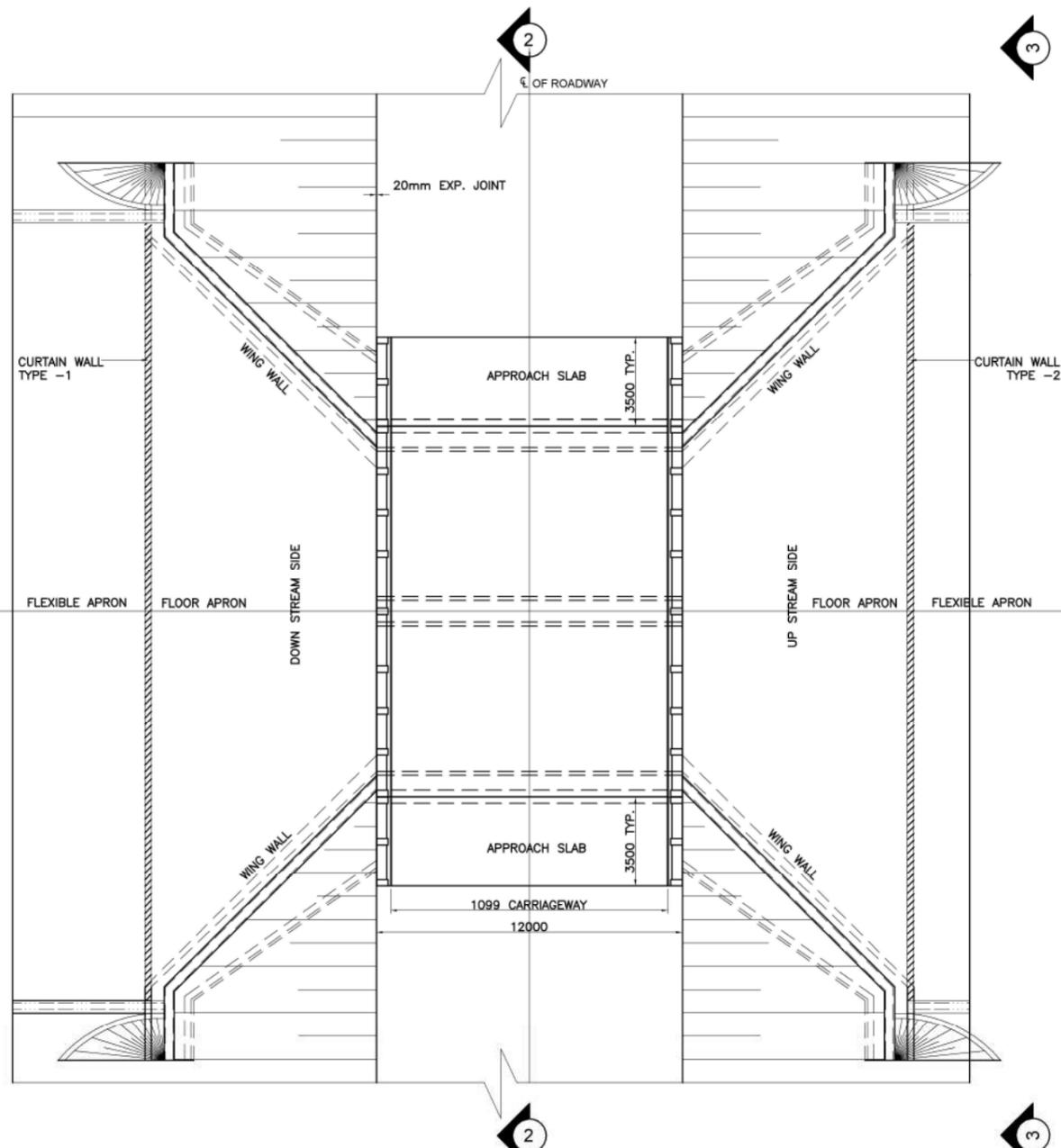


SECTION 1-1
SCALE : 1:125



PLAN
(SCALE 1:125)

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

- GENERAL NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. NO DRAWING SHALL BE SCALED.
 - DESIGN CRITERIA:
(1.) THIS DESIGN IS ACCORDING TO THE FOLLOWING CODES:
a. IRC : 5 - 1985
b. IRC : 6 - 1966 (1985 REPRINT)
c. IRC : 21- 1987 (1997 REPRINT)
d. IRC : 78 - 1985
(2.) THE FOLLOWING LOADS HAVE BEEN CONSIDERED IN THE DESIGN:
(a) ONE LANE OF IRC CLASS 70R OR TWO LANES OF CLASS A ON CARRIAGE WAY, WHICH EVER GAVERNS.
(b) WEARING COAT LOAD OF 3 KN/Sq.M.
(3.) THE DESIGN ARE APPLICABLE FOR 'MODERATE' AND 'SEVERE' CONDITIONS OF EXPOSURE.
 - TYPE/POSITION OF RETURN WALLS RAILINGS , GUARDS, POSTS, RAMP, ETC. IN APPROACH PORTION SHALL BE DECIDED BY THE ENGINEER-IN-CHARGE.
 - INVERT LEVEL OF TOP SURFACE OF BOTTOM SLAB IS ASSUMED AS BED LEVEL.
 - BACK FILLING MATERIAL SHOULD CONFIRM TO CL 305.2 OF MOST SPECIFICATION AND EARTH CUSHION EMBANKMENT SHOULD BE CONSTRUCTED IN ACCORDANCE TO SECTION 300 OF MOST SPECIFICATION (THIRD REVISION 1995).
 - THE ASPHALT PLUG EXPENTION JOINT SHALL BE PROVIDED IN ACCORDANCE WITH MOST SPECIFICATION AND SHALL BE PROCURED FROM MANUFACTURERS AS APPROVED BY MOST
 - THE WORK SHALL BE EXECUTED IN ACCORDANCE WITH MOST'S SPECIFICATION FOR ROAD AND BRIDGE WORKS (THIRD REVISION, 1994) EXCEPT WHEREVER OTHERWISE MENTIONED.

TABLE-1	
DETAILS	PROPOSED DFC
PACKAGE	3
SECTOR	5
BRIDGE NO.	334A
CHAINAGE	168635.000
SPAN CONFIGURATION	2x8.10mx4.0m
TYPE OF STRUCTURE	RCC BOX (FOR ROAD ON CANAL)
TYPE OF CROSSING	CANAL
F.S.L. R.L. (METER)	36.200

Project Title :
Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)

Client :
 **Dedicated Freight Corridor Corporation of India**
(A GOVERNMENT OF INDIA UNDERTAKING)
5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

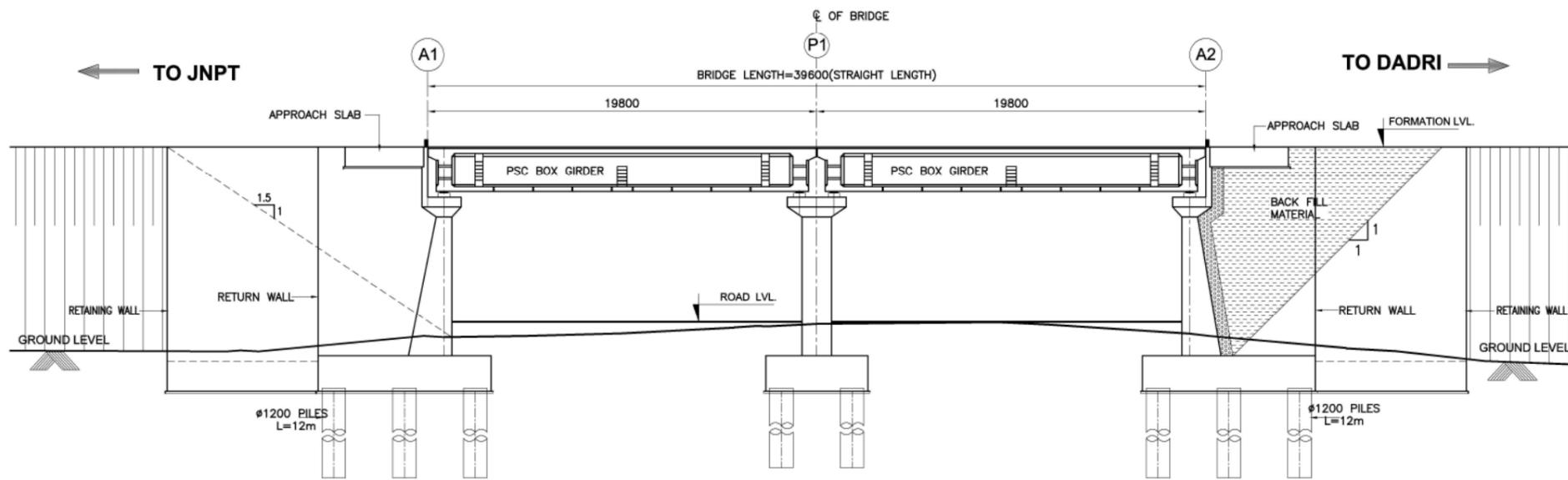
Drawing Title :
STANDARD DRAWING FOR DOUBLE
CELL BOX CULVERT
(FOR ROAD LOADING)

Drawing Number :
NKC-CTS-ROAD-00001 (SHEET 1 OF 2)
Scale : AS SHOWN
Reference :
Drawn By : RADHA
Checked By : DINESH SHARMA
Approved By : T-NAKANO

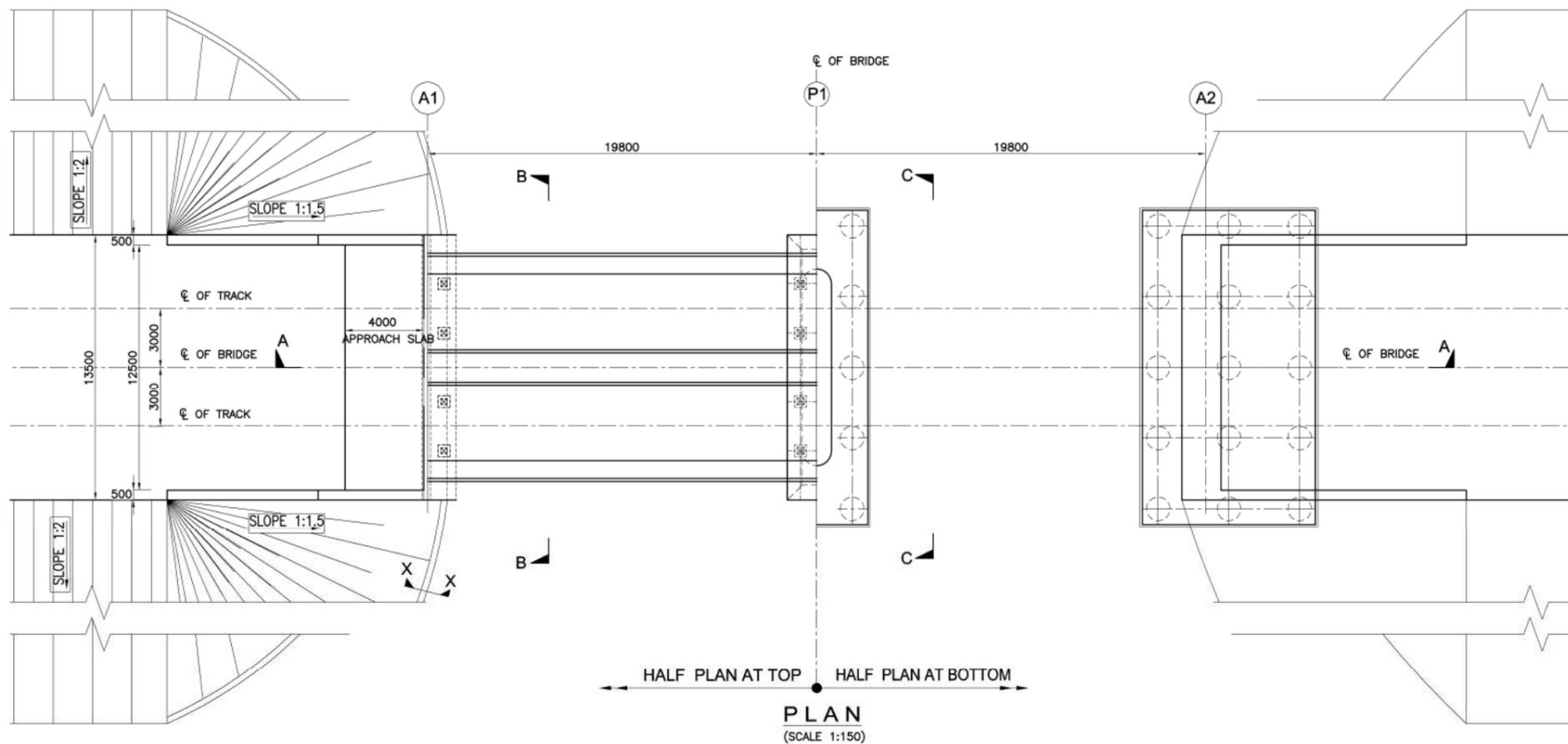


NK Consortium

4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA



SECTIONAL ELEVATION A-A
(SCALE 1:150)



PLAN
(SCALE 1:150)

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

- GENERAL NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
 2. ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
 3. ALL DIMENSIONS AND LEVEL SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
 4. THIS GENERAL ARRANGEMENT DRAWING IS INDICATIVE AND IS MEANT ONLY FOR GUIDANCE FOR THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DEVELOPED & DESIGNED BY THE CONTRACTOR AS PER THE EMPLOYER'S REQUIREMENTS, SPECIFICATIONS AND SITE DIMENSIONS / CONDITIONS AND SHALL BE APPROVED BY ENGINEER / EMPLOYER.
 5. ALL DIMENSIONS SHALL BE VERIFIED WITH RESPECT TO EXISTING IR BRIDGES ON THE PARALLEL ALIGNMENT AND RECONCILED BEFORE EXECUTION.
 6. FORMATION LEVEL SHOWN IN GAD IS AS PER PROPOSED LONGITUDINAL SECTION OF THE ALIGNMENT AND MAY CHANGE DURING DEVELOPMENT OF DETAILED DESIGN STAGE.
 7. LENGTH OF RETURN WALL / WING WALL / TOE WALL / PITCHING ETC. IS TO BE DECIDED AS PER THE SITE CONDITION.
 8. GROUND PROFILE SHOULD BE VERIFIED BEFORE EXECUTION.
- SUPERSTRUCTURE & SUBSTRUCTURE**
- 1) THE BRIDGE SHALL BE DESIGNED AS PER DFCCI LOADING (32.5T AXLE LOAD) BRIDGE RULE, ISSUED BY RDSO. (WITH LATEST CORRECTION SLIP).
 - 2) THE BRIDGE SHALL BE DESIGNED AS PER THE SEISMIC ZONE FOR THE AREA.
 - 3) BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - 4) WEEP HOLES SHALL BE OF PROVIDED IN RETURN WALL & ABUTMENT.
 - 5) JOE FOUNDATION BOLTS SHALL BE PROVIDED IN CONSULTATION WITH THE CONTRACTOR OF EMP-4.
 - 6) RAILING EXPANSION JOINTS, BEARING, WEARING COAT, FOOTPATH, SERVICE DUCT, DRAINAGE SHALL BE PROVIDED AS PER SPECIFICATION.
 - 7) FOR INSPECTION OF BEARING / SUPERSTRUCTURE, SUITABLE ARRANGEMENT SHALL BE PROVIDED.
 - 8) FOR CHANGING OF BEARING SUITABLE ARRANGEMENT SHALL BE PROVIDED.
- GEO-TECHNICAL**
- 1) FOR TENDER PURPOSE REFER TO GEOTECHNICAL INVESTIGATION REPORT.
 - 2) GEO-TECHNICAL BORE HOLE DATA REFERRED IN GAD IS INDICATIVE ONLY.
 - 3) DETAILED GEO-TECHNICAL INVESTIGATION SHALL BE CARRIED OUT DURING DETAILED DESIGN STAGE.

TABLE-1

DETAILS	PROPOSED DFC	PROPOSED DFC
PACKAGE	3	3
SECTOR	7	6
BRIDGE NO.	262A	116
CHAINAGE	102570	34451
SPAN CONFIGURATION (C/C) OF PIER	2X18.3m	2X18.3m
OVERALL SPAN (mm)	19750	19750
EFFECTIVE SPAN (mm)	18150	18150
CLEAR SPAN (mm)	18300	18300
TYPE OF STRUCTURE	POST TENSIONED BOX GIRDER	POST TENSIONED BOX GIRDER
DEPTH OF SUPERSTRUCTURE (mm)	2290	2290
TYPE OF CROSSING	MAJOR ARTERIAL ROAD	STATE HIGHWAY
BRIDGE (STRAIGHT/CURVE/SKEW)	STRAIGHT	STRAIGHT
FORMATION LEVEL R.L. (METER)	51.404	28.753
BED LEVEL / ROAD LEVEL R.L. (METER)	43.96	21.016
VERTICAL CLEARANCE MIN. (mm)	5000	5000
TYPE OF FOUNDATION	PILE FOUNDATION	PILE FOUNDATION
BRIDGE BEARING (ELASTOMER WITH SUITABLE RESTRAINTS)	FIX - FREE	FIX - FREE

GENERAL ARRANGEMENT DRAWING (SHEET 1 OF 3)

APPROVED
DESIGNATION INITIALS OF APPROVING OFFICIALS

CPM / DFCCIL / AHMEDABAD G.G.M. / DESIGN
DPM / DFCCIL / AHMEDABAD G.G.M. / ENGG.
APM / DFCCIL / AHMEDABAD J.G.M. / DESIGN

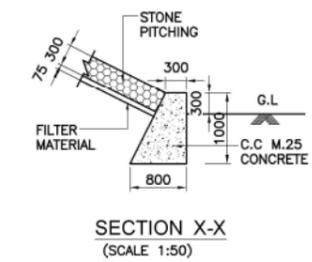
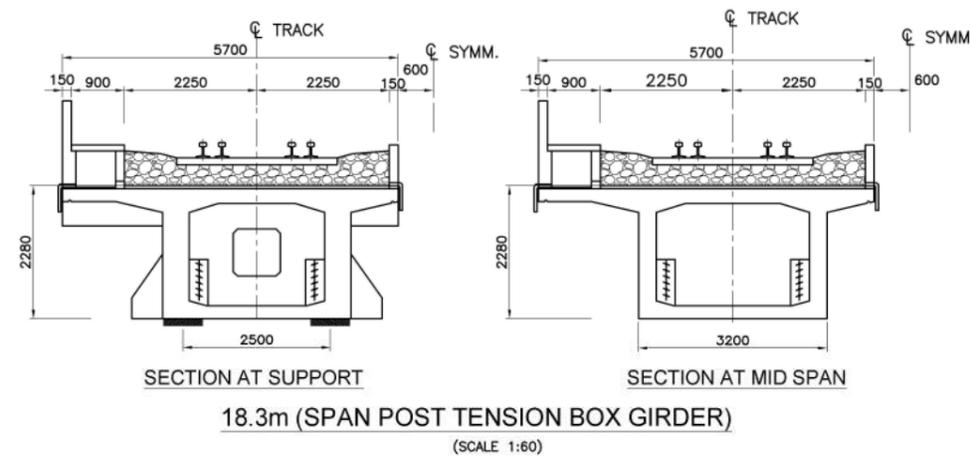
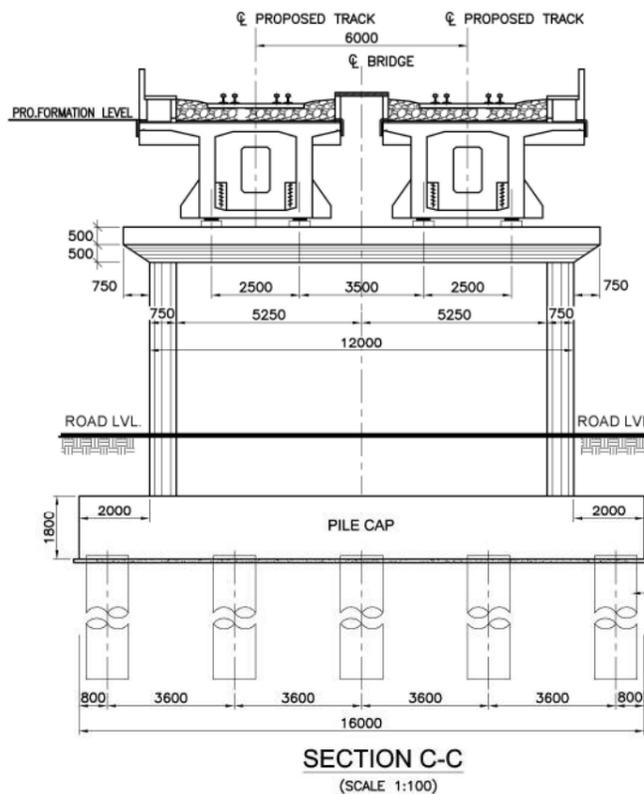
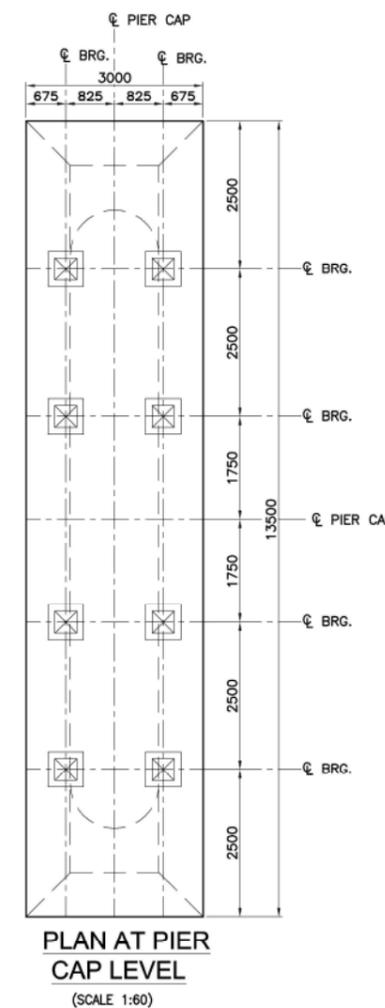
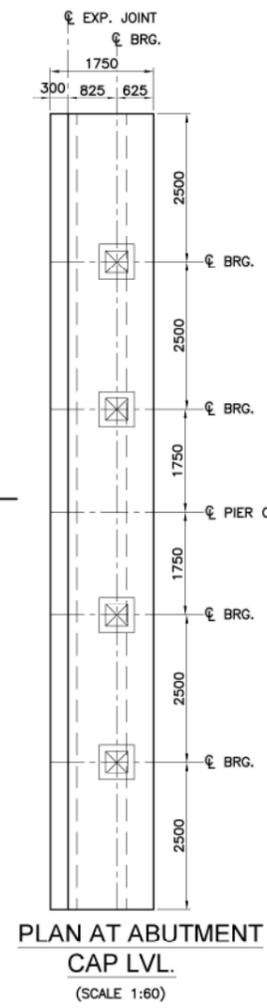
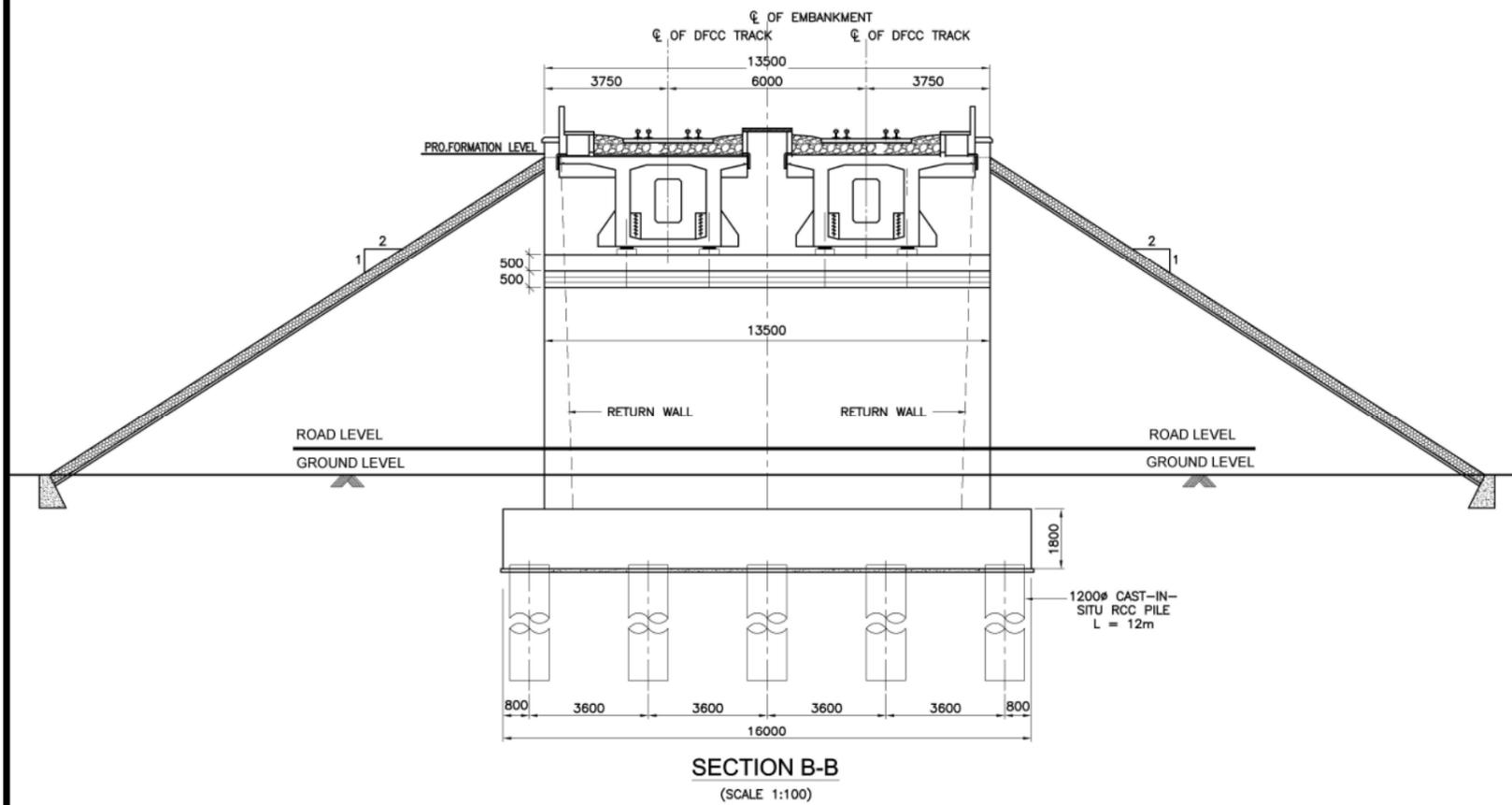
CHECKED BY CONSULTANT:
SECTION 7 & 6
BRIDGE NO. 262A & 116
CHAINAGE 102570 & 34451
KM (IR)
SPAN 2X18.3m
POST TENSIONED BOX GIRDER

THIS DRAWING WAS ORIGINALLY PREPARED BY HYDROPNEUM SYSTEM AND REVIEWED/MODIFIED BY NIPPON KOEI CONSORTIUM. REFER TO TABLE-1 FOR THE DIMENSION OF THE BRIDGE.

THIS DRAWING IS PROPERTY OF DFCC (MULTI STATE RAILWAY), NEW DELHI. IT IS NOT TO BE USED, COPIED OR REPRODUCED IN PART OR WHOLE WITHOUT PRIOR CONSENT IN WRITING.

CONSULTANT:
HYDROPNEUM SYSTEMS
RAGHUVANSHI, CTS NO. 755/80,
PLOT NO - 78, 1st Floor, MAYUR COLONY,
KOTHRUD, PUNE - 411038.

GENERAL ARRANGEMENT DRAWING
FOR CONSTRUCTION OF BRIDGE NO. 262A & 116
(2X18.3m) POST TENSIONED BOX GIRDER BRIDGE.
DFCCIL - WESTERN CORRIDOR



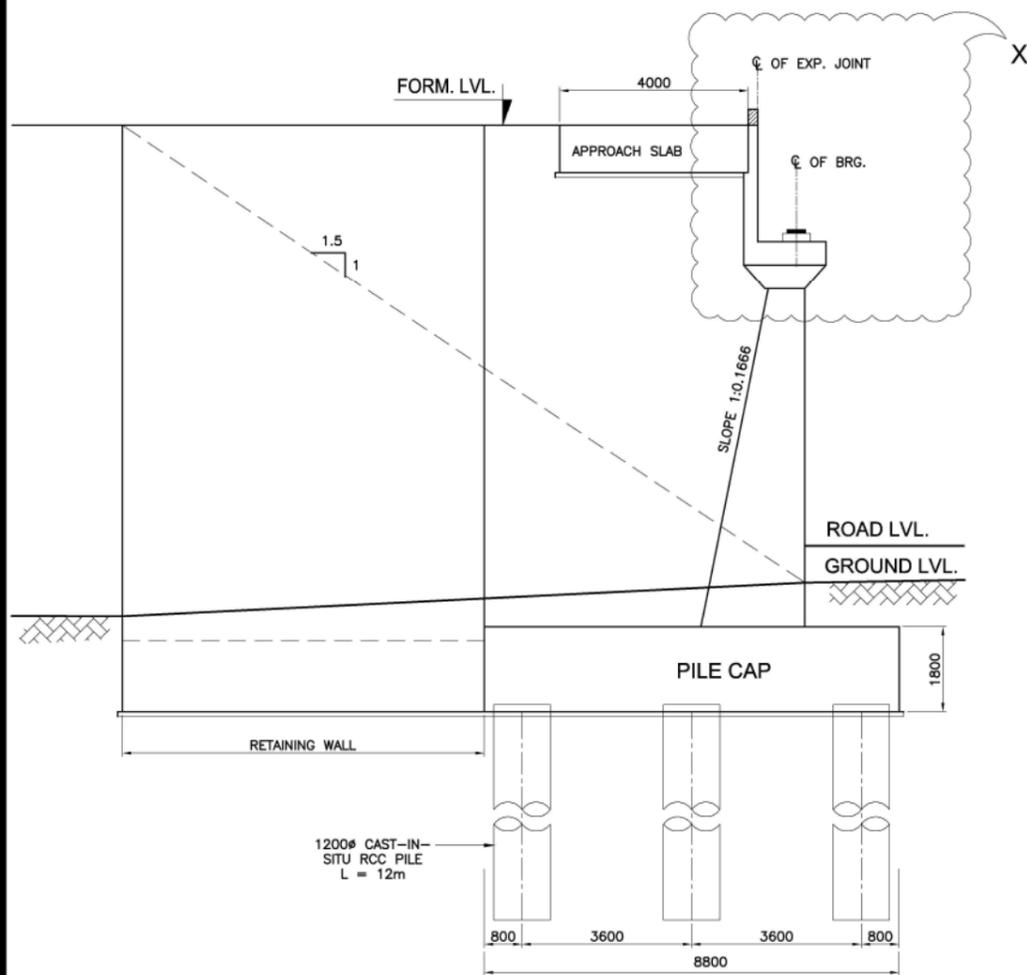
Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

THIS DRAWING WAS ORIGINALLY PREPARED BY HYDROPNEUM SYSTEM AND REVIEWED/MODIFIED BY NIPPON KOEI CONSORTIUM. REFER TO TABLE-1 FOR THE REVISION OF THE BRIDGE.

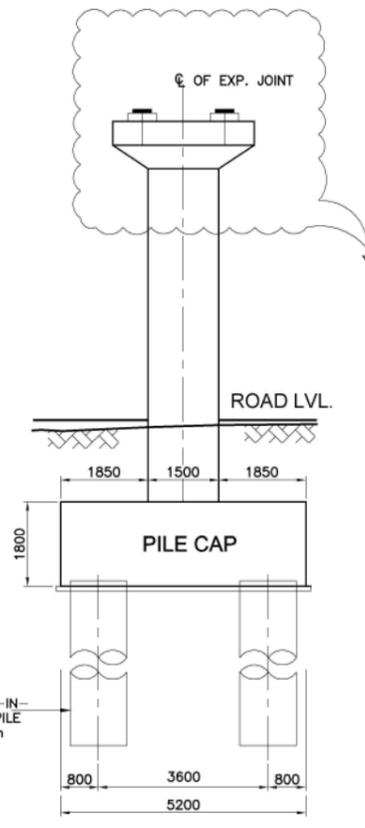
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CONSULTANT:
HYDROPNEUM SYSTEMS
RAGHUVANSHI, CTS NO. 755/80
PLOT NO - 78, 2nd Floor, MAYUR COLONY,
KOTHRUD, PUNE - 411038.

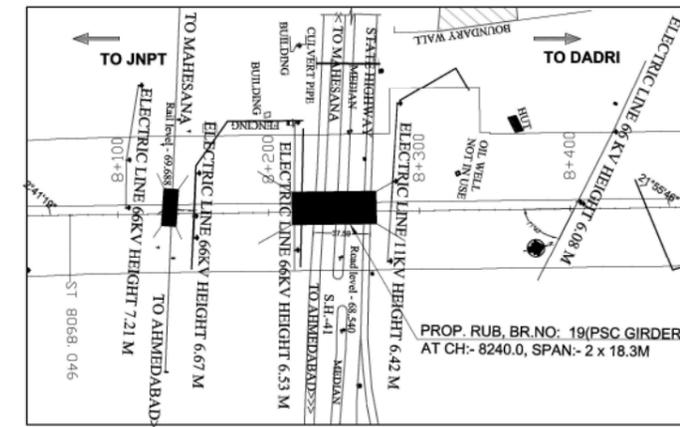
GENERAL ARRANGEMENT DRAWING (SHEET 2 OF 3)	
APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
CPM / DFCCIL / AHMEDABAD	G.G.M. / DESIGN
DPM / DFCCIL / AHMEDABAD	G.G.M. / ENGG.
APM / DFCCIL / AHMEDABAD	J.G.M. / DESIGN
CHECKED BY CONSULTANT:	
SECTION	7 & 6
BRIDGE NO.	262A & 116
CHAINAGE	102570 & 34451
KM (IR)	-
SPAN	2X18.3m
	POST TENSIONED BOX GIRDER
DRG. NO.	
GENERAL ARRANGEMENT DRAWING	
FOR CONSTRUCTION OF BRIDGE NO. 262A & 116 (2X18.3m) POST TENSIONED BOX GIRDER BRIDGE.	
DFCCIL - WESTERN CORRIDOR	



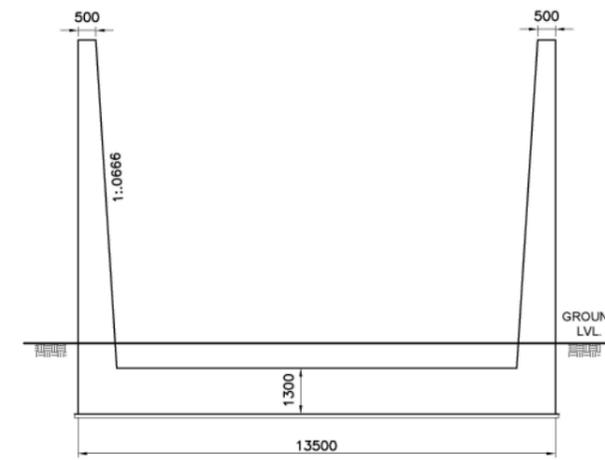
ABUTMENT DETAIL - A1
(SCALE 1:75)



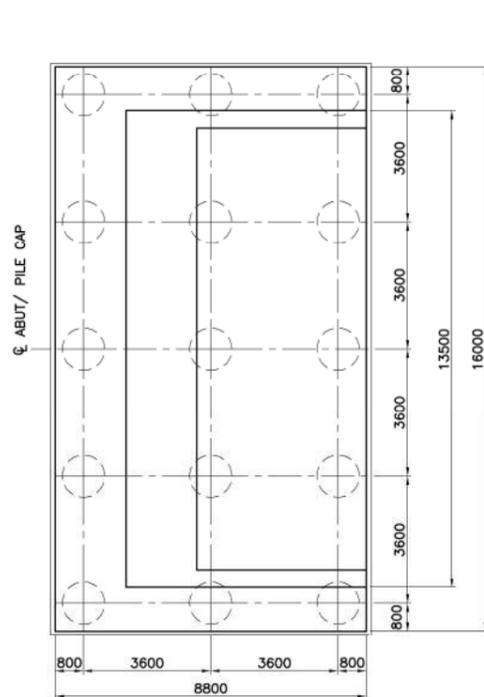
TYPICAL DETAIL OF PIER
(SCALE 1:75)



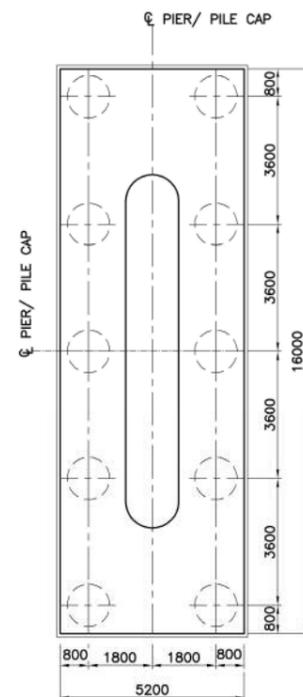
KEY-PLAN



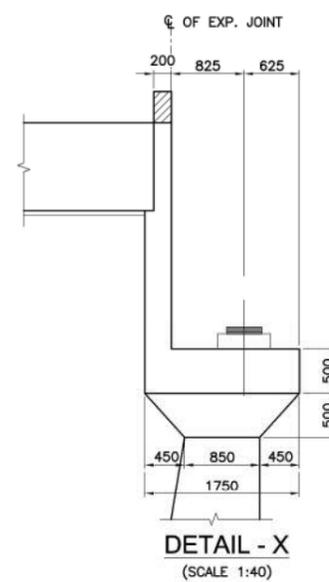
DETAIL OF RETAINING WALL
(SCALE 1:100)



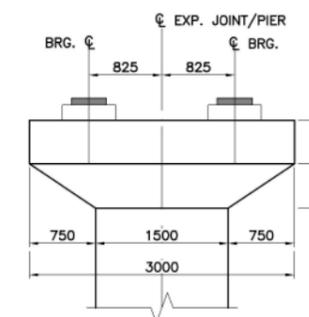
PLAN AT PILE CAP LEVEL FOR ABUTMENT
(SCALE 1:100)



PLAN AT PILE CAP LEVEL FOR PIER
(SCALE 1:100)



Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder



DETAIL - Y
(SCALE 1:40)

THIS DRAWING WAS ORIGINALLY PREPARED BY HYDROPNELIM SYSTEM AND REVIEWED/MODIFIED BY NIPPON KOEI CONSORTIUM. REFER TO TABLE-1 FOR THE POSITION OF THE BRIDGE.

