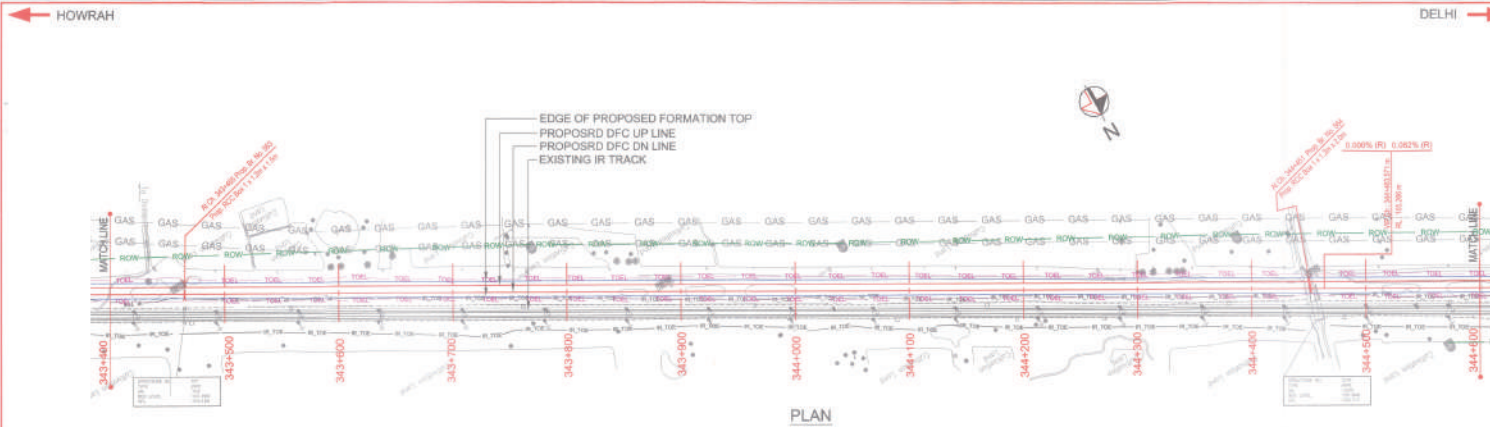
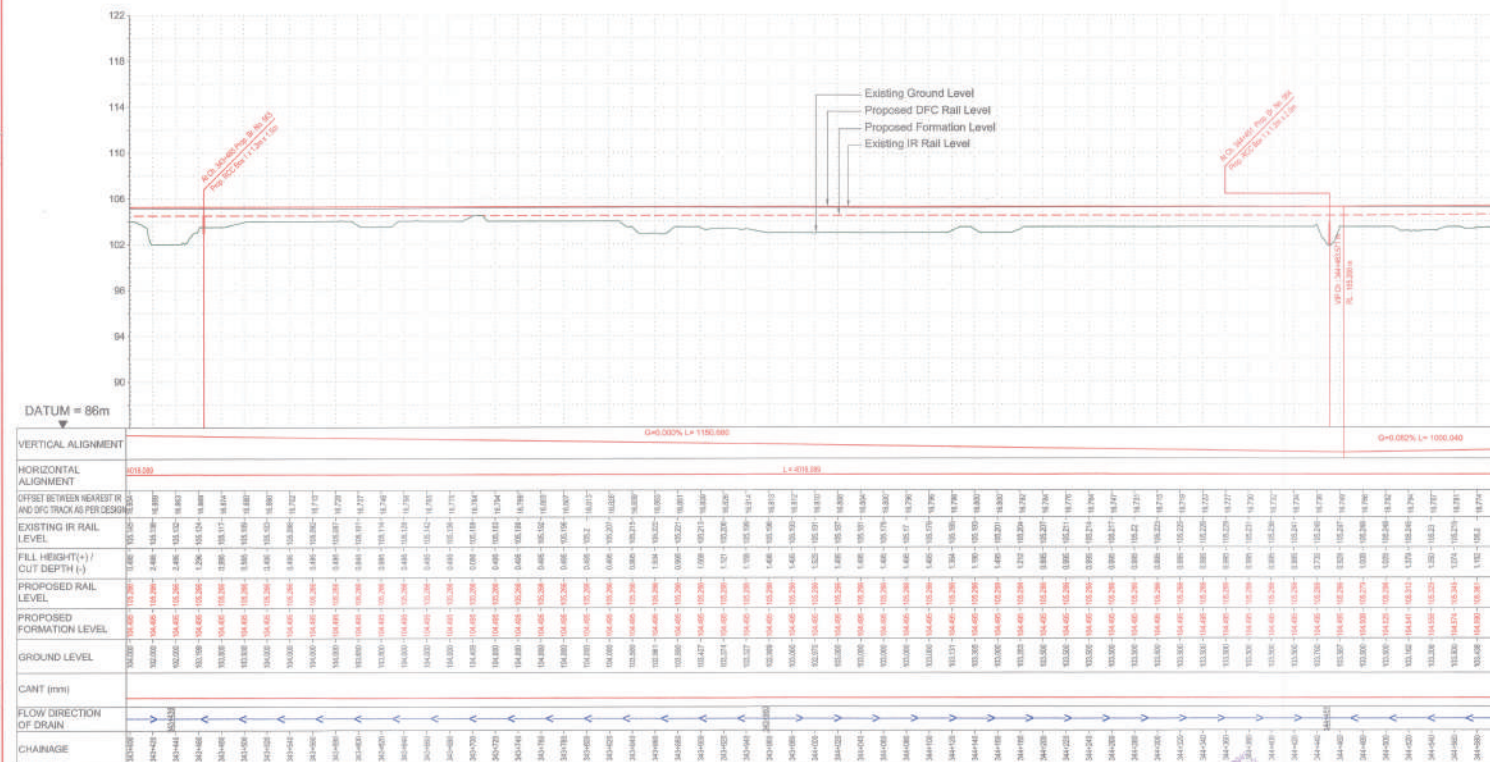




PLAN



PROFILE

LEGEND :

|       |                                  |
|-------|----------------------------------|
| —     | EXISTING IR TRACK                |
| - - - | PROPOSED DFC TRACK               |
| - - - | PROPOSED FORMATION               |
| - - - | DFCC ROW LINE                    |
| - - - | IR TOE                           |
| - - - | EXISTING IR TOE LINE             |
| - - - | DFCC TOE LINE FOR EMB HT < 6.0M  |
| →     | FLOW DIRECTION OF PROPOSED DRAIN |
| - - - | EDGE OF PROPOSED FORMATION TOP   |
| - - - | EXISTING GROUND                  |

- NOTES :
1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
  2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
  3. TOP WIDTH OF EMBANKMENT / FORMATION IS 10.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
  4. EMBANKMENT AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWNLINE.
  5. EQUILIBRIUM SPEED HAS BEEN TAKEN AS 160KPH.
  6. TRACK CENTER BETWEEN DFC & EXISTING IR TRACK HAS BEEN KEPT AT MIN. 1.0M AT STRAIGHT SECTION.
  7. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AT MIN. 6.0M AT STRAIGHT SECTION.
  8. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
  9. DRAINAGE FLOW DIAGRAM SHOWN IN PLAN & PROFILE ARE INDICATIVE.
  10. HOWEVER DETAIL DRAINAGE SYSTEM DRAWINGS WILL BE SUBMITTED SEPARATELY.
  11. DFC CABLE FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
  12. AT THE LOCATIONS WHERE EMBANKMENT HEIGHT IS < 1.0M IT IS PROPOSED TO MAINTAIN THE EMBANKMENT HEIGHT AS 1.0M BY CUTTING THE EARTH.
  13. TROLLEY REFUGE SHALL BE PROVIDED ALONG THE ALIGNMENT AS PER CONTRACT.
  14. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

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

PROJECT :  
**EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 202)**

TITLE :  
**ALIGNMENT PLAN AND PROFILE OF SLICE - 202 B**  
 FROM CH. 343+400 TO CH. 344+600

| DRAWING NO. | REV | SCALE                    |
|-------------|-----|--------------------------|
| P 2 AL 0710 | G   | HOR : 1:2000 VER : 1:200 |

REVIEWS

| REV | DATE       | REMARKS                                                       |
|-----|------------|---------------------------------------------------------------|
| D   | 06.04.2017 | REVISION AS PER LETTER NO. PMS-EDFC/2017-01070 DT- 26.03.2017 |
| E   | 09.06.2017 | REVISION AS PER LETTER NO. PMS-EDFC/2017-02899 DT- 16.05.2017 |
| F   | 30.06.2017 | REVISION AS PER LETTER NO. PMS-EDFC/2017-04040 DT- 23.06.2017 |
| G   | 12.07.2017 | REVISION AS PER LETTER NO. PMS-EDFC/2017-03790 DT- 10.07.2017 |

DRAWING STAGE  
☒ FOR APPROVAL **Preliminary** **APPROVED**  
☐ GOOD FOR CONSTRUCTION

PAC :  
 **SYSTRA - Mott MacDonald JV**

CONTRACTOR :  
 **GIL - SIL JV**

DESIGN CONSULTANT:  
 **STUP Consultants Pvt. Ltd.**

| DATE       | NAME       | SIGN                                                                                  |
|------------|------------|---------------------------------------------------------------------------------------|
| 24.04.2017 | ABHJIT DAS |  |

| DATE       | NAME              | SIGN                                                                                  |
|------------|-------------------|---------------------------------------------------------------------------------------|
| 24.04.2017 | BUDDHABIR PURKAIT |  |

| DATE       | NAME              | SIGN                                                                                  |
|------------|-------------------|---------------------------------------------------------------------------------------|
| 24.04.2017 | ANIL KUMAR MITTAL |  |

| DATE     | NAME        | SIGN                                                                                  |
|----------|-------------|---------------------------------------------------------------------------------------|
| 25.07.19 | REPAK GUPTA |  |

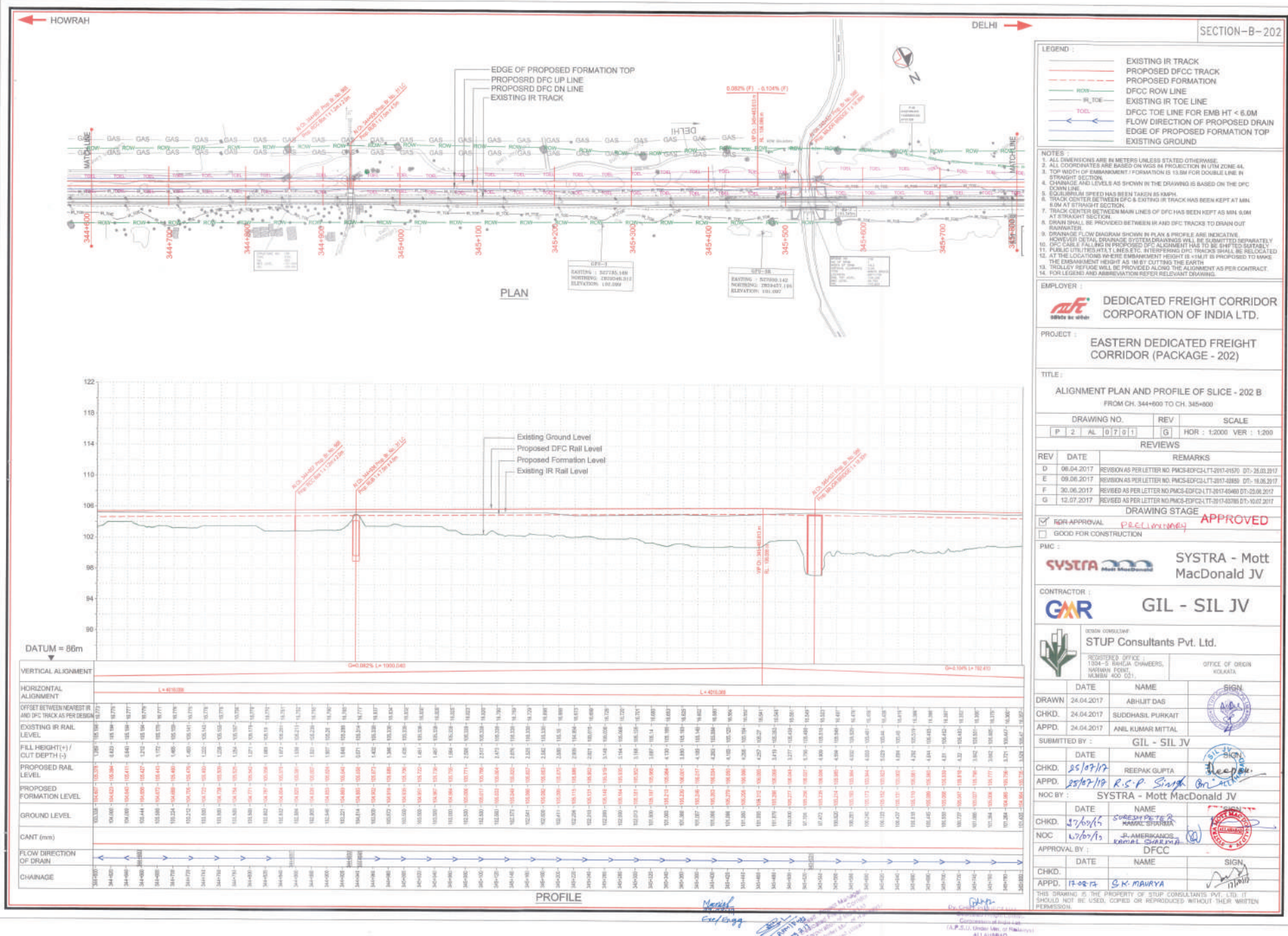
| DATE     | NAME         | SIGN                                                                                  |
|----------|--------------|---------------------------------------------------------------------------------------|
| 27.07.19 | R.S.P. Singh |  |

