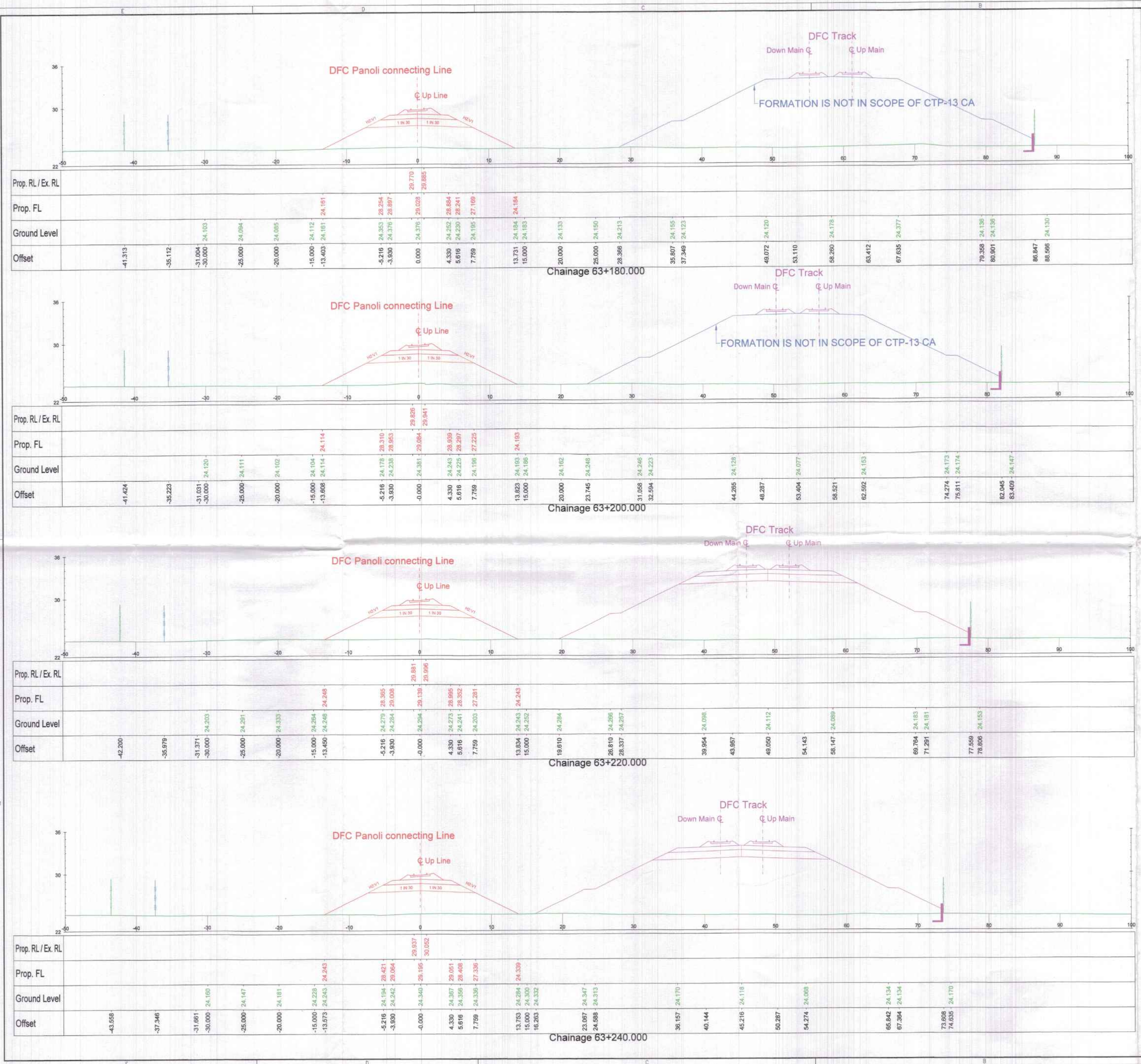
DESIGNER  
STUP Consultants Pvt. Ltd.

TITLE  
DETAILED CROSS SECTIONS  
FROM CH. 63+100 TO CH. 63+160

| JOB NO. | 8309 | SIZE | A1  | STATUS             |
|---------|------|------|-----|--------------------|
| NAME    | IGN  | IGN  | IGN | ID: (INCEPTION)    |
| PROJ    | ACT  | ACT  | ACT | ID: (TECHNICAL)    |
| DESIGN  | SRG  | SRG  | SRG | CD: (CONSTRUCTION) |
| CHKD    | SRP  | SRP  | SRP | BD: (AS BUILT)     |
| APPRD   | SRP  | SRP  | SRP | DATE: 08-JUL-2019  |

DRG. NO. 13/AL/DG/0200-CD REV-3





PMC-2R OGC-OCI-NK-NKI-RITES  
Engineer's Response  
Checked P.P. [Signature]  
Reviewed [Signature]  
Approved [Signature]  
(NAVEEN CHOPRA)  
Alignment Engineer  
PMC-2R (OGC Consortium)  
For 'The Engineer' for WDFC Phase-2

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

N. RAMESH K. RAJU  
Chief Design Engineer



C.S.K. Parthuk

**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/OGC/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/OGC/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/EAM CABLES AS PER CONTRACT REQUIREMENT.

