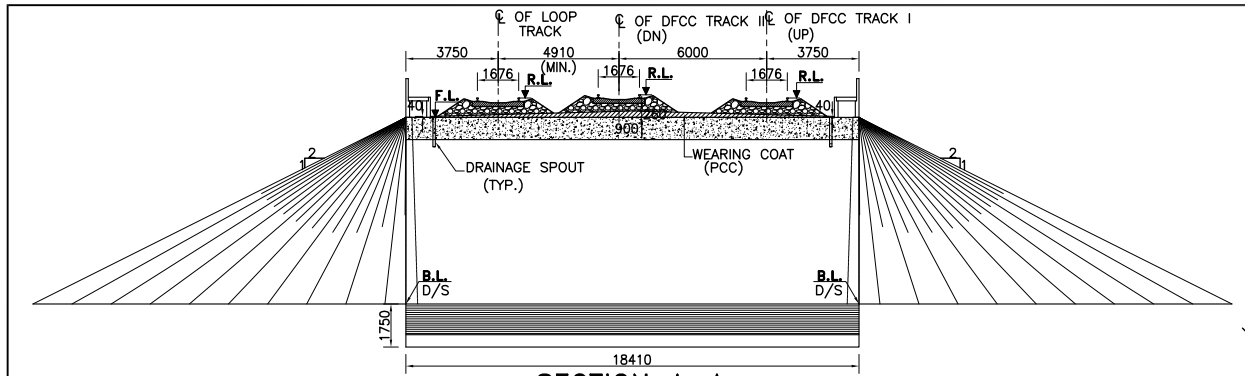
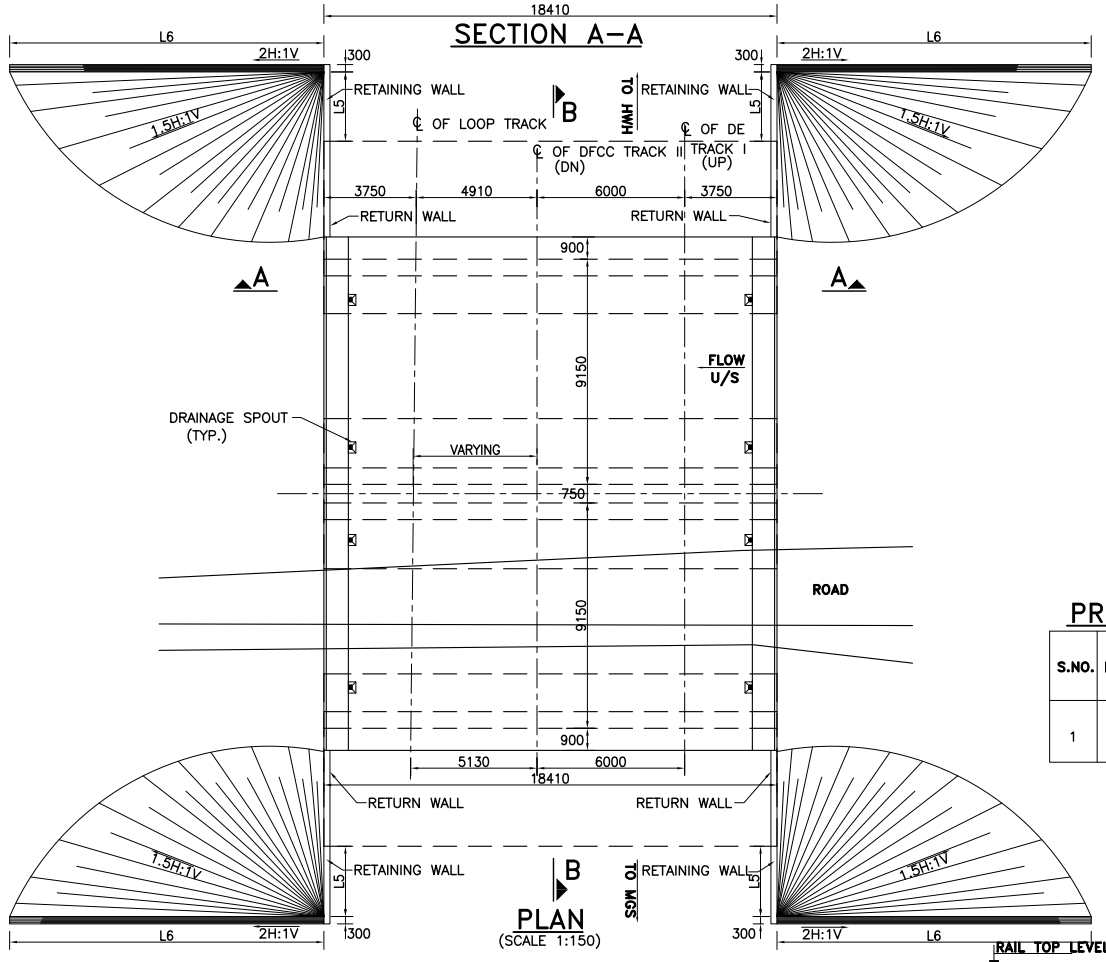
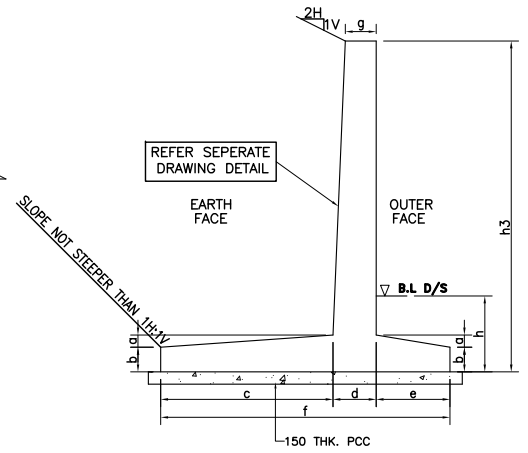