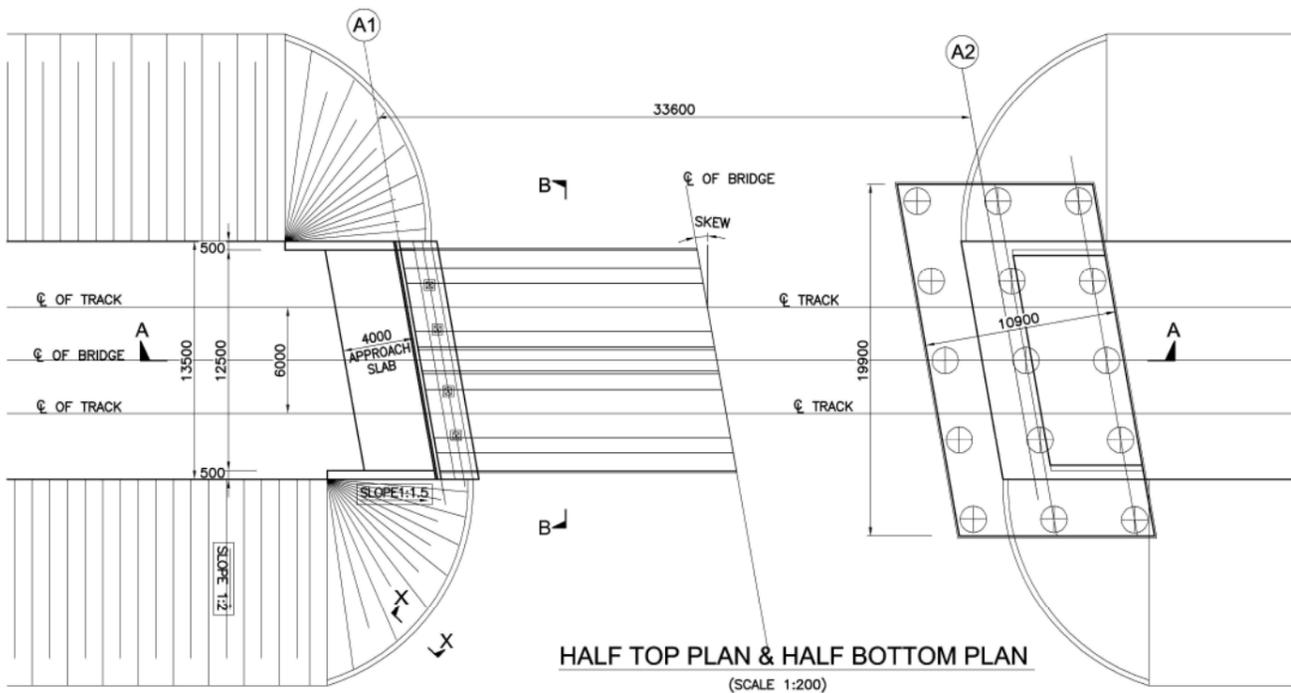
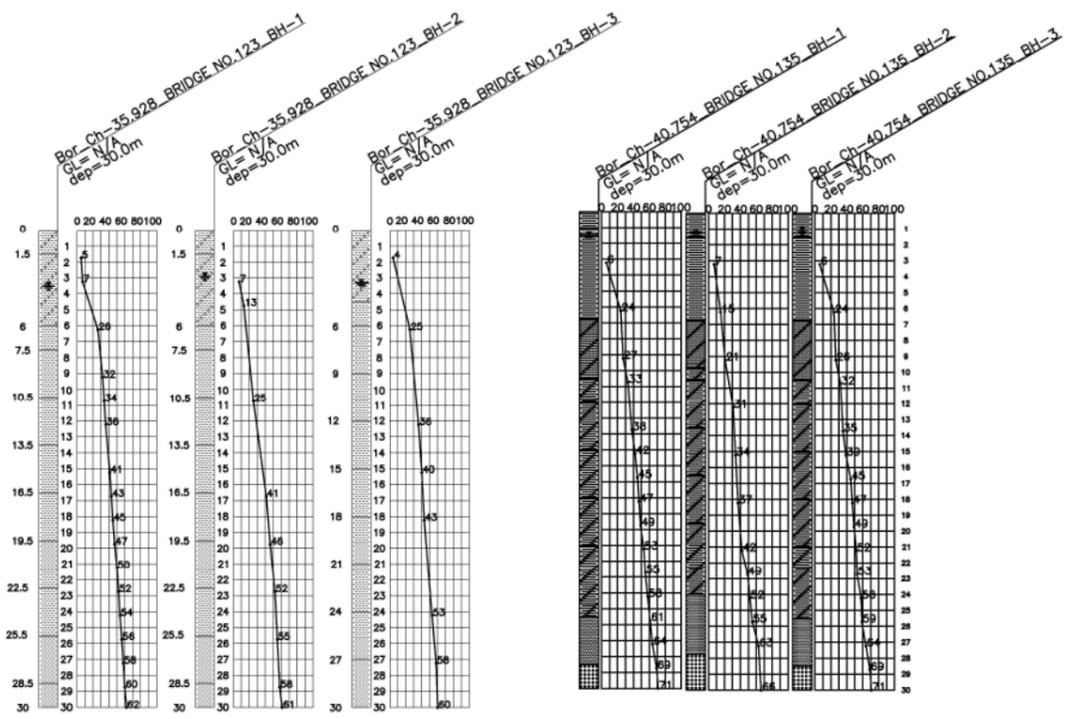
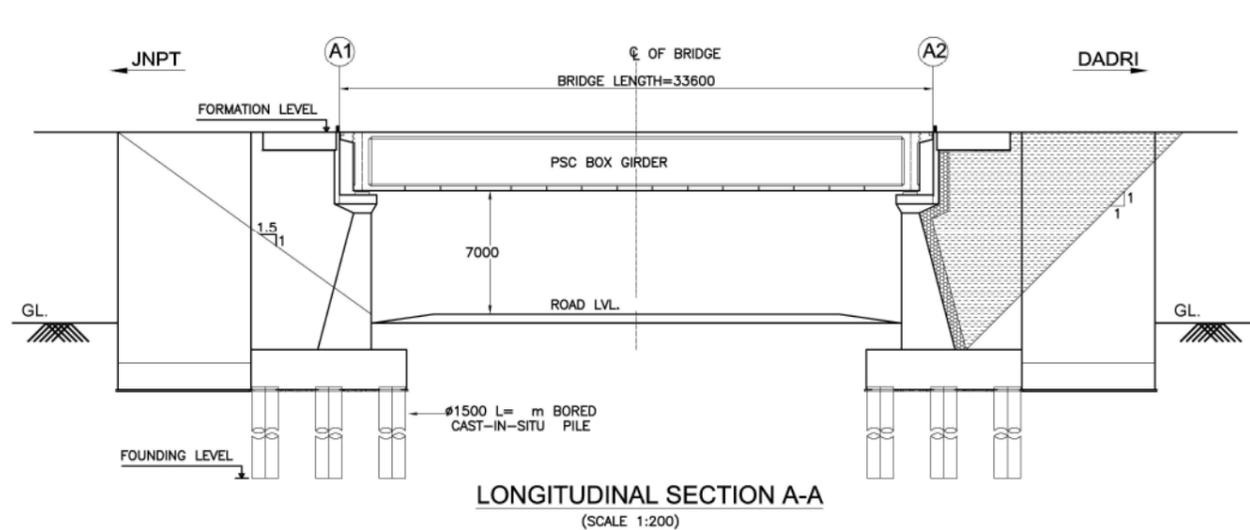
THIS DRAWING IS PROPERTY OF DFCC (INDIA) RAILWAY, NEW DELHI. IT IS TO BE USED, COPIED OR REPRODUCED IN PART OR WHOLE WITHOUT PRIOR PERMISSION IN WRITING.

CONSULTANT: HYDROPNELIM SYSTEMS
RAGHUVANSH, CTS NO. 755/80
PLOT NO-78, 2nd Floor, MAYUR COLONY,
KOTHRUD, PUNE - 411038.

GENERAL ARRANGEMENT DRAWING (SHEET 3 OF 3)	
APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
CPM / DFCCIL/ AHMEDABAD	G.G.M. / DESIGN
DPM / DFCCIL/ AHMEDABAD	G.G.M. / ENGG.
APM / DFCCIL/ AHMEDABAD	J.G.M. / DESIGN

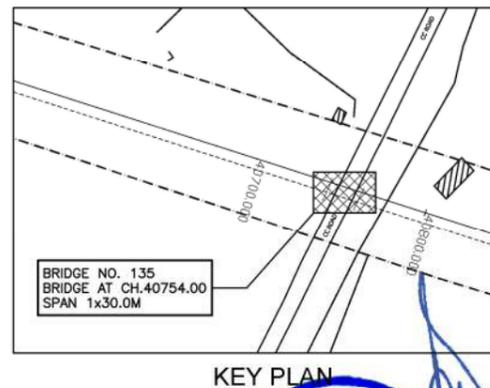
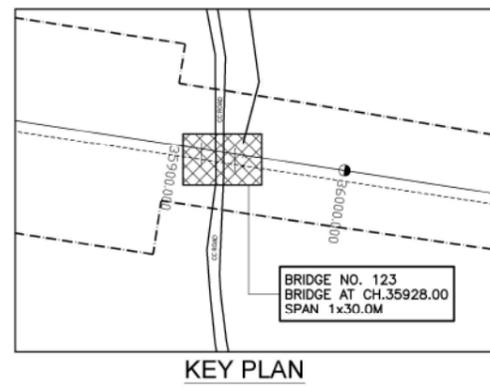
CHECKED BY CONSULTANT:	
SECTION	7 & 6
BRIDGE NO.	262A & 116
CHAINAGE	102570 & 34451
KM (IR)	-
SPAN	2X18.3m
	POST TENSIONED BOX GIRDER
DRG. NO.	

GENERAL ARRANGEMENT DRAWING
FOR CONSTRUCTION OF BRIDGE NO. 262A & 116
(2X18.3m) POST TENSIONED BOX GIRDER.
DFCCIL - WESTERN CORRIDOR



LEGEND:

SDR	GW	MH	SP
CI-CH	GP	MI	SP-SM
CL	GP-GM	ML	SW
CL-ML	GM	SC	SW-SM
CI	GM-GC	SM	WR
CH	GW-GM	SM-SC	SR
			HR



- GENERAL NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
 2. ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
 3. ALL DIMENSIONS AND LEVEL SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
 4. THIS GENERAL ARRANGEMENT DRAWING IS INDICATIVE AND IS MEANT ONLY FOR GUIDANCE FOR THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DEVELOPED & DESIGNED BY THE CONTRACTOR AS PER THE EMPLOYER'S REQUIREMENTS, SPECIFICATIONS AND SITE DIMENSIONS / CONDITIONS AND SHALL BE APPROVED BY ENGINEER / EMPLOYER.
 5. ALL DIMENSIONS SHALL BE VERIFIED WITH RESPECT TO EXISTING IR BRIDGES ON THE PARALLEL ALIGNMENT AND RECONCILED BEFORE EXECUTION.
 6. FORMATION LEVEL SHOWN IN GAD IS AS PER PROPOSED LONGITUDINAL SECTION OF THE ALIGNMENT AND MAY CHANGE DURING DEVELOPMENT OF DETAILED DESIGN STAGE.
 7. LENGTH OF RETURN WALL / WING WALL / TOE WALL / PITCHING ETC. IS TO BE DECIDED AS PER THE SITE CONDITION.
 8. GROUND PROFILE SHOULD BE VERIFIED BEFORE EXECUTION.
- SUPERSTRUCTURE & SUBSTRUCTURE**
- 1) THE BRIDGE SHALL BE DESIGNED AS PER DFCC LOADING (32.5T AXLE LOAD) BRIDGE RULE, ISSUED BY RDSO. (WITH LATEST CORRECTION SLIP).
 - 2) THE BRIDGE SHALL BE DESIGNED AS PER THE SEISMIC ZONE FOR THE AREA.
 - 3) BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - 4) WEEP HOLES SHALL BE PROVIDED IN RETURN WALL & ABUTMENT.
 - 5) THE FOUNDATION BOLTS SHALL BE PROVIDED IN CONSULTATION WITH EMP-4.
 - 6) RAILING EXPANSION JOINTS, BEARING, WEARING COAT, FOOTPATH, SERVICE DUCT, DRAINAGE SHALL BE PROVIDED AS PER SPECIFICATION.
 - 7) FOR INSPECTION OF BEARING / SUPERSTRUCTURE, SUITABLE ARRANGEMENT SHALL BE PROVIDED.
 - 8) FOR CHANGING OF BEARING SUITABLE ARRANGEMENT SHALL BE PROVIDED.
 - 9) MAINTENANCE STAFF PLATFORM OF APPROXIMATE SIZE OF 2.0x1.5m AT EVERY 50.0m.
- GEO-TECHNICAL**
- 1) FOR TENDER PURPOSE REFER TO GEOTECHNICAL & HYDROLOGICAL INVESTIGATION REPORT.
 - 2) GEO-TECHNICAL BORE HOLE DATA REFERRED IN GAD IS INDICATIVE ONLY.
 - 3) DETAILED GEO-TECHNICAL INVESTIGATION SHALL BE CARRIED OUT DURING DETAILED DESIGN STAGE.

TABLE-1

DETAILS	PROPOSED DFC	PROPOSED DFC
PACKAGE	3	3
SECTOR	6	6
BRIDGE NO.	123	135
CHAINAGE	35928.0	40754.0
SPAN CONFIGURATION (C/C) OF PIER	1X30.5m	1X30.5m
OVERALL SPAN (mm)	33550	33550
EFFECTIVE SPAN (mm)	31110	31110
CLEAR SPAN (mm)	30590	30590
TYPE OF STRUCTURE	PSC BOX GIRDER	PSC BOX GIRDER
DEPTH OF SUPERSTRUCTURE (mm)	3280	3280
TYPE OF CROSSING	STATE HIGHWAY	STATE HIGHWAY
BRIDGE (STRAIGHT/CURVE/SKEW)	10° LEFT	8° RIGHT
FORMATION LEVEL R.L. (METER)	27.967	29.358
GROUND LEVEL R.L. (METER)	21.018	21.401
ROAD LEVEL (METER)	21.933	21.850
VERTICAL CLEARANCE MIN. (mm)	7000	7000
TYPE OF FOUNDATION	PILE	PILE
BRIDGE BEARING (ELASTOMER WITH SUITABLE RESTRAINTS)	(FIXED & FREE)	(FIXED & FREE)

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder.

Project Title :
**Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)**

Client :

Dedicated Freight Corridor Corporation of India
(A GOVERNMENT OF INDIA UNDERTAKING)
5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :
**TYPICAL DRAWING FOR MAJOR BRIDGE
1X30.0m. POST TENSIONED BOX GIRDER
(STATE HIGHWAY ROAD)**

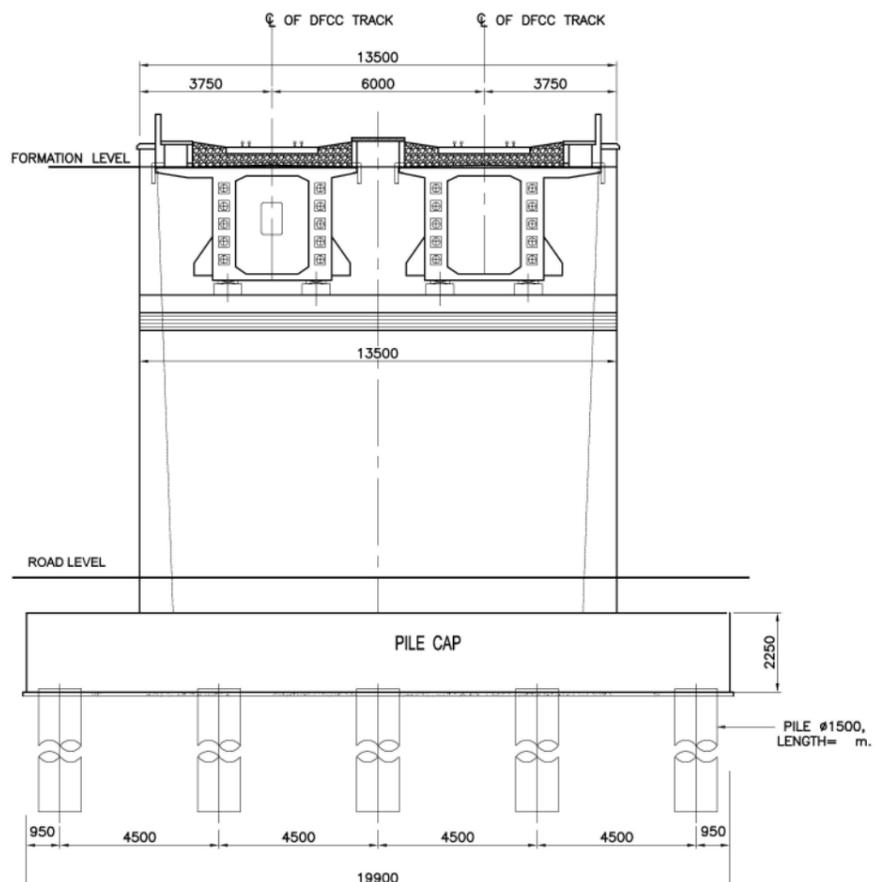
Drawing Number :
NKC-CTS-RUB-AH-00100 (SHEET 1 OF 2)

Scale :
AS SHOWN

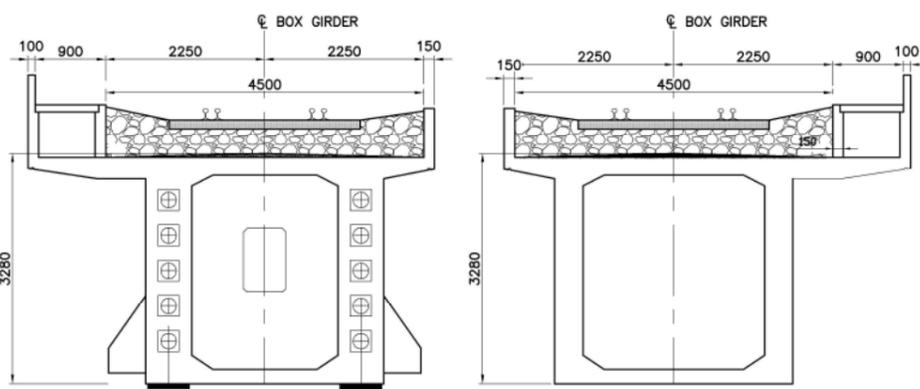
Reference :
GAD PREPARED BY CPM AHMEDABAD

Drawn By :
Checked By :
Approved By :

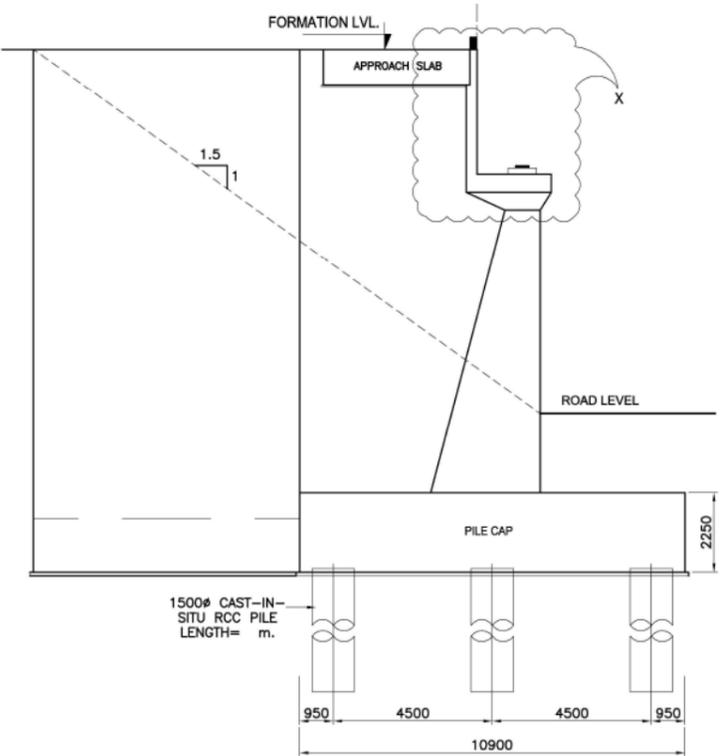
NK Consortium
4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA



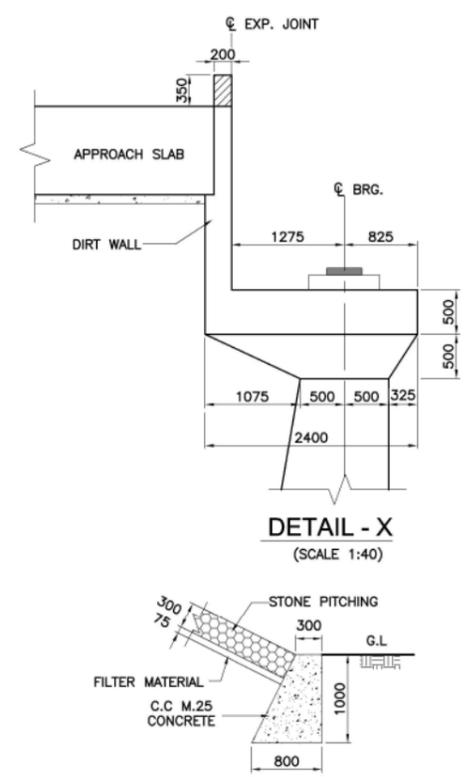
SECTION B-B
(SCALE 1:100)



SECTION AT SUPPORT
SECTION AT MID SPAN
30.50m (SPAN POST TENSION BOX GIRDER)
(SCALE 1:50)

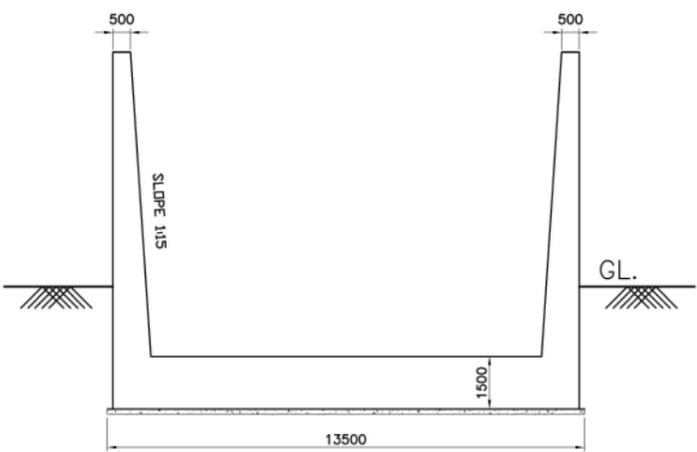


DETAIL OF ABUTMENT - A1
(SCALE 1:100)

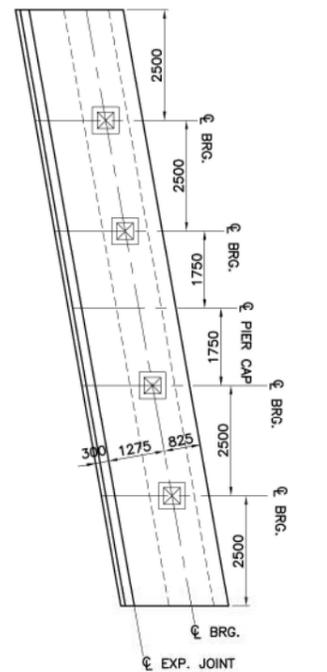


DETAIL - X
(SCALE 1:40)

SECTION X-X
(SCALE 1:40)



SECTION OF RETAINING WALL
(SCALE 1:100)



PLAN AT ABUTMENT CAP LVL.
(SCALE 1:80)

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

Project Title :
**Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)**

Client :
 **Dedicated Freight Corridor Corporation of India**
(A GOVERNMENT OF INDIA UNDERTAKING)
5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :
**TYPICAL DRAWING FOR MAJOR BRIDGE
1X30.0m. POST TENSIONED BOX GIRDER
(STATE HIGHWAY ROAD)**

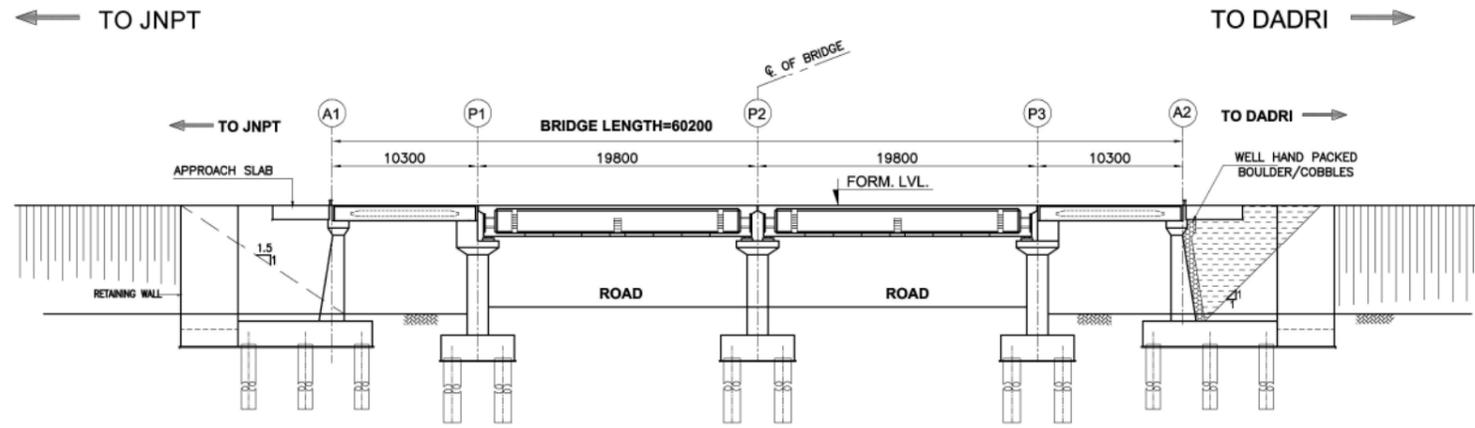
Drawing Number :
NKC-CTS-RUB-AH-00100 (SHEET 2 OF 2)

Scale :
AS SHOWN

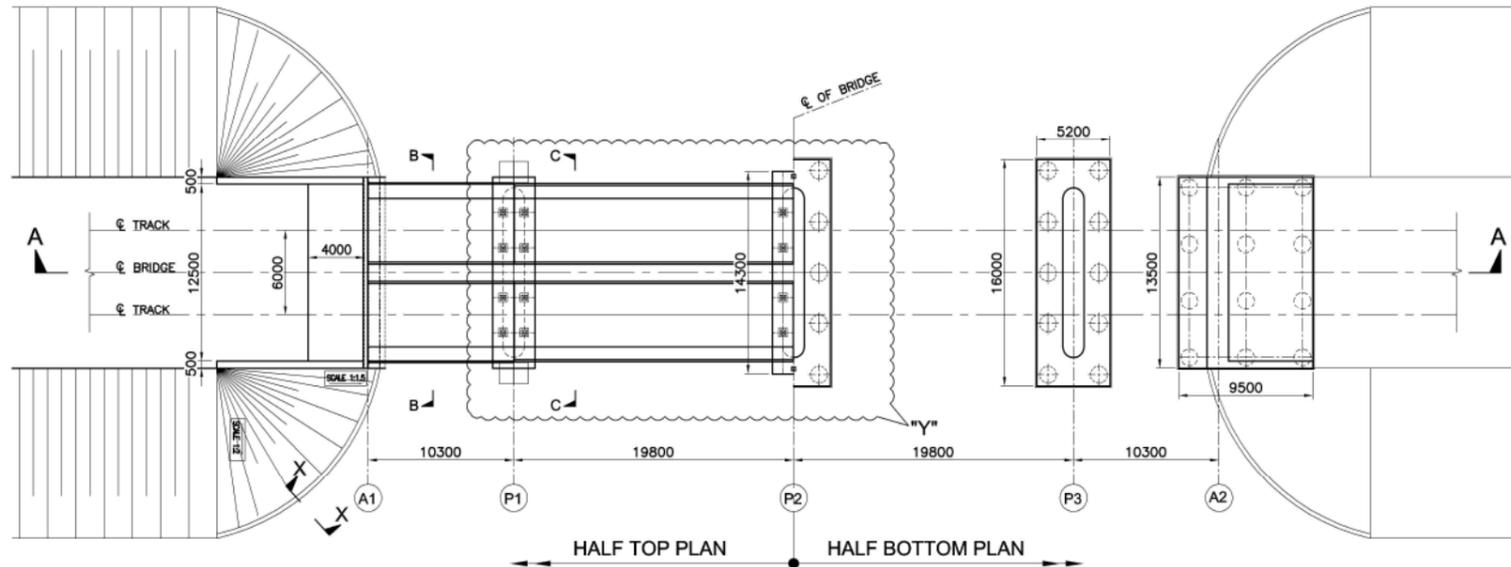
Reference :
GAD PREPARED BY CPM AHMEDABAD

Drawn By :
Checked By :
Approved By :

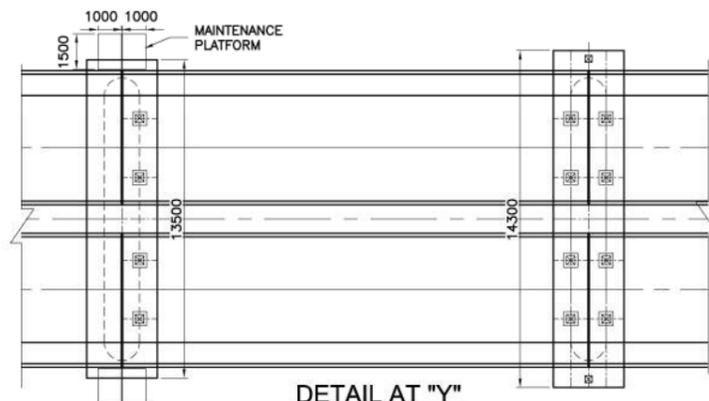
 **NK Consortium**
4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA



LONGITUDINAL SECTION A-A
(SCALE 1:250)



PLAN
(SCALE 1:250)



DETAIL AT "Y"
(SCALE 1:150)

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
2. ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
3. ALL DIMENSIONS AND LEVEL SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
4. THIS GENERAL ARRANGEMENT DRAWING IS INDICATIVE AND IS MEANT ONLY FOR GUIDANCE FOR THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DEVELOPED & DESIGNED BY THE CONTRACTOR AS PER THE EMPLOYER'S REQUIREMENTS, SPECIFICATIONS AND SITE DIMENSIONS / CONDITIONS AND SHALL BE APPROVED BY ENGINEER / EMPLOYER.
5. ALL DIMENSIONS SHALL BE VERIFIED WITH RESPECT TO EXISTING BRIDGES ON THE PARALLEL ALIGNMENT AND RECONCILED BEFORE EXECUTION.
6. FORMATION LEVEL SHOWN IN GAD IS AS PER PROPOSED LONGITUDINAL SECTION OF THE ALIGNMENT AND MAY CHANGE DURING DEVELOPMENT OF DETAILED DESIGN STAGE.
7. LENGTH OF RETURN WALL / WING WALL / TOE WALL / PITCHING ETC. IS TO BE DECIDED AS PER THE SITE CONDITION.
8. GROUND PROFILE SHOULD BE VERIFIED BEFORE EXECUTION.

SUPERSTRUCTURE & SUBSTRUCTURE

- 1) THE BRIDGE SHALL BE DESIGNED AS PER DFCCI LOADING (32.5T AXLE LOAD) BRIDGE RULE, ISSUED BY RDSO, (WITH LATEST CORRECTION SLIP).
- 2) THE BRIDGE SHALL BE DESIGNED AS PER THE SEISMIC ZONE FOR THE AREA.
- 3) BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
- 4) WEEP HOLES SHALL BE OF PROVIDED IN RETURN WALL & ABUTMENT.
- 5) SHE FOUNDATION BOLTS SHALL BE PROVIDED IN CONSULTATION WITH THE CONTRACTOR OF EMP-4.
- 6) RAILING EXPANSION JOINTS, BEARING, WEARING COAT, FOOTPATH, SERVICE DUCT, DRAINAGE SHALL BE PROVIDED AS PER SPECIFICATION.
- 7) FOR INSPECTION OF BEARING / SUPERSTRUCTURE, SUITABLE ARRANGEMENT SHALL BE PROVIDED.
- 8) FOR CHANGING OF BEARING SUITABLE ARRANGEMENT SHALL BE PROVIDED.

GEO-TECHNICAL

- 1) FOR TENDER PURPOSE REFER TO GEOTECHNICAL & HYDROLOGICAL INVESTIGATION REPORT.
- 2) GEO-TECHNICAL BORE HOLE DATA REFERRED IN GAD IS INDICATIVE ONLY.
- 3) DETAILED GEO-TECHNICAL INVESTIGATION SHALL BE CARRIED OUT DURING DETAILED DESIGN STAGE.

TABLE-1

DETAILS	PROPOSED DFC	PROPOSED DFC
PACKAGE	3	3
SECTOR	8N	6
BRIDGE NO.	19	SA-39
CHAINAGE	8240.00	79321.00
SPAN CONFIGURATION	1x9.15+2x18.30+1x9.15m	1x9.15+2x18.30+1x9.15m
OVERALL SPAN (mm)	10275 / 19750	10275 / 19750
EFFECTIVE SPAN (mm)	18150/9750	18150/9750
CLEAR SPAN (mm)	18300/9150	18300/9150
TYPE OF STRUCTURE	PSC VOIDED SLAB + PSC BOX GIRDER	PSC VOIDED SLAB + PSC BOX GIRDER
DEPTH OF SUPERSTRUCTURE (mm)	2280/1180	2280/1180
TYPE OF CROSSING	STATE HIGHWAY	STATE HIGHWAY
BRIDGE (STRAIGHT/CURVE/SKEW)	STRAIGHT	SKEW 15°
FORMATION LEVEL (METER)	77.654	47.562
ROAD LEVEL (METER)	68.74	40.00
VERTICAL CLEARANCE MIN. (mm)	8000	8000
TYPE OF FOUNDATION	PILE FOUNDATION	PILE FOUNDATION
BRIDGE BEARING (ELASTOMER WITH SUITABLE RESTRAINTS)	FIX - FREE	FIX - FREE

GENERAL ARRANGEMENT DRAWING (SHEET 1 OF 3)

APPROVED
DESIGNATION INITIALS OF APPROVING OFFICIALS

CPM / DFCCIL / AHMEDABAD G.G.M. / DESIGN
DPM / DFCCIL / AHMEDABAD G.G.M. / ENGG.
APM / DFCCIL / AHMEDABAD J.G.M. / DESIGN

CHECKED BY CONSULTANT:

SECTION	8N & 6
BRIDGE NO.	19 & SA-39
CHAINAGE	8240.00 & 79321.000
KM (IR)	-
SPAN	1x9.15+2x18.30+1x9.15m.
DRG. NO.	DFCC/IAHM/SEC.6 & 8N/ BR. NO. 19 & SA-39

GENERAL ARRANGEMENT DRAWING

FOR CONSTRUCTION OF BRIDGE NO. 19 & SA-39 (1x9.15+2x18.30+1x9.15m) ON ROAD.