| DATE     | NAME          | SIGN                                                                                  |
|----------|---------------|---------------------------------------------------------------------------------------|
| 27.07.19 | P. AMERIKANOS |  |

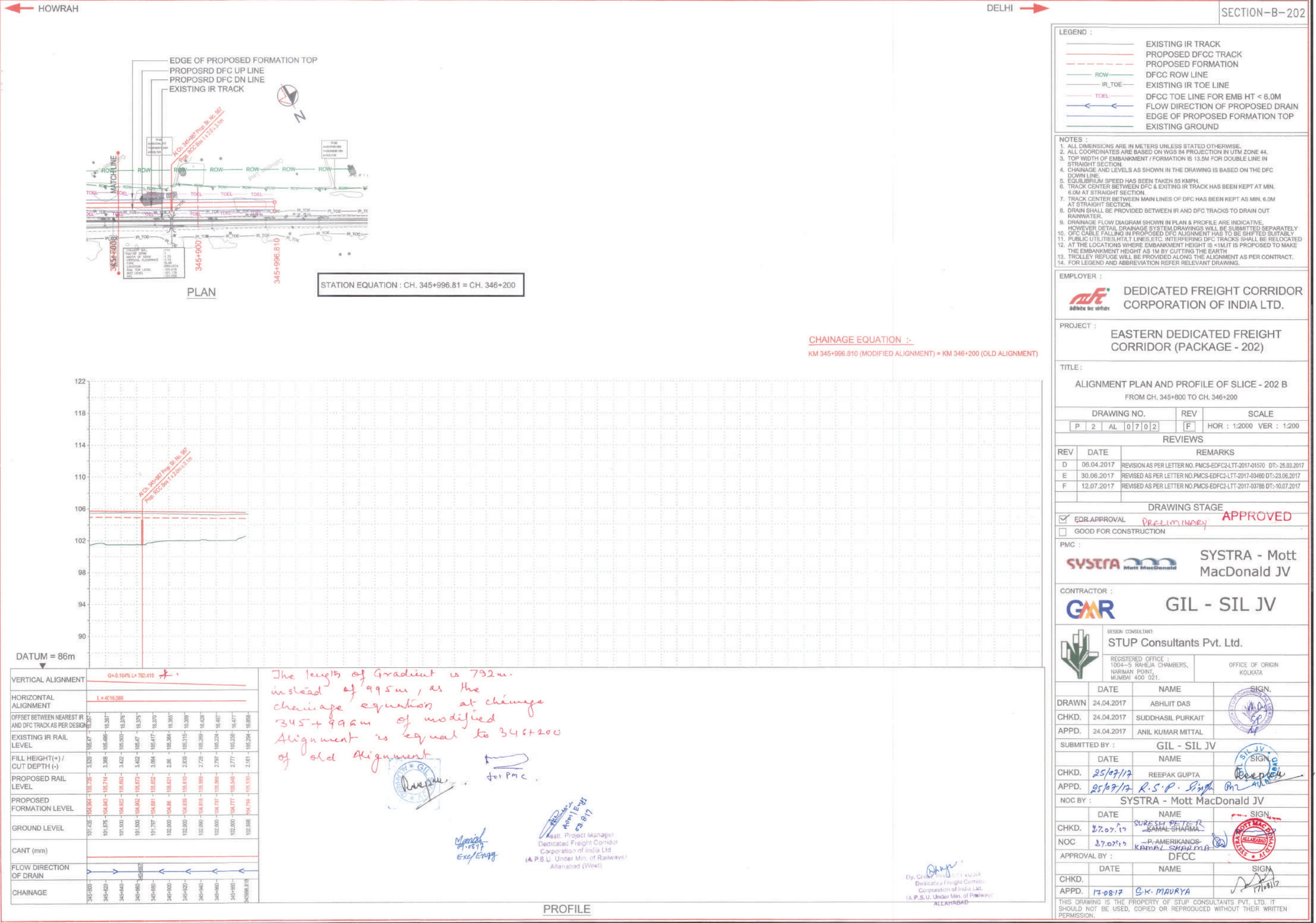
APPROVAL BY :  
**DFCC**  
 CHKD. **17-07-19** **G.K. MISHRA**  
 APPD. **17-07-19** **G.K. MISHRA**

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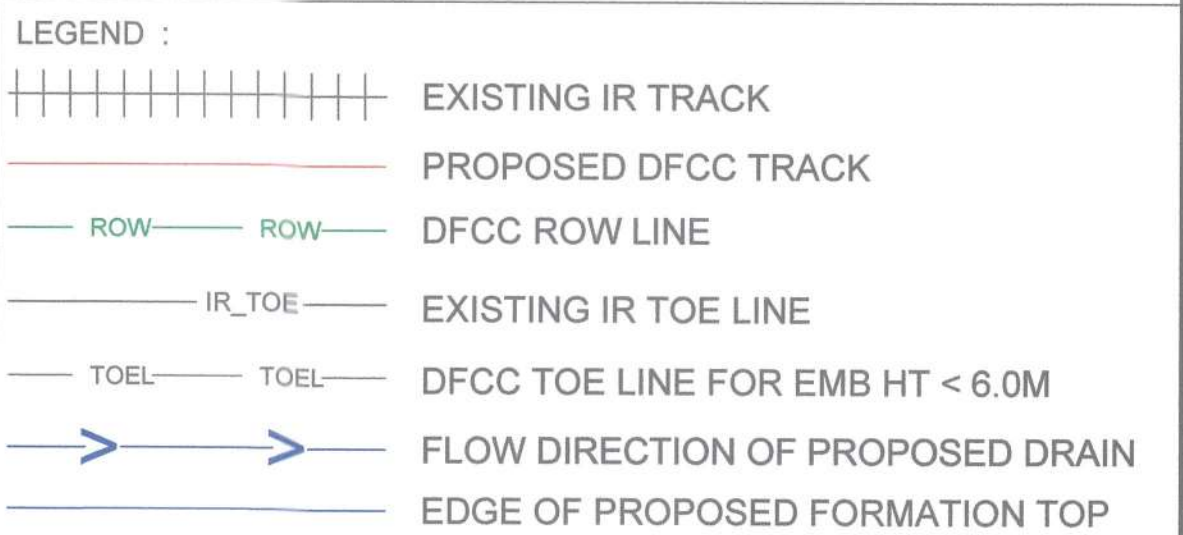












**NOTES :**

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF EMBANKMENT / FORMATION IS 13.5m FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHANAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0m AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. DRAINAGE FLOW DIAGRAM SHOWN IN PLAN & PROFILE ARE INDICATIVE, HOWEVER DETAIL DRAINAGE SYSTEM DRAWINGS WILL BE SUBMITTED SEPARATELY.
9. PUBLIC UTILITIES HT/LV LINES ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED.
10. AT THE LOCATIONS WHERE FORMATION HEIGHT IS  $< 1.75m$  IT IS PROPOSED TO MAKE THE FORMATION HEIGHT AS 1.75m BY CUTTING THE EARTH.
11. TROLLEY REFUGE WILL BE PROVIDED ALONG THE ALIGNMENT AS PER CONTRACT.
12. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :  DEDICATED FREIGHT CORRIDOR  
CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT  
CORRIDOR (PACKAGE - 202)

TITLE :

ALIGNMENT PLAN AND PROFILE OF SLICE - 202 B  
FROM CH. 346+200 TO CH. 346+800

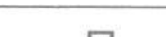
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| DRAWING NO. |   |    |   |   |   | REV | SCALE                         |
| P           | 2 | AL | 0 | 7 | 0 | 3   | K<br>HOR : 1:1000 VER : 1:100 |

| REVIEWS |            |                                                                                                                |
|---------|------------|----------------------------------------------------------------------------------------------------------------|
| REV     | DATE       | REMARKS                                                                                                        |
| G       | 14.06.2017 | REVISION AS PER LETTER NO. PMCS-EDFC2-LTT-2017-02659 DT- 19.05.2017                                            |
| H       | 30.06.2017 | REVISION AS PER LETTER NO. PMCS-EDFC2-LTT-2017-03460 DT- 23.06.2017                                            |
| J       | 12.07.2017 | REVISION AS PER LETTER NO. PMCS-EDFC2-LTT-2017-03785 DT- 10.07.2017                                            |
| K       | 08.12.2017 | REVISION AS PER MODIFICATION OF VENT SIZE FOR BRIDGE NO 569 HAS BEEN REDUCED TO 5.3 METER AS INSTRUCTED BY OMR |

| DRAWING STAGE                       |                       |
|-------------------------------------|-----------------------|
| <input checked="" type="checkbox"/> | FOR APPROVAL          |
| <input type="checkbox"/>            | GOOD FOR CONSTRUCTION |

PMC :  SYSTRA - Mott MacDonald JV

CONTRACTOR :  GIL - SIL JV

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

|       | DATE       | NAME              | SIGN.                                                                                 |
|-------|------------|-------------------|---------------------------------------------------------------------------------------|
| DRAWN | 08.12.2017 | SUSANTA ROY       |  |
| CHKD. | 08.12.2017 | SUDDHASIL PURKAIT |  |
| APPD. | 08.12.2017 | SANJIB MITRA      |  |

SUBMITTED BY : GIL - SIL JV

|       | DATE     | NAME         | SIGN.                                                                                 |
|-------|----------|--------------|---------------------------------------------------------------------------------------|
| CHKD. | 06.01.18 | REEPAK GUPTA |  |
| APPD. | 06.01.18 | R.S.P. Singh |  |