## SECTION A–A



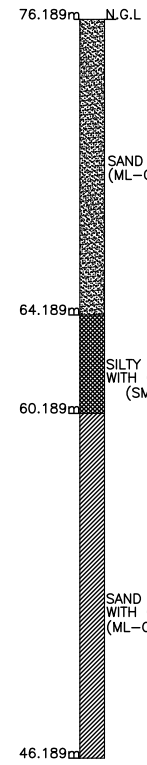

## PLAN
(SCALE 1:150)



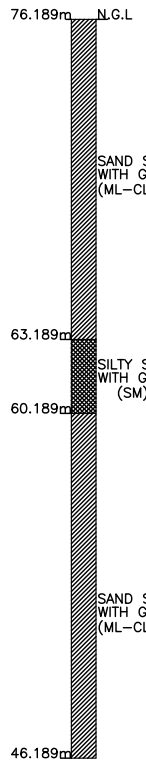

## TYPICAL SECTION FOR RETURN WALL
(SCALE 1:25)

## PROPOSED DIMENSIONS DETAILS(M.M)

| L5 | L6 | h3 |
|---|---|---|
| 8895 | 11860 | 9594 |




## DETAILS OF BH–1



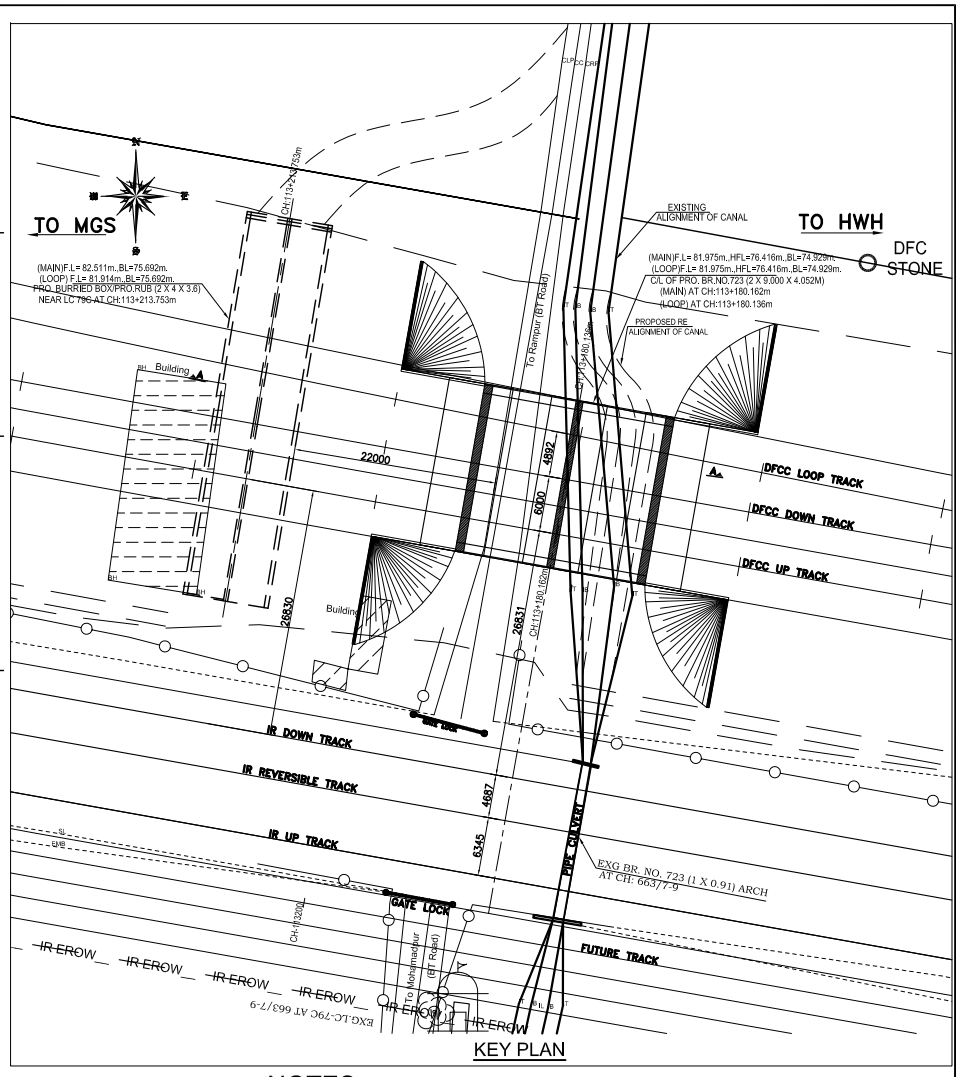

## DETAILS OF BH–2

## PROPOSED BRIDGE DETAILS

| S.NO. | BR.NO. | CHAINAGE | PROPOSED BRIDGE SPAN | F.L (DFCC TRACK) (m) | F.L (LOOP TRACK) (m) | H.F.L (m) | B.L U/S (m) | B.L D/S (m) | FREE BOARD (m) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 723 | 113+180.136 | 2 X 9.150M X 4.052M RCC FRAME | 81.975 | 81.975 | 76.416 | 74.929 | 74.113 | 5.559 |

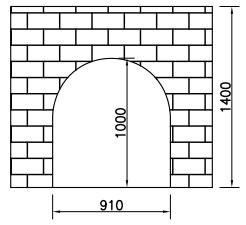
## EXISTING BRIDGE DETAILS

| S.NO. | BR.NO. | EXISTING BRIDGE SPAN | F.L (m) | H.F.L (m) | B.L (m) | FREE BOARD (m) | RAILWAY CHAINAGE |
|---|---|---|---|---|---|---|---|
| 1 | 723 | 1 X 0.91M X 1.00M BRICK ARCH | 76.569 | 76.416 | 74.929 | 0.153 | 663/7–9 |