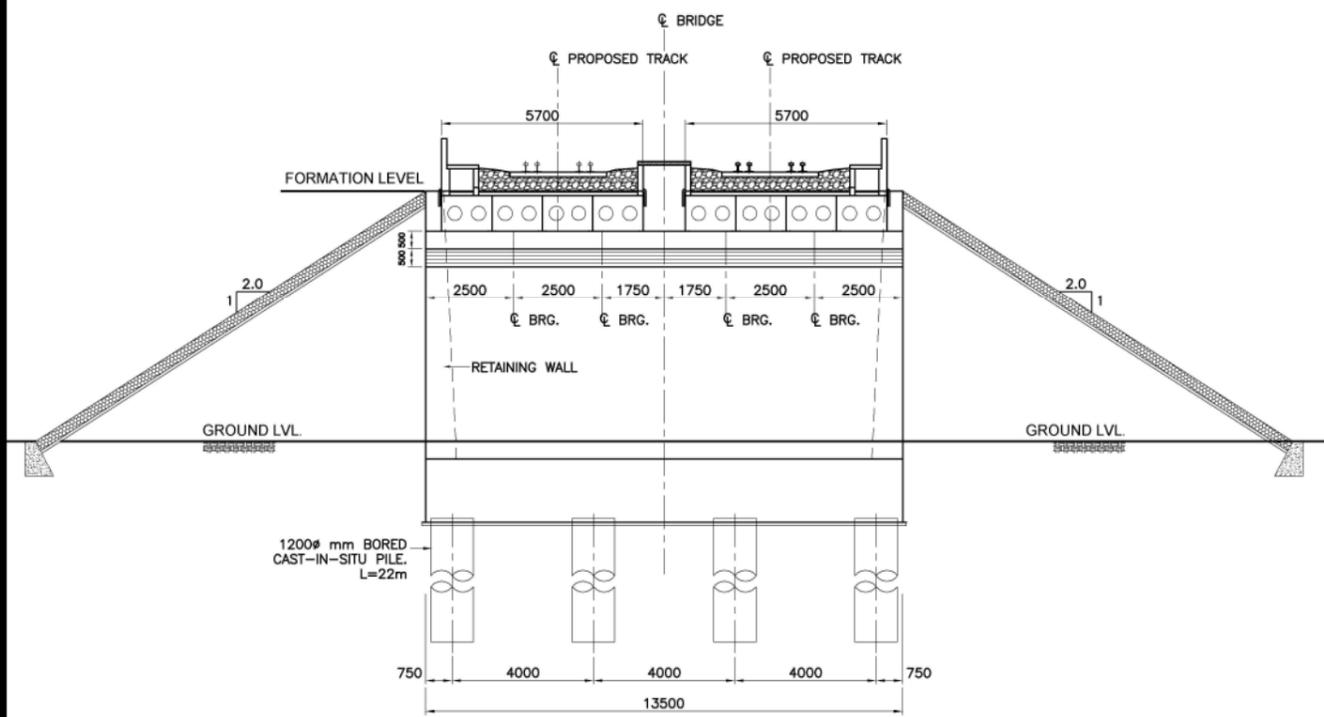
DFCCIL - WESTERN CORRIDOR

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder.

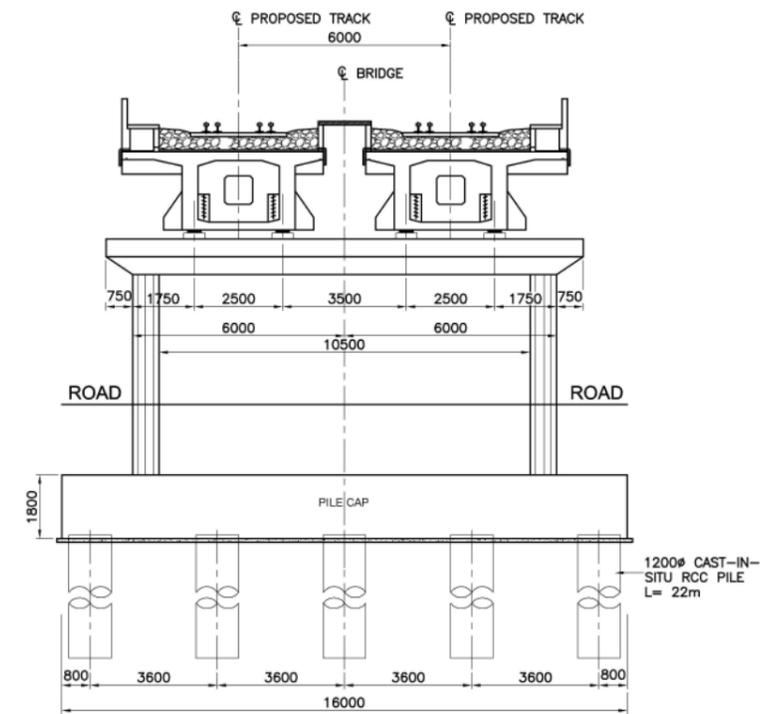
THIS DRAWING WAS ORIGINALLY PREPARED BY HYDROPNEUM SYSTEM AND REVIEWED/MODIFIED BY NIPPON KOEI CONSORTIUM. REFER TO TABLE-1 FOR INFORMATION OF THE BRIDGE.

CONSULTANT
HYDROPNEUM SYSTEMS
RAGHUVANSHI, CTS NO. 755/87,
PLOT NO - 7, 2nd Floor, MAYUR COLONY,
KOTHURU, PUNE - 411038.

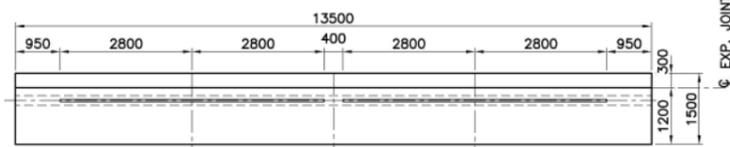




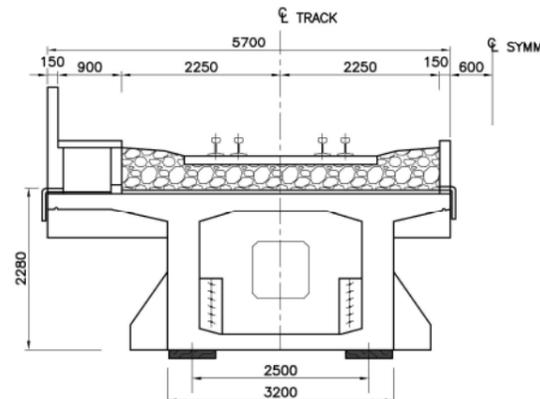
SECTION B-B
(SCALE 1:100)



SECTION C-C
(SCALE 1:100)

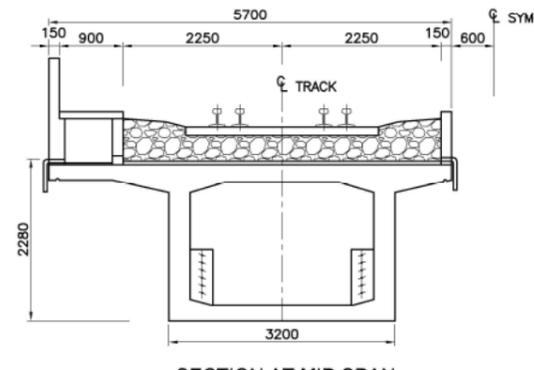


PLAN AT ABUTMENT CAP LVL.
(SCALE 1:75)



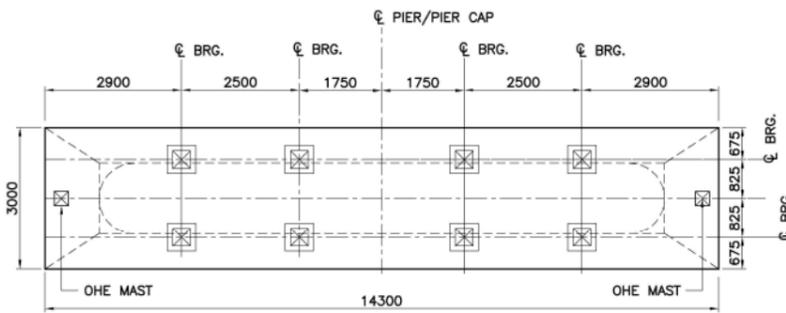
SECTION AT SUPPORT

18.3 m (SPAN POST TENSION BOX GIRDER)

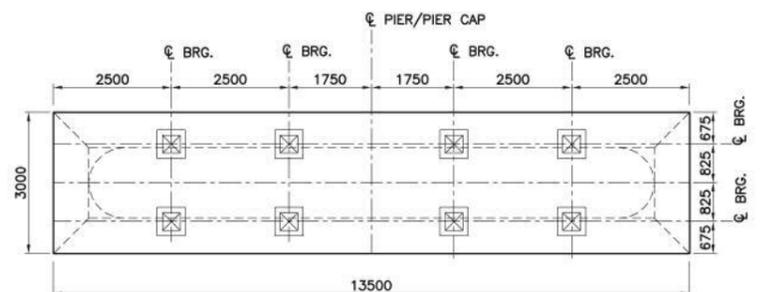


SECTION AT MID SPAN

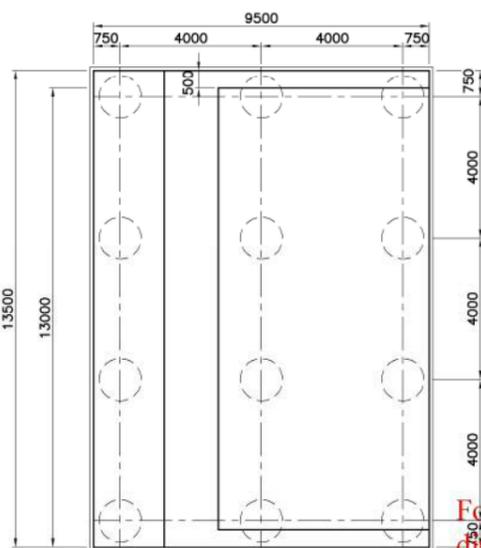
TYP. CROSS SECTION OF SPAN 9.15m
(SCALE 1:50)



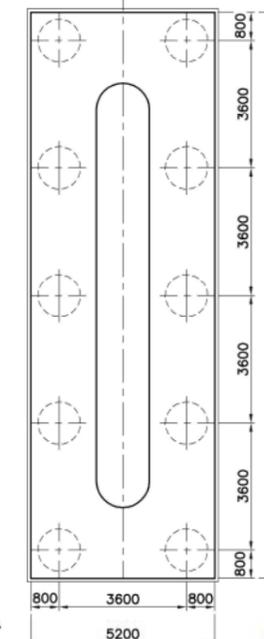
PLAN AT PIER CAP LEVEL WITH OHE MAST (TYPICAL)



PLAN AT PIER CAP LEVEL WITHOUT OHE MAST (TYPICAL)
(SCALE 1:75)



PLAN AT ABUTMENT FOUNDATION LEVEL
(SCALE 1:100)



PLAN AT PILE CAP LEVEL FOR PIER
(SCALE 1:100)

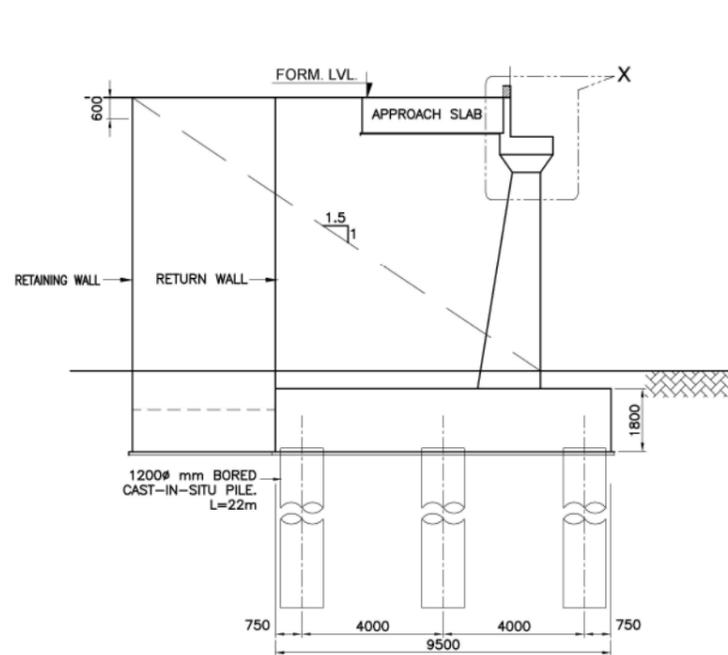
Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according to the Bidder

THIS DRAWING WAS ORIGINAL PREPARED BY HYDROPELUM SYSTEM AND REVIEWED/MODIFIED BY NIPPON KOEI CONSORTIUM. REFER TO TABLE-1 FOR INFORMATION OF THE BRIDGE.

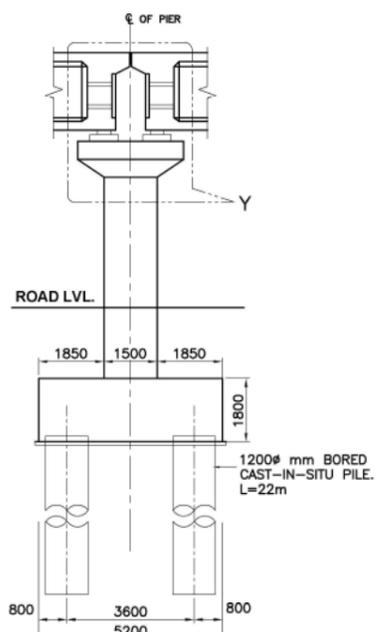
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HYDROPELUM SYSTEMS
RAGHUVANSH, CTS NO. 755/87,
PLOT NO - 7, 2nd Floor, MAYUR COLONY,
KOTHURU, HYDRABAD - 500038.

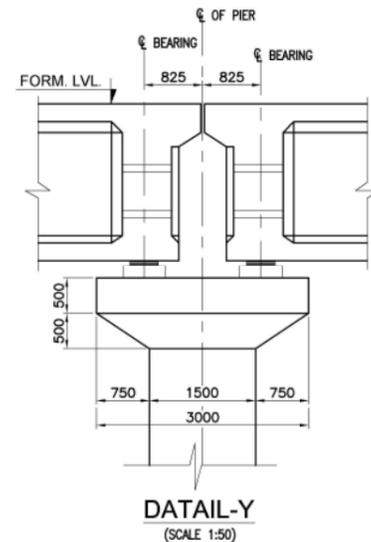
GENERAL ARRANGEMENT DRAWING (SHEET 2 OF 3)	
APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
CPM / DFCCIL / AHMEDABAD	G.G.M. / DESIGN
DPM / DFCCIL / AHMEDABAD	G.G.M. / ENGG.
APM / DFCCIL / AHMEDABAD	J.G.M. / DESIGN
CHECKED BY CONSULTANT:	
SECTION	8N & 6
BRIDGE NO.	19 & SA-39
CHAINAGE	8240.00 & 79321.000
KM (I/R)	-
SPAN	1x9.15+2x18.30+1x9.15m.
DRG. NO.	DFCC/VAHM/SEC.6 & 8N/ BR.NO. 19 & SA-39
GENERAL ARRANGEMENT DRAWING	
FOR CONSTRUCTION OF BRIDGE NO. 19 & SA-39 (1x9.15+2x18.30+1x9.15m.) ON ROAD.	
DFCCIL - WESTERN CORRIDOR	



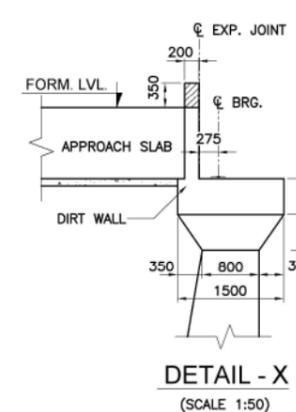
DETAIL OF ABUTMENT - A1
(SCALE 1:100)



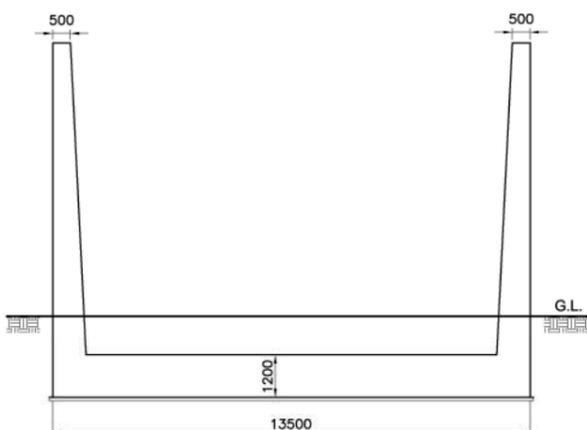
PIER DETAIL
(SCALE 1:100)



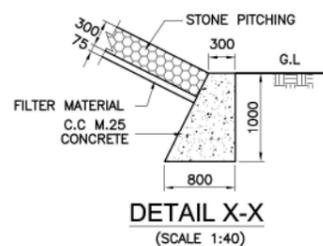
DETAIL-Y
(SCALE 1:50)



DETAIL - X
(SCALE 1:50)

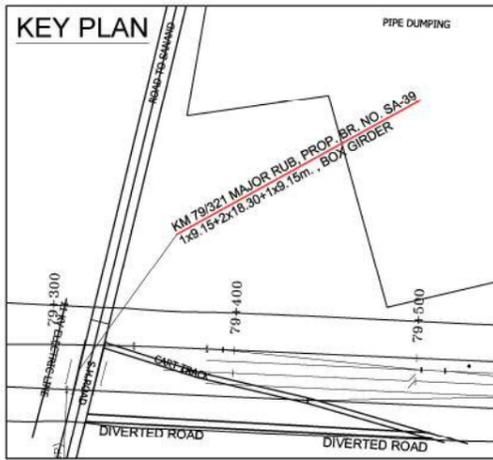
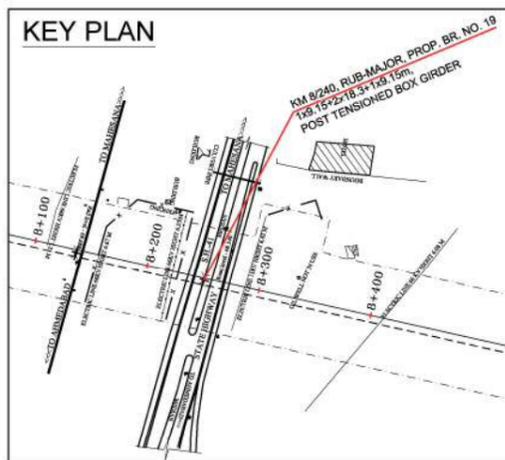
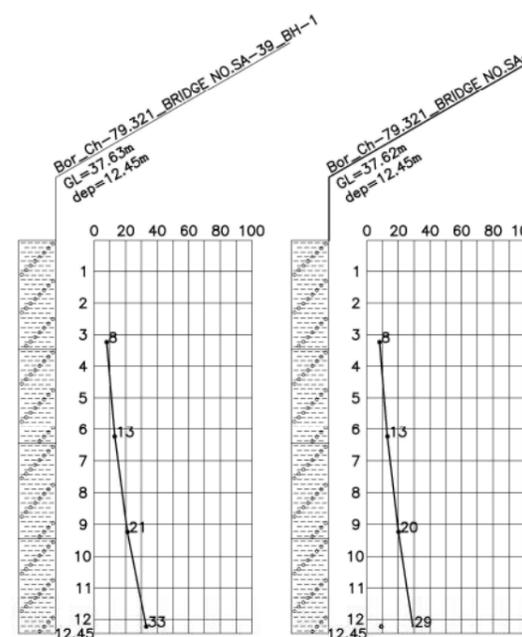
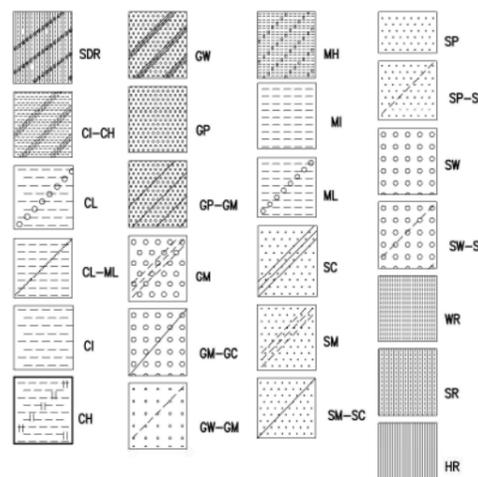


DETAIL OF RETAINING WALL
(SCALE 1:100)



DETAIL X-X
(SCALE 1:40)

LEGEND:



Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

THIS DRAWING WAS ORIGINALLY PREPARED BY HYDROPNEUM SYSTEM AND REVIEWED/MODIFIED BY NIPPON KOEI CONSORTIUM. REFER TO TABLE-1 FOR INFORMATION OF THE BRIDGE.

THIS DRAWING IS PROPERTY OF DFCC (MINISTRY OF RAILWAY), NEW DELHI. IT IS NOT TO BE REPRODUCED, COPIED OR REPRODUCED IN ANY MANNER WITHOUT PRIOR CONSENT.

HYDROPNEUM SYSTEMS
RAGHUVANSH, CTS NO. 755/87,
PLOT NO - 75, 2nd Floor, MAYUR COLONY,
KOTHURDI, PUNE - 411038.

GENERAL ARRANGEMENT DRAWING (SHEET 3 OF 3)

APPROVED

DESIGNATION INITIALS OF APPROVING OFFICIALS

CPM / DFCCIL / AHMEDABAD G.G.M. / DESIGN

DPM / DFCCIL / AHMEDABAD G.G.M. / ENGG.

APM / DFCCIL / AHMEDABAD J.G.M. / DESIGN

CHECKED BY CONSULTANT:

SECTION 8N & 6

BRIDGE NO. 19 & SA-39

CHAINAGE: 8240.00 & 79321.000

KM (IR) -

SPAN 1x9.15+2x18.30+1x9.15m.

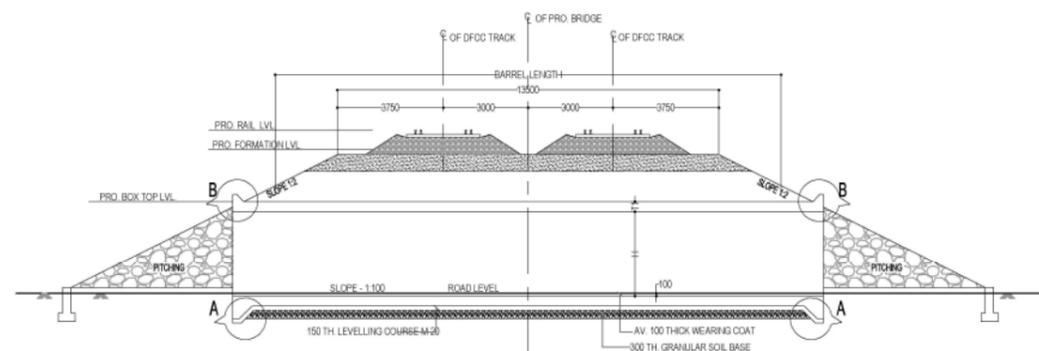
DRG. NO. DFCC/AHM/SEC.6 & 8N/ BR.NO. 19 & SA-39

GENERAL ARRANGEMENT DRAWING

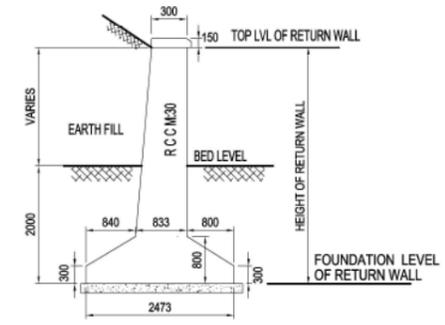
FOR CONSTRUCTION OF BRIDGE NO. 19 & SA-39

(1x9.15+2x18.30+1x9.15m) ON ROAD.

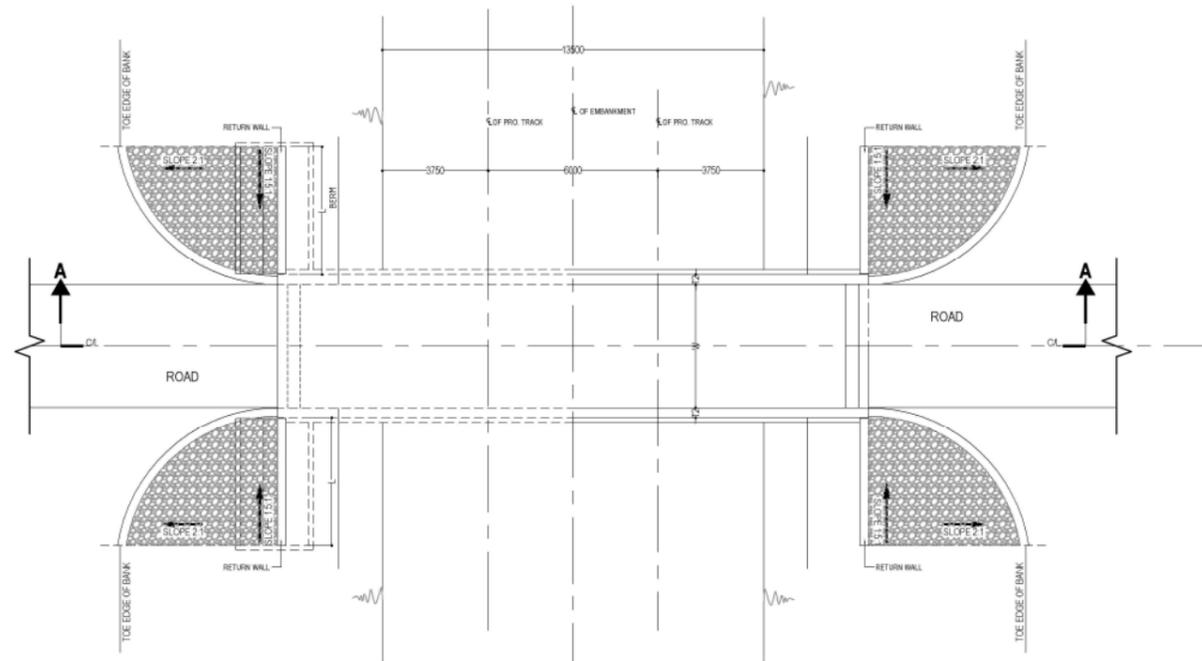
DFCCIL - WESTERN CORRIDOR



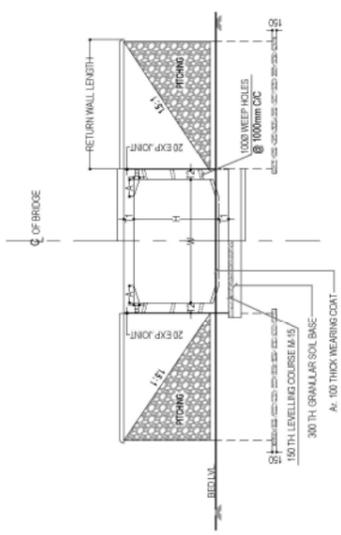
SECTION A-A
SCALE 1:125



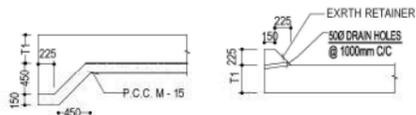
CROSS SECTION OF RETURN WALL
(SCALE 1:50)



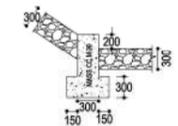
HALF BOTTOM - HALF TOP PLAN
(SCALE 1:125)



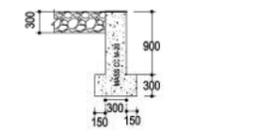
HALF SECTION - HALF ELEVATION
SCALE 1:125



DETAILS AT A & B
SCALE 1:50



SECTION OF TOE WALL
(SCALE 1:50)



SECTION OF CURTAIN / DROP WALL
(SCALE 1:50)

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

- GENERAL NOTES:
- 1) ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
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 - 4) ALL DIMENSIONS SHALL BE VERIFIED WITH RESPECT TO EXISTING IR BRIDGES ON THE PARALLEL ALIGNMENT AND RECONCILED BEFORE EXECUTION.
 - 5) FORMATION LEVEL SHOWN IN GAD IS AS PER PROPOSED LONGITUDINAL SECTION OF THE ALIGNMENT AND MAY CHANGE DURING DEVELOPMENT OF DETAILED DESIGN STAGE.
 - 6) LENGTH OF RETURN WALL / WING WALL / TOE WALL / PITCHING ETC. IS TO BE DECIDED AS PER THE SITE CONDITION.
 - 7) DURING THE COURSE OF CONSTRUCTION, SAFETY & PROTECTION OF THE PROPOSED WORK AND SAFETY & PROTECTION OF THE RUNNING TRAIN ON THE EXISTING TRACK IS TO BE ENSURED BY THE CONTRACTOR.
 - 8) EXCAVATION / DISMANTLING OF ANY PORTION OF EXISTING BRIDGE OR ANY ELEMENT OF EXISTING PERMANENT WAY OR ANY WORK AFFECTING THE SAFETY OF THE EXISTING BRIDGE / PERMANENT WAY OR SAFETY OF THE RUNNING TRAINS WILL REQUIRE THE PRIOR WRITTEN APPROVAL OF THE ENGINEER/EMPLOYER.
- FOUNDATION
- 1) SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE DESIGN OF STRUCTURES.
- GEO-TECHNICAL
- 1) FOR TENDER PURPOSE REFER TO GEOTECHNICAL INVESTIGATION REPORT IN DATA BOOK 2/2.
 - 2) GEO-TECHNICAL BORE HOLE DATA REFERED IN GAD IS INDICATIVE ONLY.
 - 3) DETAILED GEO-TECHNICAL INVESTIGATION SHALL BE CARRIED OUT DURING DETAILED DESIGN STAGE IF REQUIRED.

Project Title :
Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)

Client :
 **Dedicated Freight Corridor Corporation of India**
(A GOVERNMENT OF INDIA UNDERTAKING)
5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :
GENERAL ARRANGEMENT DRAWING
FOR RCC BOX TYPE UNDER PASS

Drawing Number :
NKC -CTS -BRD -AHM-TYP-8 (SHEET 1 OF 2)
Scale :
AS SHOWN
Reference :
GAD PREPARED BY CPM AHMEDABAD
Drawn By : S. Salamuddin
Checked By : M. N. Ahmad
Date : 30th, Sept, 2012

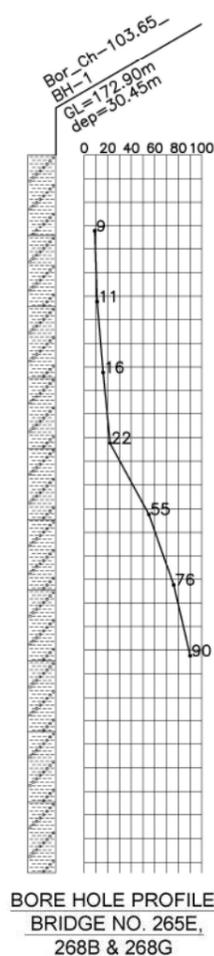


NK Consortium
4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Sect. No.	Structure Chainage DFC	Proposed Bridge No. DFC	FL (m)	BL (m)	GL (m)	Type of Structure	Structure configuration	No. of tracks Proposed for DFCC	Skew Angle	Type of Crossing	Box Configuration								Return Wall(U/S;D/S)				BERM LVL (m)	
											n	W (m)	H (m)	T1 (m)	T2 (m)	A (m)	B (m)	Barrel Length-Z	FILL(m)	TOP LVL (m)	FDN LVL (m)	Height (m)		Length (m)
7	103,960	265E	53.105	48.281	48.281	Under Pass	RCC Box	2	0	THOL XING	1	1.2	1.2	0.350	0.350	0.300	0.200	27.346	3.274	49.831	46.281	3.550	2.325	-
7	104,900	268B	55.381	49.459	49.459	Under Pass	RCC Box	2	0	THOL XING	1	1.2	1.2	0.350	0.350	0.300	0.200	31.738	4.372	51.009	47.459	3.550	2.325	-
7	105,700	268G	53.988	50.557	50.557	Under Pass	RCC Box	2	0	THOL XING	1	1.2	1.2	0.350	0.350	0.300	0.200	21.774	1.881	52.107	48.557	3.550	2.325	-

- (i) F.L is based on the alignment drawing modified by NKC and should be reconfirmed in detailed design survey.
- (ii) G.L is based on GAD prepared by CPM and should be reconfirmed in detailed design and survey.
- (iii) Nos. of Track shall be confirmed from FLS & Station Yard Plan
- (iv) Berm of 1.5 m width shall be provided on the slope of every 6 m height.
- (v) Barrel Length may vary as per site condition.