**REFERENCE TO DRAWINGS: (LATEST REVISION)**

13/STDG/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. 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

| NO. | DATE      | REVISION                                                                           | DRAWN | DESIGNED | CHECKED | APPROVED |
|-----|-----------|------------------------------------------------------------------------------------|-------|----------|---------|----------|
| 3   | 28-NOV-18 | REVISED AS PER PMC COMMENTS NO. L/OGC/DFCC/CMT/CTP-13/1906/25094 DATED 14-NOV-2018 | ASR   | SRG      | SKP     | SKP      |
| 2   | 28-AUG-18 | REVISED AS PER PMC COMMENTS NO. L/OGC/DFCC/CMT/CTP-13/1702/2913 DATED 28-AUG-2018  | ASR   | SRG      | SKP     | SKP      |
| 1   | 28-JUL-18 | 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 SANALI (DFC)

ORGANIZATION: SEAL & SIGN

EMPLOYER: DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC: PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM  
OGC - OGI - NK - NKI - RITES

CONTRACTOR: EXPRESS FREIGHT CONSORTIUM  
MITTAL & CO. LTD. [Logos]

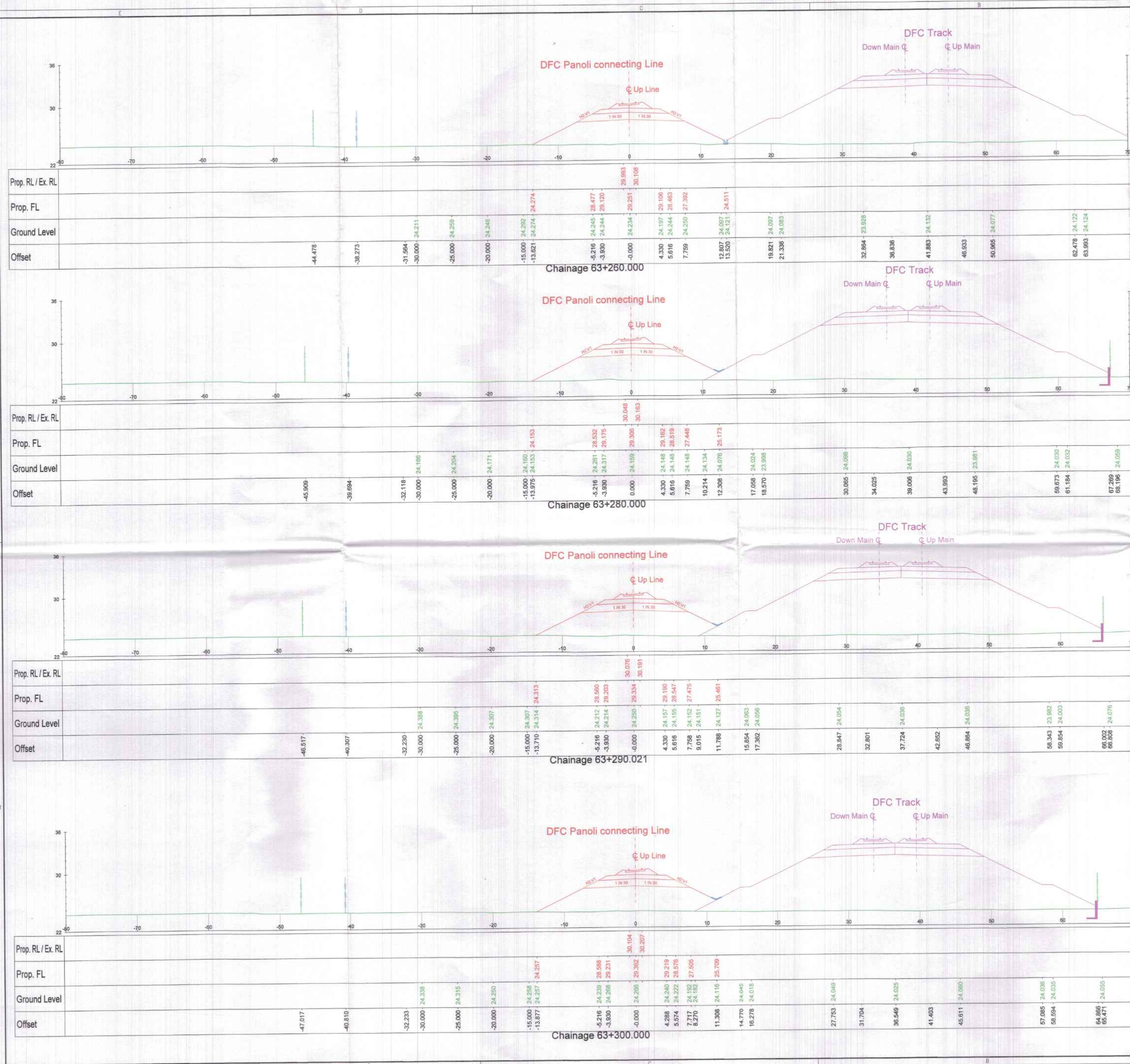
DESIGNER: STUP Consultants Pvt. Ltd.