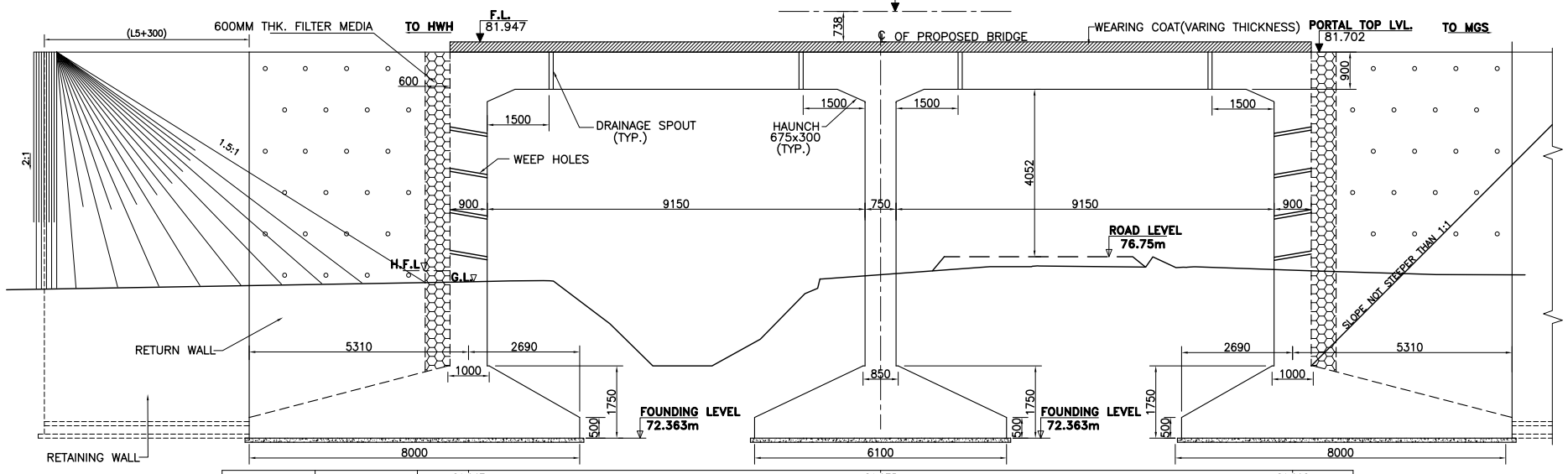



## NOTES:–

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENIONS SHALL BE FOLLOWED.
3. SAFETY & PROTECTION OF THE PROPOSED WORK AND SAFETY & PROTECTION OF THE RUNNING TRAIN ON EXISTING TRACK IS TO BE ENSURED BY THE CONTRACTOR.
4. EXCAVATION / DISMANTLING OF ANY PORTION OF EXISTING BRIDGE OR ANY ELEMENT OF EXISTING PERMANENT WAY OR ANY WORK AFFECTING SAFETY OF THE EXISTING BRIDGE / PERMANENT WAY OR SAFETY OF THE RUNNING TRAINS WILL REQUIRE APPROVAL OF THE CONCERNED ZONAL RAILWAY & COMPLIANCE OF THE SAFETY REQUIREMENT AS DIRECTED BY INCHARGE AT SITE.
5. STONE PITCHING ON SLOPES OF BANK ON APPROACHES OF BRIDGE IF REQUIRED SHALL BE PROVIDED DEPENDING ON SITE CONDITION. THIS SHALL BE DECIDED BY INCHARGE AT SITE.
6. THE BRIDGE IS DESIGNED FOR MODERATE EXPOSURE CONDITION
7. GRADE OF CONCRETE SHALL BE DESIGN MIX AND 28 DAY CHARACTERISTIC STRENGTH OF VARIOUS COMPONENTS SHALL BE AS UNDER:–
   a. RCC FRAME /RETURN WALL .....M35
   b. BALLAST RETAINER /RCC TROUGH .....M30
   d. LEVELING COURSE PCC .....M20
   e. FOOTING .....M35
   d. WEARING COAT PCC .....M35
8. GRADE OF REINFORCEMENT STEEL Fe–500 CONFORMING TO IS 1786–2008
9. FOR WALL OF PORTAL FRAME MINIMUM CLEAR COVER TO REINFORCEMENT SHALL BE EARTH FACE 75MM NON EARTH FACE 50MM
10. FOR SLAB OF PORTAL FRAME MINIMUM CLEAR COVER TO REINFORCEMENT SHALL BE 40MM
11. ø VALUE FOR BACKFILL MATERIAL SHALL NOTE BE LESS THAN 30° BACKFILL MATERIAL BEHIND ABUTMENTS. WING WALLS AND RETURN WALLS SHALL BE PROVIDED.
12. ALL WORKS ARE TO BE CARRIED OUT AS PER THE FOLLOWING STANDARD & SPECIFICATION.
    a. IRS BRIDGE RULES.
    b. IRS CONCRETE BRIDGE CODE.
    c. IRS SUB STRUCTURE & FOUNDATION CODE.
    d. DFCC SPECIFICATIONS.
    e. IRS BRIDGE MANUAL.
13. DEPTH AND TYPE OF MATERIAL FOR FOUNDATION OF PROTECTION WORK SHALL BE PROVIDED AS PER GT RECOMMENDATION.
14. SOIL DENSITY –1.8T/m3 ANGLE OF INTERNAL FRICTION ø=30°.
15. LEVELS SHOWN IN THE DRAWING SHALL BE VERIFIED AT SITE BEFORE PROCEEDING FOR CONSTRUCTION.
16. SBC REQURMENT@ BOTTOM LEVEL FOUNDATION –21.5T/m².
17. FILTER MEDIA SHALL BE PROVIDED IN ACCORDANCE TO CLAUSE 2504.2.2 OF MOST SPECIFICATION