LEGEND:

	SDR		GW		MH		SP
	CI-CH		GP		MI		SP-SM
	CL		GP-GM		ML		SW
	CL-ML		GM		SC		SW-SM
	CI		GM-GC		SM		WR
	CH		GW-GM		SM-SC		SR
							HR

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

Project Title :

Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)

Client :



Dedicated Freight Corridor Corporation of India
(A GOVERNMENT OF INDIA UNDERTAKING)

5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :

GENERAL ARRANGEMENT DRAWING
FOR RCC BOX TYPE UNDER PASS

Drawing Number :

NKC-CTS-BRD-AHM-TYP-8 (SHEET 2 OF 2)

Scale :

AS SHOWN

Reference :

GAD PREPARED BY CPM AHMEDABAD

Drawn By : S. Salamuddin
Date : 30th, Sept, 2012

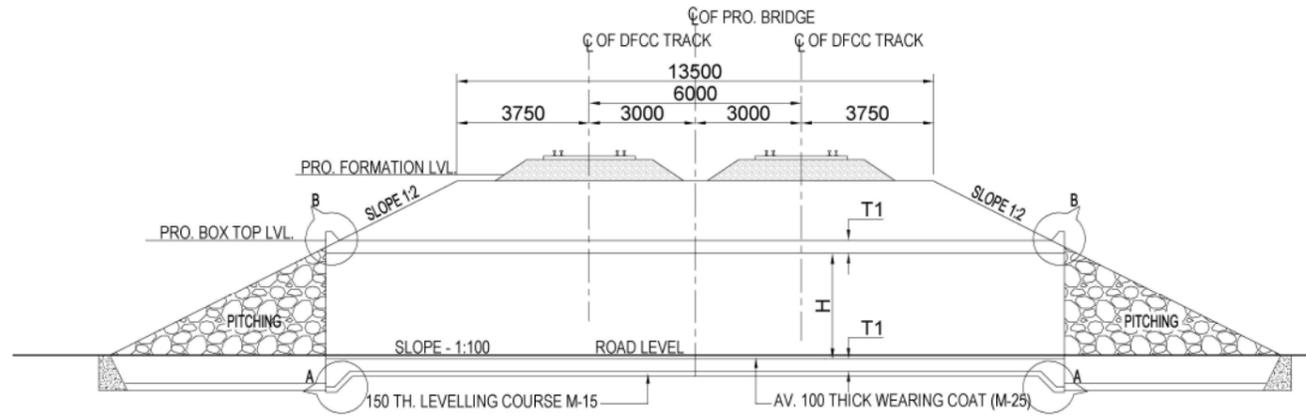
Checked By : M. N. Ahmad
Date : 1st, Oct, 2012

Approved By : H. Kawahara
Date : 3rd, Oct, 2012

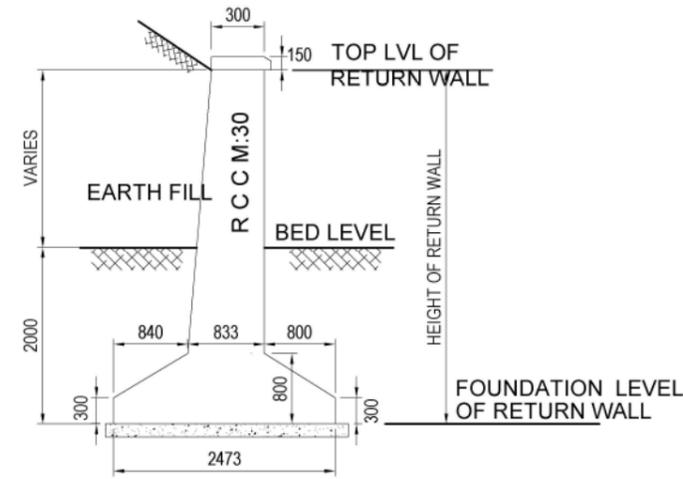


NK Consortium

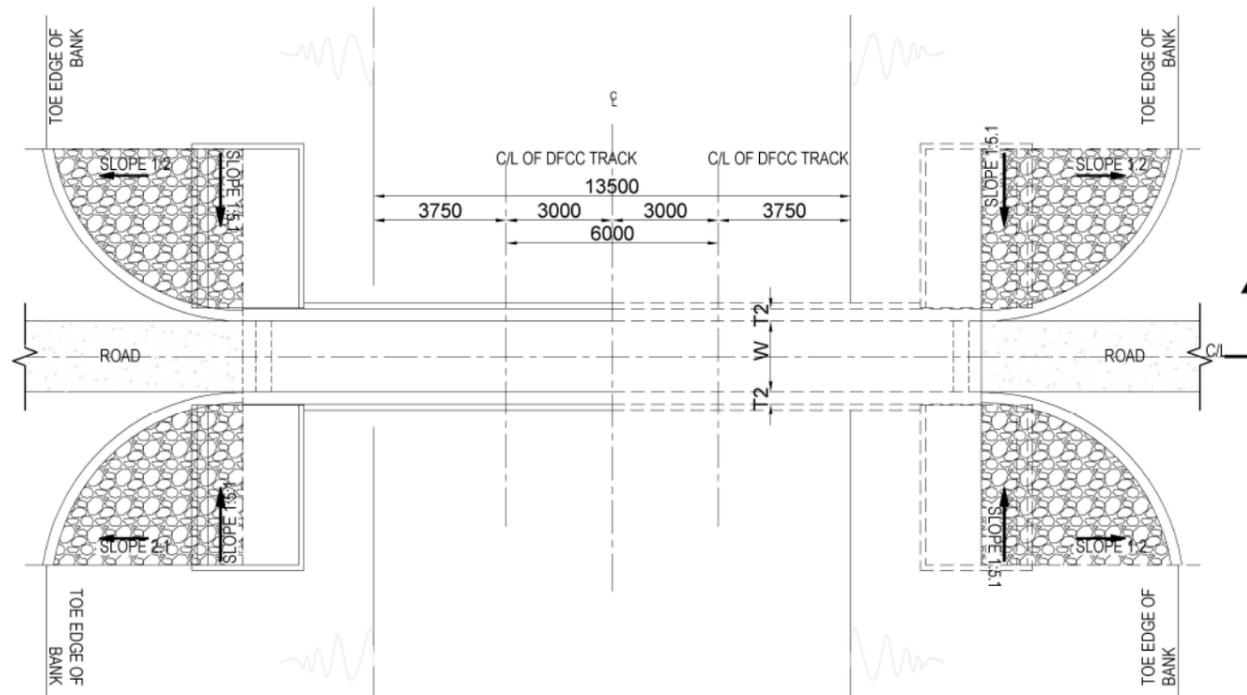
4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA



SECTION A-A
(SCALE 1:200)

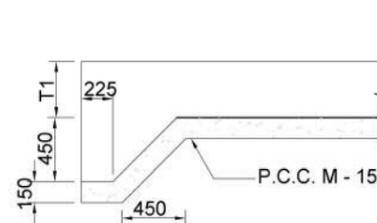


CROSS SECTION OF RETURN WALL
(SCALE 1:60)

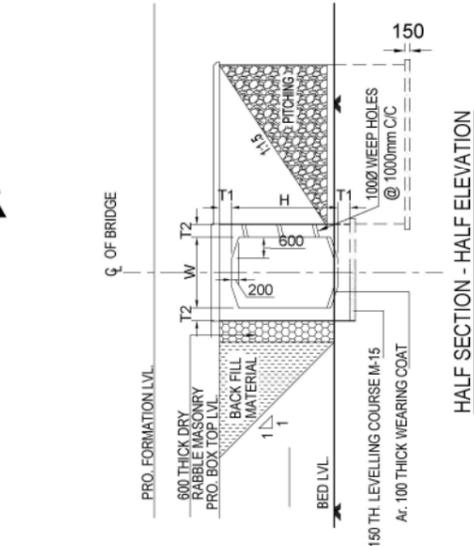
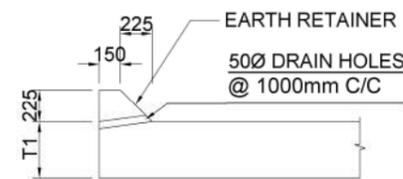


HALF PLAN AT BOTTOM
(SCALE 1:200)

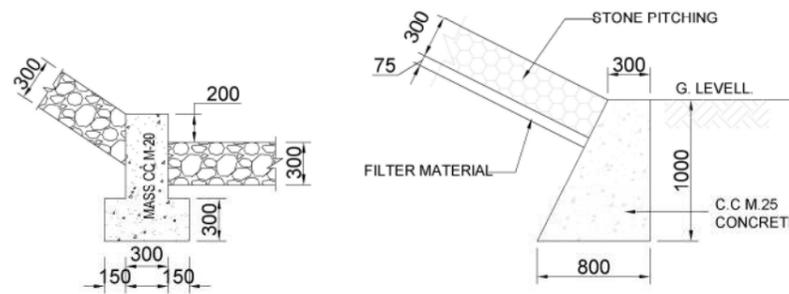
HALF PLAN AT TOP
(SCALE 1:200)



DETAIL AT A & B
(SCALE 1:50)



HALF SECTION - HALF ELEVATION
(SCALE 1:200)



SECTION OF TOE WALL (SCALE 1:50) SECTION OF CURTAIN/DROP WALL (SCALE 1:50)

- GENERAL NOTES:
- 1) ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
 - 2) ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
 - 3) THIS GENERAL ARRANGEMENT DRAWING IS INDICATIVE AND IS MEANT ONLY FOR GUIDANCE FOR THE BIDDERS. ALL THE ENGINEERING DETAILS ARE TO BE DEVELOPED & DESIGNED BY THE CONTRACTOR AS PER THE EMPLOYER'S REQUIREMENTS, SPECIFICATIONS, AND SITE DIMENSIONS / CONDITIONS AND SHALL BE APPROVED BY ENGINEER/EMPLOYER.
 - 4) ALL DIMENSIONS SHALL BE VERIFIED WITH RESPECT TO EXISTING IR BRIDGES ON THE PARALLEL ALIGNMENT AND RECONCILED BEFORE EXECUTION.
 - 5) FORMATION LEVEL SHOWN IN GAD IS AS PER PROPOSED LONGITUDINAL SECTION OF THE ALIGNMENT AND MAY CHANGE DURING DEVELOPMENT OF DETAILED DESIGN STAGE.
 - 6) LENGTH OF RETURN WALL / WING WALL / TOE WALL / PITCHING ETC. IS TO BE DECIDED AS PER THE SITE CONDITION.
 - 7) DURING THE COURSE OF CONSTRUCTION, SAFETY & PROTECTION OF THE PROPOSED WORK AND SAFETY & PROTECTION OF THE RUNNING TRAIN ON THE EXISTING TRACK IS TO BE ENSURED BY THE CONTRACTOR.
 - 8) EXCAVATION / DISMANTLING OF ANY PORTION OF EXISTING BRIDGE OR ANY ELEMENT OF EXISTING PERMANENT WAY OR ANY WORK AFFECTING THE SAFETY OF THE EXISTING BRIDGE / PERMANENT WAY OR SAFETY OF THE RUNNING TRAINS WILL REQUIRE THE PRIOR WRITTEN APPROVAL OF THE ENGINEER/EMPLOYER.

- FOUNDATION
- 1) SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE DESIGN OF STRUCTURES.
- GEO-TECHNICAL
- 1) FOR TENDER PURPOSE REFER TO GEOTECHNICAL INVESTIGATION REPORT IN DATA BOOK 2/2.
 - 2) GEO-TECHNICAL BORE HOLE DATA REFERED IN GAD IS INDICATIVE ONLY.
 - 3) DETAILED GEO-TECHNICAL INVESTIGATION SHALL BE CARRIED OUT DURING DETAILED DESIGN STAGE IF REQUIRED.

For scale on width of 13.5m to be read as 13.8m & respective dimensions are to be corrected according by the Bidder

Project Title :
Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)

Client :
 **Dedicated Freight Corridor Corporation of India**
(A GOVERNMENT OF INDIA UNDERTAKING)
5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :
GENERAL ARRANGEMENT DRAWING
FOR RCC BOX TYPE RUB

Drawing Number :
NKC-CTS-RUB-AHM-TYP-9 (SHEET 1 OF 2)
Scale :
AS SHOWN
Reference :
GAD PREPARED BY CPM AHMEDABAD
Drawn By : S. Salamuddin
Checked By : M. N. Ahmad
Approved By : H. Kawahara
Date : 30th, Sept, 2012
Date : 1st, Oct, 2012
Date : 3rd, Oct, 2012



NK Consortium

4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Sec. No.	Structure Chainage	Proposed Bridge No.	FL (m)	GL (m)	RL (m)	Type of Structure	Structure configuration	No. of tracks Proposed for DFCC	Skew Angle	Type of Crossing	Box Configuration								Return Wall				
											n	W (m)	H (m)	T1 (m)	T2 (m)	A (m)	B (m)	Barrel Length-Z (m)	FILL(m)	TOP LVL (m)	FDN LVL (m)	Height L(m)	Length M(m)
8N	3138	5B	70.078	59.749	59.749	RUB-Minor	RCC Box	2	0	Canal Service road	1	6.0	4.6	0.60	0.50	0.60	0.20	34.766	5.129	70.08	57.749	7.20	14.994
8N	3353	7A	70.088	63.869	63.869	RUB-Minor	RCC Box	2	0	Canal Service road	1	6.0	4.6	0.60	0.50	0.60	0.20	18.326	1.019	70.09	61.869	7.20	8.828
9 (Palanpur Connecting Line)	360	1A-PCL	187.059	186.189	181.859	RUB-Minor	RCC Box	2	0	Road	2	4.5	4.6	0.60	0.50	0.60	0.20	13.500	0.000	187.06	179.859	7.20	7.300

NOTE
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 (iv) Berm of 1.5 m width shall be provided on the slope of every 6 m height.
 (v) Barrel Length may vary as per site condition.

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

Project Title :
**Dedicated Freight Corridor Project
 (Western Corridor Phase-1:
 Rewari - Vadodara Section)**

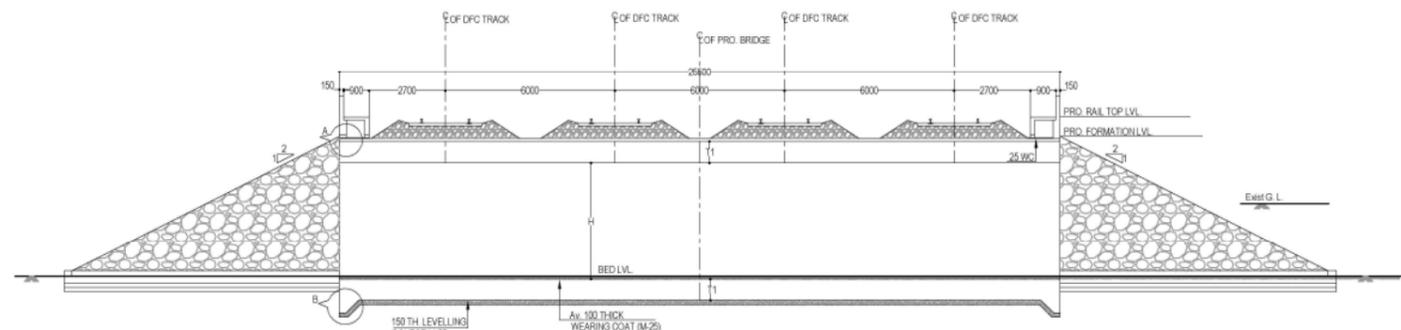
Client :
 **Dedicated Freight Corridor Corporation of India**
(A GOVERNMENT OF INDIA UNDERTAKING)
 5th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA

Drawing Title :
**GENERAL ARRANGEMENT DRAWING
 FOR RCC BOX TYPE RUB**

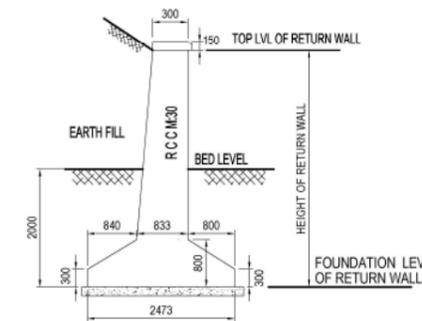
Drawing Number :
NKC-CTS-RUB-AHM-TYP-9 (SHEET 2 OF 2)
 Scale :
AS SHOWN
 Reference :
GAD PREPARED BY CPM AHMEDABAD
 Drawn By : S. Salamuddin | Checked By : M. N. Ahmad | Approved By : H. Kawahara
 Date : 30th, Sept, 2012 | Date : 1st, Oct, 2012 | Date : 3rd, Oct, 2012




NK Consortium
 4th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA



SECTION A-A
SCALE 1:100



CROSS SECTION OF RETURN WALL
(SCALE 1:60)

GENERAL NOTES:

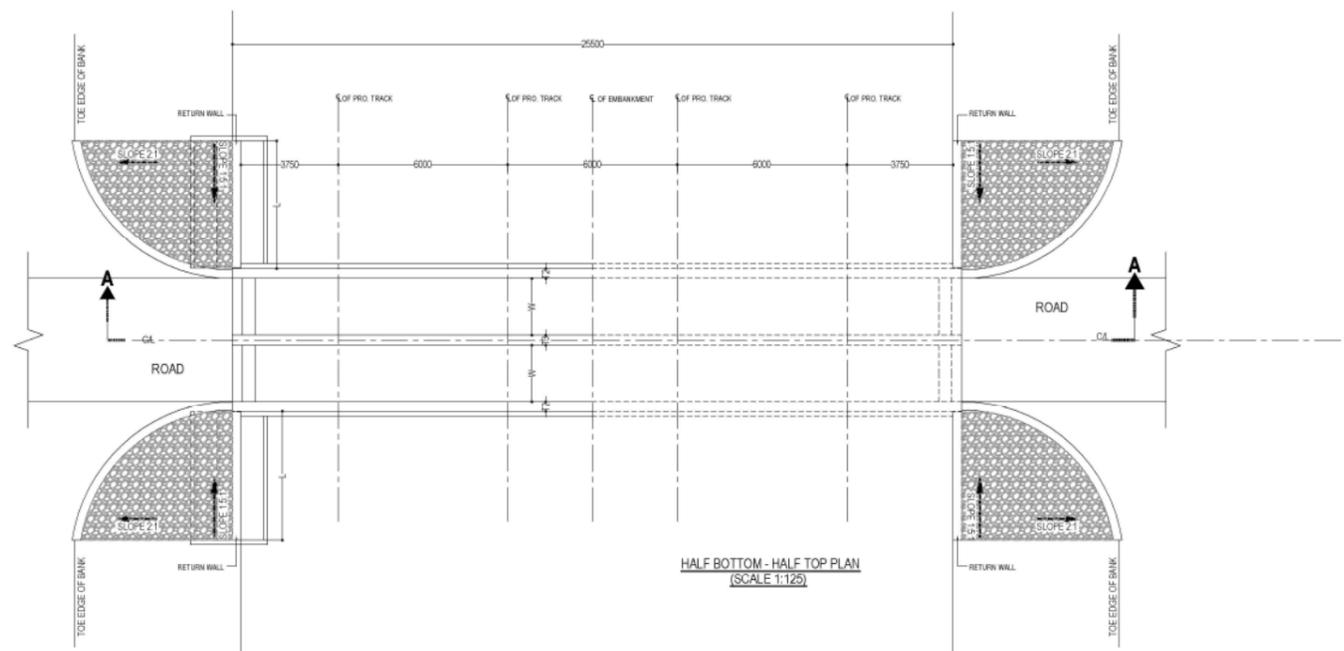
- 1) ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
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FOUNDATION

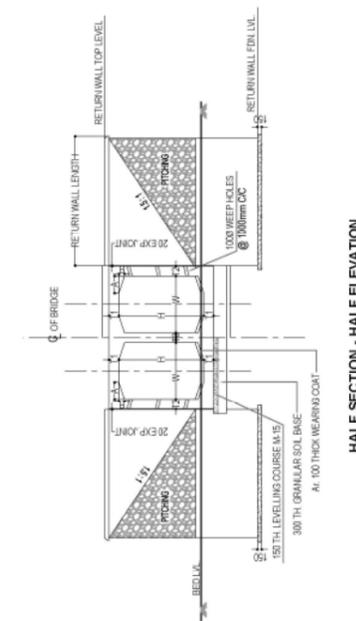
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GEO-TECHNICAL

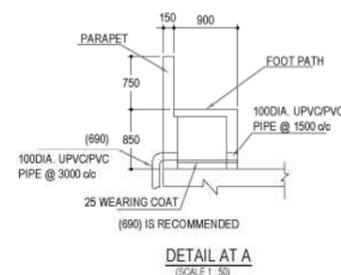
- 1) FOR TENDER PURPOSE REFER TO GEOTECHNICAL INVESTIGATION REPORT IN DATA BOOK 2/2.
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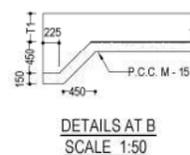
HALF BOTTOM - HALF TOP PLAN
(SCALE 1:125)



HALF SECTION - HALF ELEVATION
(SCALE 1:125)



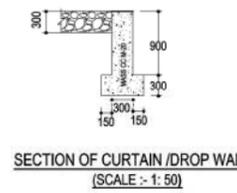
DETAIL AT A
(SCALE 1:50)



DETAILS AT B
(SCALE 1:50)



SECTION OF TOE WALL
(SCALE 1:50)



SECTION OF CURTAIN / DROP WALL
(SCALE 1:50)

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

Project Title :

Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)

Client :



Dedicated Freight Corridor Corporation of India
(A GOVERNMENT OF INDIA UNDERTAKING)

5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :

GENERAL ARRANGEMENT DRAWING
FOR RCC BOX TYPE RUB

Drawing Number :

NKC-CTS-RUB-AHM-TYP-10 (SHEET NO. 2)

Scale :

AS SHOWN

Reference :

GAD PREPARED BY CPM AHMEDABAD

Drawn By : S. Salamuddin

Checked By : M. N. Ahmad

Approved By : H. Kawahara

Date : 30th, Sept, 2012

Date : 1st, Oct, 2012

Date : 3rd, Oct, 2012



NK Consortium

4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Sec. No.	Structure Chainage	Proposed Bridge No.	FL (m)	GL (m)	RL (m)		Type of Structure	Structure configuration	No. of tracks Proposed for DFCC	Skew Angle	Type of Crossing	Remark	Box Configuration								Return Wall					
													DEP	n	W (m)	H (m)	T1 (m)	T2 (m)	T3 (m)	A (m)	B (m)	Barrel Length-Z (m)	FILL (m)	TOP LVL (m)	FDN LVL (m)	Height L (m)
7	97161	241A	49.569	43.919	42.869	43.919	RUB-Major	RCC Box	4	0	Canal + Cart Track	Dep	2	9.15	5.5	1.2	0.8	0.8	0.6	0.2	25.500	0.000	49.57	40.869	8.70	9.250
7	86765.0	SA-55	45.658	44.019	40.158	44.019	RUB-Major	RCC Box	4	0	Drain	Dep	2	9.15	4.5	1.00	0.70	0.70	0.60	0.20	25.500	0.000	45.66	38.158	7.50	7.550

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Project Title :
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Client :
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(A GOVERNMENT OF INDIA UNDERTAKING)
 5th Floor, Pragati Maidan Metro Station Building,
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Drawing Title :
**GENERAL ARRANGEMENT DRAWING
 FOR RCC BOX TYPE RUB**

Drawing Number :
NKC -CTS -RUB -AHM-TYP-10 (SHEET 2 OF 2)

Scale :
AS SHOWN

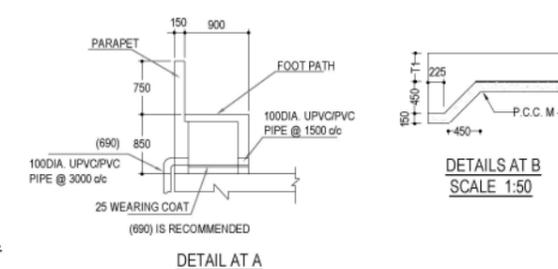
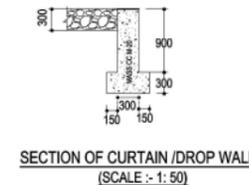
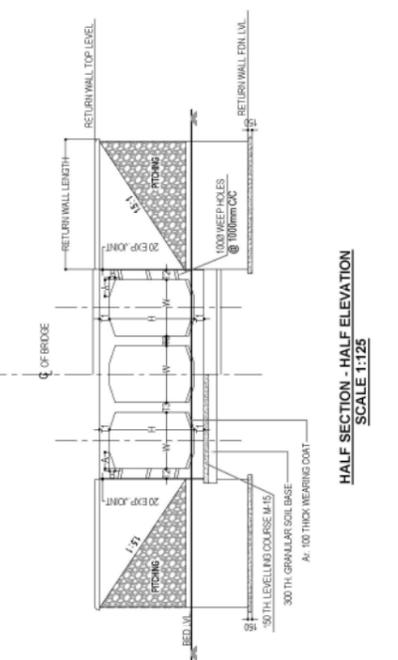
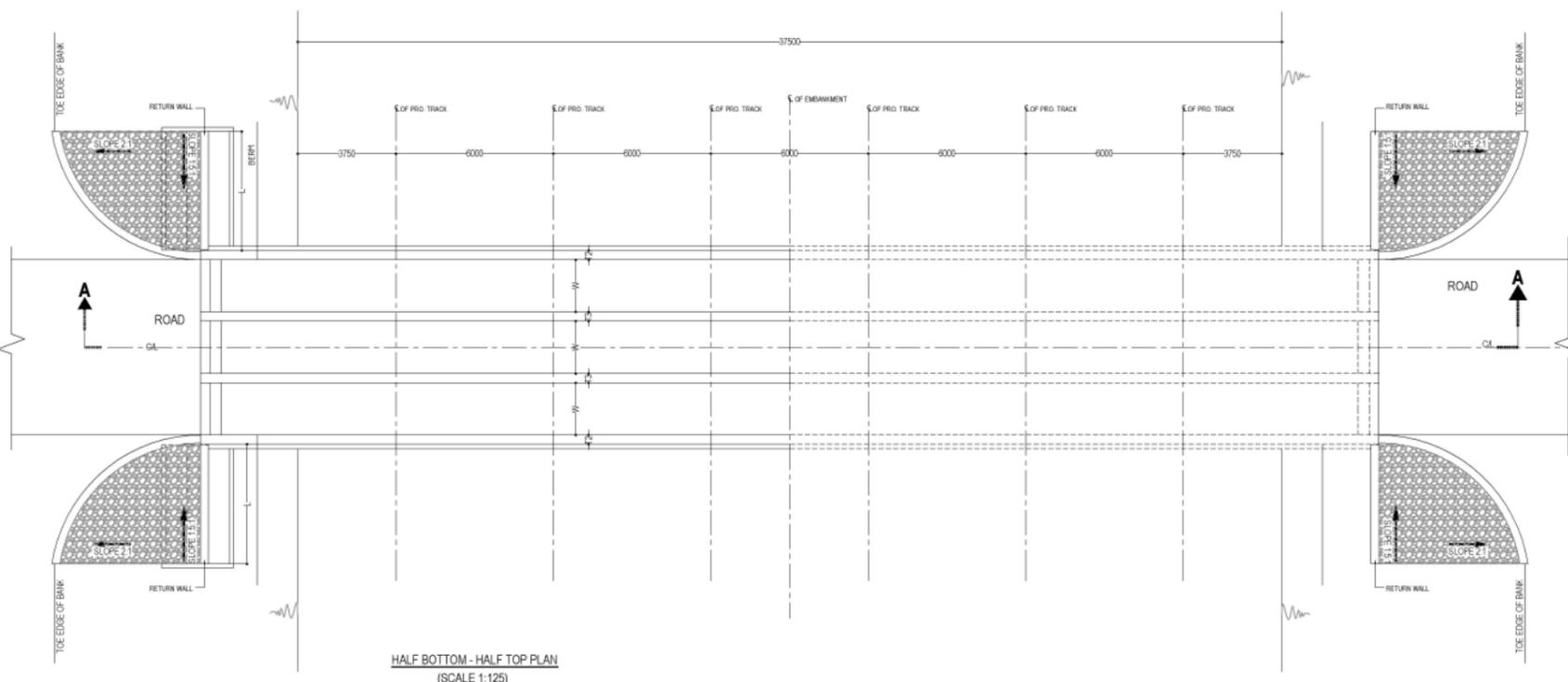
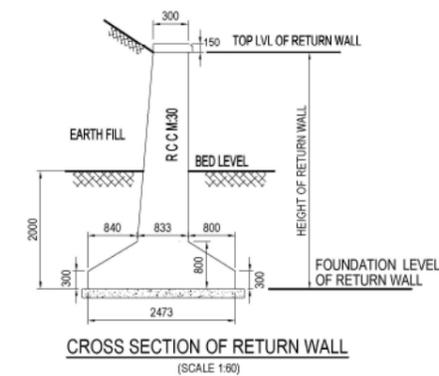
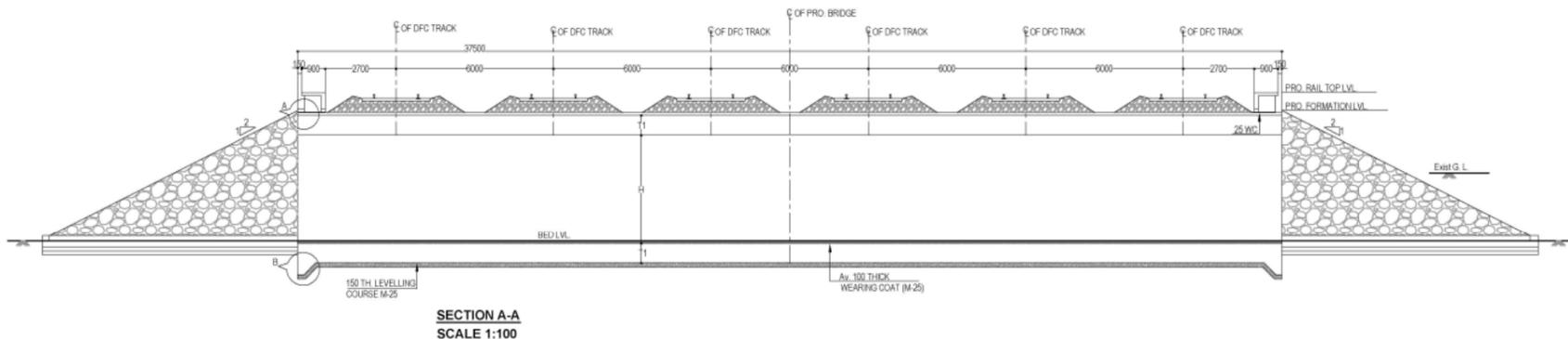
Reference :
GAD PREPARED BY CPM AHMEDABAD

Drawn By : S. Salamuddin Checked By : M. N. Ahmad Approved By : H. Kawahara
 Date : 30th, Sept, 2012 Date : 1st, Oct, 2012 Date : 3rd, Oct, 2012




NK Consortium

4th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA



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- FOUNDATION
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Sec. No.	Structure Chainage	Proposed Bridge No.	FL (m)	GL (m)	RL (m)	Type of Structure	Structure configuration	No. of tracks Proposed for DFCC	Skew Angle	Type of Crossing	Remark	Box Configuration						Return Wall							
												DEP	n	W (m)	H (m)	T1 (m)	T2 (m)	T3 (m)	A (m)	B (m)	Barrel Length-Z (m)	FILL (m)	TOP LVL (m)	FDN LVL (m)	Height L (m)
7	99503	249A	52.884	46.184	46.184	RUB-Major	RCC Box	6	0	Canal + Cart Track	Dep	3	9.15	5.5	1.2	0.8	0.8	0.6	0.2	37.500	0.000	52.88	44.184	8.70	9.250

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Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

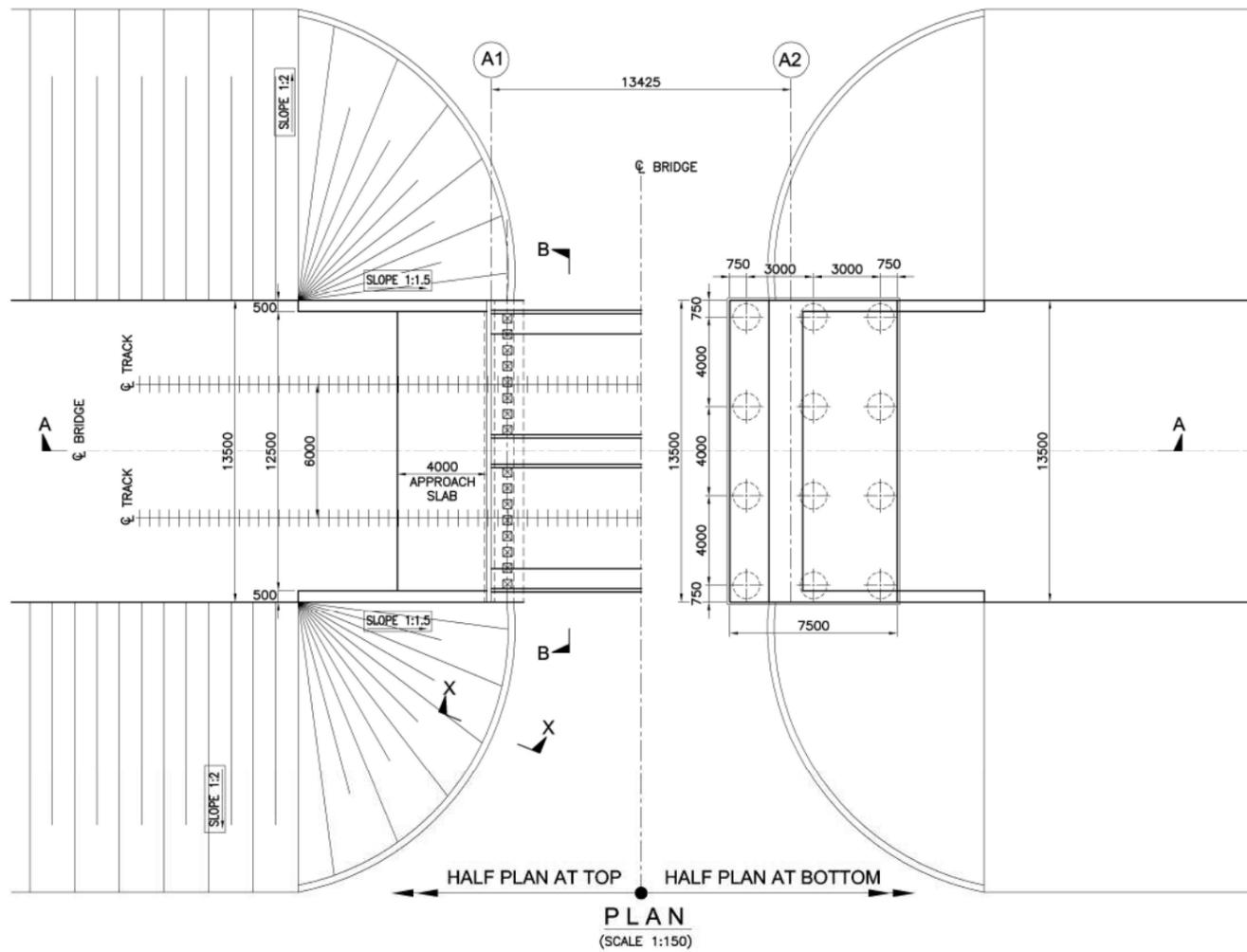
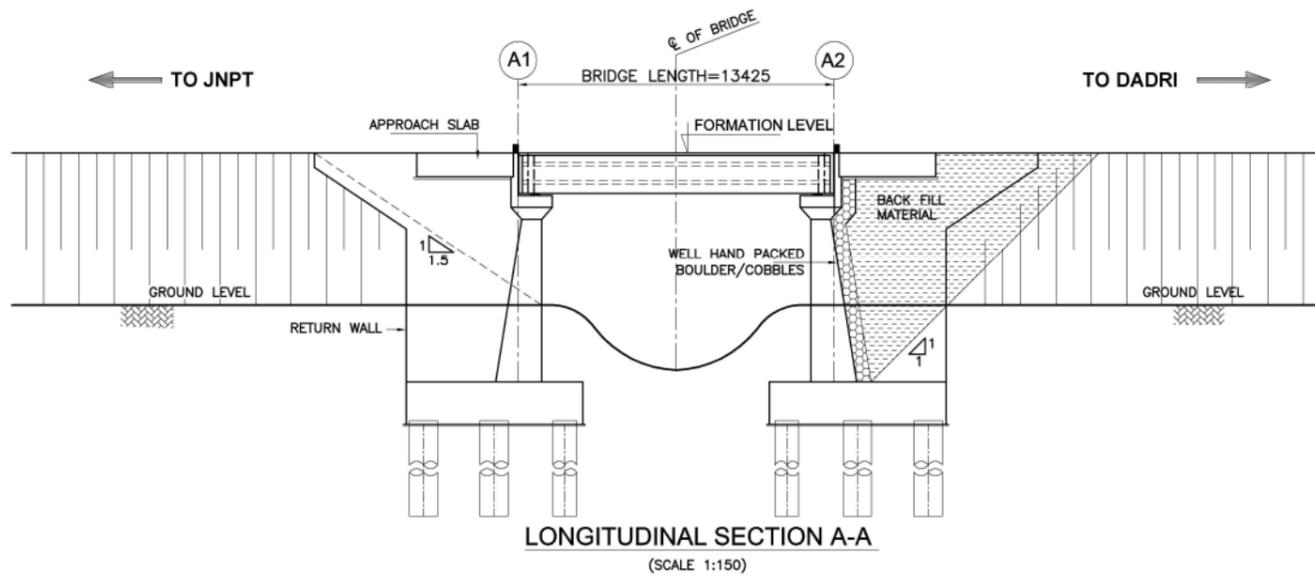
Project Title :
Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)

Client :
 Dedicated Freight Corridor Corporation of India
(A GOVERNMENT OF INDIA UNDERTAKING)
5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :
GENERAL ARRANGEMENT DRAWING
FOR RCC BOX TYPE RUB

Drawing Number :
NKC-CTS-BRD-AHM-TYP-11 (SHEET 1 OF 1)
Scale :
AS SHOWN
Reference :
GAD PREPARED BY CPM AHMEDABAD
Drawn By : S. Salamuddin
Checked By : M. N. Ahmad
Approved By : H. Kawahara
Date : 30th, Sept, 2012
Date : 1st, Oct, 2012
Date : 3rd, Oct, 2012

NK Consortium
4th Floor, Pragati Maidan Metro Station Building,
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 8. GROUND PROFILE SHOULD BE VERIFIED BEFORE EXECUTION.
- SUPERSTRUCTURE & SUBSTRUCTURE**
- 1) THE BRIDGE SHALL BE DESIGNED AS PER DFCC LOADING (32.5T AXLE LOAD) BRIDGE RULE, ISSUED BY RDSO, (WITH LATEST CORRECTION SLIP).
 - 2) THE BRIDGE SHALL BE DESIGNED AS PER THE SEISMIC ZONE FOR THE AREA.
 - 3) BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - 4) WEEP HOLES SHALL BE PROVIDED IN RETURN WALL & ABUTMENT.
 - 5) THE FOUNDATION BOLTS SHALL BE PROVIDED IN CONSULTATION WITH THE CONTRACTOR OF EMP-4.
 - 6) RAILING EXPANSION JOINTS, BEARING, WEARING COAT, FOOTPATH, SERVICE DUCT, DRAINAGE SHALL BE PROVIDED AS PER SPECIFICATION.
 - 7) FOR INSPECTION OF BEARING / SUPERSTRUCTURE, SUITABLE ARRANGEMENT SHALL BE PROVIDED.
 - 8) FOR CHANGING OF BEARING SUITABLE ARRANGEMENT SHALL BE PROVIDED.
- FOUNDATION**
- 1) SETTLEMENT OF FOUNDATION SHALL BE CHECKED SO THAT IT IS WITHIN ACCEPTABLE LIMIT OF TOTAL & DIFFERENTIAL SETTLEMENTS AS PER CLAUSE 6.1 OF IRS BRIDGE SUB STRUCTURE & FOUNDATION CODE.
 - 2) SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE DESIGN OF STRUCTURES IF REQUIRED.
- GEO-TECHNICAL**
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Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

NK Consortium
4th Floor, Pragati Maidan Metro Station Building,
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Project Title :
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Client :