TITLE: DETAILED CROSS SECTIONS FROM CH. 63+180 TO CH. 63+240

| JOB NO.  | 8309             | SIZE  | A1         | STATUS             |
|----------|------------------|-------|------------|--------------------|
| DRWN     | NAME             | SIGN  | PROJECTION | ID: (INCEPTION)    |
| DSGN     | ACT              | SRG   | ✓          | TD: (TECHNICAL)    |
| CHKD     | SKP              | ✓     | ✓          | CD: (CONSTRUCTION) |
| APPD     | SKP              | ✓     | ✓          | BD: (AS BUILT)     |
| DRG. NO. | 13/AL/DG/0201-CD | SCALE | 1:250      | DATE: 08-JUL-2019  |
| REV      | 3                |       |            |                    |

13-AL-020201/193.dwg





PMC-2R OCG-OCI-NK-NKI-RITES  
Submitted by: [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  
WDFCCL - CTP-13  
Contractor's Representative: [Signature]  
Date: [Blank]

N. R. MAKRISHNA RAJU  
Chief Design Engineer

STUP CONSULTANTS PVT. LTD.  
PLOT NO. 22-A  
SECTOR-19-C  
PALM BEACH MARG  
VASHI,  
TEL. 49847777  
New Mumbai 400709

**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/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 13.85M 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 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. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
- PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T 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 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/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 CFC 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                                                                       | ACT | SRG | SKP | EXP |
|-----|-----------|--------------------------------------------------------------------------------|-----|-----|-----|-----|
| 3   | 26-AUG-18 | REVISED AS PER PMCC COMMENTS NO. L/OCG/DFCC/CTP-13/1906/25094 DATED 14-08-2018 | ACT | SRG | SKP | EXP |
| 2   | 26-AUG-18 | REVISED AS PER PMCC COMMENTS NO. L/OCG/DFCC/CTP-13/1906/25094 DATED 14-08-2018 | ACT | SRG | SKP | EXP |
| 1   | 26-JUL-18 | ISSUE FOR CONSTRUCTION                                                         | ACT | SRG | SKP | EXP |

**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

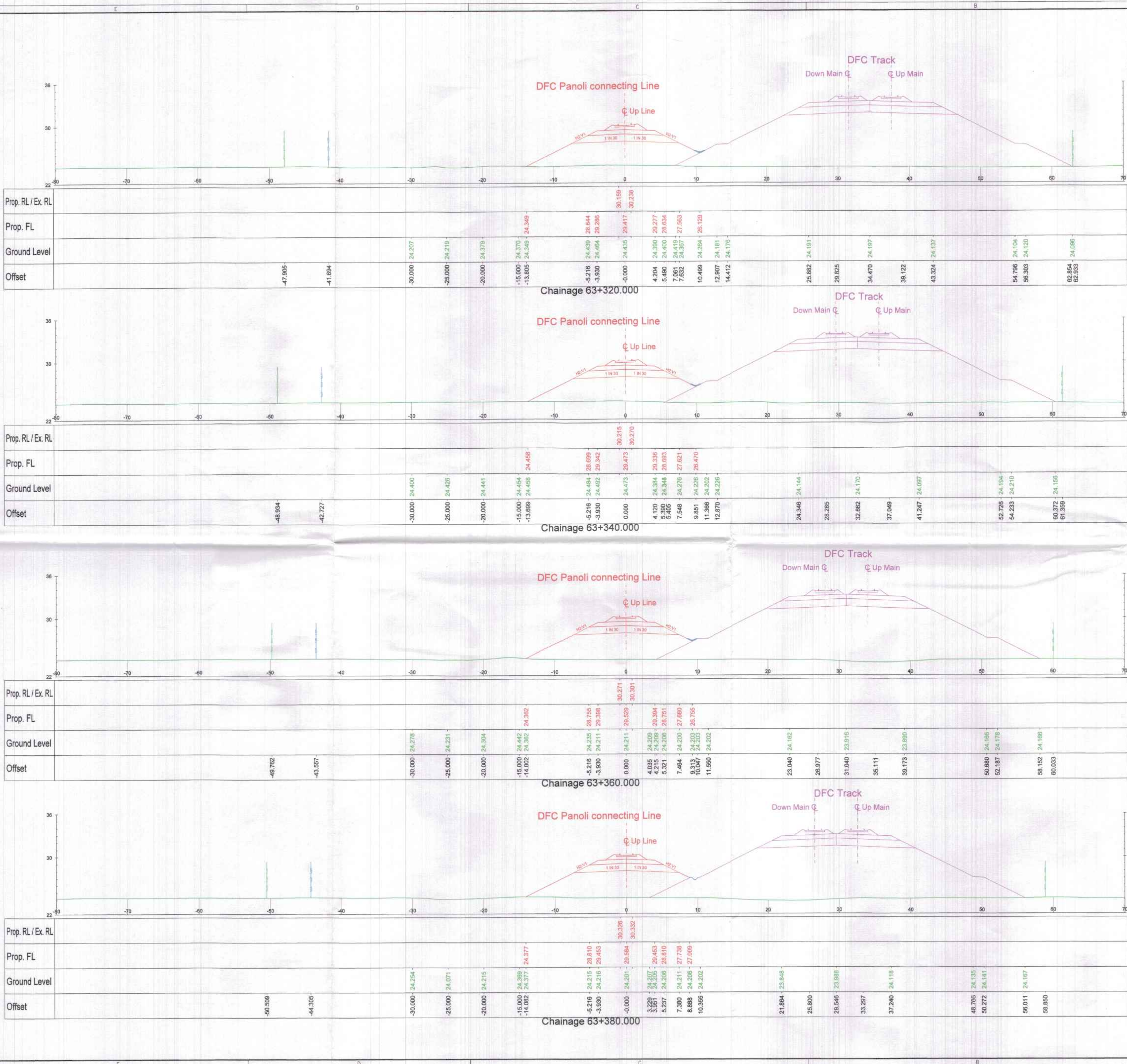
**CONTRACTOR:** EXPRESS FREIGHT CONSORTIUM  
ARTISUR LLC LTD. IFCM TATA