NOC BY : SYSTRA - Mott MacDonald JV

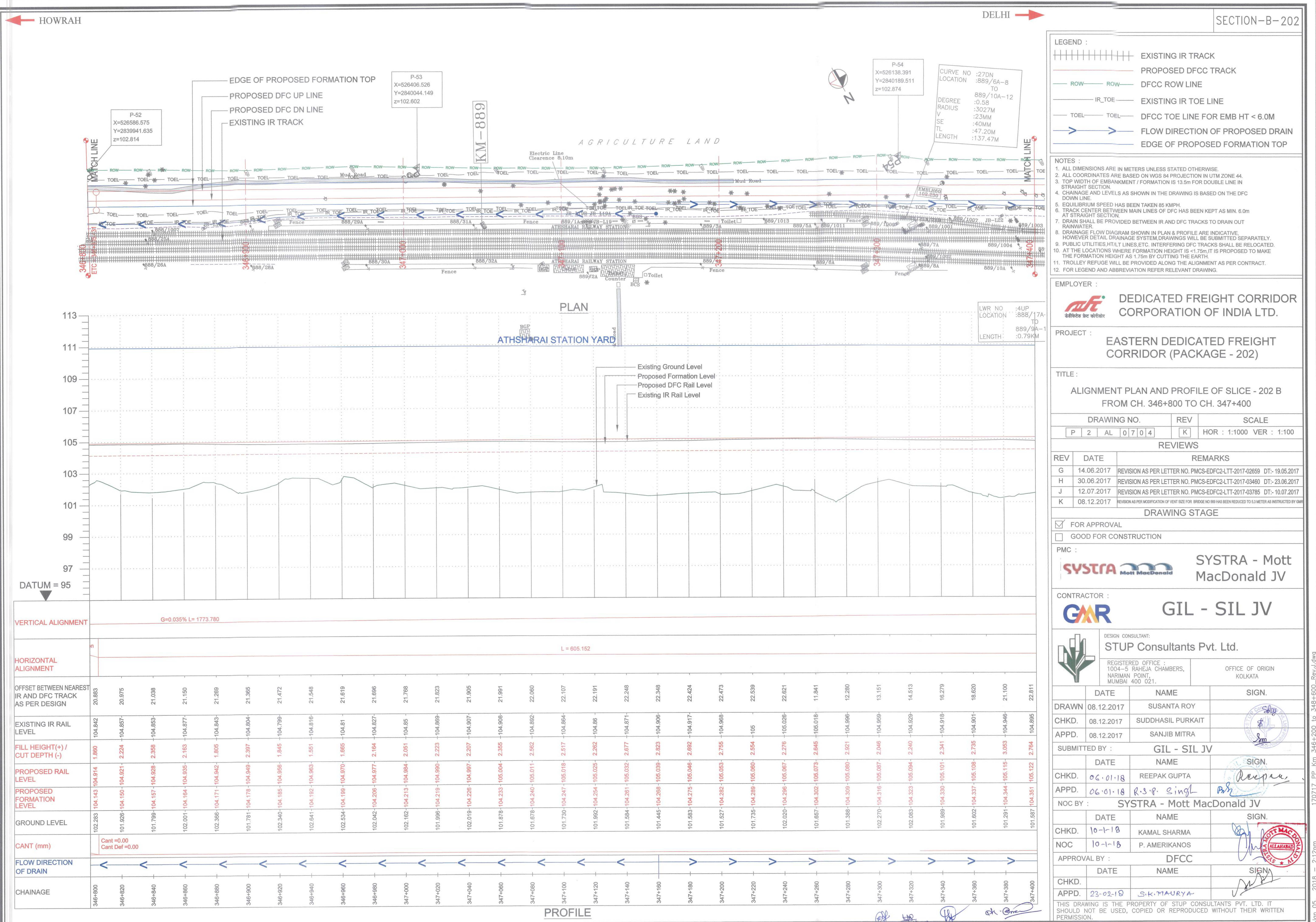
|       | DATE    | NAME          | SIGN.                                                                                 |
|-------|---------|---------------|---------------------------------------------------------------------------------------|
| CHKD. | 10-1-18 | KAMAL SHARMA  |  |
| NOC   | 10-1-18 | P. AMERIKANOS |  |

APPROVAL BY : **DFCC**

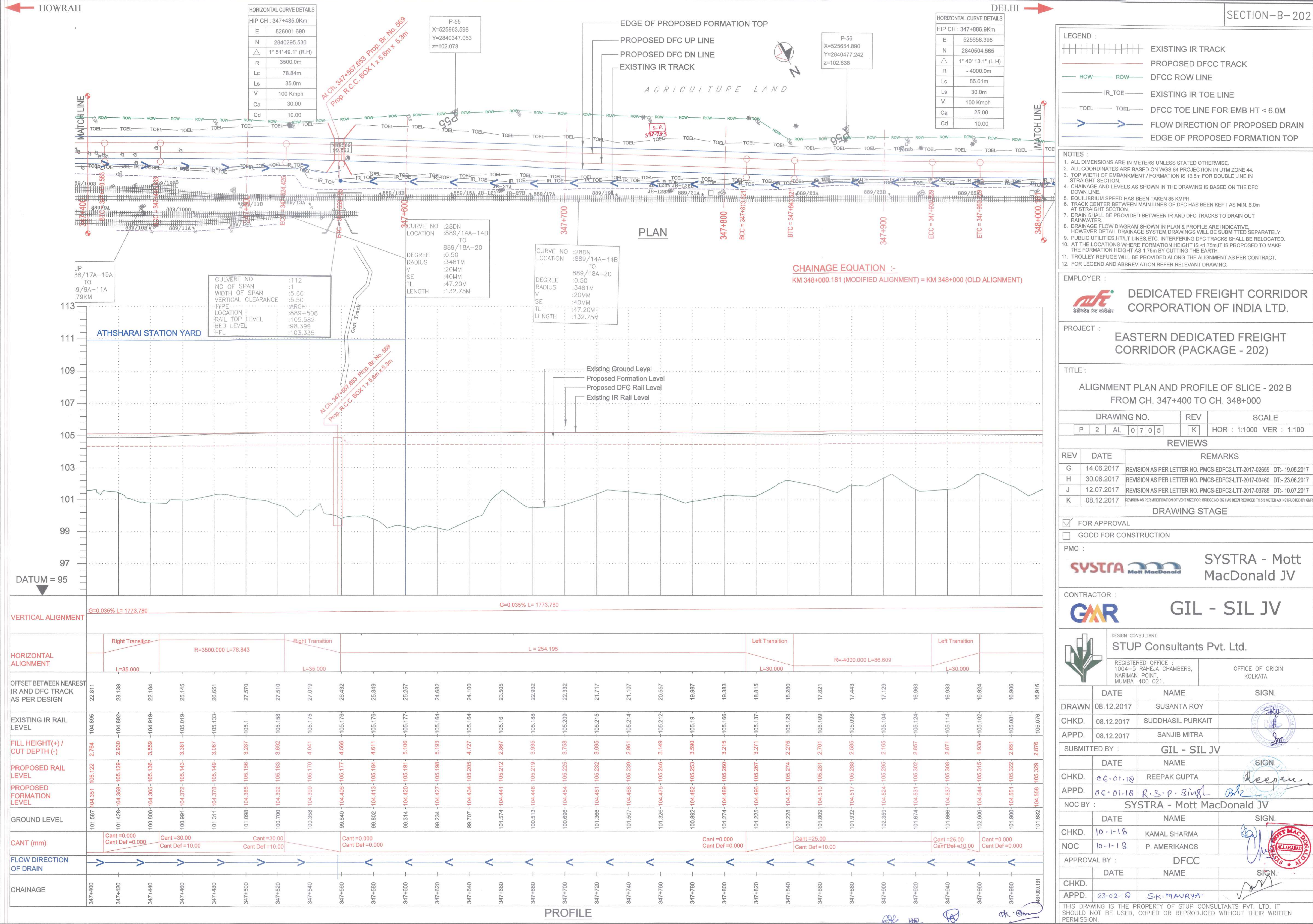
|       | DATE     | NAME        | SIGN.                                                                                 |
|-------|----------|-------------|---------------------------------------------------------------------------------------|
| CHKD. |          |             |  |
| APPD. | 23-02-18 | S.K. MAURYA |                                                                                       |

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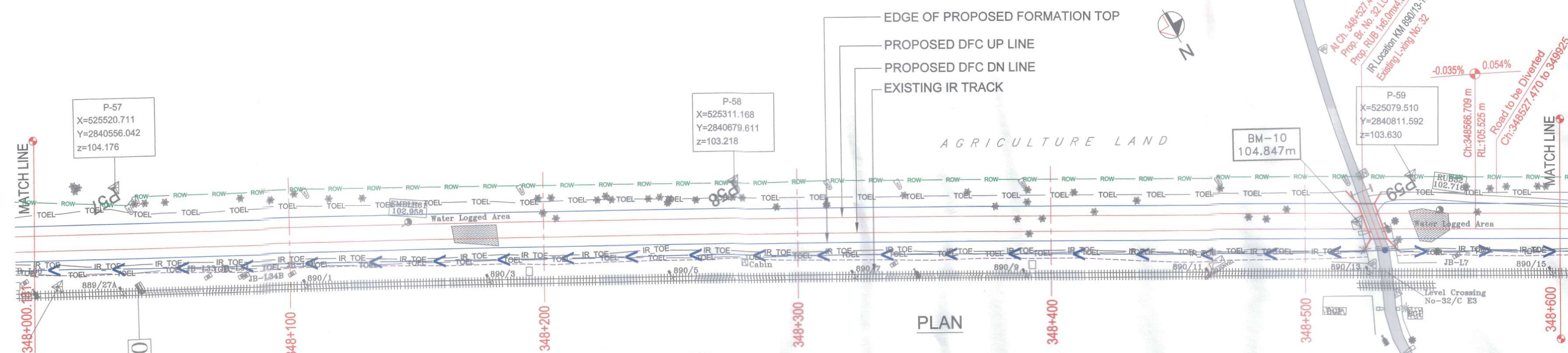