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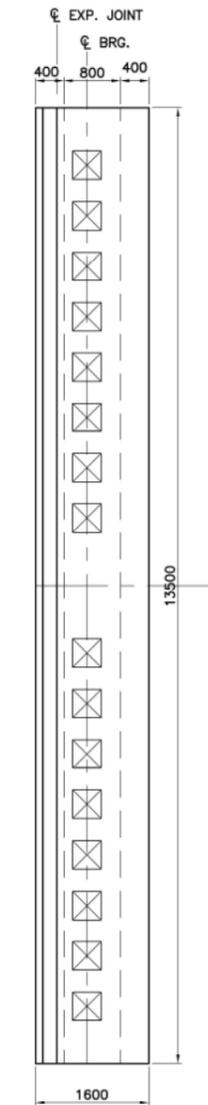
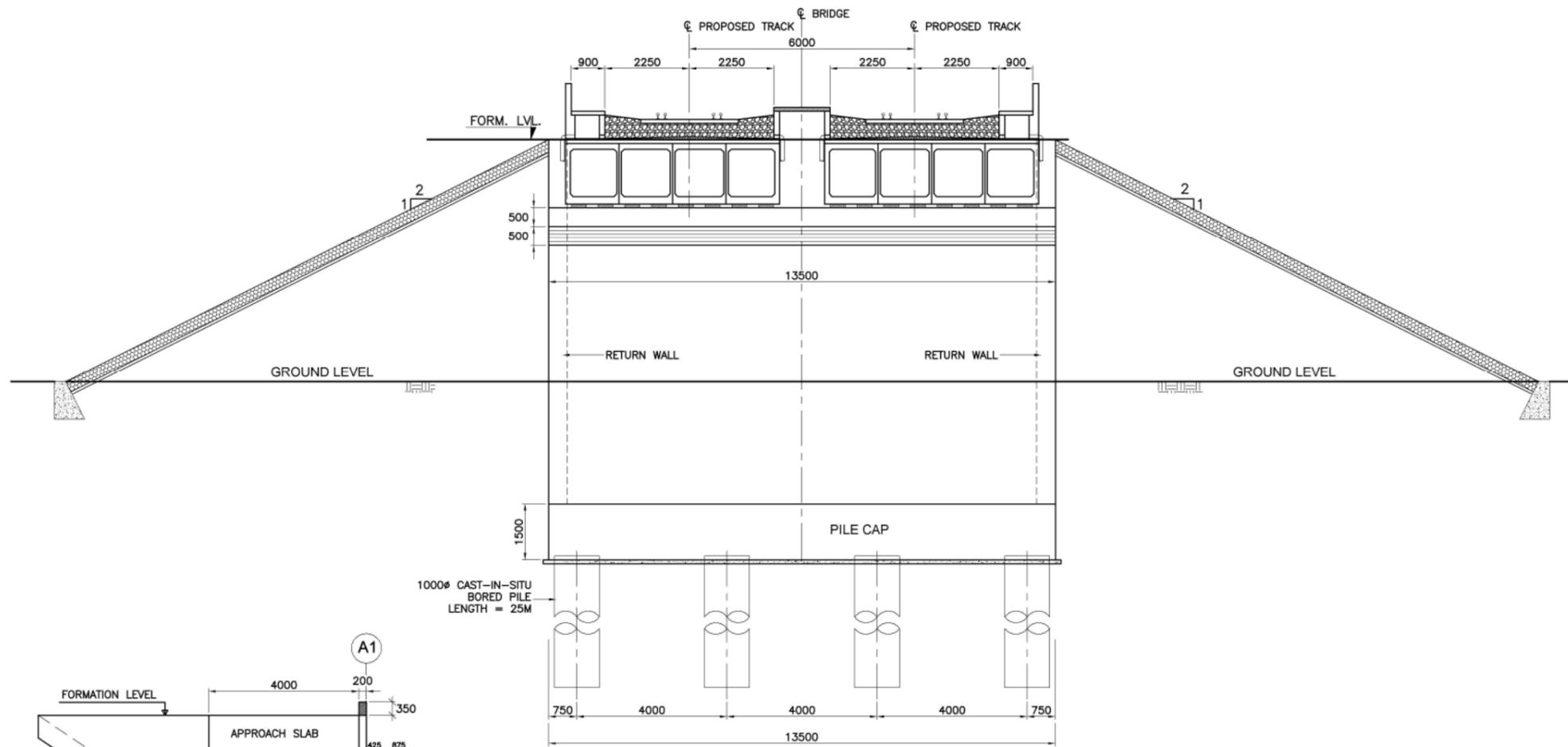
Drawing Title :
**TYPICAL DRAWING OF MAJOR BRIDGE
FOR SPAN 1X12.20m.
PRESTRESSED CONTIGUOUS BOX**

Drawing Number :
NKC -CTS -MAJ -AHM-TYP-12 (SHEET 1 OF 3)

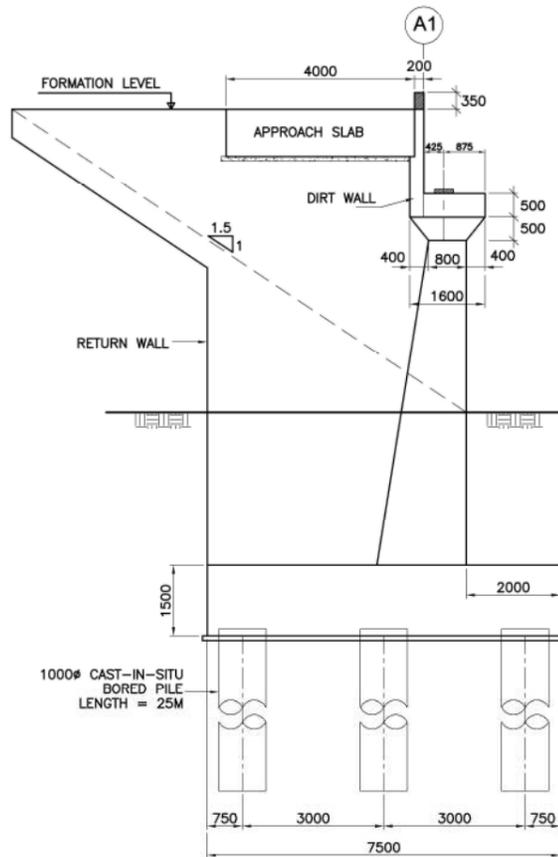
Scale :
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Reference :
GAD PREPARED BY CPM AHMEDABAD

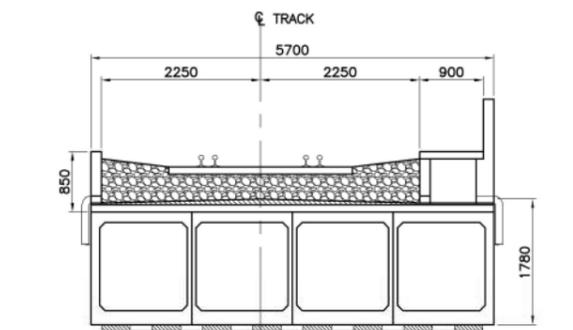
Drawn By :
Checked By :
Approved By :



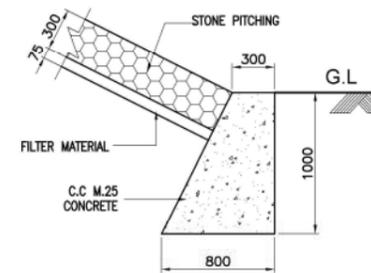
PLAN AT ABUTMENT CAP LEVEL
(SCALE 1:50)



DETAIL OF ABUTMENT - A1
(SCALE 1:75)



12.2m SPAN (PRESTRESSED CONTIGUOUS BOX)
(SCALE 1:50)



DETAIL X-X
(SCALE 1:25)

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder



NK Consortium

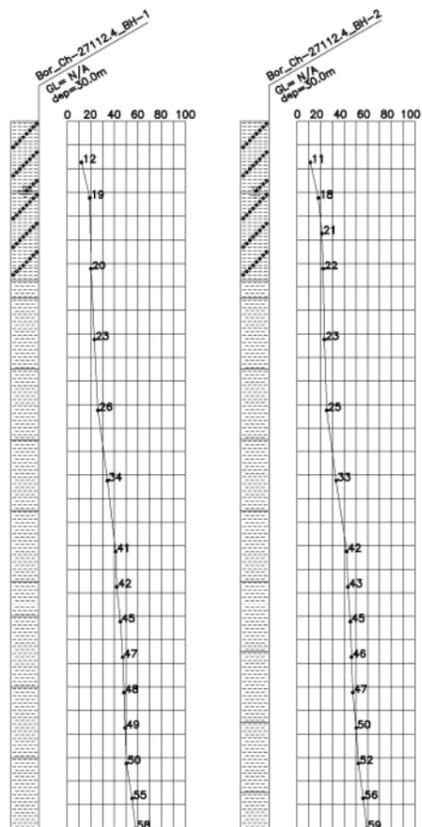
4th Floor, Pragati Maidan Metro Station Building,
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Project Title :
**Dedicated Freight Corridor Project
(Western Corridor Phase-1:
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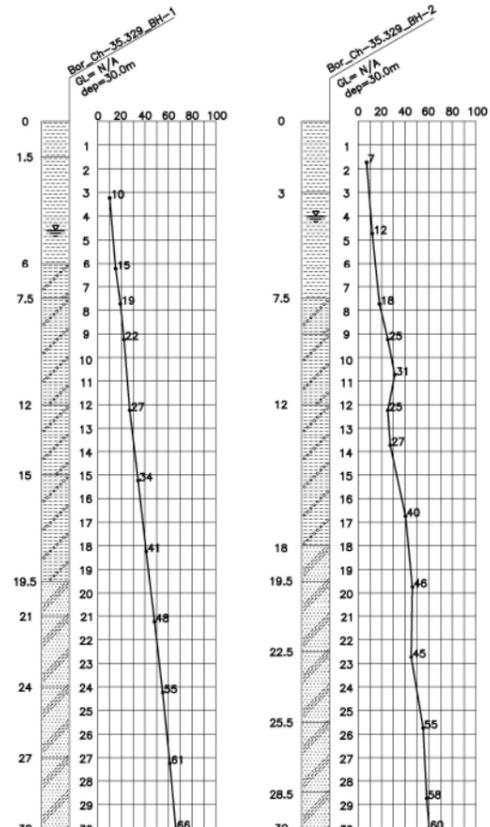
Client :
 **Dedicated Freight Corridor Corporation of India**
(A GOVERNMENT OF INDIA UNDERTAKING)
5th Floor, Pragati Maidan Metro Station Building,
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**TYPICAL DRAWING OF MAJOR BRIDGE
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PRESTRESSED CONTIGUOUS BOX**

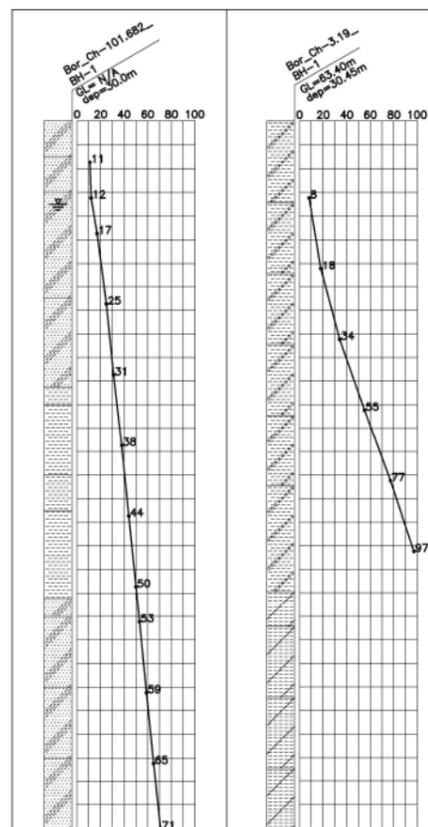
Drawing Number :
NKC -CTS -MAJ -AHM-TYP-12 (SHEET 2 OF 3)
Scale :
AS SHOWN
Reference :
GAD PREPARED BY CPM AHMEDABAD
Drawn By :
Checked By :
Approved By :



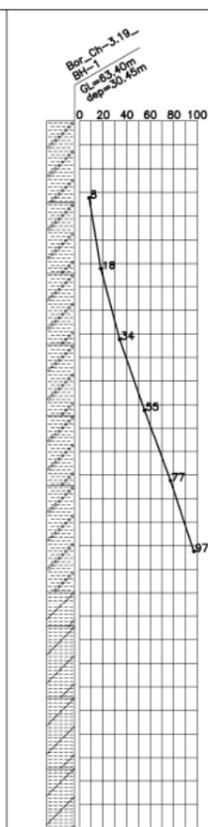
BORE HOLE PROFILE FOR BRIDGE NO. 92B



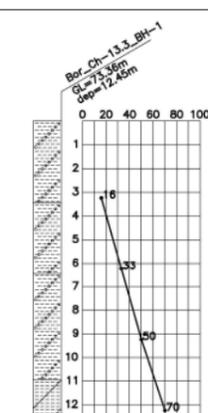
BORE HOLE PROFILE FOR BRIDGE NO. 118A



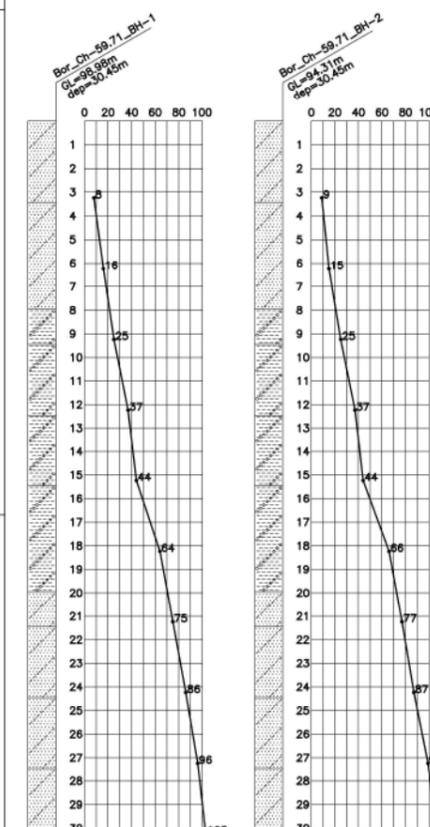
BORE HOLE PROFILE BRIDGE NO. 261A



BORE HOLE PROFILE BRIDGE NO. 5A



BORE HOLE PROFILE BRIDGE NO. 27A



BORE HOLE PROFILE BRIDGE NO. 124A

LEGEND:

SDR	GW	MH	SP
CI-CH	GP	MI	SP-SM
CL	GP-GM	ML	SW
CL-ML	GM	SC	SW-SM
CI	GM-GC	SM	WR
CH	GW-GM	SM-SC	SR
			HR

Sec. No.	Structure Chainage	Proposed Bridge No.	Formation Level (m)	Ground Level (m)	Bed Level (m)	Clear Spans	Type of Structure	Type of Crossing	Structure configuration	No. of Tracks
6	27116.0	92B	32.521	24.897	21.897	1 x 12.2 m	Major Bridge	Pond	Prestressed Contiguous Box	2
6	34951.0	118A	26.253	20.082	17.082	1 x 12.2 m	Major Bridge	Pond	Prestressed Contiguous Box	2
6	46070.0	148A	27.277	21.116	18.116	1 x 12.2 m	Major Bridge	Pond	Prestressed Contiguous Box	2
7	101925.0	261A	53.511	47.065	44.065	1 x 12.2 m	Major Bridge	Pond	Prestressed Contiguous Box	2
7	106610.0	271A	57.776	51.004	48.004	1 x 12.2 m	Major Bridge	Pond	Prestressed Contiguous Box	2
8N	2,590.0	5A	67.338	59.030	56.030	1 x 12.2 m	Major Bridge	Pond	Prestressed Contiguous Box	2
8N	13,084.0	27A	75.034	71.673	68.673	1 x 12.2 m	Major Bridge	Pond	Prestressed Contiguous Box	2
8N	59,500.0	124A	99.822	99.380	96.380	1 x 12.2 m	Major Bridge	Pond	Prestressed Contiguous Box	2

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder



NK Consortium

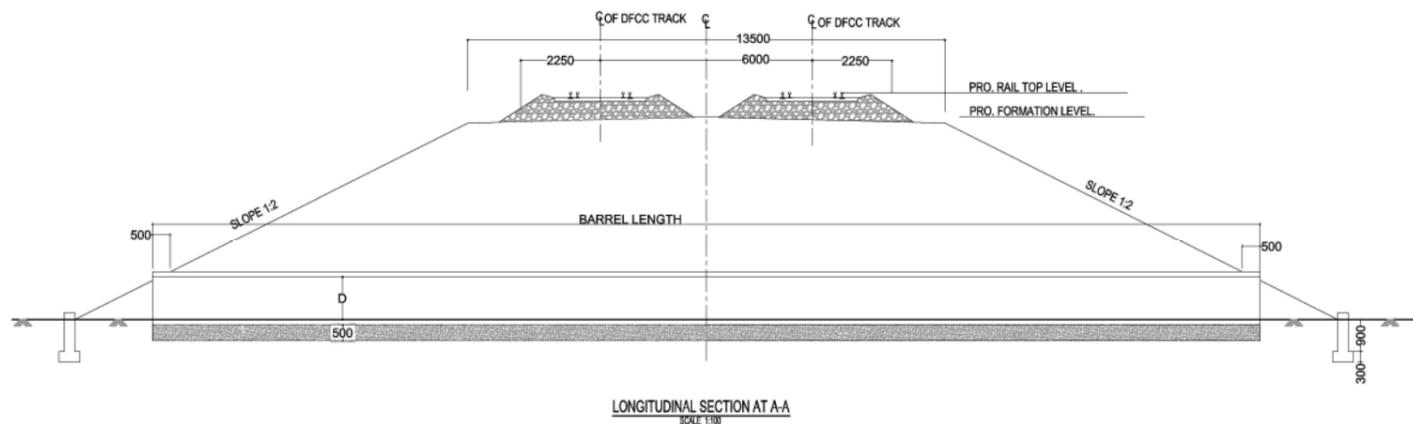
Project Title :
Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)

Client :
 Dedicated Freight Corridor Corporation of India
(A GOVERNMENT OF INDIA UNDERTAKING)
5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

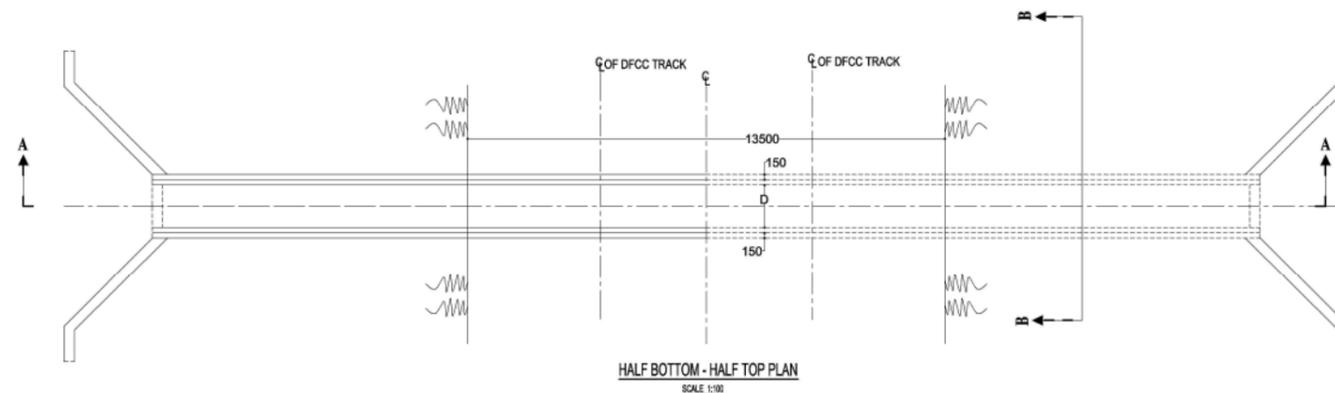
Drawing Title :
TYPICAL DRAWING OF MAJOR BRIDGE
FOR SPAN 1X12.20m.
PRESTRESSED CONTIGUOUS BOX

Drawing Number :
NKC-CTS-MAJ-AHM-TYP-12 (SHEET 3 OF 3)
Scale :
AS SHOWN
Reference :
GAD PREPARED BY CPM AHMEDABAD
Drawn By :
Checked By :
Approved By :

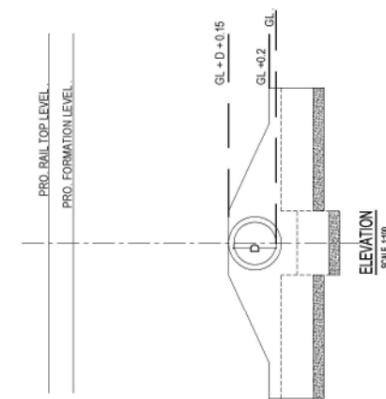
4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA



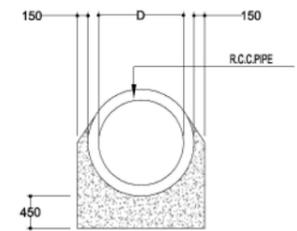
LONGITUDINAL SECTION AT A-A
SCALE 1:10



HALF BOTTOM - HALF TOP PLAN
SCALE 1:10



ELEVATION
SCALE 1:10



DETAILED 'X' SECTION AT B-B
SCALE 1:50

- GENERAL NOTES:**
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 - 5) FORMATION LEVEL SHOWN IN GAD IS AS PER PROPOSED LONGITUDINAL SECTION OF THE ALIGNMENT AND MAY CHANGE DURING DEVELOPMENT OF DETAILED DESIGN STAGE.
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 - 8) EXCAVATION / DISMANTLING OF ANY PORTION OF EXISTING BRIDGE OR ANY ELEMENT OF EXISTING PERMANENT WAY OR ANY WORK AFFECTING THE SAFETY OF THE EXISTING BRIDGE / PERMANENT WAY OR SAFETY OF THE RUNNING TRAINS WILL REQUIRE THE PRIOR WRITTEN APPROVAL OF THE ENGINEER/EMPLOYER.
- FOUNDATION**
- 1) SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE DESIGN OF STRUCTURES.
- GEO-TECHNICAL**
- 1) FOR TENDER PURPOSE REFER TO GEOTECHNICAL & HYDROLOGICAL INVESTIGATION REPORT IN DATA BOOK 2/2.
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<p>Project Title : Dedicated Freight Corridor Project (Western Corridor Phase-1: Rewari - Vadodara Section)</p>	<p>Client : DFCC Dedicated Freight Corridor Corporation of India (A GOVERNMENT OF INDIA UNDERTAKING) 5th Floor, Pragati Maidan Metro Station Building, New Delhi-110001, INDIA</p>	<p>Drawing Title : GENERAL ARRANGEMENT DRAWING FOR RCC PIPE TYPE TRACK CROSSING FOR REPTILES</p>	<p>Drawing Number : NKC -CTS -BRD -AHM-TYP-15 (SHEET 1 OF 2)</p> <p>Scale : AS SHOWN</p> <p>Reference : GAD PREPARED BY CPM AHMEDABAD</p> <p>Drawn By : Ashish</p> <p>Checked By : M.N. Ahmed</p> <p>Approved By : Dinesh Sharma</p>	<p>4th Floor, Pragati Maidan Metro Station Building, New Delhi-110001, INDIA</p>
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Sec. No.	Chainage	Bridge No.	Formation Level	Ground Level *	Fill (m)	Number of DFC Tracks	RCC Pipe			Wing Wall (Inlet, Outlet)				Remarks
			DFC				Barrel Length (m)	Number of pipe n	Diameter D (m)	Top LVL1 (m)	Top LVL2 (m)	FDN LVL (m)	Length (m)	
7	102600	262B	51.308	47.427	3.581	2	28.824	1x 0.3m	0.3	G.L+D+0.15	G.L + 0.2	G.L - 0.5	1.850	Track crossing for Reptiles
7	102800	263A	50.668	47.359	3.009	2	26.536	1x 0.3m	0.3	G.L+D+0.15	G.L + 0.2	G.L - 0.5	1.850	
7	103000	263B	50.028	47.738	1.990	2	22.460	1x 0.3m	0.3	G.L+D+0.15	G.L + 0.2	G.L - 0.5	1.850	
7	103200	265A	50.169	47.983	1.886	2	22.044	1x 0.3m	0.3	G.L+D+0.15	G.L + 0.2	G.L - 0.5	1.850	
7	103400	265B	50.949	48.220	2.429	2	24.216	1x 0.3m	0.3	G.L+D+0.15	G.L + 0.2	G.L - 0.5	1.850	
7	103600	265C	51.729	48.221	3.208	2	27.332	1x 0.3m	0.3	G.L+D+0.15	G.L + 0.2	G.L - 0.5	1.850	
7	103800	265D	52.509	47.866	4.343	2	31.872	1x 0.3m	0.3	G.L+D+0.15	G.L + 0.2	G.L - 0.5	1.850	
7	104000	266A	53.245	48.391	4.554	2	32.716	1x 0.3m	0.3	G.L+D+0.15	G.L + 0.2	G.L - 0.5	1.850	
7	104200	266B	53.945	48.988	4.657	2	33.128	1x 0.3m	0.3	G.L+D+0.15	G.L + 0.2	G.L - 0.5	1.850	
7	104400	267A	54.645	49.939	4.406	2	32.124	1x 0.3m	0.3	G.L+D+0.15	G.L + 0.2	G.L - 0.5	1.850	
7	104600	267B	55.345	49.565	5.480	2	36.420	1x 0.3m	0.3	G.L+D+0.15	G.L + 0.2	G.L - 0.5	1.850	
7	104820	268A	55.725	49.192	6.233	2	39.432	1x 0.3m	0.3	G.L+D+0.15	G.L + 0.2	G.L - 0.5	1.850	
7	105000	268C	54.951	49.564	5.087	2	34.848	1x 0.3m	0.3	G.L+D+0.15	G.L + 0.2	G.L - 0.5	1.850	
7	105200	268D	54.091	51.236	2.555	2	24.720	1x 0.3m	0.3	G.L+D+0.15	G.L + 0.2	G.L - 0.5	1.850	
7	105400	268E	53.231	50.631	2.300	2	23.700	1x 0.3m	0.3	G.L+D+0.15	G.L + 0.2	G.L - 0.5	1.850	
7	105600	268F	53.528	50.383	2.845	2	25.880	1x 0.3m	0.3	G.L+D+0.15	G.L + 0.2	G.L - 0.5	1.850	
7	105800	268H	54.448	50.755	3.393	2	28.072	1x 0.3m	0.3	G.L+D+0.15	G.L + 0.2	G.L - 0.5	1.850	
7	106000	268I	55.368	50.423	4.645	2	33.080	1x 0.3m	0.3	G.L+D+0.15	G.L + 0.2	G.L - 0.5	1.850	
7	106200	268J	56.288	51.058	4.930	2	34.220	1x 0.3m	0.3	G.L+D+0.15	G.L + 0.2	G.L - 0.5	1.850	
7	106400	270A	57.208	51.133	5.775	2	37.600	1x 0.3m	0.3	G.L+D+0.15	G.L + 0.2	G.L - 0.5	1.850	

NOTE (i) Tabulated F.L is based on the alignment drawing modified by NKC, and should be reconfirmed in Detail Design after Survey.
(ii) Tabulated G.L is based on GADs prepared by CPM, and should be reconfirmed in Detail Design after Survey.

GENERAL NOTES:

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FOUNDATION

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GEO-TECHNICAL

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Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

Project Title :
**Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)**

Client :
 **Dedicated Freight Corridor Corporation of India**
(A GOVERNMENT OF INDIA UNDERTAKING)
5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :
**GENERAL ARRANGEMENT DRAWING
FOR RCC PIPE TYPE TRACK CROSSING
FOR REPTILES**

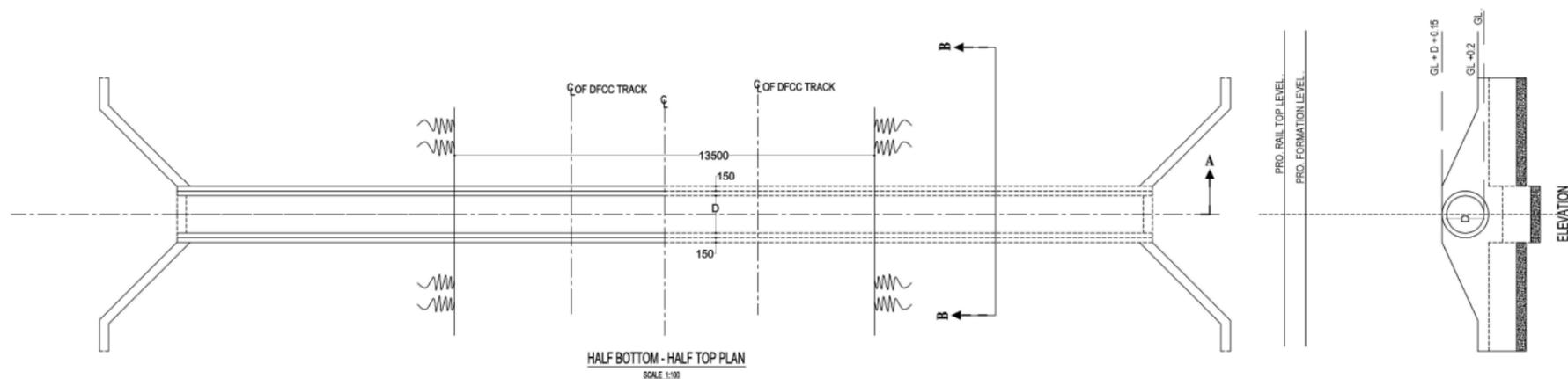
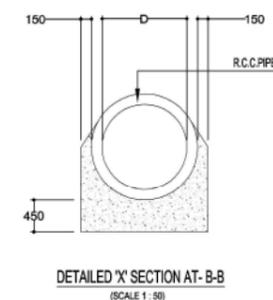
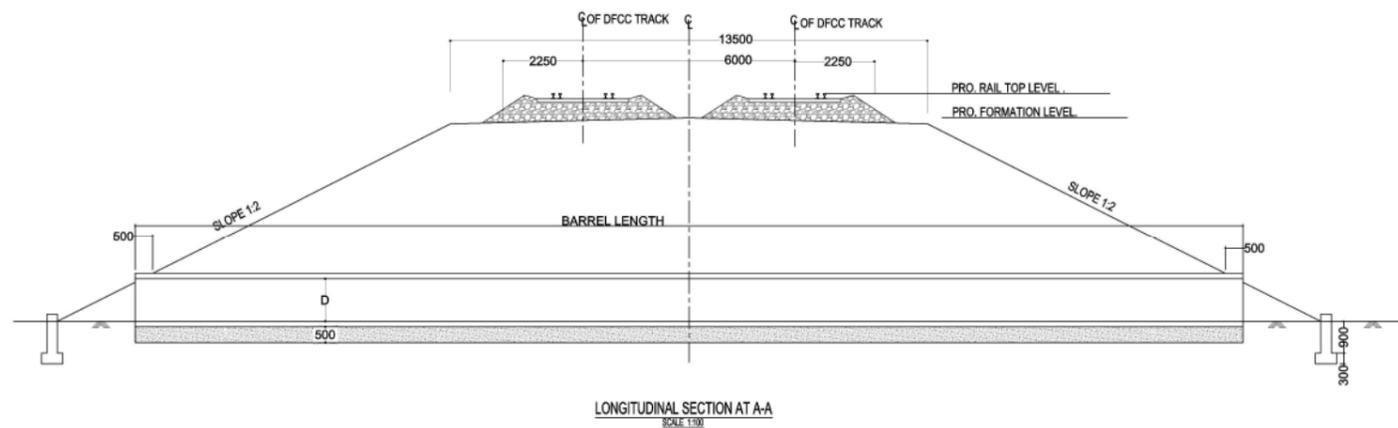
Drawing Number :
NKC-CTS-BRD-AHM-TYP-15 (SHEET NO. OF 2)

Scale :
AS SHOWN

Reference :
GAD PREPARED BY CPM AHMEDABAD

Drawn By : Ashish
Checked By : M.N. Ahmed
Approved By : Dinesh Sharma

Consultant :
 **NKC Consortium**
4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA



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Sec. No.	Chainage	Bridge No.	Formation Level		Ground Level (m)	H F L (m)	Skew Angle	Fill (m)	Number of DFC Tracks	RCC Pipe			Wing Wall (Inlet, Outlet)			
			I R (m)	D F C (m)						Barrel Length (m)	Number of pipe n	Diameter D (m)	Top LVL1 (m)	Top LVL2 (m)	FDN LVL (m)	Length (m)
6	67466.0	SA-10	-	33.939	30.874	31.050	35	1.865	2	21.960	1 x 1.2m	1.2	G.L+D+0.15	G.L + 0.2	G.L - 0.5	4.390
6	72788.0	SA-22A		35.991	30.853	31.550	0	3.938	2	30.252	1 x 1.2m	1.2	G.L+D+0.15	G.L + 0.2	G.L - 0.5	4.390

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Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

Project Title :

Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)

Client :

 **Dedicated Freight Corridor Corporation of India**
(A GOVERNMENT OF INDIA UNDERTAKING)
5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :

GENERAL ARRANGEMENT DRAWING
FOR PIPE TYPE MINOR BRIDGE

Drawing Number :

NKC -CTS -BRD-AHM-00001 (SHEET 1 OF 2)

Scale :

AS SHOWN

Reference :

GAD PREPARED BY CPM AHMEDABAD

Drawn By : S. Salamuddin

Checked By : M. N. Ahmad

Approved By : H. Kawahara

Date : 30th, Sept, 2012

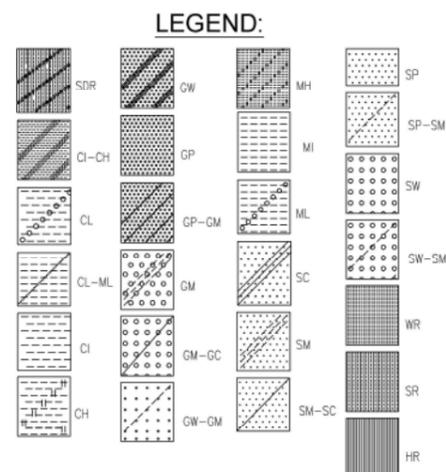
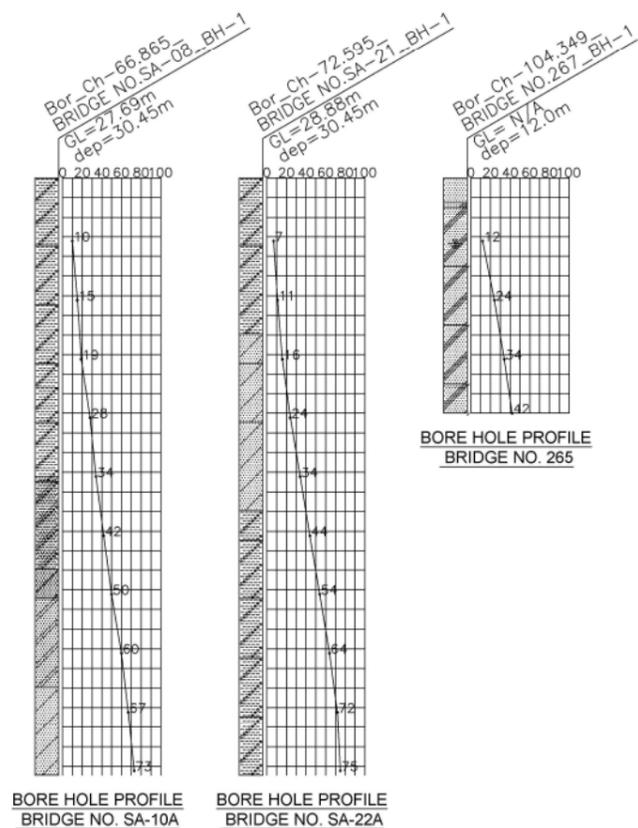
Date : 1st, Oct, 2012

Date : 3rd, Oct, 2012



NK Consortium

4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA



Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder



Project Title :
Dedicated Freight Corridor Project
 (Western Corridor Phase-1:
 Rewari - Vadodara Section)

Client :

Dedicated Freight Corridor Corporation of India
(A GOVERNMENT OF INDIA UNDERTAKING)
 5th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA

Drawing Title :
GENERAL ARRANGEMENT DRAWING
FOR PIPE TYPE MINOR BRIDGE

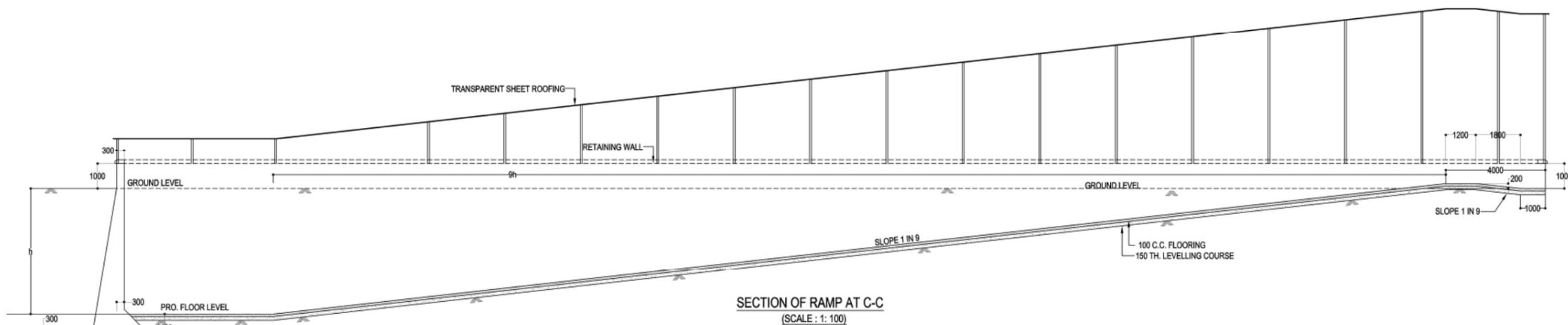
Drawing Number :
NKC -CTS -BRD-AHM-00001 (SHEET 2 OF 2)

Scale :
AS SHOWN

Reference :
GAD PREPARED BY CPM AHMEDABAD

Drawn By : S. Salamuddin | Checked By : M. N. Ahmad | Approved By : H. Kawahara
 Date : 30th, Sept, 2012 | Date : 1st, Oct, 2012 | Date : 3rd, Oct, 2012