**DESIGNER:** STUP Consultants Pvt. Ltd.

**TITLE:** DETAILED CROSS SECTIONS FROM CH. 63+260 TO CH. 64+300

| JOB NO.  | 8306             | SIZE               | A1 | STATUS |
|----------|------------------|--------------------|----|--------|
| NAME     | PROJECTION       | ID: (INCEPTION)    |    |        |
| DRWN     | ACT              | TD: (TECHNICAL)    |    |        |
| DSGN     | SRG              | CD: (CONSTRUCTION) |    |        |
| CHKD     | SKP              | BD: (AS BUILT)     |    |        |
| APPD     | SKP              | DATE: 08-JUL-2019  |    |        |
| DRG. NO. | 13/AL/DG/0202-CD | REV-3              |    |        |





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

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

N. RAMAKRISHNA RAJU  
Chief Design Engineer

STUP CONSULTANTS PVT. LTD.  
PLOT NO. 22-A  
SECTOR-19-C  
PALM BEACH MARG,  
MAHARASHTRA  
TEL. 49887777  
[Signature]  
(S.K. Pothuk)

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/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 CTG 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/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/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

| NO. | DATE      | REVISION                                                                      | BY  | CHKD | DESIGN | CHECKED | APPROVED |
|-----|-----------|-------------------------------------------------------------------------------|-----|------|--------|---------|----------|
| 3   | 26-NOV-18 | REVISED AS PER PMO COMMENTS AND L/OCG/DFCC/CTP-13/1906/25094 DATED 14-05-2019 | ACT | SRG  | SKP    | SKP     | SKP      |
| 2   | 26-AUG-18 | REVISED AS PER PMO COMMENTS AND L/OCG/DFCC/CTP-13/1906/25094 DATED 14-05-2019 | ACT | SRG  | SKP    | SKP     | SKP      |
| 1   | 18-JUL-18 | ISSUE FOR CONSTRUCTION                                                        | ACT | SRG  | SKP    | 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 OCS - OCI - NK - RITES

CONTRACTOR: EXPRESS FREIGHT CONSORTIUM

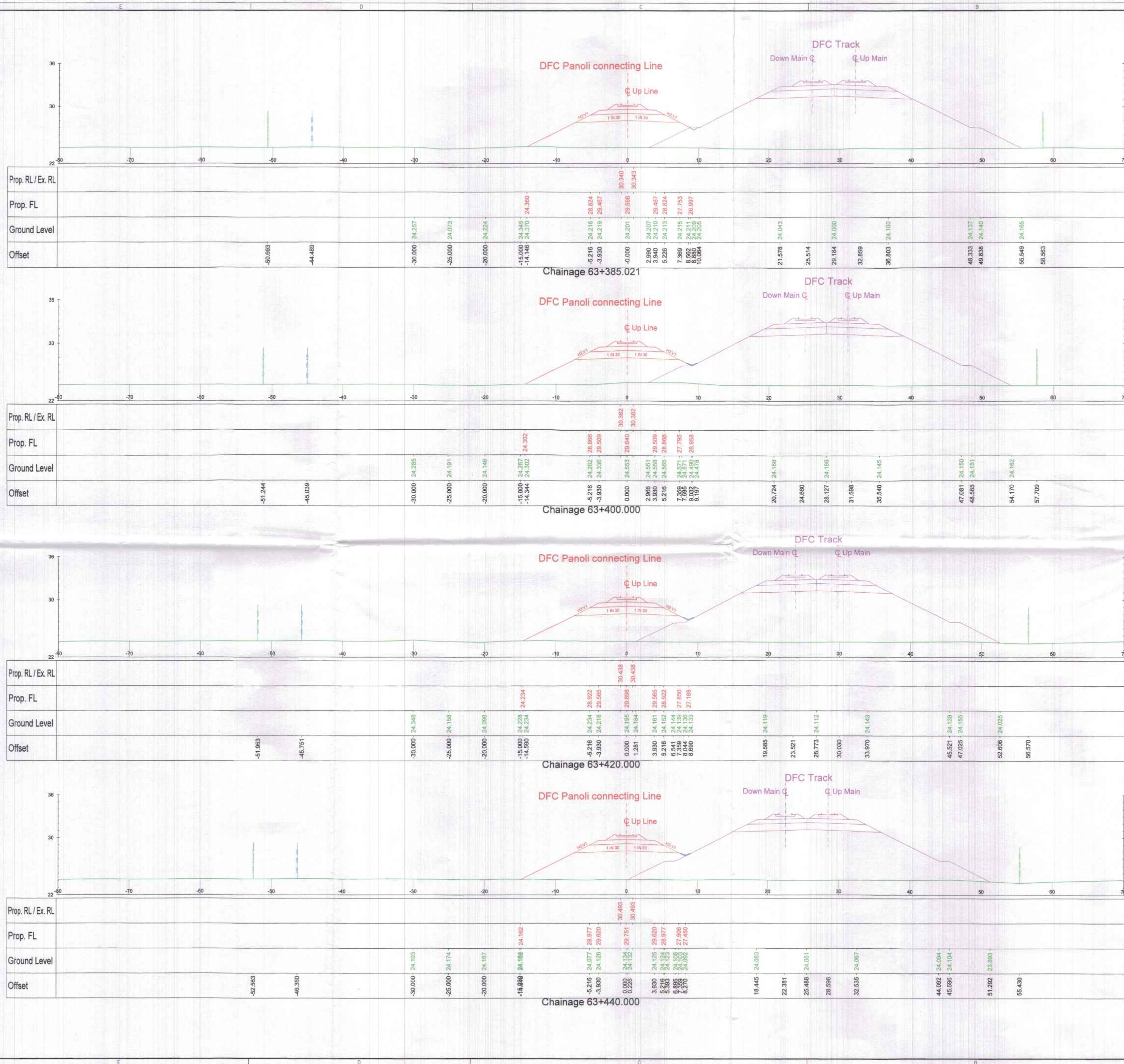
DESIGNER: STUP Consultants Pvt. Ltd.