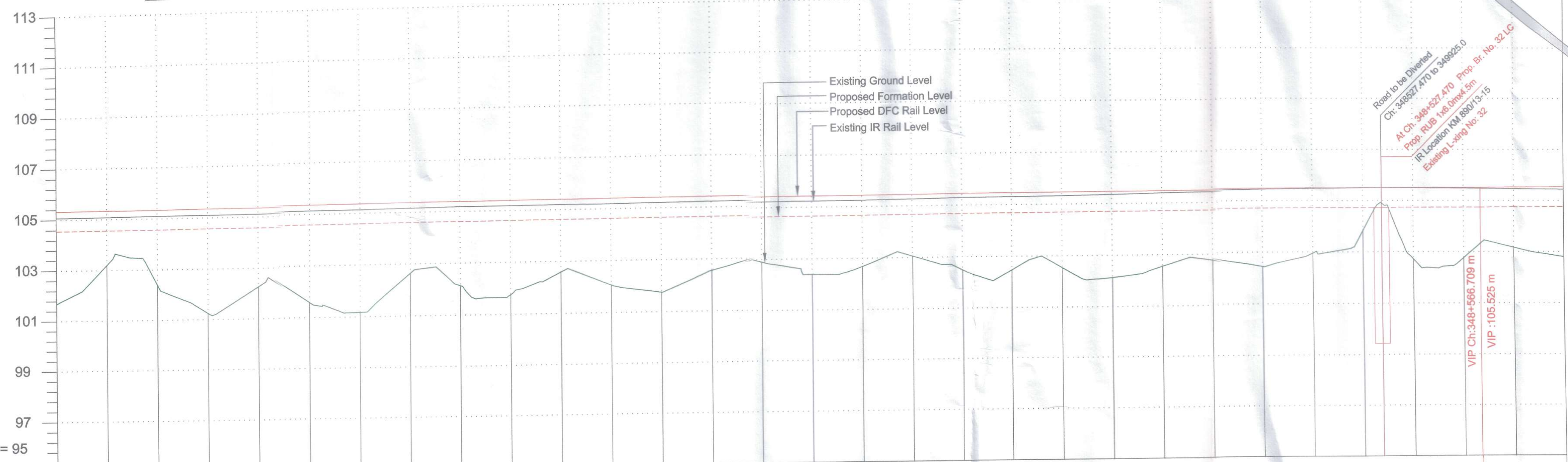








**CHAINAGE EQUATION :-**  
 KM 348+000.181 (MODIFIED ALIGNMENT) = KM 348+000 (OLD ALIGNMENT)



| CHAINAGE | FLOW DIRECTION OF DRAIN | CANT (mm) | GROUND LEVEL | PROPOSED FORMATION LEVEL | PROPOSED RAIL LEVEL | FILL HEIGHT(+) / CUT DEPTH (-) | EXISTING IR RAIL LEVEL | OFFSET BETWEEN NEAREST IR AND DFC TRACK AS PER DESIGN | HORIZONTAL ALIGNMENT | VERTICAL ALIGNMENT   |
|----------|-------------------------|-----------|--------------|--------------------------|---------------------|--------------------------------|------------------------|-------------------------------------------------------|----------------------|----------------------|
| 348+000  | ←                       |           | 101.692      | 104.558                  | 105.329             | 2.876                          | 105.076                | 16.916                                                |                      | G=0.035% L= 1773.780 |
| 348+020  | ←                       |           | 103.198      | 104.595                  | 105.336             | 1.367                          | 105.087                | 16.908                                                |                      |                      |
| 348+040  | ←                       |           | 102.414      | 104.572                  | 105.343             | 2.159                          | 105.106                | 16.917                                                |                      |                      |
| 348+060  | ←                       |           | 101.251      | 104.579                  | 105.350             | 3.328                          | 105.107                | 16.935                                                |                      |                      |
| 348+080  | ←                       |           | 102.272      | 104.586                  | 105.357             | 2.314                          | 105.117                | 16.939                                                |                      |                      |
| 348+100  | ←                       |           | 101.586      | 104.593                  | 105.364             | 3.007                          | 105.139                | 16.896                                                |                      |                      |
| 348+120  | ←                       |           | 101.178      | 104.600                  | 105.371             | 3.422                          | 105.143                | 16.901                                                |                      |                      |
| 348+140  | ←                       |           | 102.642      | 104.607                  | 105.378             | 1.965                          | 105.163                | 16.900                                                |                      |                      |
| 348+160  | ←                       |           | 102.141      | 104.613                  | 105.384             | 2.472                          | 105.182                | 16.934                                                |                      |                      |
| 348+180  | ←                       |           | 101.756      | 104.620                  | 105.391             | 2.864                          | 105.19                 | 16.940                                                |                      |                      |
| 348+200  | ←                       |           | 102.588      | 104.627                  | 105.398             | 2.039                          | 105.196                | 16.861                                                |                      |                      |
| 348+220  | ←                       |           | 102.064      | 104.634                  | 105.405             | 2.570                          | 105.192                | 16.977                                                |                      |                      |
| 348+240  | ←                       |           | 101.748      | 104.641                  | 105.412             | 2.893                          | 105.209                | 16.972                                                |                      |                      |
| 348+260  | ←                       |           | 102.563      | 104.648                  | 105.419             | 2.085                          | 105.226                | 16.970                                                |                      |                      |
| 348+280  | ←                       |           | 102.906      | 104.655                  | 105.426             | 1.749                          | 105.233                | 16.995                                                |                      |                      |
| 348+300  | ←                       |           | 102.398      | 104.662                  | 105.433             | 2.264                          | 105.234                | 17.029                                                |                      |                      |
| 348+320  | ←                       |           | 102.685      | 104.669                  | 105.440             | 1.984                          | 105.249                | 17.006                                                |                      |                      |
| 348+340  | ←                       |           | 103.066      | 104.676                  | 105.447             | 1.610                          | 105.271                | 16.990                                                |                      |                      |
| 348+360  | ←                       |           | 102.494      | 104.683                  | 105.454             | 2.189                          | 105.295                | 17.041                                                |                      |                      |
| 348+380  | ←                       |           | 102.475      | 104.689                  | 105.460             | 2.214                          | 105.311                | 17.044                                                |                      |                      |
| 348+400  | ←                       |           | 102.544      | 104.696                  | 105.467             | 2.152                          | 105.326                | 17.028                                                |                      |                      |
| 348+420  | ←                       |           | 102.139      | 104.703                  | 105.474             | 2.564                          | 105.352                | 17.028                                                |                      |                      |
| 348+440  | ←                       |           | 102.556      | 104.710                  | 105.481             | 2.154                          | 105.394                | 17.378                                                |                      |                      |
| 348+460  | ←                       |           | 102.765      | 104.717                  | 105.488             | 1.952                          | 105.425                | 17.377                                                |                      |                      |
| 348+480  | ←                       |           | 102.450      | 104.724                  | 105.495             | 2.274                          | 105.457                | 17.373                                                |                      |                      |
| 348+500  | ←                       |           | 102.955      | 104.731                  | 105.502             | 1.776                          | 105.481                | 17.369                                                |                      |                      |
| 348+520  | ←                       |           | 103.834      | 104.738                  | 105.509             | 0.904                          | 105.516                | 17.365                                                |                      |                      |
| 348+540  | →                       |           | 102.724      | 104.745                  | 105.516             | 2.021                          | 105.508                | 17.362                                                |                      |                      |
| 348+560  | →                       |           | 102.774      | 104.752                  | 105.523             | 1.978                          | 105.498                | 17.357                                                |                      |                      |
| 348+580  | →                       |           | 103.174      | 104.761                  | 105.532             | 1.970                          | 105.468                | 17.354                                                |                      |                      |
| 348+600  | →                       |           | 102.809      | 104.772                  | 105.543             | + 1.963                        | 105.451                | 17.349                                                |                      |                      |

- LEGEND :
- |  |                                  |
|--|----------------------------------|
|  | EXISTING IR TRACK                |
|  | PROPOSED DFCC TRACK              |
|  | DFCC ROW LINE                    |
|  | EXISTING IR TOE LINE             |
|  | DFCC TOE LINE FOR EMB HT < 6.0M  |
|  | FLOW DIRECTION OF PROPOSED DRAIN |
|  | EDGE OF PROPOSED FORMATION TOP   |

- NOTES :**
1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
  2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
  3. TOP WIDTH OF EMBANKMENT / FORMATION IS 13.5m FOR DOUBLE LINE IN STRAIGHT SECTION.
  4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
  5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KM/PH.
  6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0m AT STRAIGHT SECTION.
  7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
  8. DRAINAGE FLOW DIAGRAM SHOWN IN PLAN & PROFILE ARE INDICATIVE. HOWEVER DETAILED DRAINAGE SYSTEM DRAWINGS WILL BE SUBMITTED SEPARATELY.
  9. RAIL UTILITIES HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED AT THE LOCATION WHERE FORMATION HEIGHT IS < 1.75m. IT IS PROPOSED TO MAKE THE FORMATION HEIGHT AS 1.75m BY CUTTING THE EARTH.
  10. TROLLEY REFUGE WILL BE PROVIDED ALONG THE ALIGNMENT AS PER CONTRACT.
  11. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :  DEDICATED FREIGHT CORRIDOR  
CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT  
CORRIDOR (PACKAGE - 202)

TITLE :  
ALIGNMENT PLAN AND PROFILE OF SLICE - 202 B  
FROM CH. 348+000 TO CH. 348+600

|             |   |    |   |   |   |     |                          |
|-------------|---|----|---|---|---|-----|--------------------------|
| DRAWING NO. |   |    |   |   |   | REV | SCALE                    |
| P           | 2 | AL | 0 | 7 | 0 | K   | HOR : 1:1000 VER : 1:100 |

| REVIEWS |            |                                                                                                            |
|---------|------------|------------------------------------------------------------------------------------------------------------|
| REV     | DATE       | REMARKS                                                                                                    |
| G       | 14.06.2017 | REVISION AS PER LETTER NO. PMCS-EDFC2-LTT-2017-02659 DT:- 19.05.2017                                       |
| H       | 30.06.2017 | REVISION AS PER LETTER NO. PMCS-EDFC2-LTT-2017-03460 DT:- 23.06.2017                                       |
| J       | 12.07.2017 | REVISION AS PER LETTER NO. PMCS-EDFC2-LTT-2017-03785 DT:- 10.07.2017                                       |
| K       | 08.12.2017 | REVISION AS PER MODIFICATION OF VENT SIZE FOR BRIDGE NO.599 HAS BEEN REDUCED TO 5.3 METRE AS INSTRUCTED BY |

[illegible]

|                                     |                       |
|-------------------------------------|-----------------------|
| <input checked="" type="checkbox"/> | FOR APPROVAL          |
| <input type="checkbox"/>            | GOOD FOR CONSTRUCTION |

PMC :  SYSTRA - Mott MacDonald JV

CONTRACTOR :  GIL - SIL JV



DESIGN CONSULTANT:  
**STUP Consultants Pvt. Ltd.**

|                                                                                       |                                                                                                                   |                             |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------|
|  | REGISTERED OFFICE :<br>1004-5 RAHEJA CHAMBERS,<br>NARIMAN POINT,<br>MUMBAI 400 021                                | OFFICE OF ORIGIN<br>KOLKATA |
|                                                                                       | (The above information is for the purpose of filing the return only and is not to be used for any other purpose.) |                             |

|       | DATE       | NAME              | SIGN. |
|-------|------------|-------------------|-------|
| DRAWN | 08.12.2017 | SUSANTA ROY       |       |
| CHKD. | 08.12.2017 | SUDDHASIL PURKAIT |       |
| APPD. | 08.12.2017 | SANJIB MITRA      |       |

SUBMITTED BY : GIL - SIL JV

|       | DATE     | NAME         | SIGN.        |
|-------|----------|--------------|--------------|
| CHKD. | 06.01.18 | REEPAK GUPTA | <i>Reepa</i> |
| APPD. | 06.01.18 | R.S.P. Singh | <i>RS</i>    |

NOC BY : SYSTRA - Mott MacDonald JV

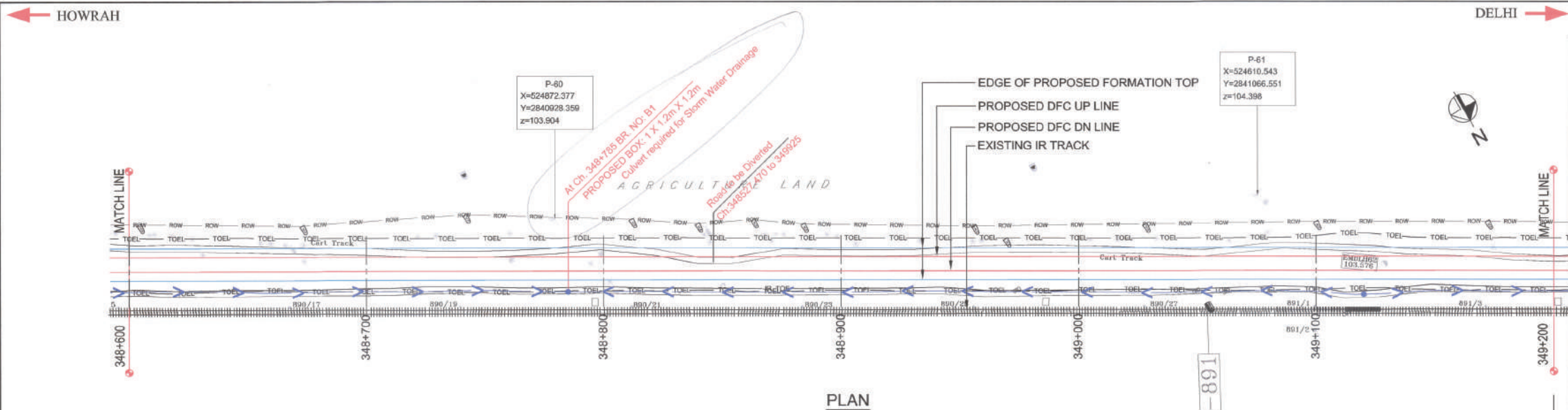
|       | DATE    | NAME          | SIGN.                                                                                                                                                                          |
|-------|---------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHKD. | 10-1-18 | KAMAL SHARMA  | <br> |
| NOC   | 10-1-18 | P. AMERIKANOS |                                                                                                                                                                                |