4th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA



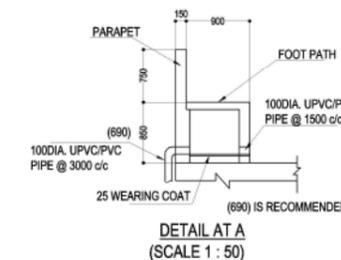
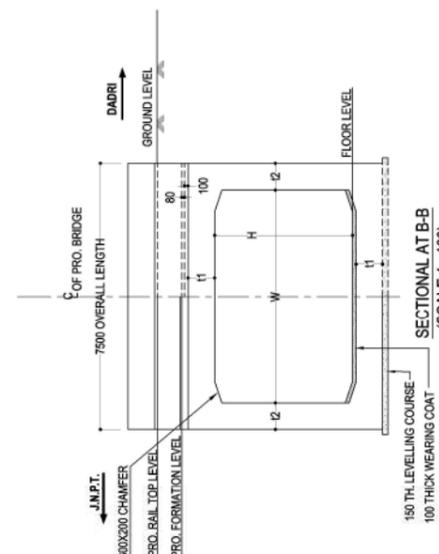
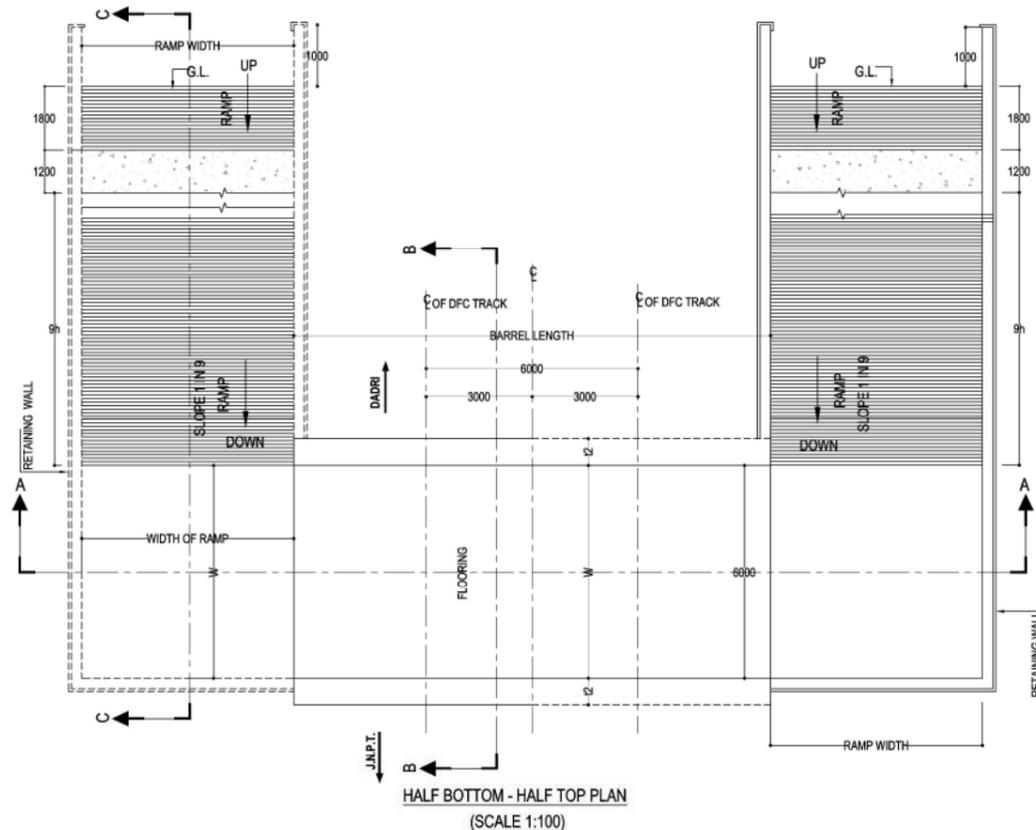
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Project Title :

Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)

Client :



Dedicated Freight Corridor Corporation of India
(A GOVERNMENT OF INDIA UNDERTAKING)

5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :

GENERAL ARRANGEMENT DRAWING
FOR RUB PEDESTRIAN (U-TYPE)
(RCC BOX)

Drawing Number :

NKC-CTS-PED-AHM-00002 (SHEET 1 OF 3)

Scale :

AS SHOWN

Reference :

GAD PREPARED BY CPM AHMEDABAD

Drawn By : S. Salamuddin

Checked By : M. N. Ahmad

Approved By : H. Kawahara

Date : 30th, Sept, 2012

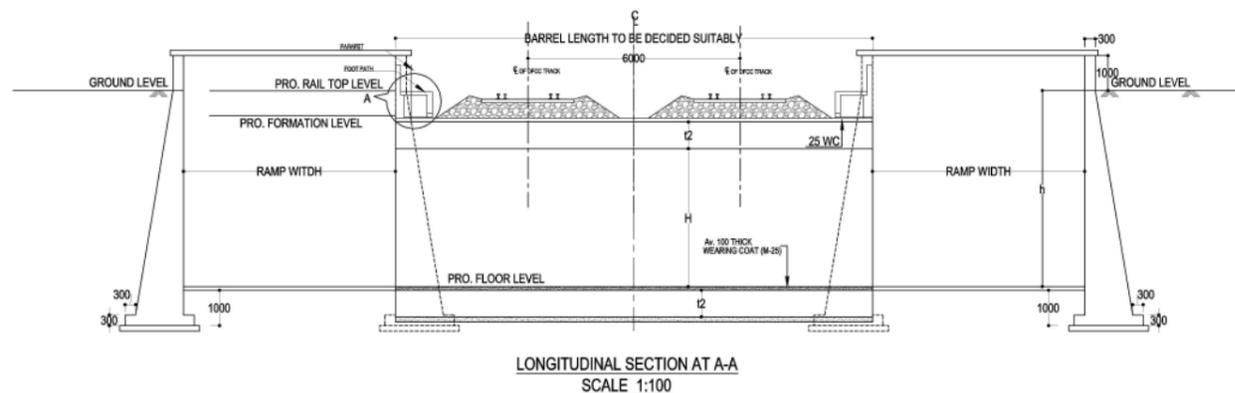
Date : 1st, Oct, 2012

Date : 3rd, Oct, 2012



NK Consortium

4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA



CPM	Sec. No.	CHAIN AGE		Bridge No.		CLEAR SPAN for Railway Bridges	Nos. of Tracks (Proposed for DFC)	STRUCTURE CONFIGURATION	Type of Crossing	Distance between IR and DFC	Formation Level		Ground Level	Box Culvert Configuration				Retainng wall				Existing Station Name
		IR	DFC	IR	DFC						IR	DFC		n	W (m)	H (m)	t1 (m)	t2 (m)	Bed Level (m)	Top LVL (m)	FDN LVL (m)	
Ahmedabad	8N	-	13,460.0		27B	1 x 6.0m x 2.5m	2	RCC Box	Pedestrian Subway U-type		74.640	74.470	1	6.0	2.5	0.75	0.55	71.44	74.640	69.440	3.200	
Ahmedabad	8N		15,550.0		35A	1 x 6.0m x 2.5m	2	RCC Box	Pedestrian Subway U-type		77.664	75.270	1	6.0	2.5	0.75	0.55	74.46	77.664	72.464	3.200	
Ahmedabad	8N	746.57	18,200.0	-	40A	1 x 6.0m x 2.5m	4	RCC Box	Pedestrian Subway U-type		79.523	76.378	1	6.0	2.5	0.75	0.55	76.32	79.523	74.323	3.200	GHUMASAN CROSSING STATION
Ahmedabad	8N	742.53	21,700.0		47A	1 x 6.0m x 2.5m	2	RCC Box	Pedestrian Subway U-type	20.623	82.561	82.118	1	6.0	2.5	0.75	0.55	79.36	82.561	77.361	3.200	
Ahmedabad	8N	738.8	26,100.0		56A	1 x 6.0m x 2.5m	2	RCC Box	Pedestrian Subway U-type		86.705	84.843	1	6.0	2.5	0.75	0.55	83.51	86.705	81.505	3.200	
Ahmedabad	8N		30,300.0		64A	1 x 6.0m x 2.5m	2	RCC Box	Pedestrian Subway U-type		89.663	89.677	1	6.0	2.5	0.75	0.55	86.46	89.663	84.463	3.200	
Ahmedabad	8N		37,800.0		80A	1 x 6.0m x 2.5m	2	RCC Box	Pedestrian Subway U-type	10.017	90.650	89.285	1	6.0	2.5	0.75	0.55	87.45	90.650	85.450	3.200	
Ahmedabad	8N		43,260.0		95A	1 x 6.0m x 2.5m	2	RCC Box	Pedestrian Subway U-type		88.952	84.897	1	6.0	2.5	0.75	0.55	85.75	88.952	83.752	3.200	
Ahmedabad	8N		48,180.0	-	105A	1 x 6.0m x 2.5m	2	RCC Box	Pedestrian Subway U-type		91.970	94.696	1	6.0	2.5	0.75	0.55	88.77	91.970	86.770	3.200	
Ahmedabad	8N		48,480.0	-	105B	1 x 6.0m x 2.5m	2	RCC Box	Pedestrian Subway U-type		92.360	92.230	1	6.0	2.5	0.75	0.55	89.16	92.360	87.160	3.200	
Ahmedabad	8N	700.49	65,100.0		131A	1 x 6.0m x 2.5m	2	RCC Box	Pedestrian Subway U-type		107.051	105.611	1	6.0	2.5	0.75	0.55	103.85	107.051	101.851	3.200	
Ahmedabad	8N	688.31	77,200.0		154A	1 x 6.0m x 2.5m	2	RCC Box	Pedestrian Subway U-type		126.175	124.125	1	6.0	2.5	0.75	0.55	122.98	126.175	120.975	3.200	
Ahmedabad	8N		83,500.0		166A	1 x 6.0m x 2.5m	2	RCC Box	Pedestrian Subway U-type	14.67	133.493	131.777	1	6.0	2.5	0.75	0.55	130.29	133.493	128.293	3.200	
Ahmedabad	8N	676.44	89,100.0		173A	1 x 6.0m x 2.5m	2	RCC Box	Pedestrian Subway U-type		146.439	144.450	1	6.0	2.5	0.75	0.55	143.24	146.439	141.239	3.200	
Ahmedabad	8N	668.75	96,800.0		189A	1 x 6.0m x 2.5m	2	RCC Box	Pedestrian Subway U-type		168.683	167.713	1	6.0	2.5	0.75	0.55	165.48	168.683	163.483	3.200	
Ahmedabad	8N	661.03	104,600.0		200B	1 x 6.0m x 2.5m	2	RCC Box	Pedestrian Subway U-type		190.151	186.898	1	6.0	2.5	0.75	0.55	186.95	190.151	184.951	3.200	
Ahmedabad	8N	652.25	112,996.0		216A	1 x 6.0m x 2.5m	2	RCC Box	Pedestrian Subway U-type		216.282	217.037	1	6.0	2.5	0.75	0.55	213.08	216.282	211.082	3.200	

NOTE (i) F.L is based on the alignment drawing modified by NKC and should be reconfirmed in detailed design survey.
(ii) G.L is based on GAD prepared by CPM and should be reconfirmed in detailed design and survey.
(iii) Nos. of Track shall be confirmed from FLS & Station Yard Plan
(iv) Berm of 1.5 m width shall be provided on the slope of every 6 m height.
(v) Barrel Length may vary as per site condition.

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

Project Title :
**Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)**

Client :
 **Dedicated Freight Corridor Corporation of India**
(A GOVERNMENT OF INDIA UNDERTAKING)
5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

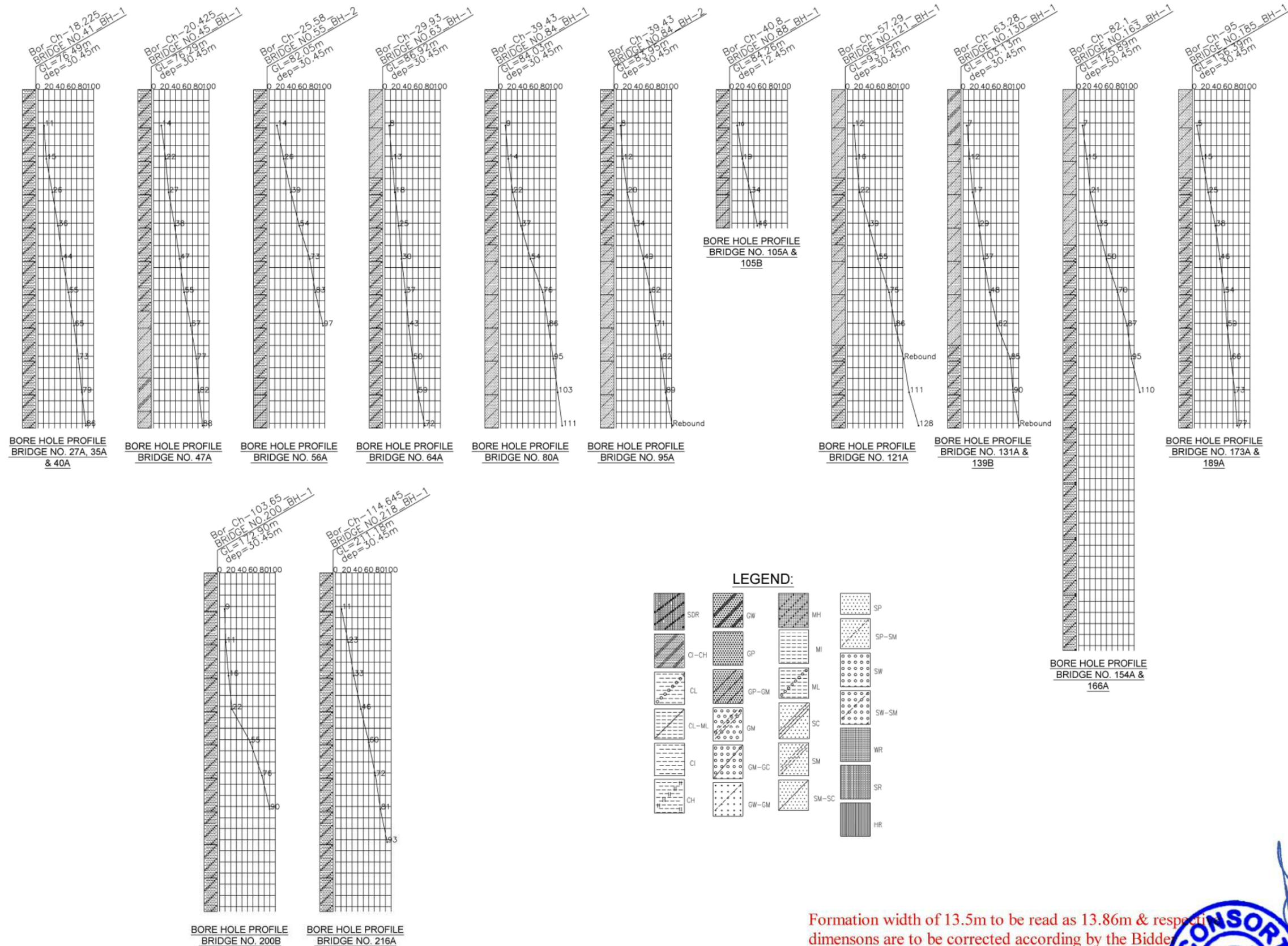
Drawing Title :
**GENERAL ARRANGEMENT DRAWING
FOR RUB PEDESTRIAN (U-TYPE)
(RCC BOX)**

Drawing Number :
NKC-CTS-PED-AHM-00002 (SHEET 2 OF 3)
Scale : **AS SHOWN**
Reference : **GAD PREPARED BY CPM AHMEDABAD**
Drawn By : S. Salamuddin Checked By : M. N. Ahmad Approved By : H. Kawahara
Date : 30th, Sept, 2012 Date : 1st, Oct, 2012 Date : 3rd, Oct, 2012



NK Consortium

4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA



Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

Project Title :
Dedicated Freight Corridor Project
 (Western Corridor Phase-1:
 Rewari - Vadodara Section)

Client :

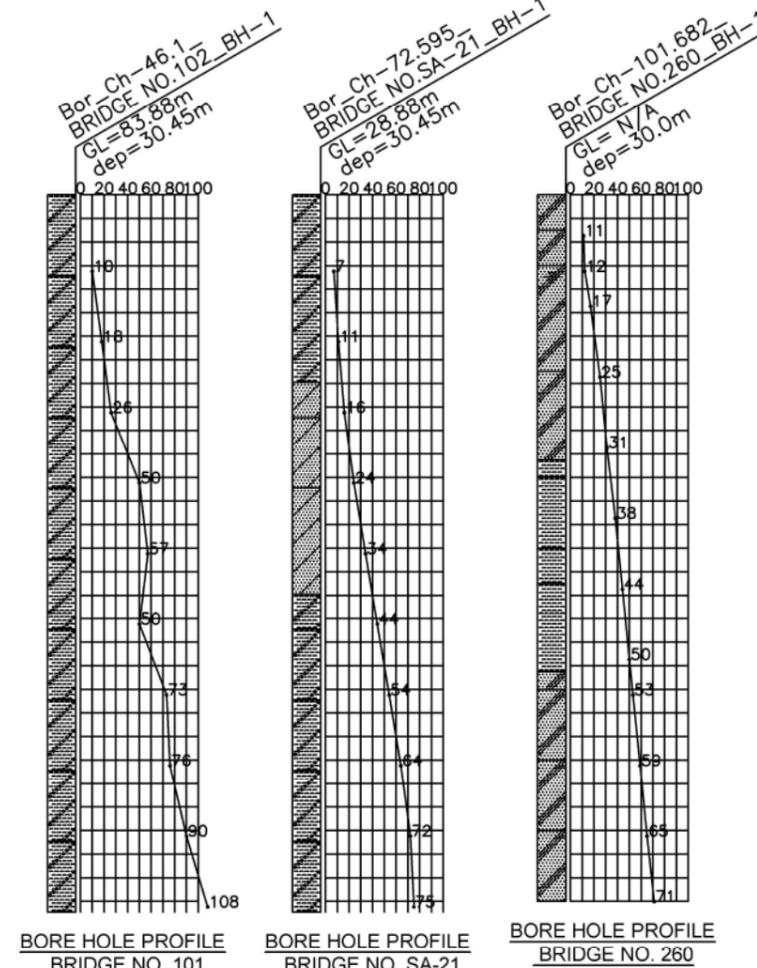
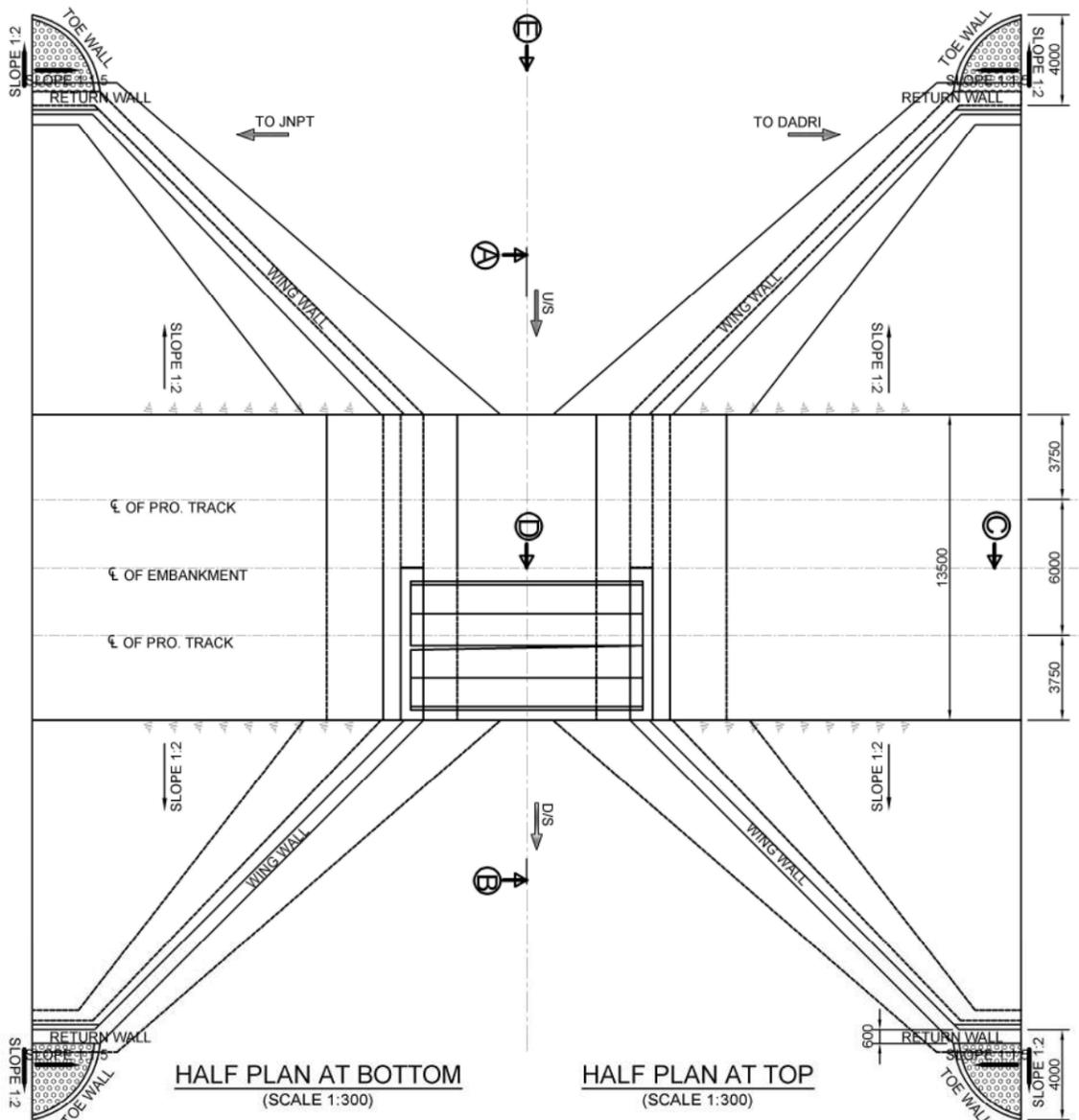
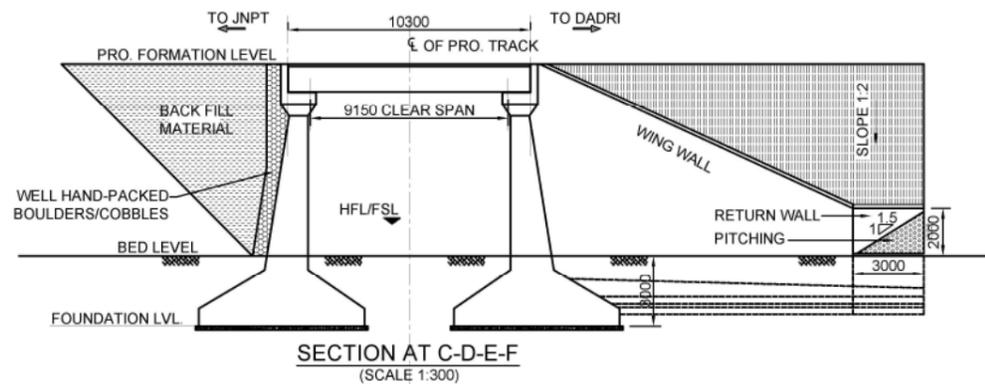
Dedicated Freight Corridor Corporation of India
 (A GOVERNMENT OF INDIA UNDERTAKING)
 5th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA

Drawing Title :
GENERAL ARRANGEMENT DRAWING
 FOR RUB PEDESTRIAN (U-TYPE)
 (RCC BOX)

Drawing Number :
 NKC-CTS-PED-AHM-00002 (SHEET 3 OF 3)
 Scale :
 AS SHOWN
 Reference :
 GAD PREPARED BY CPM AHMEDABAD
 Drawn By : S. Salamuddin Checked By : M. N. Ahmad Approved By : H. Kawahara
 Date : 30th, Sept, 2012 Date : 1st, Oct, 2012 Date : 3rd, Oct, 2012



NK Consortium
 4th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA



LEGEND:

SDR	GW	MH	SP
CI-CH	GP	MI	SP-SM
CL	GP-GM	ML	SW
CL-ML	GM	SC	SW-SM
CI	GM-GC	SM	WR
CH	GW-GM	SM-SC	SR
			HR

Formation width of 13.5m to be read as 13.8m & respective dimensions are to be corrected according by the Bidder

- GENERAL NOTES:**
- 1) ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
 - 2) ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
 - 3) THIS GENERAL ARRANGEMENT DRAWING IS INDICATIVE AND IS MEANT ONLY FOR GUIDANCE FOR THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DEVELOPED & DESIGNED BY THE CONTRACTOR AS PER THE EMPLOYER'S REQUIREMENTS, SPECIFICATIONS AND SITE DIMENSIONS / CONDITIONS AND SHALL BE APPROVED BY ENGINEER / EMPLOYER.
 - 4) ALL DIMENSIONS SHALL BE VERIFIED WITH RESPECT TO EXISTING IR BRIDGES ON THE PARALLEL ALIGNMENT AND RECONCILED BEFORE EXECUTION.
 - 5) FORMATION LEVEL SHOWN IN GAD IS AS PER PROPOSED LONGITUDINAL SECTION OF THE ALIGNMENT AND MAY CHANGE DURING DEVELOPMENT OF DETAILED DESIGN STAGE.
 - 6) LENGTH OF RETURN WALL / WING WALL / TOE WALL / PITCHING ETC. IS TO BE DECIDED AS PER THE SITE CONDITION.
 - 7) DURING THE COURSE OF CONSTRUCTION, SAFETY & PROTECTION OF THE PROPOSED WORK AND SAFETY & PROTECTION OF THE RUNNING TRAINS ON THE EXISTING IR TRACKS IS TO BE ENSURED BY THE CONTRACTOR. EXCAVATION / DISMANTLING OF ANY PORTION OF EXISTING BRIDGE OR ANY ELEMENT OF EXISTING PERMANENT WAY OR ANY WORK AFFECTING THE SAFETY OF THE EXISTING BRIDGE / PERMANENT WAY OR SAFETY OF THE RUNNING TRAINS WILL BE CARRIED OUT WITH THE PRIOR WRITTEN APPROVAL OF THE ENGINEER / EMPLOYER.
- SUPERSTRUCTURE & SUBSTRUCTURE**
- 1) SUPERSTRUCTURE DETAIL IS INDICATIVE ONLY AND SHOULD BE DESIGNED AS PER CODAL PROVISION.
 - 2) SUBSTRUCTURE OF BRIDGE SHALL BE DESIGNED AS PER DFCC LOADING (32.5T AXLE LOAD) BRIDGE RULE, ISSUED BY RDSO. (WITH LATEST CORRECTION SLIP).
 - 3) SUBSTRUCTURE SHALL BE DESIGNED TO TAKE CARE OF TEMPORARY STAGE LOADS ALSO.
 - 4) SUBSTRUCTURE OF THE BRIDGE SHALL BE DESIGNED AS PER THE SEISMIC ZONE FOR THE AREA.
 - 5) SEISMIC ARRANGEMENT (RESTRAINER) SHALL BE PROVIDED IN SUBSTRUCTURE AS PER SEISMIC FORCES.
- FOUNDATION**
- 1) SCOUR LEVEL SHALL BE AS PER IRS SUB STRUCTURE & FOUNDATION CODE.
 - 2) FOUNDATION LEVEL OF BRIDGE SHALL BE BELOW THE SCOUR LEVEL.
 - 3) SETTLEMENT OF FOUNDATION SHALL BE CHECKED SO THAT IT IS WITHIN ACCEPTABLE LIMIT OF TOTAL & DIFFERENTIAL SETTLEMENTS AS PER CLAUSE 6.1 OF IRS BRIDGE SUB STRUCTURE & FOUNDATION CODE.
 - 4) SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE DESIGN OF STRUCTURES IF REQUIRED.
- GEO-TECHNICAL**
- 1) FOR TENDER PURPOSE REFER TO GEOTECHNICAL & HYDROLOGICAL INVESTIGATION REPORT IN DATA BOOK 2/2.
 - 2) GEO-TECHNICAL BORE HOLE DATA REFERRED IN GAD IS INDICATIVE ONLY.
 - 3) DETAILED GEO-TECHNICAL INVESTIGATION SHALL BE CARRIED OUT DURING DETAILED DESIGN STAGE.

Project Title :
**Dedicated Freight Corridor Project
 (Western Corridor Phase-1:
 Rewari - Vadodara Section)**

Client :
 **Dedicated Freight Corridor Corporation of India**
 (A GOVERNMENT OF INDIA UNDERTAKING)
 5th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA

Drawing Title :
**GENERAL ARRANGEMENT DRAWING FOR
 1X9.15m PSC VOIDED SLAB TYPE MINOR
 BRIDGE MAIN LINE 01**

Drawing Number :
NKC-CTS-BRD-AHM-00003 (SHEET 1 OF 2)

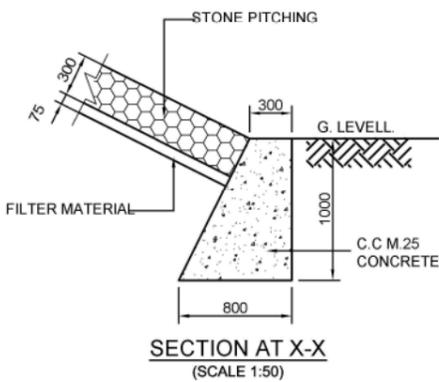
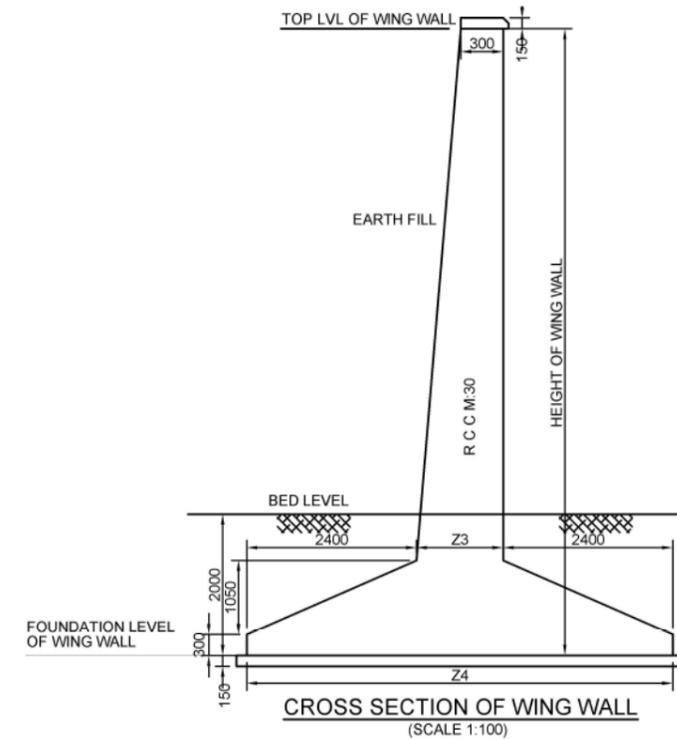
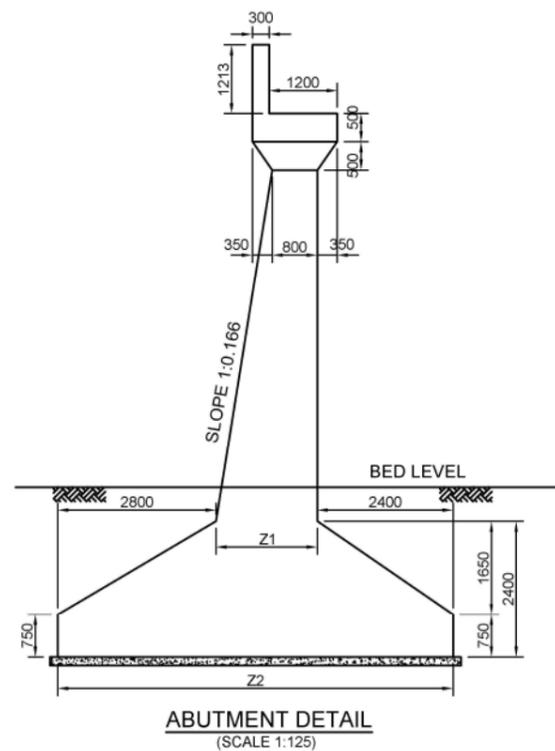
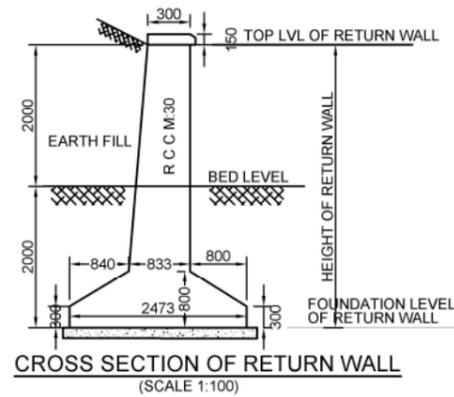
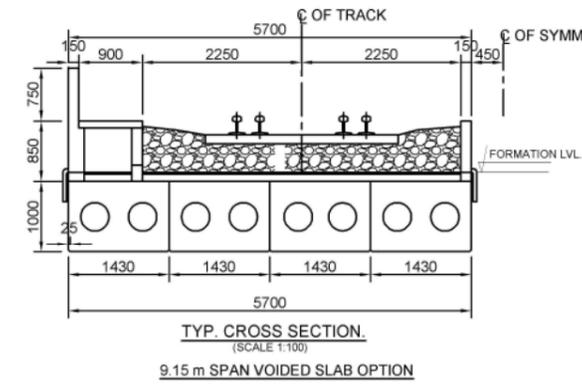
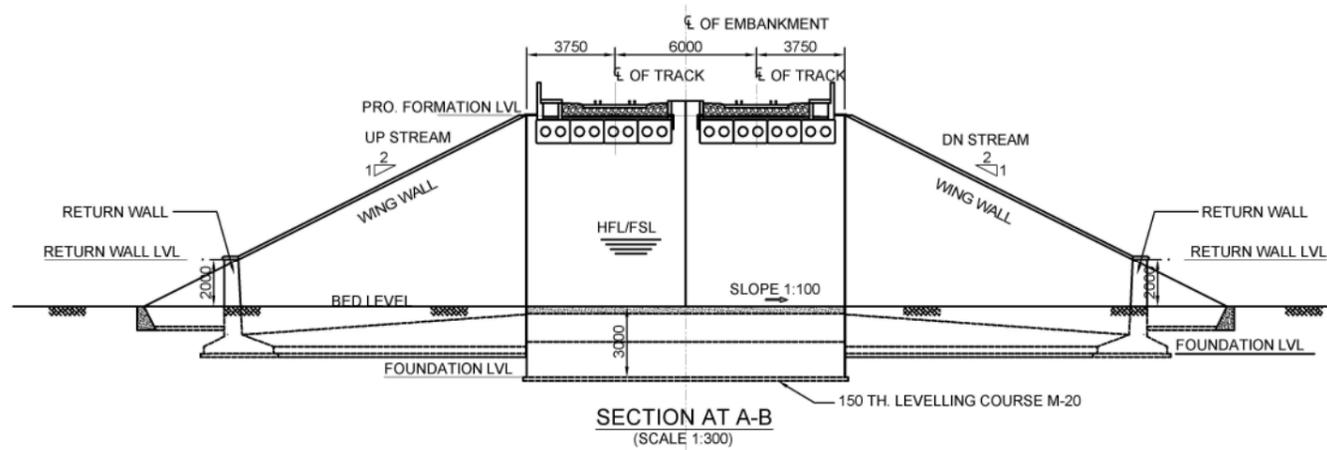
Scale :
AS SHOWN

Reference :
GAD PREPARED BY CPM AHMEDABAD

Drawn By : S. Salamuddin Checked By : M. N. Ahmad Approved By : H. Kawahara
 Date : 30th, Sept, 2012 Date : 1st, Oct, 2012 Date : 3rd, Oct, 2012



NK Consortium
 4th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA



Sec. No.	Structure Chainage	Proposed Bridge No.	FL (m)	GL (m)	BL (m)	HFL/FSL (m)	Proposed Span (m)	No. of tracks Proposed for DFCC	Skew Angle	Type of Structure	Structure configuration	Type of Crossing	Return Wall				Wing Wall				Abutment				
													TOP LVL (m)	FDN LVL (m)	Height (m)	Length (m)	TOP LVL (m)	FDN LVL (m)	BERM LVL (m)	Height (m)	Length (m)	Z3(m)	Z4(m)	Z1(m)	Z2(m)
6	28870.0	101	28.566	24.363	24.363	NA	1 x 9.15m	2	0	Minor Bridge	PSC Voided Slab	BORL	26.363	22.363	4.000	3.000	28.566	22.363	-	6.203	5.694	1.109	5.909	1.232	6.732
6	72595.0	SA-21	36.380	31.188	31.188	30.555	1 x 9.15m	2	26	Minor Bridge	PSC Voided Slab	Canal + Cart Track	33.188	29.188	4.000	3.000	36.380	29.188	-	7.192	9.905	1.274	6.074	1.397	6.897
7	101682.0	260	54.246	49.432	49.432	50.003	1 x 9.15m	2	10	Minor Bridge	PSC Voided Slab	Drain + Cart track	51.432	47.432	4.000	4.000	54.246	47.432	-	6.814	10.250	1.211	6.011	1.334	6.834

- NOTE
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Project Title :
Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)