TITLE: DETAILED CROSS SECTIONS FROM CH. 63+320 TO CH. 63+380

| JOB NO. | 8309 | SIZE       | STATUS             |
|---------|------|------------|--------------------|
| NAME    | ACT  | PROFESSION | ID: (INCEPTION)    |
| DRWN    | ACT  | PROFESSION | TD: (TECHNICAL)    |
| DSGN    | SRG  | ✓          | CD: (CONSTRUCTION) |
| CHKD    | SKP  | ✓          | BD: (AS BUILT)     |
| APPD    | SKP  | ✓          | DATE: 08-JUL-2019  |

DRG. NO. 13/AL/DG/0203-CD REV-3





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

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

N. RAMAKRISHNA RAJU  
Chief Design Engineer

STUP CONSULTANTS PVT. LTD.  
LOT NO. 22-A  
SECTOR-19-C  
PALM BEACH MARG,  
VASHI  
TEL.-40887771  
Fax-40887772  
Mobile-9820040078  
[Signature]  
(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 (IE ADJACENT TO R TRACK).
- DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0081E TO 0078E (NONOC RECEIVED VIDEO LETTER NO. - L0000/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 13.88M VIDEO ENGINEER LETTER NO. - L0000/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.
- TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
- PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF 8x7TEAM 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:**

THE CROSS-SECTION OF DFC UP/ DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE DFC 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                                                                        | BY  | CHKD | APPD | DESIGNED | CHECKED | APPROVED |
|-----|-----------|---------------------------------------------------------------------------------|-----|------|------|----------|---------|----------|
| 1   | 06-JUL-18 | ISSUE FOR CONSTRUCTION                                                          | ACT | SRG  | SRP  | SRP      | SRP     | SRP      |
| 2   | 26-AUG-18 | REVISD AS PER PMC COMMENTS, NO. L0000/DFCC/CTP-13/1906/25094 (DATED 04-06-2019) | ACT | SRG  | SRP  | SRP      | SRP     | SRP      |
| 3   | 26-AUG-18 | REVISD AS PER PMC COMMENTS, NO. L0000/DFCC/CTP-13/1906/25094 (DATED 04-06-2019) | ACT | SRG  | SRP  | SRP      | SRP     | SRP      |

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  
AIRTELCELL LTD, IRCON, TATA