APPROVAL BY : DFCC

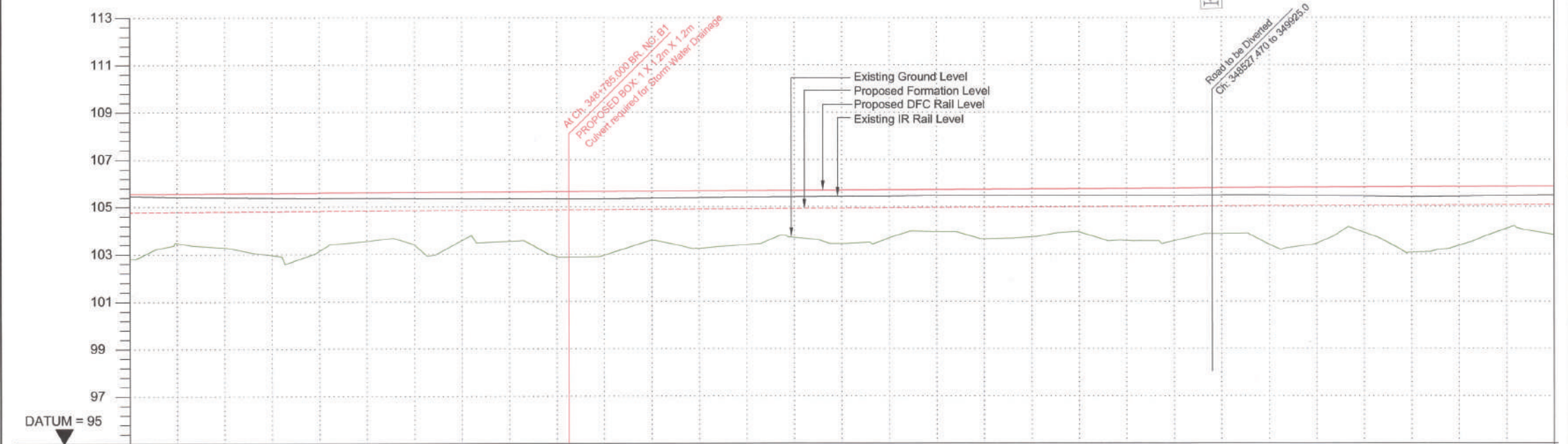
|       | DATE     | NAME        | SIGN.                                                                                 |
|-------|----------|-------------|---------------------------------------------------------------------------------------|
| CHKD. |          |             |                                                                                       |
| APPD. | 23-02-18 | S.K. MAURYA |  |

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PLAN



PROFILE

| VERTICAL ALIGNMENT                            | L=1233.867m<br>G=0.354% |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-----------------------------------------------|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| HORIZONTAL ALIGNMENT                          |                         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| OFFSET BETWEEN IR AND DFC TRACK AS PER DESIGN | 17.027                  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| EXISTING IR RAIL LEVEL                        | 105.451                 | 105.451 | 105.451 | 105.451 | 105.451 | 105.451 | 105.451 | 105.451 | 105.451 | 105.451 | 105.451 | 105.451 | 105.451 | 105.451 | 105.451 | 105.451 | 105.451 | 105.451 | 105.451 | 105.451 |
| FILL HEIGHT(+)/ CUT DEPTH (-)                 | +1.363                  | +1.308  | +1.513  | +1.843  | +1.873  | +1.202  | +1.443  | +1.275  | +1.320  | +1.351  | +1.415  | +1.975  | +1.924  | +1.321  | +1.632  | +1.571  | +1.015  | +1.003  | +1.432  | +1.275  |
| PROPOSED RAIL LEVEL                           | 105.543                 | 105.554 | 105.565 | 105.576 | 105.586 | 105.597 | 105.607 | 105.617 | 105.627 | 105.637 | 105.647 | 105.657 | 105.667 | 105.677 | 105.687 | 105.697 | 105.707 | 105.717 | 105.727 | 105.737 |
| PROPOSED FORMATION LEVEL                      | 104.772                 | 104.783 | 104.794 | 104.805 | 104.815 | 104.826 | 104.837 | 104.847 | 104.858 | 104.868 | 104.879 | 104.889 | 104.899 | 104.909 | 104.919 | 104.929 | 104.939 | 104.949 | 104.959 | 104.969 |
| GROUND LEVEL                                  | 102.809                 | 103.475 | 103.281 | 102.962 | 103.142 | 103.544 | 103.394 | 103.573 | 103.639 | 102.896 | 102.967 | 103.570 | 103.240 | 103.396 | 103.710 | 103.453 | 103.687 | 103.724 | 103.926 | 103.568 |
| CANT (mm)                                     |                         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| FLOW DIRECTION OF DRAIN                       |                         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| CHAINAGE                                      | 348+600                 | 348+620 | 348+640 | 348+660 | 348+680 | 348+700 | 348+720 | 348+740 | 348+760 | 348+780 | 348+800 | 348+820 | 348+840 | 348+860 | 348+880 | 348+900 | 348+920 | 348+940 | 348+960 | 348+980 |

SECTION-B-202

LEGEND :

- EXISTING IR TRACK
- PROPOSED DFC TRACK
- DFCC ROW LINE
- IR TOE LINE
- DFCC TOE LINE FOR EMB HT < 6.0M
- FLOW DIRECTION OF PROPOSED DRAIN
- EDGE OF PROPOSED FORMATION TOP

NOTES :

- ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
- ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
- TOP WIDTH OF EMBANKMENT / FORMATION IS 13.5m FOR DOUBLE LINE IN STRAIGHT SECTION.
- CHANGING AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
- EQUILIBRIUM SPEED HAS BEEN TAKEN AS 85 KM/H.
- TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0m AT STRAIGHT SECTION.
- DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
- DRAINAGE FLOW DIAGRAM SHOWN IN PLAN & PROFILE ARE INDICATIVE. HOWEVER DETAIL DRAINAGE SYSTEM DRAWINGS WILL BE SUBMITTED SEPARATELY.
- PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED.
- AT THE LOCATIONS WHERE FORMATION HEIGHT IS < 1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT AS 1.75m BY CUTTING THE EARTH.
- TROLLEY REFUGE WILL BE PROVIDED ALONG THE ALIGNMENT AS PER CONTRACT.
- FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :

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

PROJECT :

**EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 202)**

TITLE :

**ALIGNMENT PLAN AND PROFILE OF SLICE - 202 B**  
FROM CH. 348+600 TO CH. 349+200

| DRAWING NO. | REV | SCALE                    |
|-------------|-----|--------------------------|
| P 2 AL 0707 | E   | HOR : 1:1000 VER : 1:100 |

REVIEWS

| REV | DATE       | REMARKS                                                                        |
|-----|------------|--------------------------------------------------------------------------------|
| B   | 02.11.2015 | FOR REVIEW                                                                     |
| C   | 08.11.2015 | PROFILE MODIFIED                                                               |
| D   | 25.11.2015 | REVISION MADE AS PER PMC LETTER NO. PMCS/EDFC/202/17/2015/570 DATED 23.11.2015 |
| E   | 14.12.2015 | REVISION MADE AS PER DFC LETTER NO. ALD/WYEN/PRAC/PRO-328/156 DATED 10.12.2015 |

DRAWING STAGE

☒ FOR APPROVAL  
☐ GOOD FOR CONSTRUCTION

PMC :

**SYSTRA - Mott MacDonald JV**

CONTRACTOR :

**GIL - SIL JV**

DESIGN CONSULTANT:

**STUP Consultants Pvt. Ltd.**

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

OFFICE OF ORIGIN  
KOLKATA

| DATE       | NAME      | SIGN. |
|------------|-----------|-------|
| 24.09.2015 | A.Das     |       |
| 24.09.2015 | SP        |       |
| 24.09.2015 | S.K. AICH |       |

SUBMITTED BY : **GIL - SIL JV**

| DATE       | NAME      | SIGN. |
|------------|-----------|-------|
| 14.12.2015 | Y. WADHWA |       |

NOC BY : **SYSTRA - Mott MacDonald JV**

| DATE       | NAME          | SIGN. |
|------------|---------------|-------|
| 14.12.2015 | P. AMERIKANOS |       |

APPROVAL BY : **DFCC**

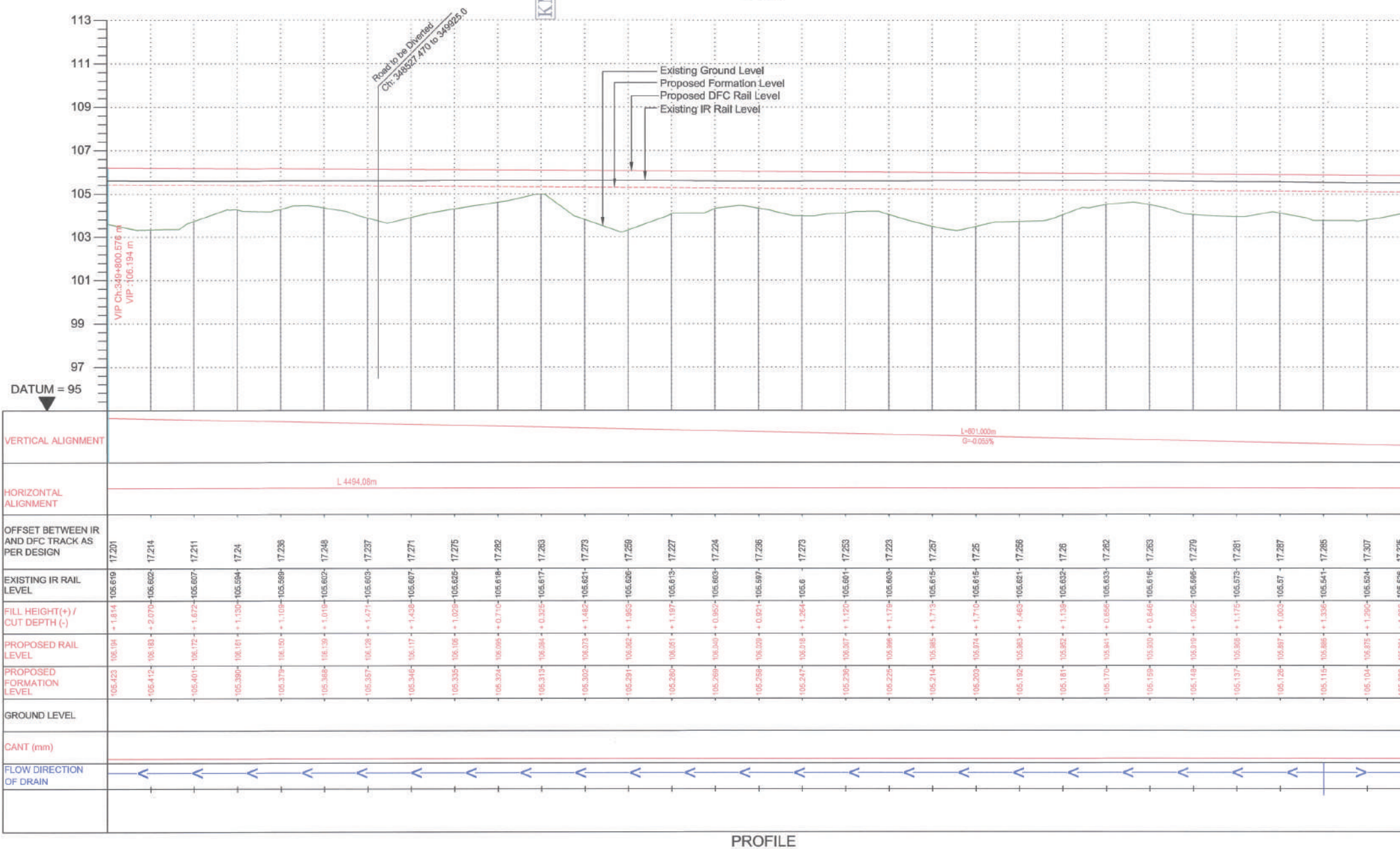
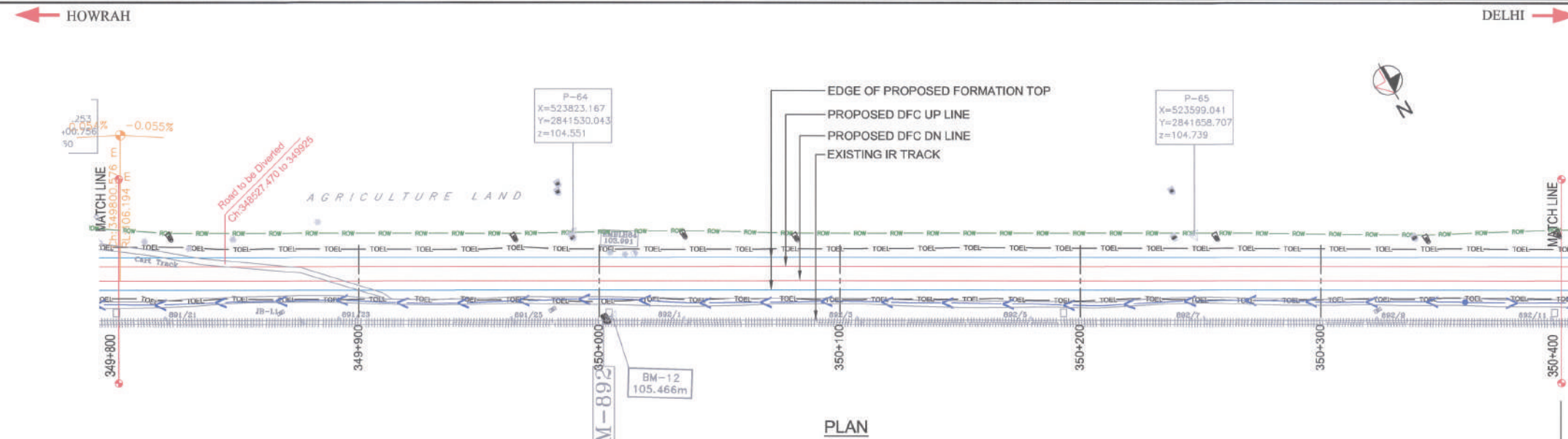
| DATE     | NAME     | SIGN. |
|----------|----------|-------|
| 15.12.15 | R. Yadav |       |