Client :
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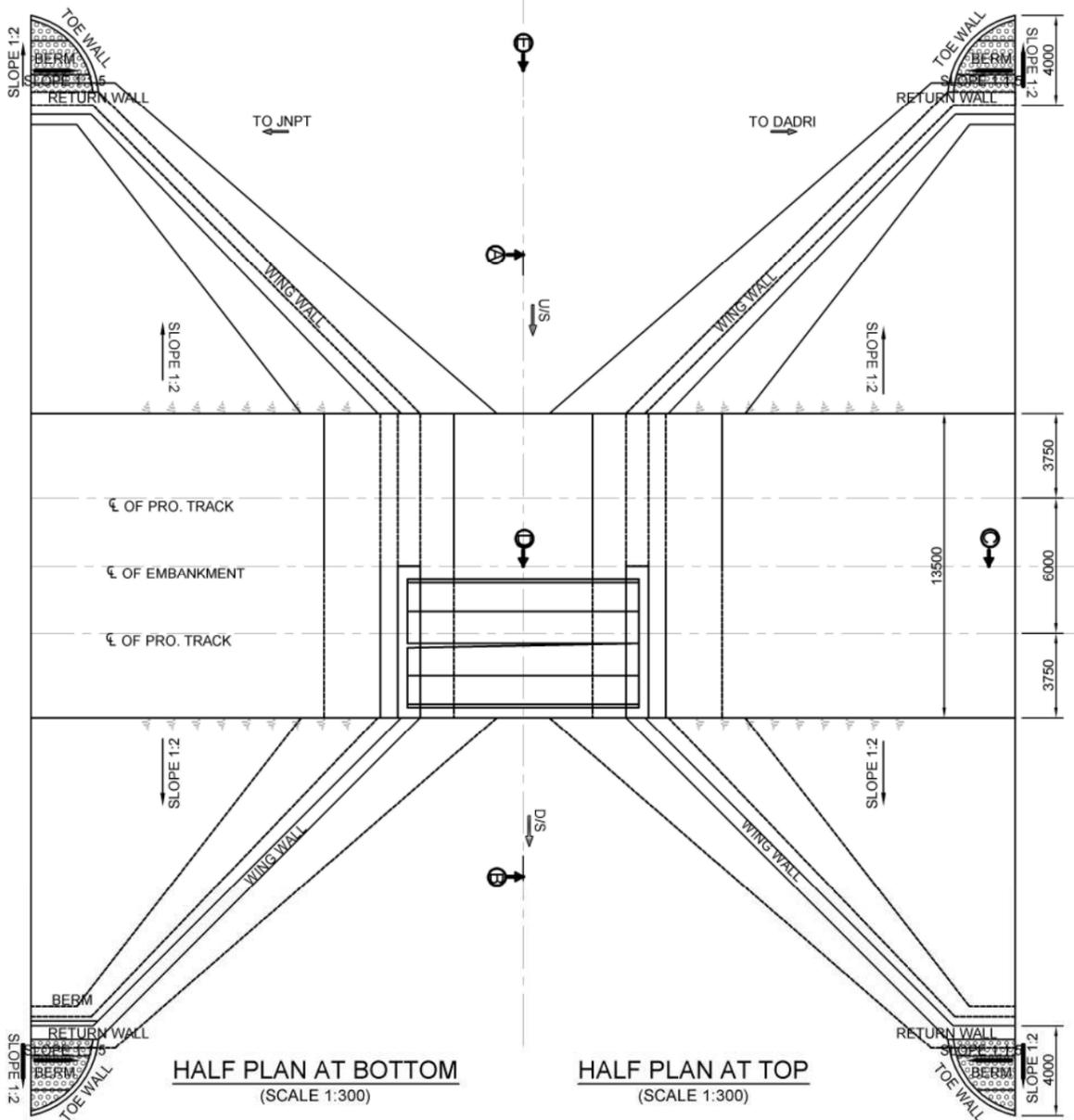
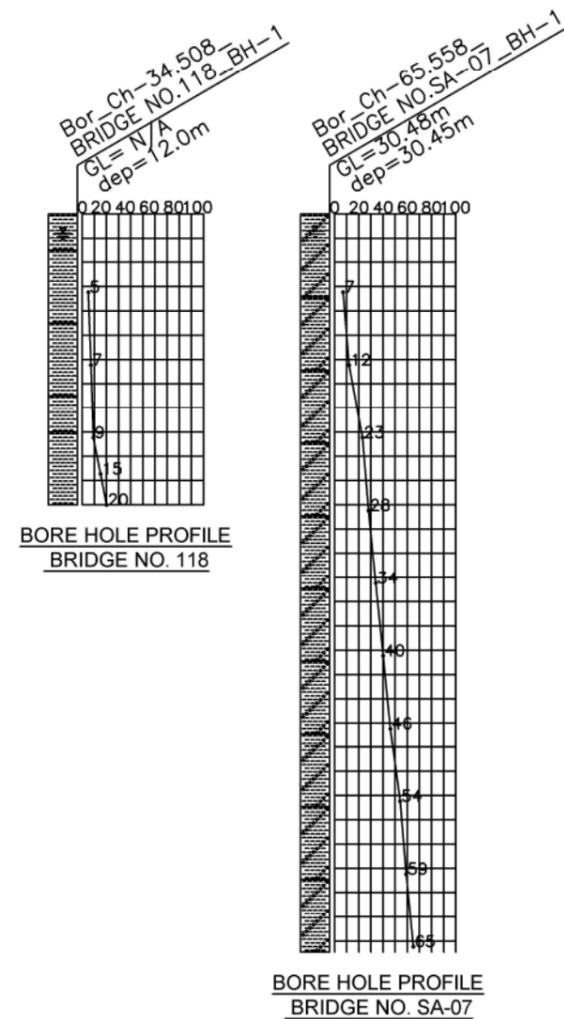
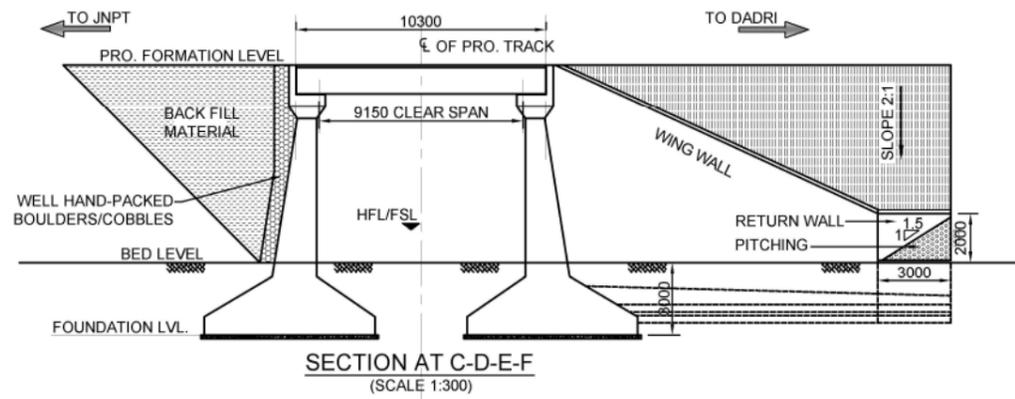
Drawing Title :
GENERAL ARRANGEMENT DRAWING FOR
1X9.15m PSC VOIDED SLAB TYPE MINOR
BRIDGE MAIN LINE 01

Drawing Number :
NKC-CTS-BRD-AHM-00003 (SHEET 2 OF 2)
Scale :
AS SHOWN
Reference :
GAD PREPARED BY CPM AHMEDABAD
Drawn By : S. Salamuddin | Checked By : M. N. Ahmad | Approved By : H. Kawahara
Date : 30th, Sept, 2012 | Date : 1st, Oct, 2012 | Date : 3rd, Oct, 2012



NK Consortium

4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA



LEGEND:

SDR	GW	MH	SP
CI-CH	GP	MI	SP-SM
CL	GP-GM	ML	SW
CL-ML	GM	SC	SW-SM
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Project Title :
**Dedicated Freight Corridor Project
 (Western Corridor Phase-1:
 Rewari - Vadodara Section)**

Client :
 **Dedicated Freight Corridor Corporation of India**
 (A GOVERNMENT OF INDIA UNDERTAKING)
 5th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA

Drawing Title :
**GENERAL ARRANGEMENT DRAWING FOR
 1X9.15m PRESTRESSED VOIDED SLAB
 TYPE MINOR BRIDGE 02**

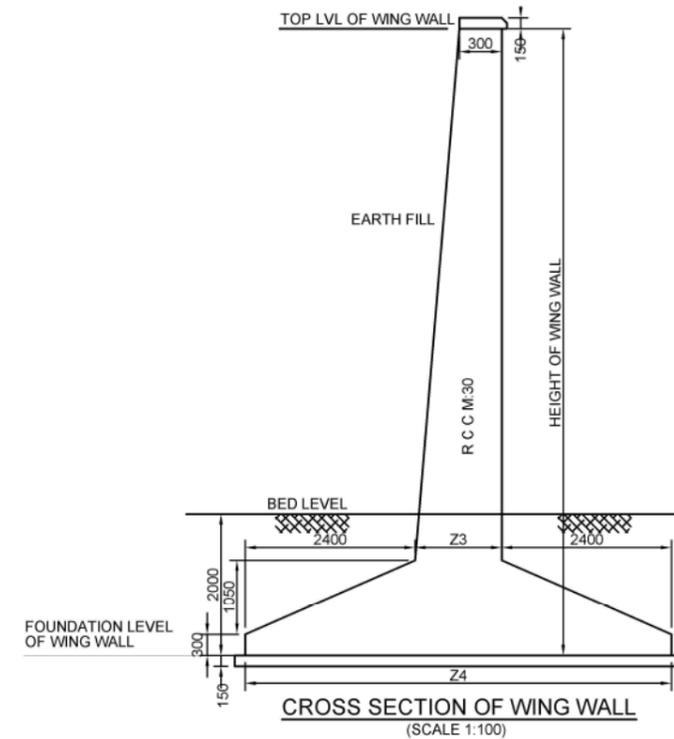
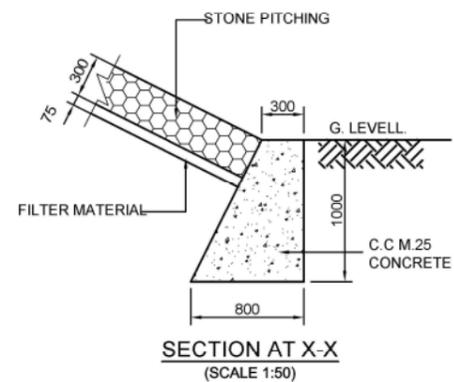
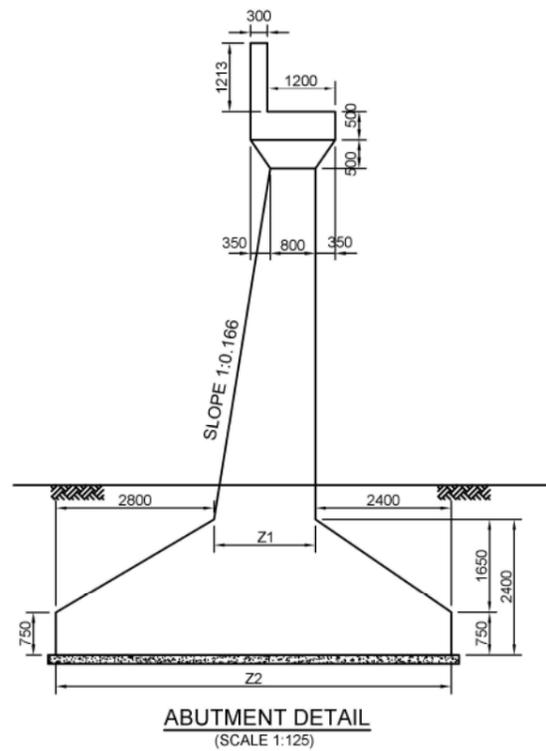
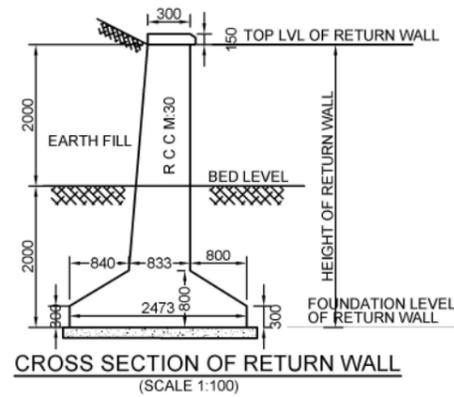
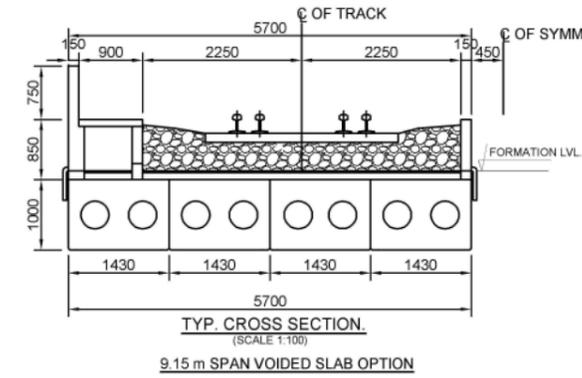
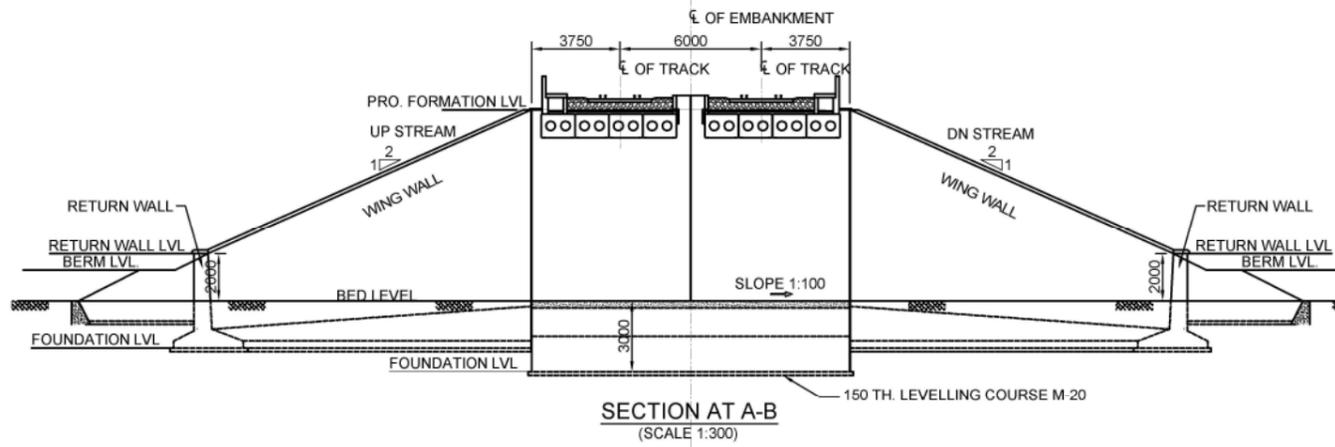
Drawing Number :
NKC-CTS-BRD-AHM-00004 (SHEET 1 OF 2)

Scale :
AS SHOWN

Reference :
GAD PREPARED BY CPM AHMEDABAD

Drawn By : S. Salamuddin Checked By : M. N. Ahmad Approved By : H. Kawahara
 Date : 30th, Sept, 2012 Date : 1st, Oct, 2012 Date : 3rd, Oct, 2012

Consultant :
 **NK Consortium**
 4th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA



Sec. No.	Structure Chainage	Proposed Bridge No.	FL (m)	GL (m)	BL (m)	HFL/FSL (m)	Proposed Span (m)	No. of tracks Proposed for DFCC	Skew Angle	Type of Structure	Structure configuration	Type of Crossing	Return Wall				Wing Wall				Abutment				
													TOP LVL (m)	FDN LVL (m)	Height (m)	Length (m)	TOP LVL (m)	FDN LVL (m)	BERM LVL (m)	Height (m)	Length (m)	Z3(m)	Z4(m)	Z1(m)	Z2(m)
6	34508.0	118	27.649	21.561	21.561	20.831	1 x 9.15m	2	0	Minor Bridge	PSC Voided Slab	Canal	23.561	19.561	4.000	3.000	27.649	19.561	21.649	8.088	12.439	1.423	6.223	1.546	7.046
6	65558.0	SA-07	41.519	32.268	32.268	31.890	1 x 9.15m	2	0	Minor Bridge	PSC Voided Slab	Canal	34.268	30.268	4.000	3.000	41.519	30.268	35.519	11.251	21.386	1.950	6.750	2.073	7.573

- NOTE
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 - (iv) Berm of 1.5 m width shall be provided on the slope of every 6 m height.
 - (v) Barrel Length may vary as per site condition.

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

Project Title :
**Dedicated Freight Corridor Project
 (Western Corridor Phase-1:
 Rewari - Vadodara Section)**

Client :
 **Dedicated Freight Corridor Corporation of India**
(A GOVERNMENT OF INDIA UNDERTAKING)
 5th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA

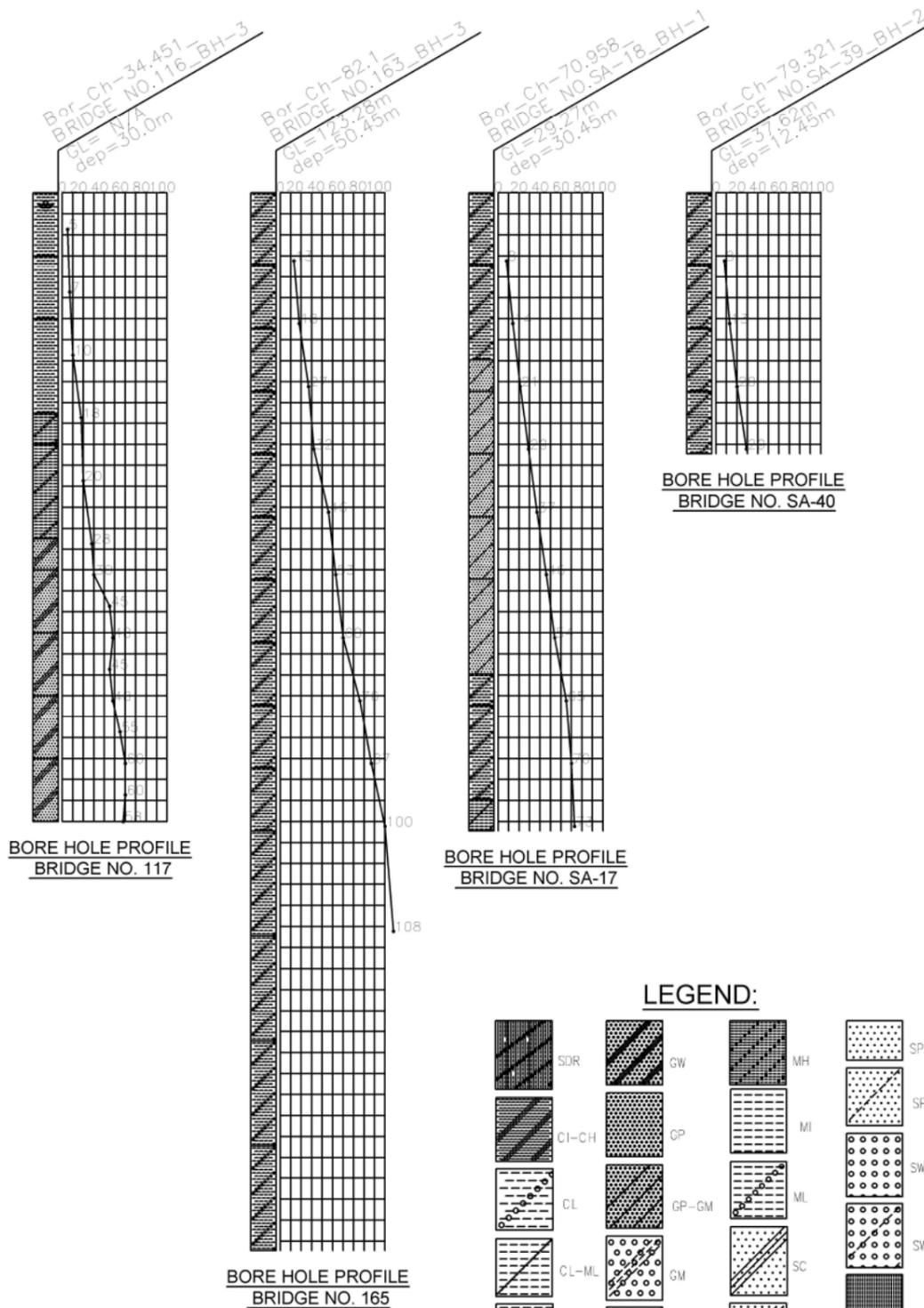
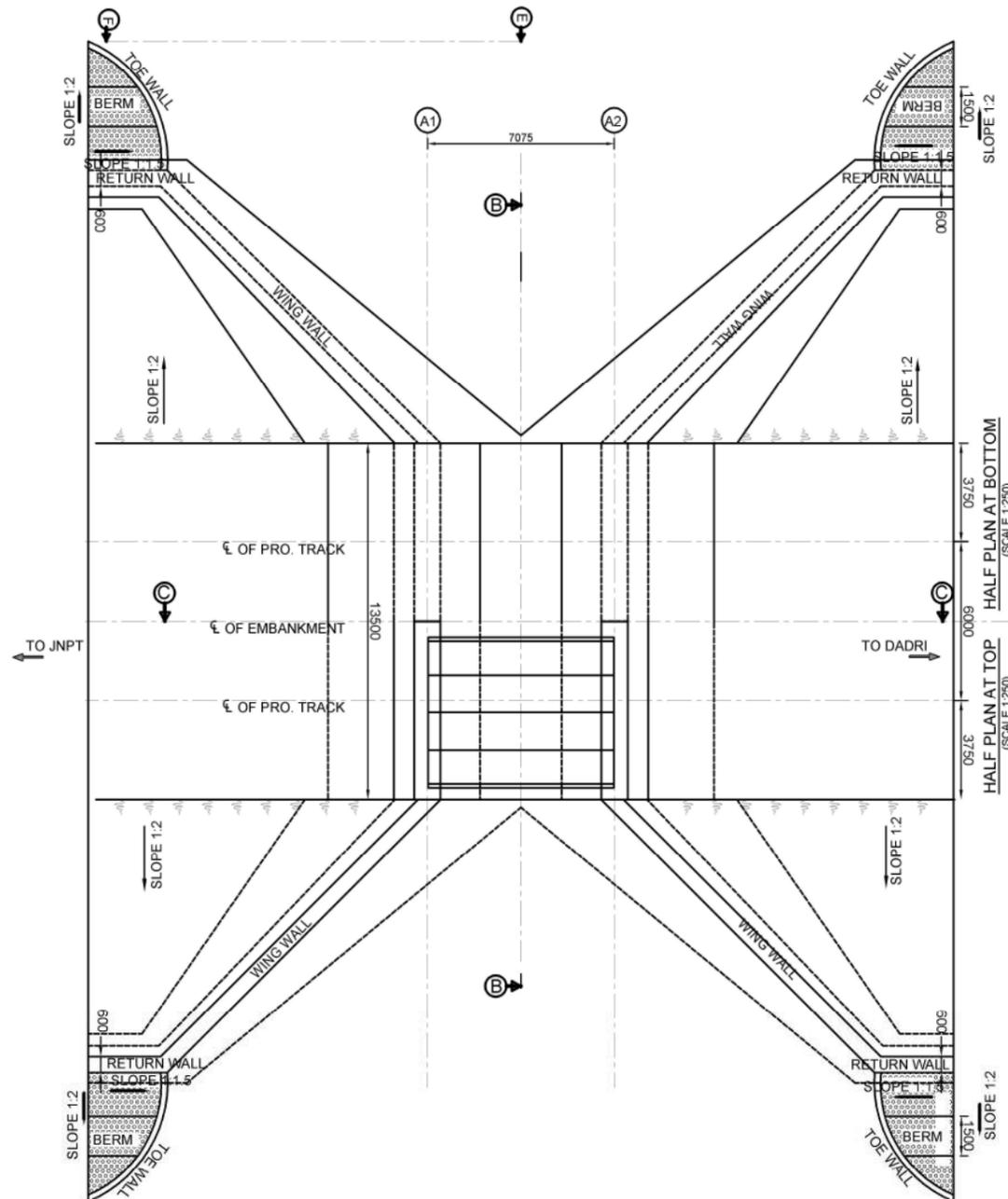
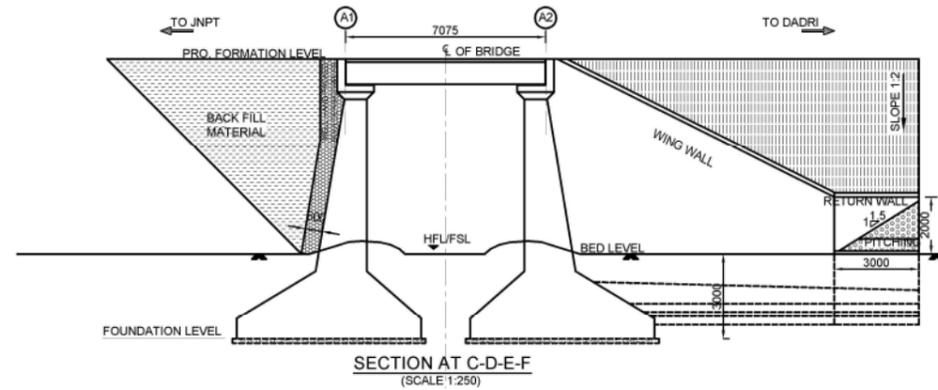
Drawing Title :
 GENERAL ARRANGEMENT DRAWING FOR
 1X9.15m PRESTRESSED VOIDED SLAB
 TYPE MINOR BRIDGE 02

Drawing Number :
NKC-CTS-BRD-AHM-00004 (SHEET 2 OF 2)
 Scale :
AS SHOWN
 Reference :
 GAD PREPARED BY CPM AHMEDABAD
 Drawn By : S. Salamuddin | Checked By : M. N. Ahmad | Approved By : H. Kawahara
 Date : 30th, Sept, 2012 | Date : 1st, Oct, 2012 | Date : 3rd, Oct, 2012



NK Consortium

4th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA



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 - 6) LENGTH OF RETURN WALL / WING WALL / TOE WALL / PITCHING ETC. IS TO BE DECIDED AS PER THE SITE CONDITION.
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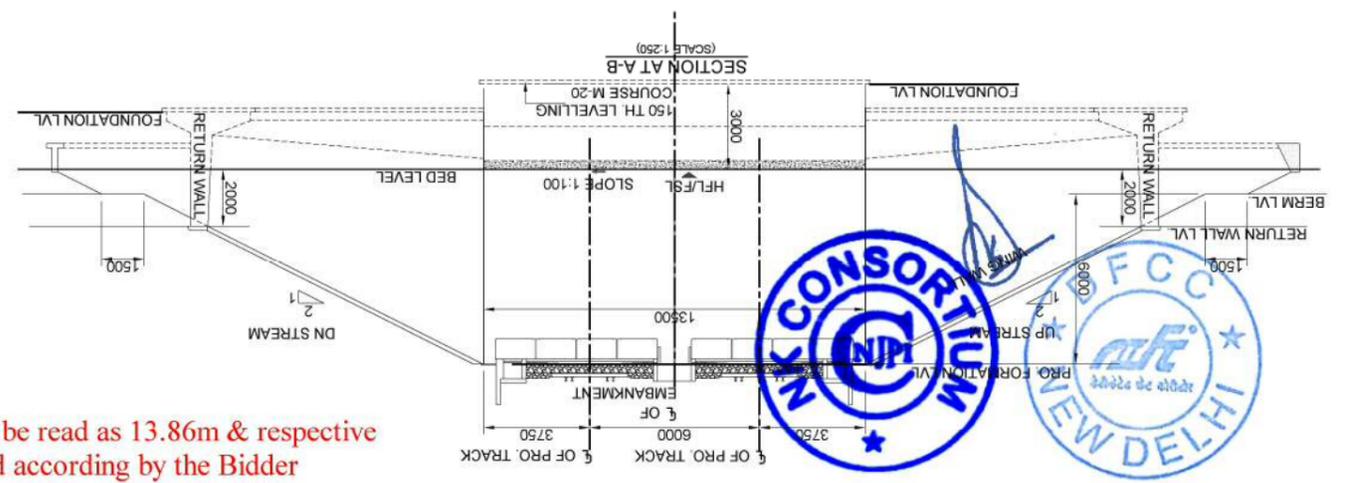
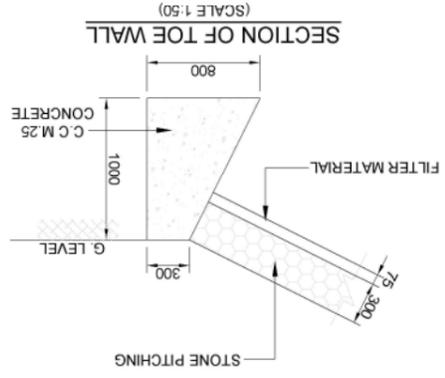
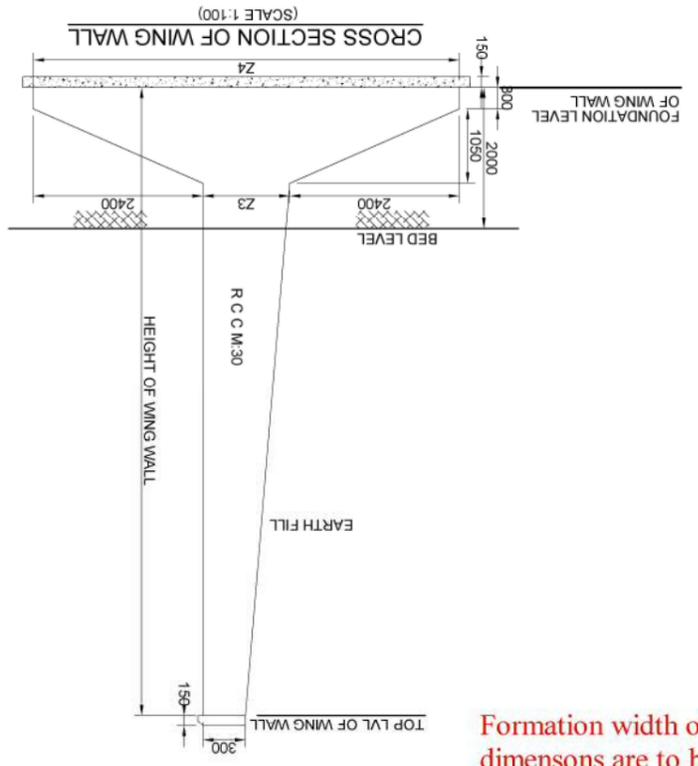
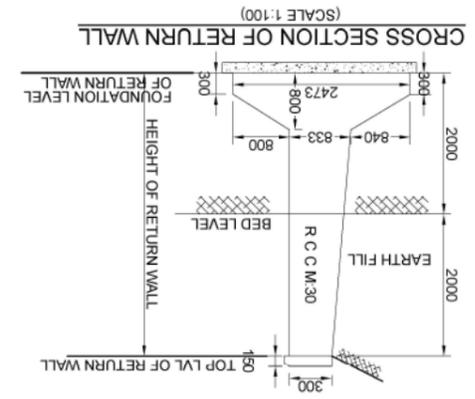
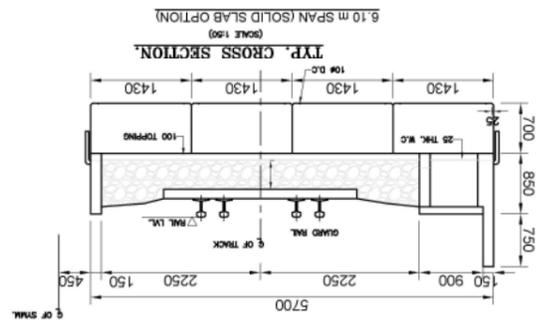
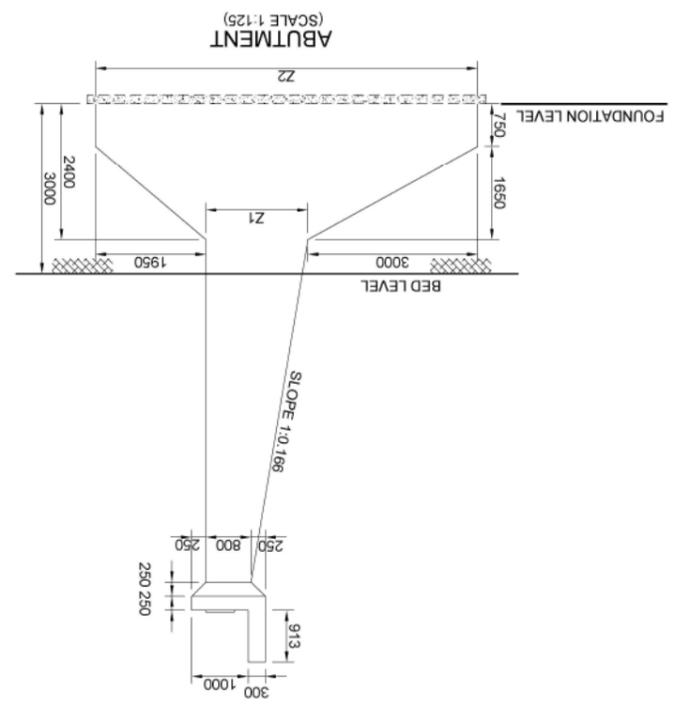
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CI-CH	GP	MI	SP-SM
CL	GP-GM	ML	SW
CL-ML	GM	SC	SW-SM
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CH	GW-GM	SM-SC	SR

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

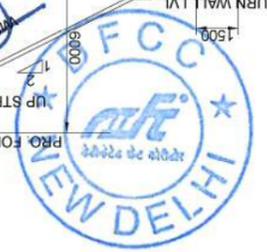
<p>Project Title : Dedicated Freight Corridor Project (Western Corridor Phase-1: Rewari - Vadodara Section)</p>	<p>Client : DFCC Dedicated Freight Corridor Corporation of India (A GOVERNMENT OF INDIA UNDERTAKING) 5th Floor, Pragati Maidan Metro Station Building, New Delhi-110001, INDIA</p>	<p>Drawing Title : GENERAL ARRANGEMENT DRAWING FOR 1X6.1m PSC SOLID SLAB TYPE MINOR BRIDGE 01</p>	<p>Drawing Number : NKC-CTS-BRD-AHM-00005 (SHEET 1 OF 2)</p> <p>Scale : AS SHOWN</p> <p>Reference : GAD PREPARED BY CPM AHMEDABAD</p> <p>Drawn By : S. Salamuddin Date : 30th, Sept, 2012</p> <p>Checked By : M. N. Ahmad Date : 1st, Oct, 2012</p> <p>Approved By : H. Kawahara Date : 3rd, Oct, 2012</p>	<p>Consultant : NK Consortium 4th Floor, Pragati Maidan Metro Station Building, New Delhi-110001, INDIA</p>
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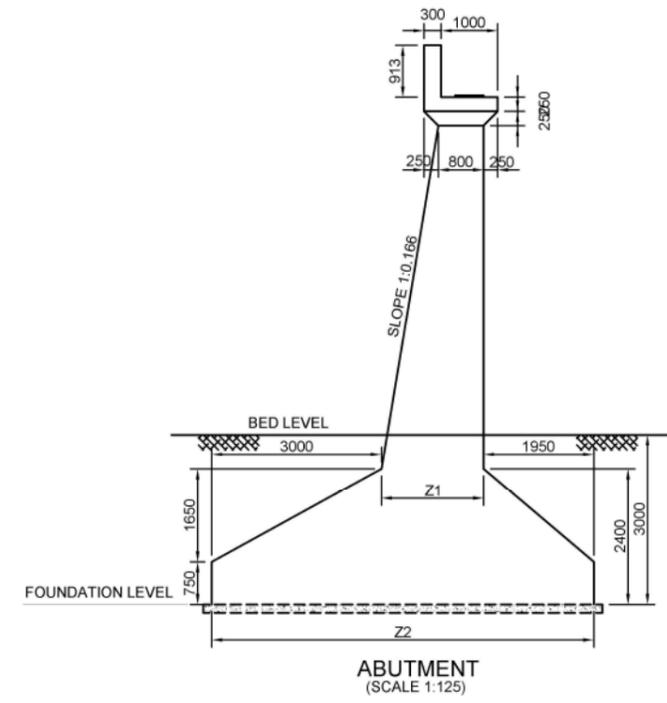
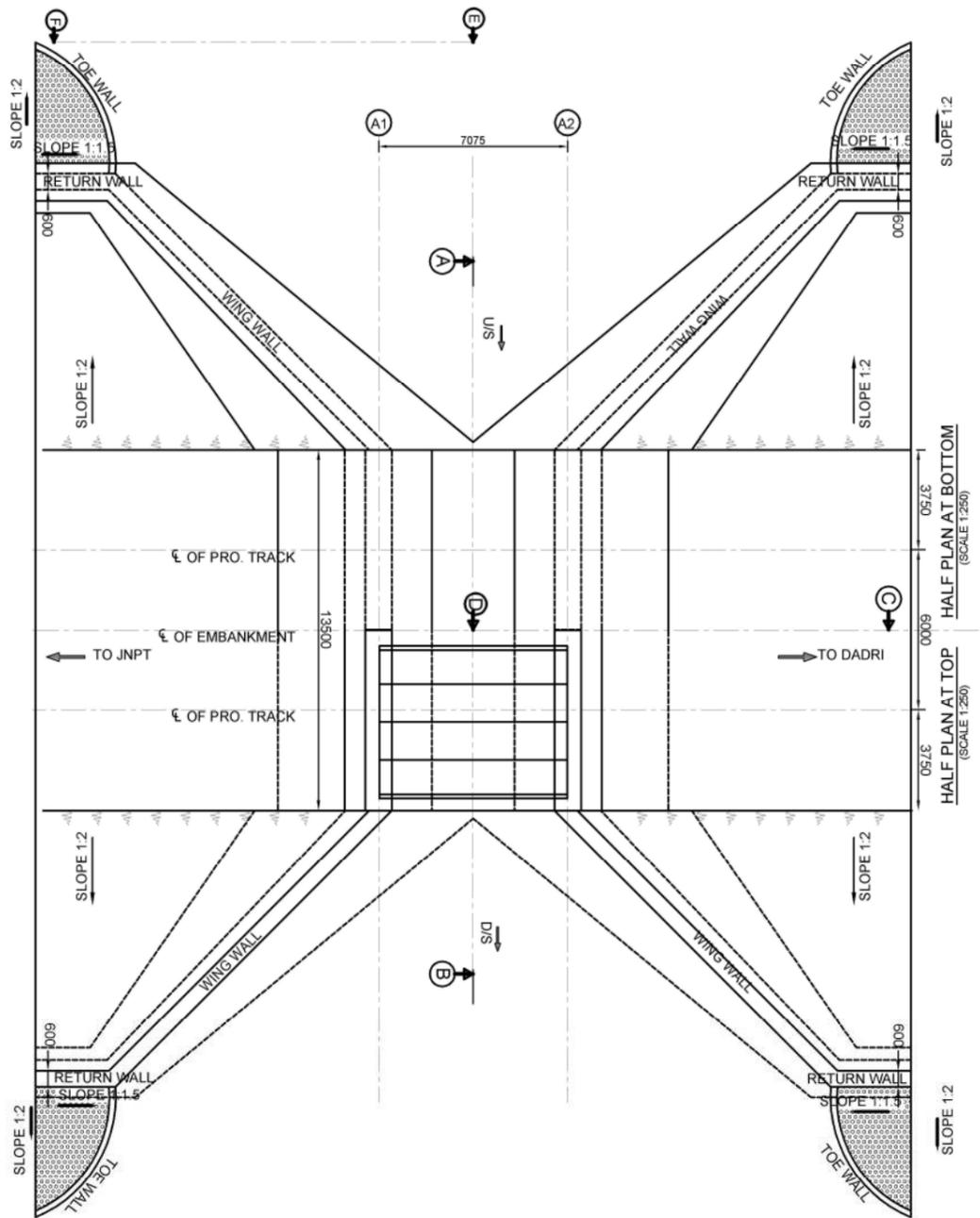
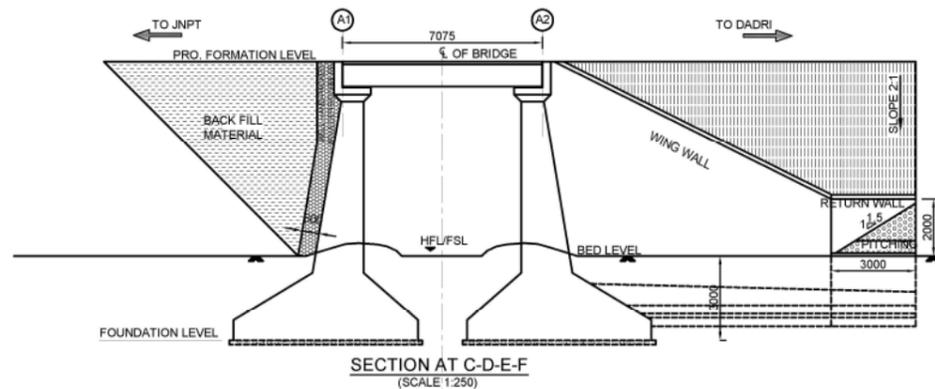
NOTE
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 (v) Barrel Length may vary as per site condition