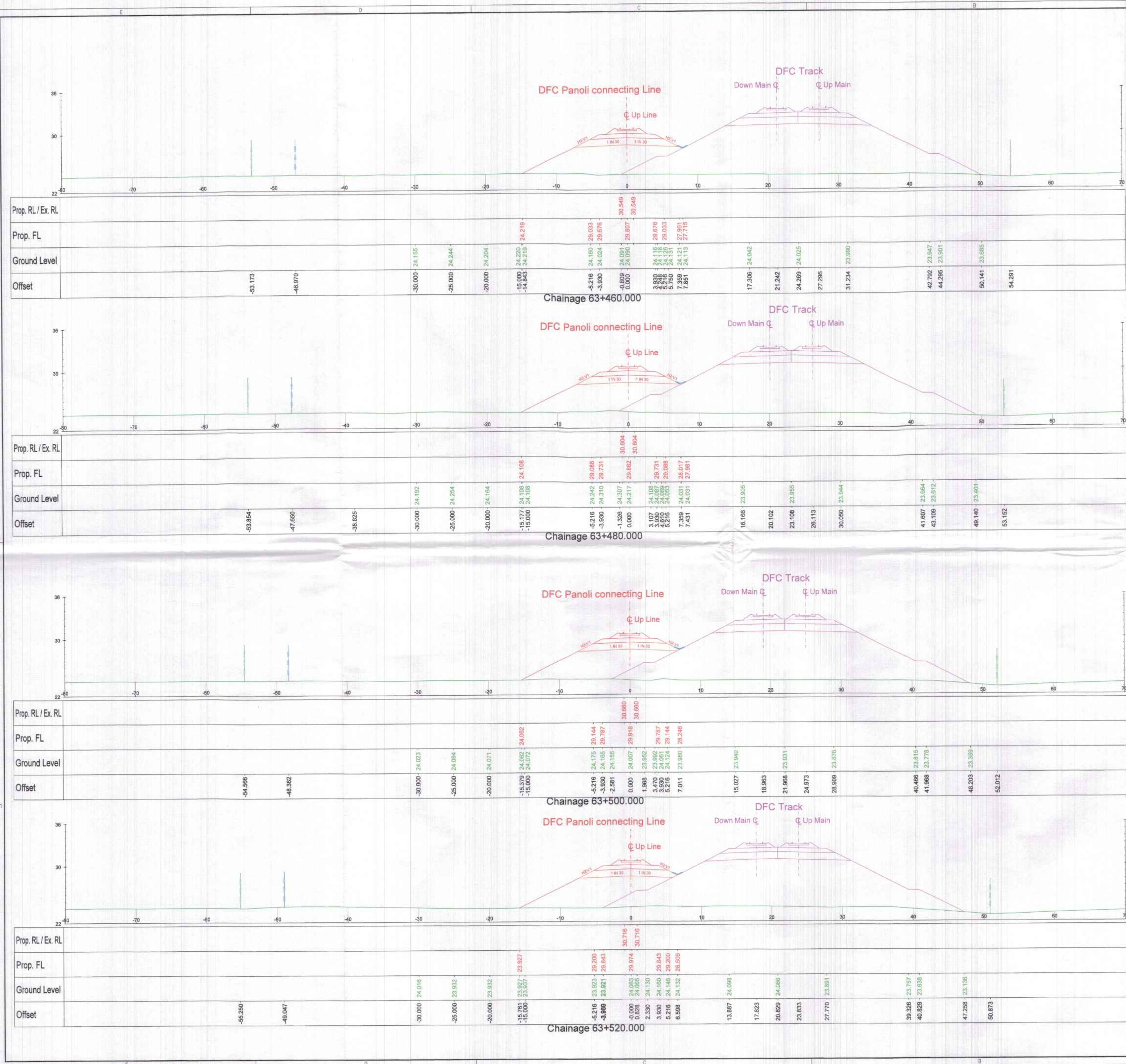
DESIGNER: STUP Consultants Pvt. Ltd.

TITLE: DETAILED CROSS SECTIONS FROM CH. 63+385.021 TO CH. 63+440

| JOB NO: 8309 | NAME | SIGN        | PROJECTION  | STATUS             |                 |
|--------------|------|-------------|-------------|--------------------|-----------------|
|              |      |             |             | AT                 | TD: (TECHNICAL) |
| DRWN         | ACT  | [Signature] | [Signature] | CD: (CONSTRUCTION) | BD: (AS BUILT)  |
| DSGN         | SRG  | [Signature] | [Signature] | DATE: 08-JUL-2019  |                 |
| CHKD         | SRP  | [Signature] | [Signature] | SCALE: 1:250       |                 |
| APPD         | SRP  | [Signature] | [Signature] | DATE: 08-JUL-2019  |                 |

DRG. NO. 13/AL/DG/0204-CD REV-3





PMC-2R  
OCC-OCI-NK-  
RKI-RITES  
Engineer's Response  
Name: P.P. Signature: [Signature]  
Checked: P.P. Reviewed: [Signature]  
Authorized 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: [Date]

N. RAVAKRISHNA RAJU  
Chief Design Engineer

STUP CONSULTANTS PVT. LTD.  
PLOT NO. 22-A  
SECTOR-19-C  
PALM BEACH MARG,  
VASHTI,  
TEL. 43887771  
Near Mumbai 400750

924  
C.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 (IE 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 13.86M VIDE ENGINEER LETTER NO. L/OCGC/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 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/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 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                                                                        | OWN | DESIGNED | CHECKED | APPROVED |
|-----|-----------|---------------------------------------------------------------------------------|-----|----------|---------|----------|
| 3   | 15-AUG-19 | REVISED AS PER PMC COMMENT NO. L/OCGC/DFCC/CTP-13/1906/25094 (DATED 14-07-2019) | ACT | SRG      | SKP     | 1/1      |
| 2   | 28-AUG-19 | REVISED AS PER PMC COMMENT NO. L/OCGC/DFCC/CTP-13/1906/25094 (DATED 28-08-2019) | ACT | SRG      | SKP     | 1/1      |
| 1   | 19-JUL-19 | ISSUE FOR CONSTRUCTION                                                          | ACT | SRG      | SKP     | 1/1      |