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LEGEND :

EXISTING IR TRACK

PROPOSED DFCC TRACK

DFCC ROW LINE

EXISTING IR TOE LINE

DFCC TOE LINE FOR EMB HT < 6.0M

FLOW DIRECTION OF PROPOSED DRAIN  
EDGE OF PROPOSED FORMATION TOP

NOTES :

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF EMBANKMENT / FORMATION IS 13.5m FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
5. EQUILIBRIUM SPEED HAS BEEN TAKEN AS 80MPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0m AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IN AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. DRAINAGE FLOW DIAGRAM SHOWN IN PLAN & PROFILE ARE INDICATIVE; HOWEVER DETAILED DRAINAGE SYSTEM DRAWINGS WILL BE SUBMITTED SEPARATELY.
9. PUBLIC UTILITIES, HT/L, LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED.
10. THE LOCATIONS WHERE FORMATION HEIGHT IS  $< 1.75m$  IT IS PROPOSED TO MAKE THE FORMATION HEIGHT AS  $> 1.75m$  BY CUTTING THE GROUND.
11. TROLLEY REFUGE WILL BE PROVIDED ALONG THE ALIGNMENT AS PER CONTRACT.
12. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

## EMPLOYER :



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

## PROJECT :

**EASTERN DEDICATED FREIGHT  
CORRIDOR (PACKAGE - 202)**

TITLE:

ALIGNMENT PLAN AND PROFILE OF SLICE - 202 B  
FROM CH. 349+800 TO CH. 350+400

|             |           |     |                          |
|-------------|-----------|-----|--------------------------|
| DRAWING NO. |           | REV | SCALE                    |
| P           | 2 AL 0709 | D   | HOR : 1:1000 VER : 1:100 |

## REVIEWERS

| REV | DATE       | REMARKS                                                                      |
|-----|------------|------------------------------------------------------------------------------|
| B   | 02.11.2015 | FOR REVIEW                                                                   |
| C   | 08.11.2015 | PROFILE MODIFIED                                                             |
| D   | 25.11.2015 | REVISION MADE AS PER PMC LETTER NO. PMCSGDFC/TA/TT/2015/578 DATED 23.11.2015 |

|     | DRAWING STAGE |
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| <input checked="" type="checkbox"/> | FOR APPROVAL          |
| <input type="checkbox"/>            | GOOD FOR CONSTRUCTION |

PMC :

**SYSTRA** Mott MacDonald JV

CONTRACTOR :

**GAR** GIL - SIL JV



DESIGN CONSULTANT:  
**STUP Consultants Pvt. Ltd.**

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

OFFICE OF ORIGIN  
KOLKATA

|                                                                                                                                          |            |                     |                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------|---------------------------------------------------------------------------------------|
|                                                                                                                                          | DATE       | NAME                | SIGN.                                                                                 |
| DRAWN                                                                                                                                    | 27.11.2015 | A.Das               |                                                                                       |
| CHKD.                                                                                                                                    | 27.11.2015 | SP                  |                                                                                       |
| APPD.                                                                                                                                    | 27.11.2015 | S.K. AICH           | <i>SKA</i>                                                                            |
| SUBMITTED BY :                                                                                                                           |            | GIL - SIL JV        |                                                                                       |
|                                                                                                                                          | DATE       | NAME                | SIGN.                                                                                 |
| CHKD.                                                                                                                                    |            |                     |  |
| APPD.                                                                                                                                    | 27.11.2015 | <i>V. Kaladwaja</i> | <i>VK</i>                                                                             |
| NOC BY : SYSTRA - Mott MacDonald JV                                                                                                      |            |                     |                                                                                       |
|                                                                                                                                          | DATE       | NAME                | SIGN.                                                                                 |
| CHKD.                                                                                                                                    | 7.12.15    | S. S. PATEL         |  |
| NOC                                                                                                                                      | 7.12.15    | P. AMERI KANOS      | <i>AK</i>                                                                             |
| APPROVAL BY :                                                                                                                            |            | DFCC                |                                                                                       |
|                                                                                                                                          | DATE       | NAME                | SIGN.                                                                                 |
| CHKD.                                                                                                                                    |            |                     |                                                                                       |
| APPD.                                                                                                                                    | 19.12.15   | <i>R. Yadav</i>     | <i>RY</i>                                                                             |
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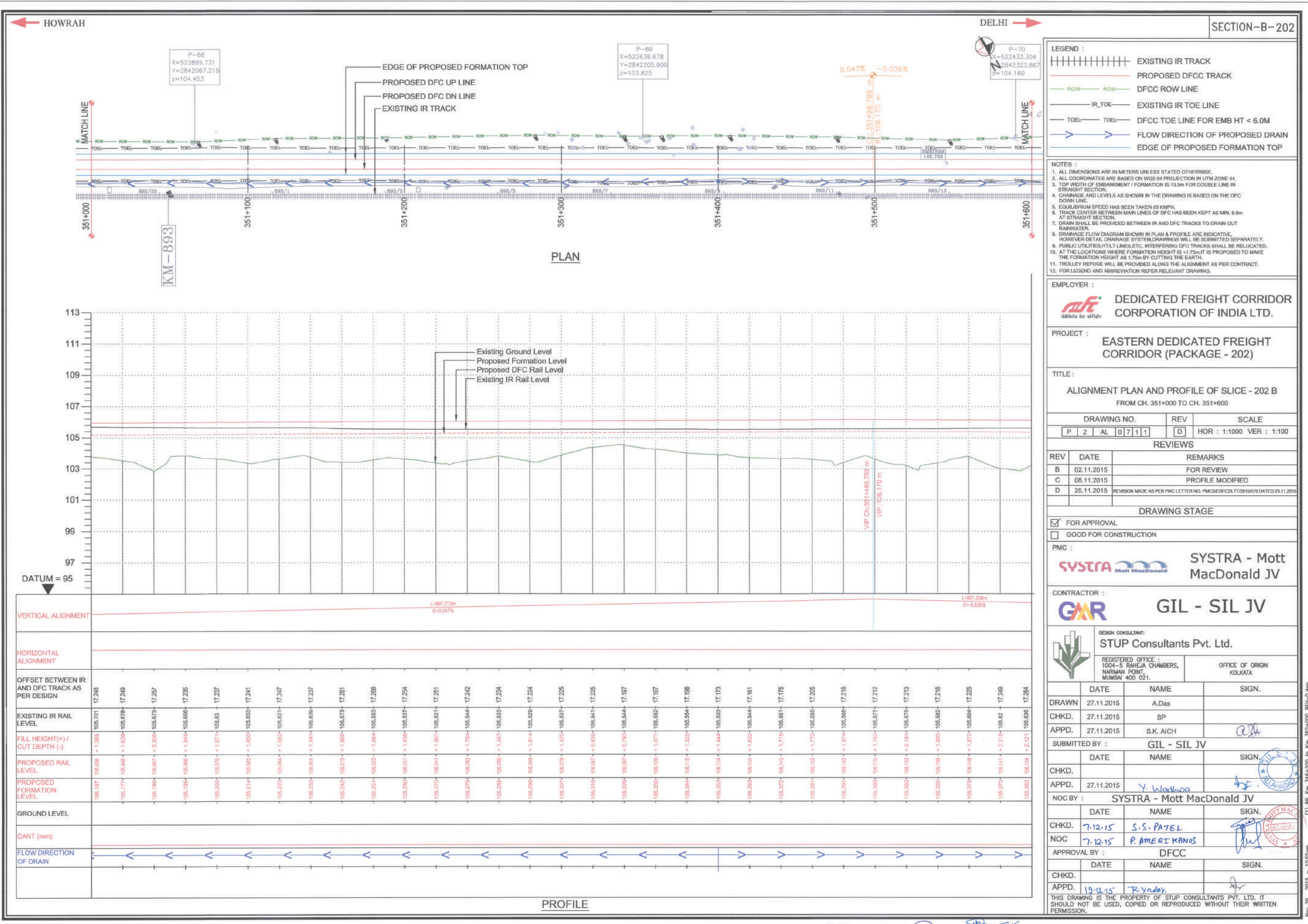
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Nov 29, 2015 - 10:54am (1) PF<sub>6</sub>-KBr 346+200 to Km 362+000 REV-D-0169