## BRIDGE UNDER TRACK 1 (UP LINE–IR TRACK) DET.OF EXG. BRIDGE No. 723
(SCALE 1:30)




| | | | | |
|---|---|---|---|---|
| DFCC MAIN TRACK | FORMATION LEVELS | 81.947 | 81.975 | 81.998 |
| | GROUND LEVELS | 76.125 | 76.298 | 76.407 |
| | CHAINAGE | 113+170.161 | 113+180.136 | 113+190.111 |
| DFCC LOOP TRACK | FORMATION LEVELS | 81.947 | 81.975 | 81.957 |
| | GROUND LEVELS | 75.974 | 75.249 | 76.285 |
| | CHAINAGE | 113+170.161 | 113+180.136 | 113+190.111 |

## HALF ELEVATION D/S

## SECTION B–B
(SCALE 1:75)

## HALF SECTION U/S

## NOTES:–
DIMENSIONS OF OPEN FOUNDATION
IT MAY CHAINGE DURING DETAIL DESING

ABBREVIATIONS

| | |
|---|---|
| R.L : RAIL LEVEL. | U/S : UP STREAM. |
| F.L : FORMATION LEVEL. | D/S : DOWN STREAM. |
| B.L : BED LEVEL. | ROW : RIGHT OF WAY. |
| S.L : SCOUR LEVEL. | G.T. : GEOTECHNICAL. |
| Bn : BETWEEN | TH : THICK. |
| G.L : GROUND LEVEL. | CH. : CHAINAGE. |
| N.G.L : NATURAL GROUND LEVEL. | No. : NUMBER. |
| H.F.L : HIGHEST FLOOD LEVEL. | Br. : BRIDGE. |
| IR : INDIAN RAILWAY. | EXG. : EXISTING. |
| DFC : DEDICATED FREIGHT CORRIDOR. | PROP. : PROPOSED. |
| P.C.C. : PLAIN CENENT CONCRETE. | ℄ : CENTRE LINE |
| R.C.C. : REINFORCEMENTD CENENT CONCRETE. | MGS. : MUGHAL SARAI. |
| GSB. : GRANULAR SUB BASE. | FDL. : FOUNDING LEVEL. |
| TYP. : TYPICAL. | REF. : REFER. |
| ø : FRICTION ANGLE FOR SOIL | |

LOADING STANDARD: AS PER CONTRACT

| TRACK DETAIL | |
|---|---|
| ALIGNMENT | STRAIGHT |
| GRADE | LEVEL |

| REV. NO. | DATE | STATUS | DESCRIPTION | DESIGNED | DRAWN | CHECK | DESIGN CONS. (PC,) |
|---|---|---|---|---|---|---|---|
| C | | | | | | | |
| B | 16.03.16 | P | FOUNDATION DIMENSIONS REVISED | AKA | SS | KSN | |
| A | 17.02.16 | P | FOUNDATION CHAINED AS PER DESIGN | SK | SS | KSN | |
| 0 | 14.01.16 | P | FIRST SUBMISSION | SK | SS | KSN | |

डेडीकेटेड फ्रेट कोरीडोर

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

SRINAGANJANEYULU
SR. MANAGER (BRIDGE)
(ASC Infratech Pvt. Ltd.)

| PM | CPM | RE | TL | APM | DY CPM | CPM | GM |
|---|---|---|---|---|---|---|---|
| IL & FS Engg-GPT JV | | ICT / PMC | | DFCCIL / MGS | | | ENGG-3/DFCCIL / DELHI |

**IL & FS Engg - GPT (JV)**
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Sanali Info Park,Cyber Towers,Road No.2,
Banjara Hills,Hyderabad-500033,India
Tel.No+91-40-40409333 Fax.No+91-40-40409444.

| | |
|---|---|
| PROJECT : | **Design & Construction of Rail Flyover Near Ganjkhwaja on Lumpsum Basis in different stretches between Dehri -on-Sone & Mughal Sarai of Eastern Dedicated Freight Corridor** |
| DETAIL : | GENERAL ARRANGEMENT DRAWING BRIDGE NO.723 CH:- 113+180.136(2 X 9.150M X 4.052M RCC FRAME) |
| SCALE : | |
| DFCCIL DRG.NO | ASC/ILFS-GPT/DFC-EC/MJBR/723/101 (SHEET 1 OF 2) REVISION B |

**ASC Infratech Pvt. Ltd.**
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Fax: 0120-4237953, email: info@ascinfratech.com

STATUS P