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 - RKI - RITES

CONTRACTOR: EXPRESS FREIGHT CONSORTIUM  
MITSUBISHI & CO., LTD. IRON MOUNTAIN TATA

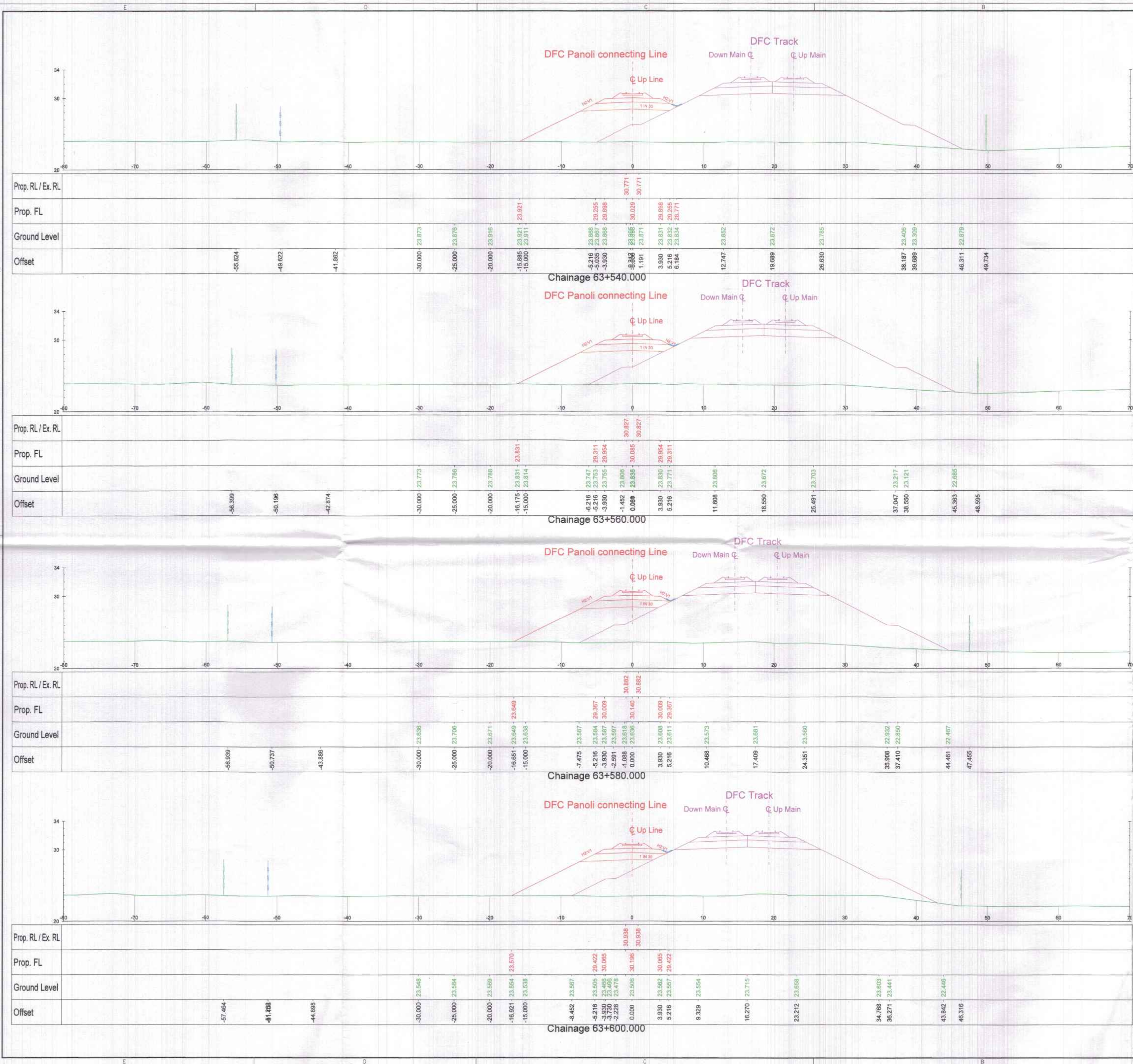
DESIGNER: STUP Consultants Pvt. Ltd.

TITLE: DETAILED CROSS SECTIONS FROM CH. 64+460 TO CH. 63+520

| JOB NO: 8309 |      | SIZE: A1   | STATUS             |  |
|--------------|------|------------|--------------------|--|
| NAME         | SIGN | PROJECTION | ID: (INCEPTION)    |  |
| DRWN         | ACT  | 1/1        | TO: (TECHNICAL)    |  |
| DSGN         | SRG  | 1/1        | CO: (CONSTRUCTION) |  |
| CHKD         | SKP  | 1/1        | BO: (AS BUILT)     |  |
| APPD         | SKP  | 1/1        | DATE: 08-JUL-2019  |  |

DRG. NO. 13/AL/DG/0205-CD REV-3





PMC-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

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: 40887717  
New Mumbai 400095

**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 1 NO. LOCGC/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. - LOCGC/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 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. 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/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

**REVISIONS:**

| NO. | DATE      | REVISION                                  | OWN | DESIGN | CHECK | APPROVED |
|-----|-----------|-------------------------------------------|-----|--------|-------|----------|
| 3   | 30-NOV-19 | REVISED AS PER COMMENTS DATED 14-OCT-2019 | ACT | BRG    | SKP   | SKP      |
| 2   | 30-AUG-19 | REVISED AS PER COMMENTS DATED 28-AUG-2019 | ACT | BRG    | SKP   | SKP      |
| 1   | 30-JUL-19 | ISSUE FOR CONSTRUCTION                    | ACT | BRG    | SKP   | SKP      |