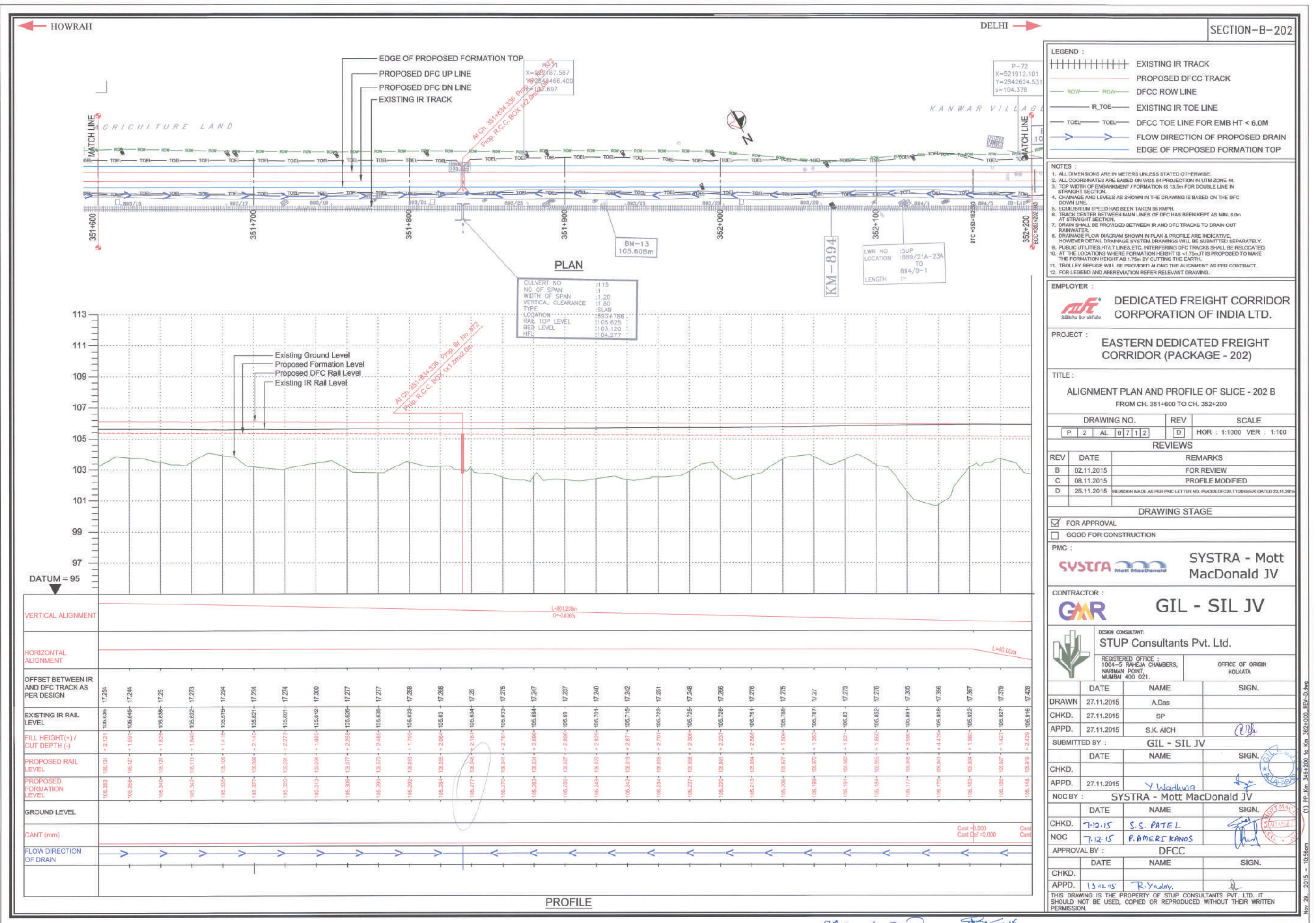




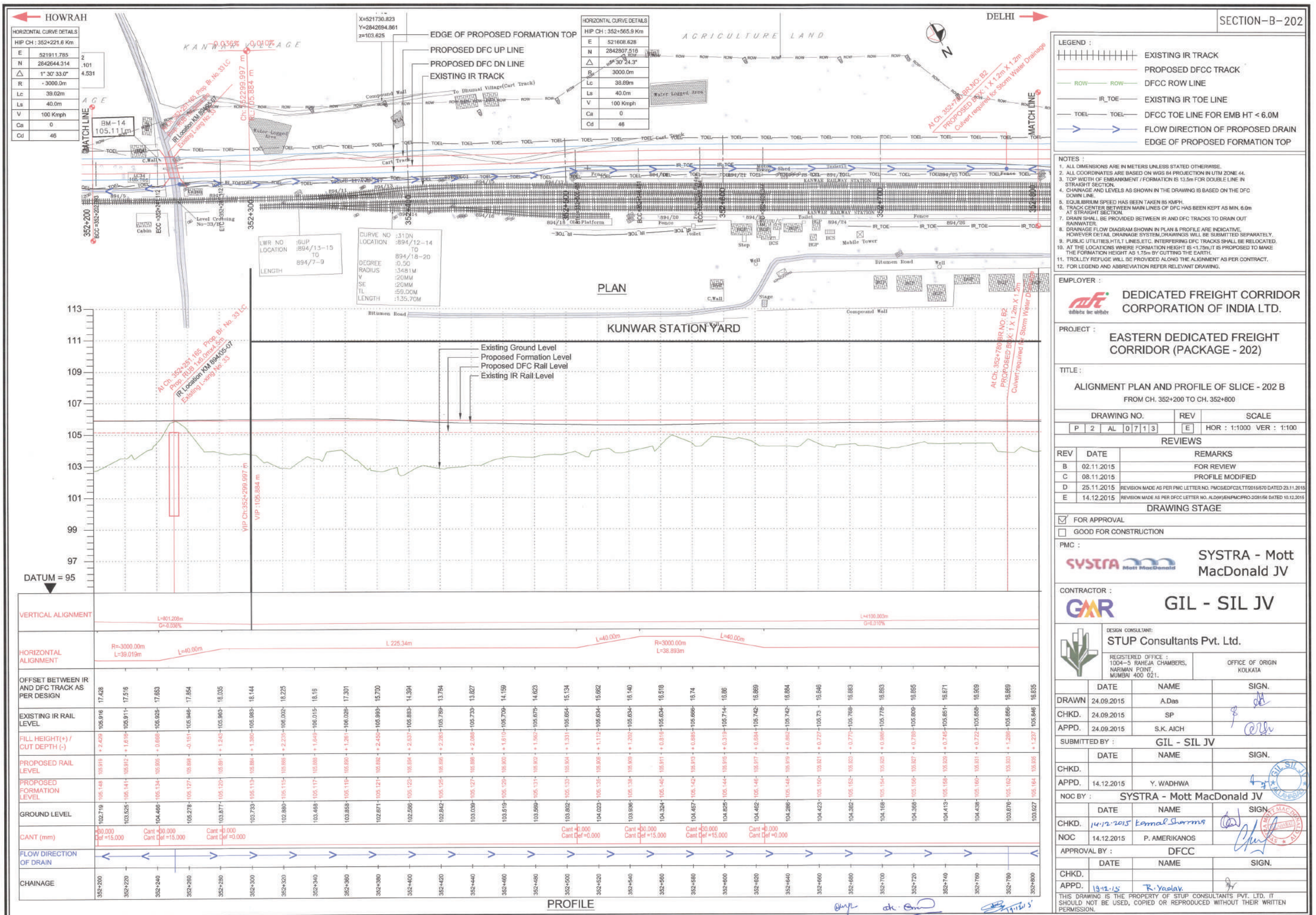












**LEGEND :**

|                                  |                                 |
|----------------------------------|---------------------------------|
| EXISTING IR TRACK                | PROPOSED DFC TRACK              |
| DFCC ROW LINE                    | IR TOE                          |
| EXISTING IR TOE LINE             | DFCC TOE LINE FOR EMB HT < 6.0M |
| FLOW DIRECTION OF PROPOSED DRAIN | EDGE OF PROPOSED FORMATION TOP  |

- NOTES :**
- ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
  - ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
  - TOP WIDTH OF EMBANKMENT / FORMATION IS 13.5m FOR DOUBLE LINE IN STRAIGHT SECTION.
  - CHANGES AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
  - EQUILIBRIUM SPEED HAS BEEN TAKEN AS 100 KM/H.
  - TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0m AT STRAIGHT SECTION.
  - DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
  - DRAINAGE FLOW DIAGRAM SHOWN IN PLAN & PROFILE ARE INDICATIVE. HOWEVER DETAILED DRAINAGE SYSTEM DRAWINGS WILL BE SUBMITTED SEPARATELY.
  - PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED.
  - AT THE LOCATIONS WHERE FORMATION HEIGHT IS < 1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT AS 1.75m BY CUTTING THE EARTH.
  - TROLLEY REFUGE WILL BE PROVIDED ALONG THE ALIGNMENT AS PER CONTRACT.
  - FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

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

**PROJECT :**  
**EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 202)**

**TITLE :**  
**ALIGNMENT PLAN AND PROFILE OF SLICE - 202 B**  
 FROM CH. 352+200 TO CH. 352+800

| DRAWING NO. | REV | SCALE                    |
|-------------|-----|--------------------------|
| P 2 AL 0713 | E   | HOR : 1:1000 VER : 1:100 |

**REVIEWS**

| REV | DATE       | REMARKS                                                                       |
|-----|------------|-------------------------------------------------------------------------------|
| B   | 02.11.2015 | FOR REVIEW                                                                    |
| C   | 08.11.2015 | PROFILE MODIFIED                                                              |
| D   | 25.11.2015 | REVISION MADE AS PER PMC LETTER NO. PMCSDFC/2/17/2015/570 DATED 23.11.2015    |
| E   | 14.12.2015 | REVISION MADE AS PER DFC LETTER NO. ALD/WJEN/PM/PC/202/15/56 DATED 10.12.2015 |

**DRAWING STAGE**

☒ FOR APPROVAL  
☐ GOOD FOR CONSTRUCTION

**PMC :**  
**SYSTRA - Mott MacDonald JV**

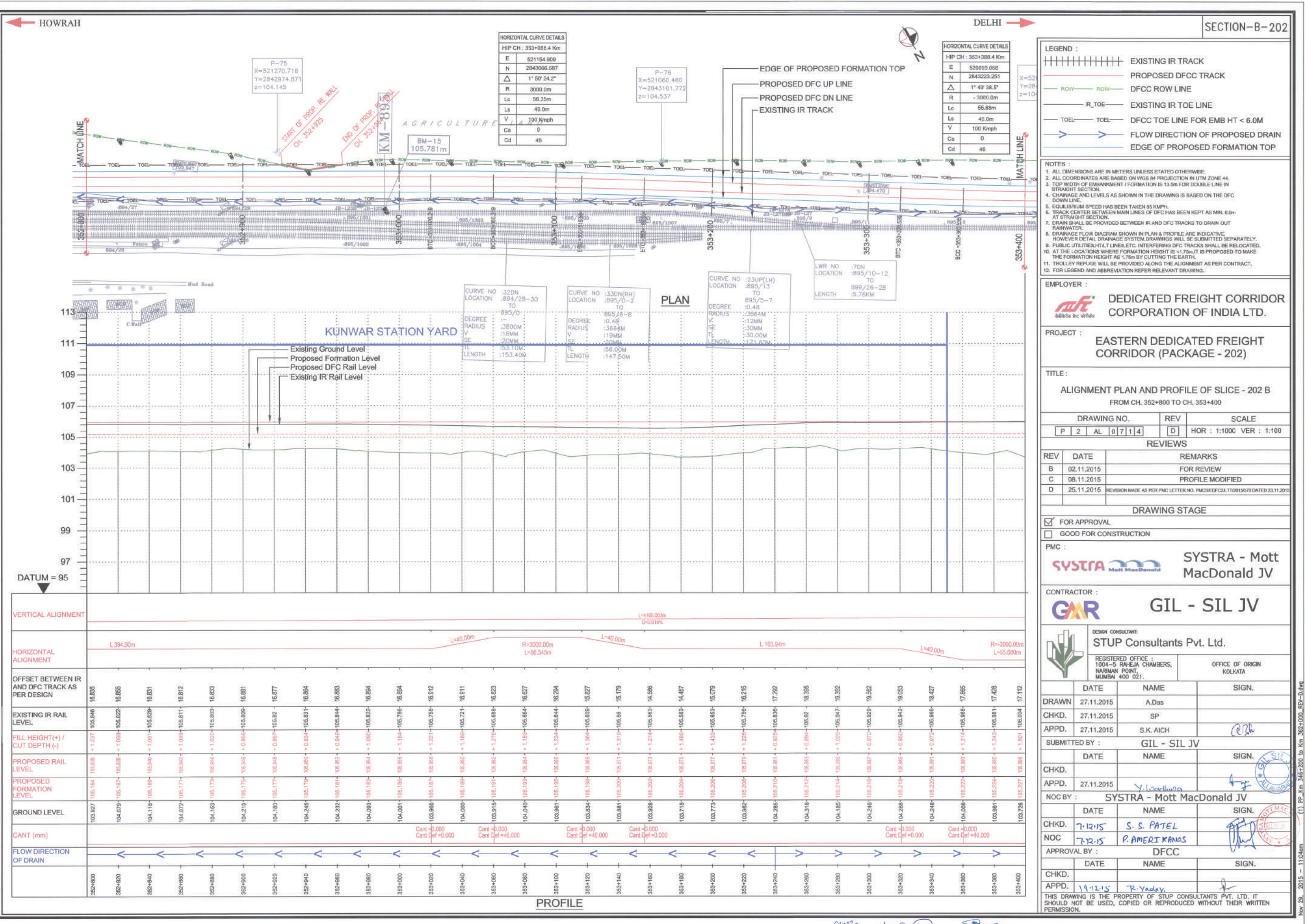
**CONTRACTOR :**  
**GIL - SIL JV**

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

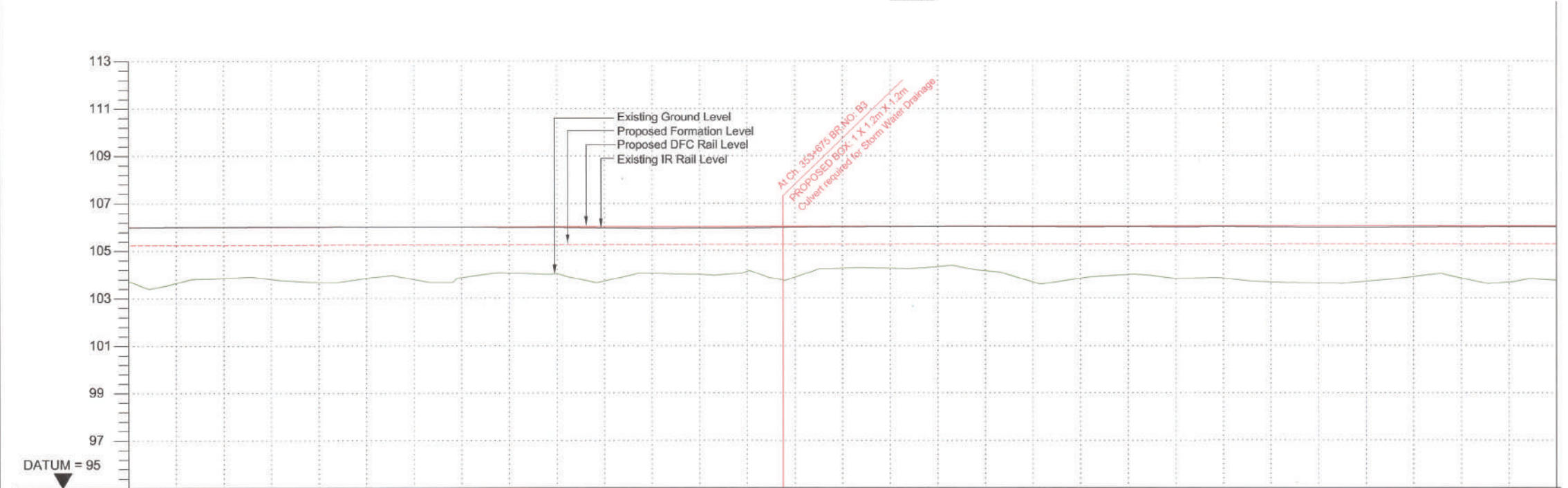
| DATE           | NAME                       | SIGN.         |
|----------------|----------------------------|---------------|
| DRAWN          | 24.09.2015                 | A.Das         |
| CHKD.          | 24.09.2015                 | SP            |
| APPD.          | 24.09.2015                 | S.K. AICH     |
| SUBMITTED BY : | GIL - SIL JV               |               |
| DATE           | NAME                       | SIGN.         |
| CHKD.          |                            |               |
| APPD.          | 14.12.2015                 | Y. WADHWA     |
| NOC BY :       | SYSTRA - Mott MacDonald JV |               |
| DATE           | NAME                       | SIGN.         |
| CHKD.          | 14.12.2015                 | Kamal Sharma  |
| NOC            | 14.12.2015                 | P. AMERIKANOS |
| APPROVAL BY :  | DFCC                       |               |
| DATE           | NAME                       | SIGN.         |
| CHKD.          |                            |               |
| APPD.          | 13.12.15                   | R. Yadav      |

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**NOTES :**

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF EMBANKMENT / FORMATION IS 13.5m FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHANGAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KM/PH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0m AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IN AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. DRAINAGE FLOW DIAGRAM SHOWN IN PLAN & PROFILE ARE INDICATIVE, HOWEVER DETAIL DRAINAGE SYSTEM DRAWINGS WILL BE SUBMITTED SEPARATELY.
9. PUBLIC UTILITIES, HT/LT LINES, ETC., INTERFERING DFC TRACKS SHALL BE RELOCATED.
10. AT THE LOCATIONS WHERE FORMATION HEIGHT IS < 1.75m IT IS PROPOSED TO MAKE THE FORMATION HEIGHT AS 1.75m BY CUTTING THE EARTH.
11. TROLLEY REFUGE WILL BE PROVIDED ALONG THE ALIGNMENT AS PER CONTRACT.
12. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

|           |                                                       |
|-----------|-------------------------------------------------------|
| PROJECT : | EASTERN DEDICATED FREIGHT<br>CORRIDOR (PACKAGE - 202) |
|-----------|-------------------------------------------------------|

|             |           |     |                          |
|-------------|-----------|-----|--------------------------|
| DRAWING NO. |           | REV | SCALE                    |
| P           | 2 AL 0715 | E   | HOR : 1:1000 VER : 1:100 |

|               |  |
|---------------|--|
| DRAWING STAGE |  |
|---------------|--|

PMC :  SYSTRA - Mott MacDonald JV

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

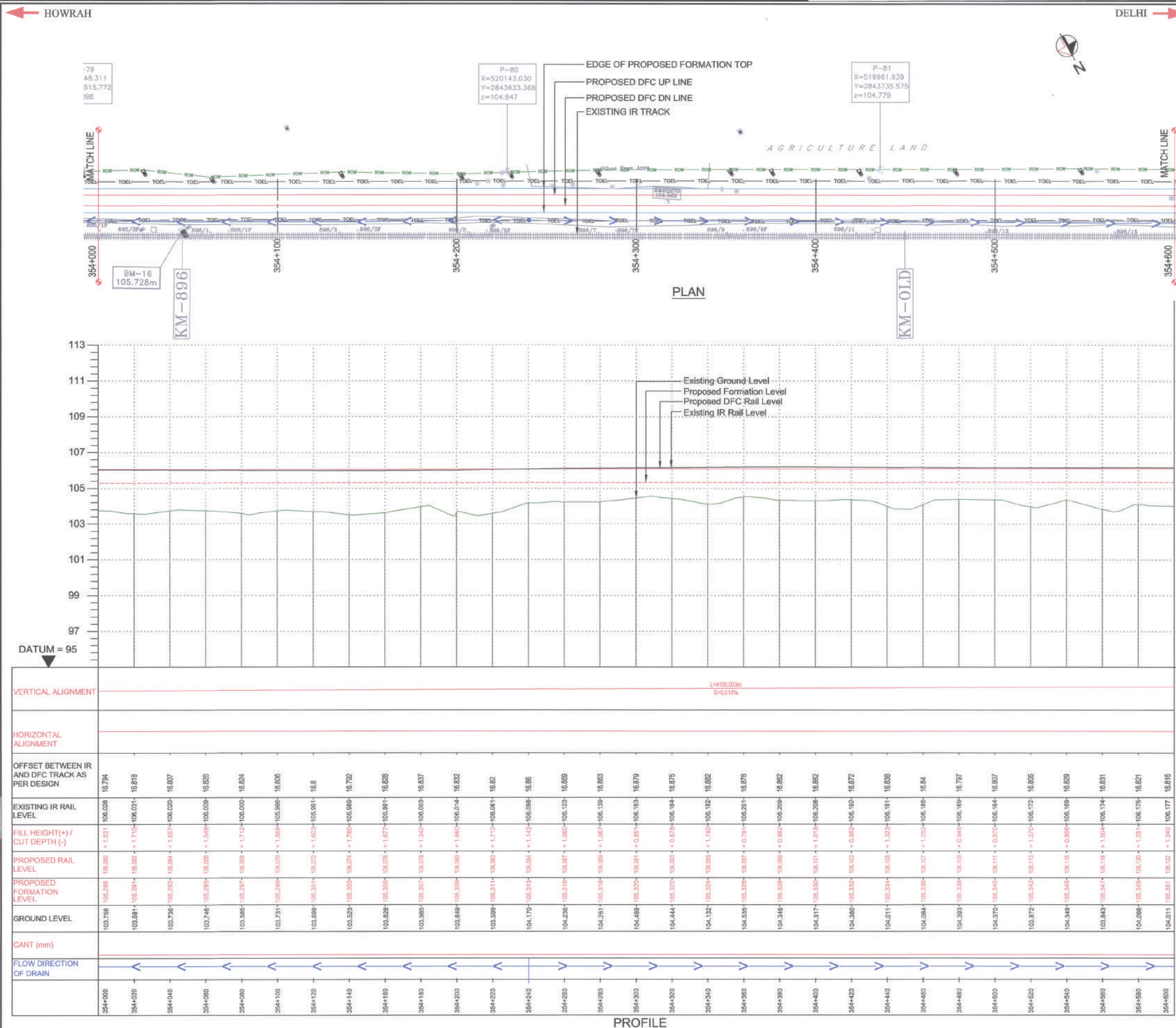
|                |              |
|----------------|--------------|
| SUBMITTED BY : | GIL - SIL JV |
|----------------|--------------|

NOC BY : SYSTRA - Mott MacDonald JV

|               |      |                                                                                       |                                                                                       |
|---------------|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| APPROVAL BY : | DFCC |  |  |
|---------------|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|

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**LEGEND :**

|  |                                  |
|--|----------------------------------|
|  | EXISTING IR TRACK                |
|  | PROPOSED DFCC TRACK              |
|  | DFCC ROW LINE                    |
|  | EXISTING IR TOE LINE             |
|  | DFCC TOE LINE FOR EMB HT < 6.0M  |
|  | FLOW DIRECTION OF PROPOSED DRAIN |
|  | EDGE OF PROPOSED FORMATION TOP   |

- NOTES :**
1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
  2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
  3. TOP WIDTH OF EMBANKMENT / FORMATION IS 13.5m FOR DOUBLE LINE IN STRAIGHT SECTION.
  4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFCC DOWN LINE.
  5. EQUILIBRIUM SPEED HAS BEEN TAKEN AS 100 KMPH.
  6. TRACK CENTER BETWEEN MAIN LINES OF DFCC HAS BEEN KEPT AS MIN. 6.0m AT STRAIGHT SECTION.
  7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFCC TRACKS TO DRAIN OUT RAINWATER.
  8. DRAINAGE FLOW DIAGRAM SHOWN IN PLAN & PROFILE ARE INDICATIVE. HOWEVER DETAIL DRAINAGE SYSTEM DRAWINGS WILL BE SUBMITTED SEPARATELY.
  9. PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFCC TRACKS SHALL BE RELOCATED.
  10. AT THE LOCATIONS WHERE FORMATION HEIGHT IS < 1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT AS 1.75m BY CUTTING THE EARTH.
  11. TROLLEY REFUGE WALL BE PROVIDED ALONG THE ALIGNMENT AS PER CONTRACT.
  12. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

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

**PROJECT :**  
**EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 202)**

**TITLE :**  
**ALIGNMENT PLAN AND PROFILE OF SLICE - 202 B**  
 FROM CH. 354+000 TO CH. 354+600

| DRAWING NO.  | REV | SCALE                    |
|--------------|-----|--------------------------|
| P 2 AL 07115 | D   | HOR : 1:1000 VER : 1:100 |

**REVIEWS**

| REV | DATE       | REMARKS                                                                   |
|-----|------------|---------------------------------------------------------------------------|
| B   | 02.11.2015 | FOR REVIEW                                                                |
| C   | 08.11.2015 | PROFILE MODIFIED                                                          |
| D   | 25.11.2015 | REVISION MADE AS PER PMC LETTER NO. PMCS/DFCC/2015/05/08 DATED 23.11.2015 |

**DRAWING STAGE**  
☒ FOR APPROVAL  
☐ GOOD FOR CONSTRUCTION

**PMC :**  
**SYSTRA - Mott MacDonald JV**

**CONTRACTOR :**  
**GIL - SIL JV**

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

| DATE  | NAME       | SIGN.     |
|-------|------------|-----------|
| DRAWN | 27.11.2015 | A.Das     |
| CHKD. | 27.11.2015 | SP        |
| APPD. | 27.11.2015 | S.K. AICH |

**SUBMITTED BY :** **GIL - SIL JV**

| DATE  | NAME       | SIGN.      |
|-------|------------|------------|
| CHKD. |            |            |
| APPD. | 27.11.2015 | Y. Kishore |

**NOC BY :** **SYSTRA - Mott MacDonald JV**

| DATE  | NAME    | SIGN.          |
|-------|---------|----------------|
| CHKD. | 7.12.15 | S. S. PATEL    |
| NOC   | 7.12.15 | P. AMERI KANOS |

**APPROVAL BY :** **DFCC**

| DATE  | NAME     | SIGN.    |
|-------|----------|----------|
| CHKD. |          |          |
| APPD. | 13.12.15 | R. Yadav |

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Nov 23, 2015 - 11:06am (1) PP\_Km\_344+200 to Km\_352+000\_R2-D.dwg