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

**EMPLOYER:** DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

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

**CONTRACTOR:** EXPRESS FREIGHT CONSORTIUM  
APTEL R&E, LTD. TATA

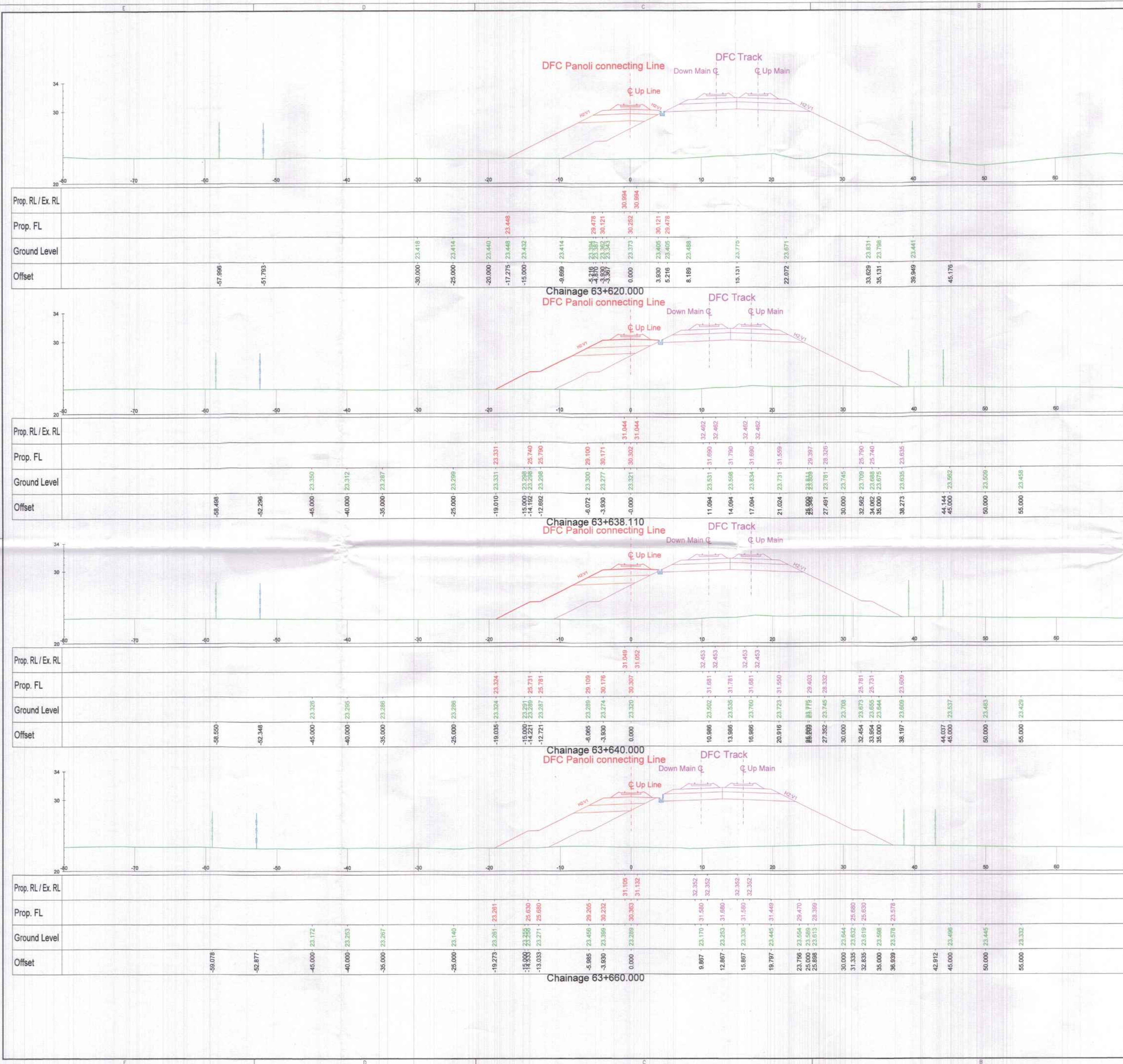
**DESIGNER:** STUP Consultants Pvt. Ltd.

**TITLE:** DETAILED CROSS SECTIONS FROM CH. 63+540 TO CH. 64+600

| JOB NO: 8309 |      | SIZE: A1    | STATUS          |                 |
|--------------|------|-------------|-----------------|-----------------|
| NAME         | SIGN | PROJECTION  | ID: (INCEPTION) | TD: (TECHNICAL) |
| DRWN         | ACT  | [Signature] |                 |                 |
| DSGN         | BRG  | [Signature] |                 |                 |
| CHKD         | SKP  | [Signature] |                 |                 |
| APPD         | SKP  | [Signature] |                 |                 |

SCALE: 1:250  
DATE: 08-JUL-2019  
REV-3





|                     |                     |
|---------------------|---------------------|
| PMC-2R              | OCG-OCI-NK          |
| Submittal No.       | Submittal No.       |
| Rev.                | Rev.                |
| Engineer's Response | Engineer's Response |
| Checked             | Checked             |
| Reviewed            | Reviewed            |
| Authorised          | Authorised          |
| Signature           | Signature           |
| Date                | Date                |

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

**NOTES:**

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- DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/001E 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 13.8M 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 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.
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- TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
- PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/EBM CABLES AS PER CONTRACT REQUIREMENT.

**REFERENCE TO DRAWINGS: (LATEST REVISION)**

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

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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 PROMISE**

**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. 63+620 TO CH. 63+660

| JOB NO. | 8309 | SIZE       | A1                 | STATUS |
|---------|------|------------|--------------------|--------|
| NAME    | ACT  | PROJECTION | INCEPTION          |        |
| DRWN    | ACT  | PROJECTION | TO: (TECHNICAL)    |        |
| DSGN    | SRG  | ✓          | CD: (CONSTRUCTION) |        |
| CHKD    | SKP  | ✓          | BD: (AS BUILT)     |        |
| APPD    | SKP  | ✓          | DATE: 08-JUL-2019  |        |

DRG. NO. 13/AL/DG/0207-CD REV-3