Sec. No.	Structure Change		DFC	IR	DFC	IR	FL (m)	GL (m)	BL (m)	HFL/SL (m)	Proposed Span (m)	No. of tracks Proposed for DFC	Skew Angle	Type of Structure	Structure configuration	Type of Crossing	Wing Wall				Return Wall												
	IR	IR															TOP LVL (m)	FDN LVL (m)	Height (m)	TOP LVL (m)	FDN LVL (m)	Height (m)	TOP LVL (m)	FDN LVL (m)	Height (m)	Length (m)	BERM LVL (m)	TOP LVL (m)	FDN LVL (m)	Height (m)			
6	-	-	79630.0	-	-	SA-40	47.453	36.117	36.117	35.721	1 x 6.1m	2	0	Minor Bridge	PSC Solid Slab	Canal + Cart Track	4.000	34.117	34.117	38.117	31.420	27.420	4.000	38.840	32.840	27.420	41.453	13.336	26.859	2.298	7.098	2.554	7.504
6	-	-	70610.0	-	-	SA-17	38.840	29.420	26.967	29.020	1 x 6.1m	2	25	Minor Bridge	PSC Solid Slab	Canal + Road	4.000	31.420	27.420	31.420	27.420	27.420	4.000	38.840	32.840	27.420	41.453	11.420	21.439	1.978	6.778	2.235	7.185



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Project Title :
**Dedicated Freight Corridor Project
 (Western Corridor Phase-1:
 Rewari - Vadodara Section)**

Client :
 **Dedicated Freight Corridor Corporation of India**
 (A GOVERNMENT OF INDIA UNDERTAKING)
 5th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA

Drawing Title :
**GENERAL ARRANGEMENT
 DRAWING FOR 1X6.1m PSC SLAB
 TYPE MINOR BRIDGE 02**

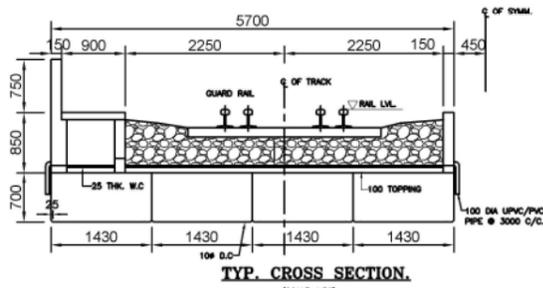
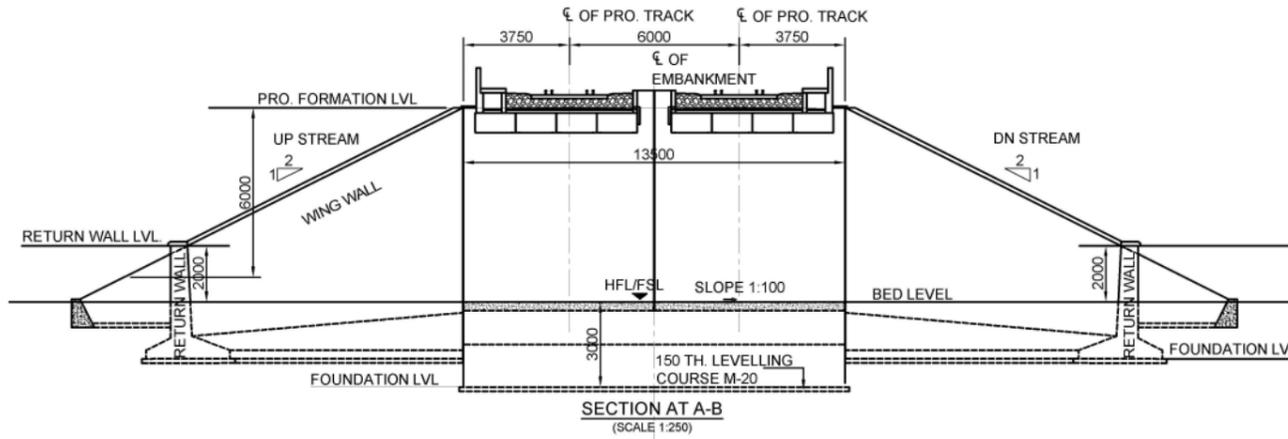
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NKC-CTS-BRD-AHM-00006 (SHEET 1 OF 3)

Scale :
AS SHOWN

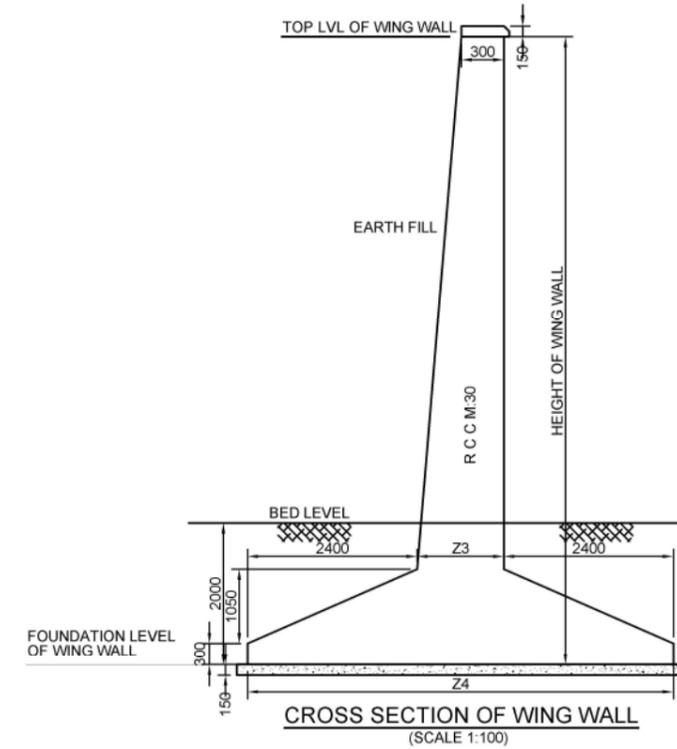
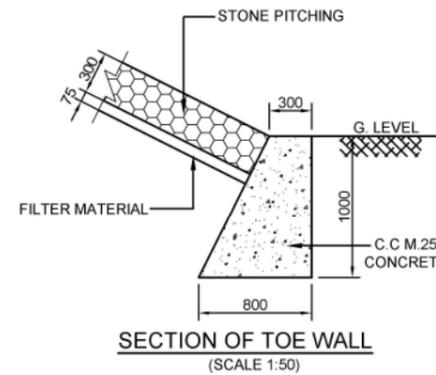
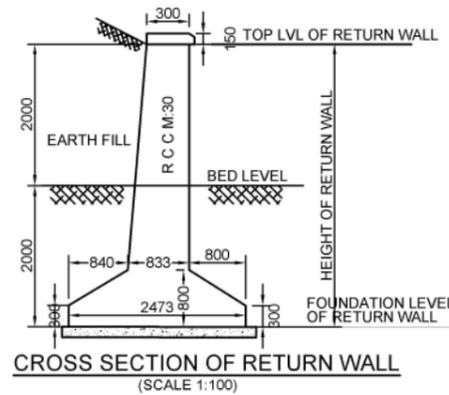
Reference :
GAD PREPARED BY CPM AHMEDABAD

Drawn By : S. Salamuddin | Checked By : M. N. Ahmad | Approved By : H. Kawahara
 Date : 30th, Sept, 2012 | Date : 1st, Oct, 2012 | Date : 3rd, Oct, 2012

Consultant :
 **NK Consortium**
 4th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA



6.10 m SPAN (SOLID SLAB OPTION)



Sec. No.	Structure Chainage		Proposed Bridge No.		FL (m)	GL (m)	BL (m)	HFL/FSL (m)	Proposed Span (m)	No. of tracks Proposed for DFCC	Skew Angle	Type of Structure	Structure configuration	Type of Crossing	Return Wall			Wing Wall				Abutment				
	IR	DFC	IR	DFC											TOP LVL (m)	FDN LVL (m)	Height (m)	TOP LVL (m)	FDN LVL (m)	BERM LVL (m)	Height (m)	Length (m)	Z3(m)	Z4(m)	Z1(m)	Z2(m)
6	-	36,909.0	-	125	24.914	21.220	21.218	20.850	1 x 6.1m	2	35	Minor Bridge	PSC Solid Slab	Canal	23.220	19.220	4.000	24.914	19.220	-	5.694	5.244	1.024	5.824	1.280	6.230
6	-	77,163.0	-	SA-32	44.158	38.957	38.957	37.846	1 x 6.1m	2	50	Minor Bridge	PSC Solid Slab	Canal	40.957	36.957	4.000	44.158	36.957	-	7.201	9.506	1.275	6.075	1.531	6.481
7	-	112,110.0	-	283	61.329	56.212	56.212	57.331	1 x 6.1m	2	0	Minor Bridge	PSC Solid Slab	Drain	58.212	54.212	4.000	61.329	54.212	-	7.117	9.269	1.261	6.061	1.517	6.467
8N	706.436	59,240.0	949	124	99.560	97.915	96.2	98.400	1 x 6.1m	5	0	Minor Bridge	PSC Solid Slab	Nalla	99.915	95.915	4.000	99.560	95.915	-	3.645	-0.552	0.682	5.483	0.939	5.889
8N	699/3-4	66,355.0	940	136	109.524	107.050	106.351	107.557	1 x 6.1m	2	0	Minor Bridge	PSC Solid Slab	Drain	109.050	105.050	5.000	109.524	105.050	-	4.474	3.207	0.821	5.621	1.077	6.027
8N	698/2-3	67,370.0	938	138	109.887	108.019	107.29	108.387	1 x 6.1m	2	0	Minor Bridge	PSC Solid Slab	Drain	110.019	106.019	6.000	109.887	106.019	-	3.868	2.908	0.720	5.520	0.976	5.926
8N	694/3-4	71,350.0	933	145	116.503	116.047	113.18	116.150	1 x 6.1m	2	0	Minor Bridge	PSC Solid Slab	Nalla & Road	118.047	114.047	7.000	116.503	114.047	-	2.456	0.328	0.484	5.284	0.741	5.691
8N	676/2-3	89,405.0	908	174	146.439	145.236	143.75	143.704	1 x 6.1m	2	0	Minor Bridge	PSC Solid Slab	Drain	147.236	143.236	8.000	146.439	143.236	-	3.203	3.855	0.609	5.409	0.865	5.815
8N	674/6-7	91,060.0	904	178	148.555	145.264	144.814	146.308	1 x 6.1m	2	0	Minor Bridge	PSC Solid Slab	Nalla	147.264	143.264	9.000	148.555	143.264	-	5.291	11.175	0.957	5.757	1.213	6.163
6 (Goreguma-Sabamati North Connecting Line)	520/6-7	2,129.0	17	GSN-3	43.657	41.412	40.412		1 x 6.1m	1	0	Minor Bridge	PSC Solid Slab	Drain	43.412	39.412	10.000	43.657	39.412	-	4.245	9.631	0.783	5.583	1.039	5.989
6 (Sabamati South-Gorghuma Connecting Line)	520/6-7	3,875.0	17	SSG-9	43.673	41.924	41.924		1 x 6.1m	1	0	Minor Bridge	PSC Solid Slab	DRAIN	43.924	39.924	11.000	43.673	39.924	-	3.749	9.642	0.700	5.500	0.956	5.906

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 - (iii) Nos. of Track shall be confirmed from FLS & Station Yard Plan
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Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

Project Title :
Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)

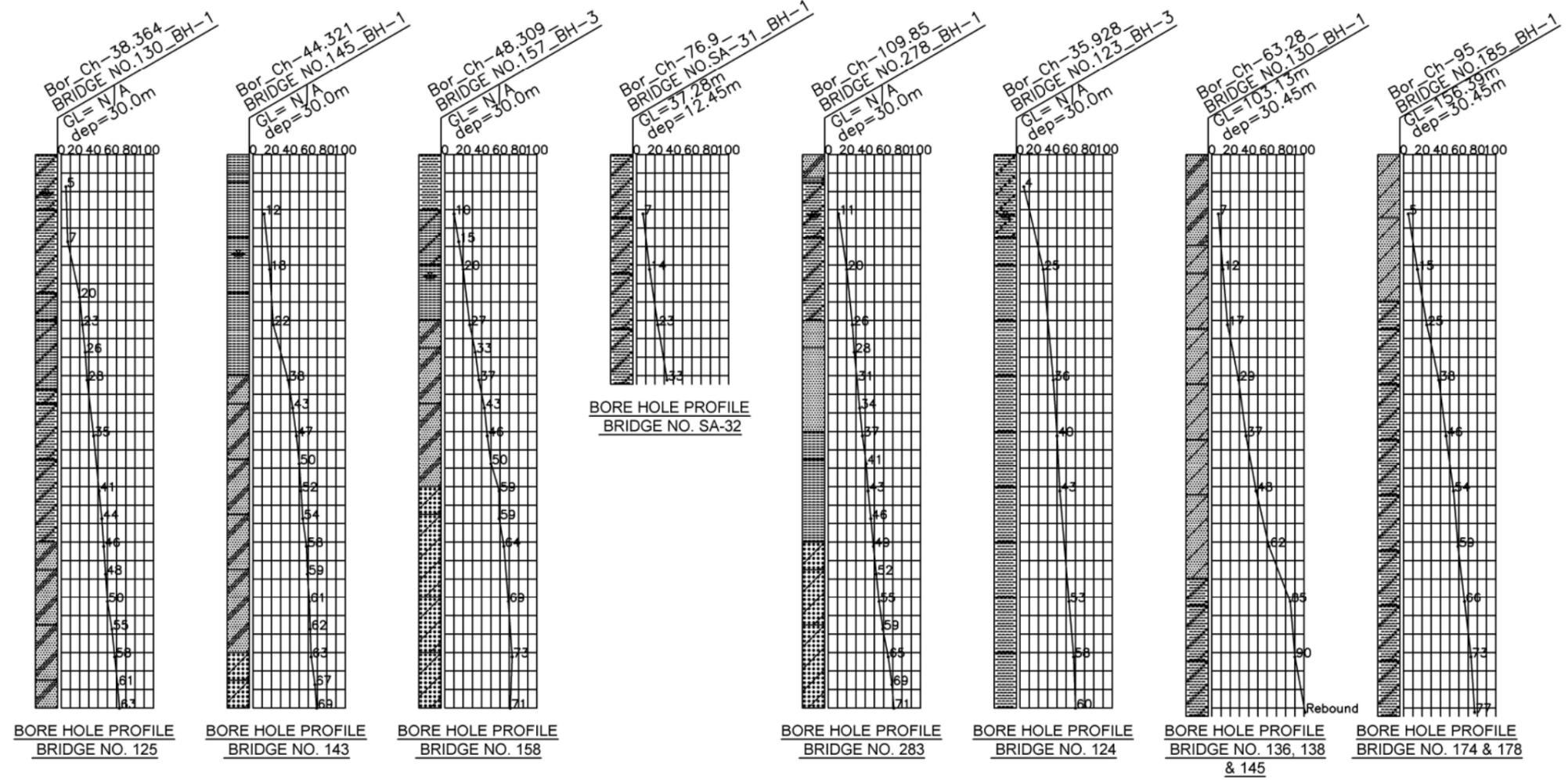
Client :
 **Dedicated Freight Corridor Corporation of India**
(A GOVERNMENT OF INDIA UNDERTAKING)
5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :
GENERAL ARRANGEMENT
DRAWING FOR 1X6.1m PSC SLAB
TYPE MINOR BRIDGE 02

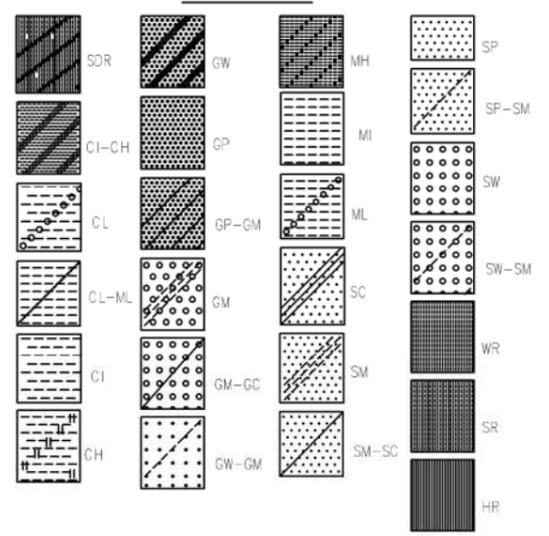
Drawing Number :
NKC-CTS-BRD-AHM-00006 (SHEET 2 OF 3)
Scale :
AS SHOWN
Reference :
GAD PREPARED BY CPM AHMEDABAD
Drawn By : S. Salamuddin | Checked By : M. N. Ahmad | Approved By : H. Kawahara
Date : 30th, Sept, 2012 | Date : 1st, Oct, 2012 | Date : 3rd, Oct, 2012



NK Consortium
4th Floor, Pragati Maidan Metro Station Building,
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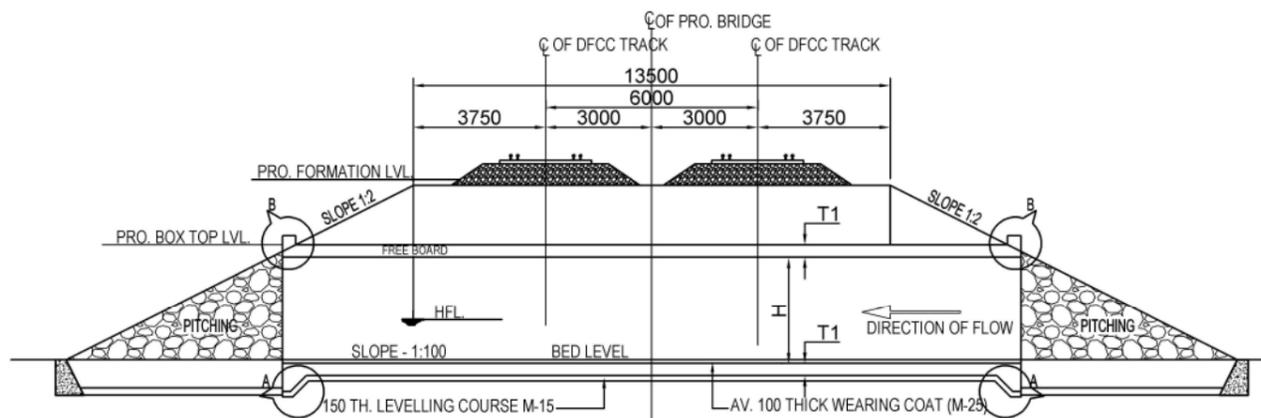


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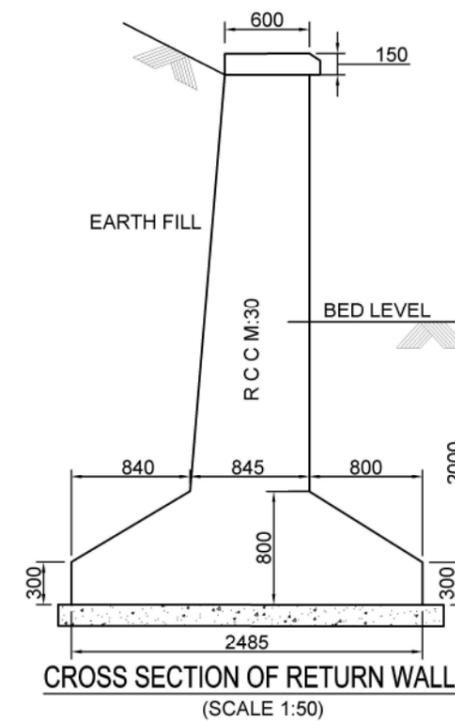


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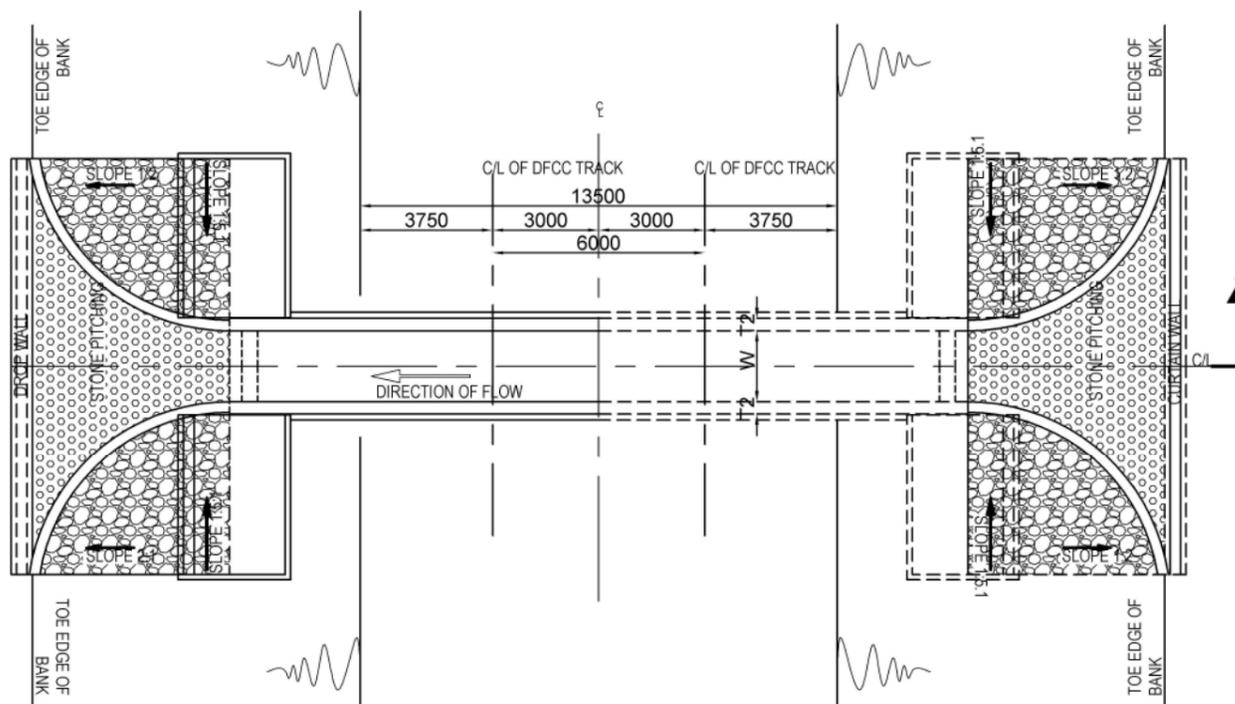
<p>Project Title : Dedicated Freight Corridor Project (Western Corridor Phase-1: Rewari - Vadodara Section)</p>	<p>Client :  Dedicated Freight Corridor Corporation of India (A GOVERNMENT OF INDIA UNDERTAKING) 5th Floor, Pragati Maidan Metro Station Building, New Delhi-110001, INDIA</p>	<p>Drawing Title : GENERAL ARRANGEMENT DRAWING FOR 1X6.1m PSC SLAB TYPE MINOR BRIDGE 02</p>	<p>Drawing Number : NKC-CTS -BRD -AHM -00006 (SHEET 3 OF 3)</p> <p>Scale : AS SHOWN</p> <p>Reference : GAD PREPARED BY CPM AHMEDABAD</p> <p>Drawn By : S. Salamuddin Checked By : M. N. Ahmad Approved By : H. Kawahara Date : 30th , Sept , 2012 Date : 1st , Oct , 2012 Date : 3rd , Oct , 2012</p>	<p> NK Consortium 4th Floor, Pragati Maidan Metro Station Building, New Delhi-110001, INDIA</p>
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SECTION A-A
(SCALE 1:200)

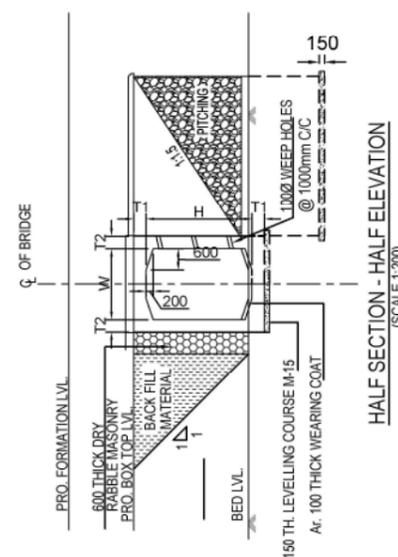


CROSS SECTION OF RETURN WALL
(SCALE 1:50)

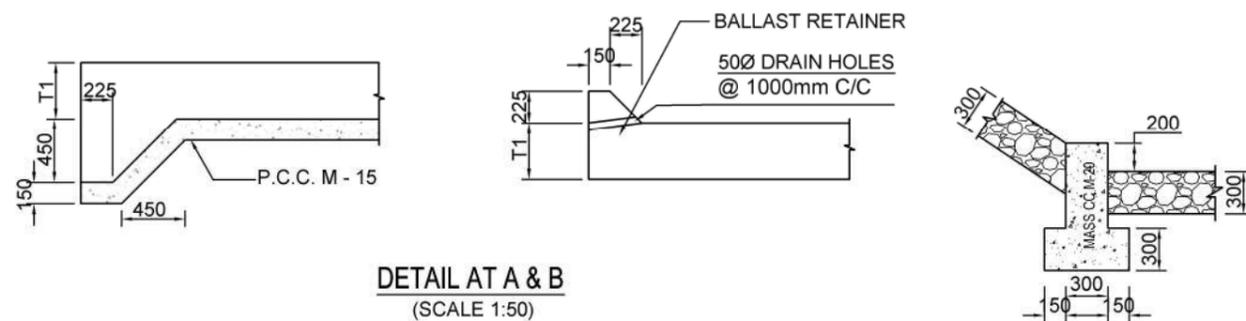


HALF PLAN AT BOTTOM
(SCALE 1:200)

HALF PLAN AT TOP
(SCALE 1:200)



HALF SECTION - HALF ELEVATION
(SCALE 1:200)



DETAIL AT A & B
(SCALE 1:50)

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

- GENERAL NOTES:
- 1) ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
 - 2) ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
 - 3) THIS GENERAL ARRANGEMENT DRAWING IS INDICATIVE AND IS MEANT ONLY FOR GUIDANCE FOR THE BIDDERS. ALL THE ENGINEERING DETAILS ARE TO BE DEVELOPED & DESIGNED BY THE CONTRACTOR AS PER THE EMPLOYER'S REQUIREMENTS, SPECIFICATIONS, AND SITE DIMENSIONS / CONDITIONS AND SHALL BE APPROVED BY ENGINEER/EMPLOYER.
 - 4) ALL DIMENSIONS SHALL BE VERIFIED WITH RESPECT TO EXISTING BRIDGES ON THE PARALLEL ALIGNMENT AND RECONCILED BEFORE EXECUTION.
 - 5) FORMATION LEVEL SHOWN IN GAD IS AS PER PROPOSED LONGITUDINAL SECTION OF THE ALIGNMENT AND MAY CHANGE DURING DEVELOPMENT OF DETAILED DESIGN STAGE.
 - 6) LENGTH OF RETURN WALL / WING WALL / TOE WALL / PITCHING ETC. IS TO BE DECIDED AS PER THE SITE CONDITION.
 - 7) DURING THE COURSE OF CONSTRUCTION, SAFETY & PROTECTION OF THE PROPOSED WORK AND SAFETY & PROTECTION OF THE RUNNING TRAIN ON THE EXISTING TRACK IS TO BE ENSURED BY THE CONTRACTOR.
 - 8) EXCAVATION / DISMANTLING OF ANY PORTION OF EXISTING BRIDGE OR ANY ELEMENT OF EXISTING PERMANENT WAY OR ANY WORK AFFECTING THE SAFETY OF THE EXISTING BRIDGE / PERMANENT WAY OR SAFETY OF THE RUNNING TRAINS WILL REQUIRE THE PRIOR WRITTEN APPROVAL OF THE ENGINEER/EMPLOYER.
- FOUNDATION
- 1) SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE DESIGN OF STRUCTURES.
- GEO-TECHNICAL
- 1) FOR TENDER PURPOSE REFER TO GEOTECHNICAL & HYDROLOGICAL INVESTIGATION REPORT IN DATA BOOK 2/2.
 - 2) GEO-TECHNICAL BORE HOLE DATA REFERED IN GAD IS INDICATIVE ONLY.
 - 3) DETAILED GEO-TECHNICAL INVESTIGATION SHALL BE CARRIED OUT DURING DETAILED DESIGN STAGE IF REQUIRED.

Project Title :
Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)

Client :
 **Dedicated Freight Corridor Corporation of India**
(A GOVERNMENT OF INDIA UNDERTAKING)
5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :
GENERAL ARRANGEMENT DRAWING
FOR RCC BOX TYPE MINOR BRIDGE

Drawing Number :
NKC-CTS-BRD-AHM-00007 (SHEET 1 OF 1)
Scale :
AS SHOWN
Reference :
GAD PREPARED BY CPM AHMEDABAD
Drawn By : S. Salamuddin
Date : 30th, Sept, 2012
Checked By : M. N. Ahmad
Date : 1st, Oct, 2012
Approved By : H. Kawahara
Date : 3rd, Oct, 2012



NK Consortium

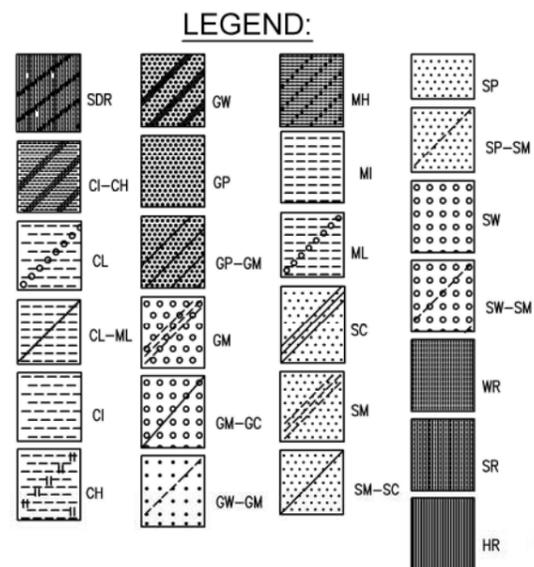
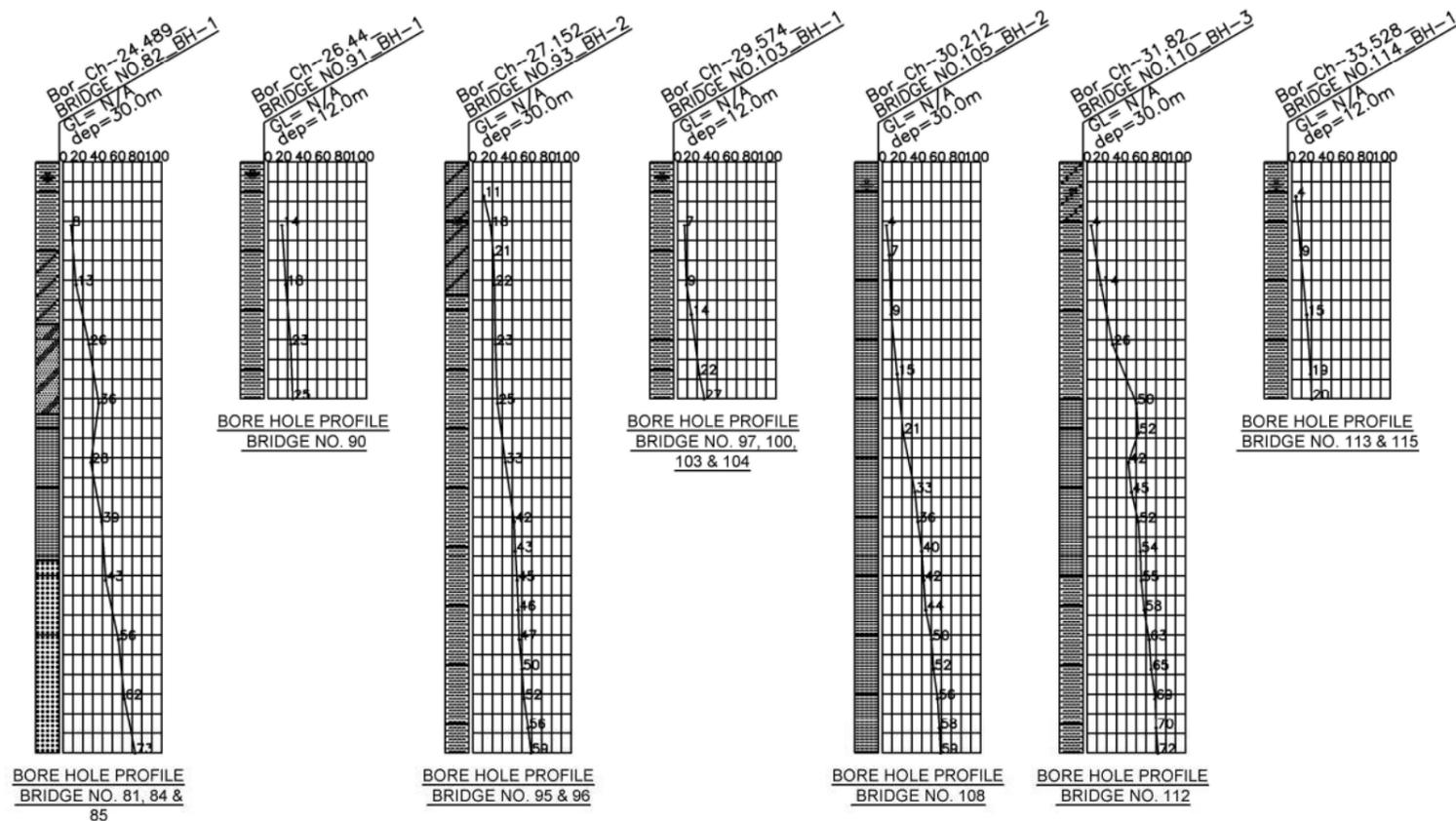
4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Sect. No.	Structure Chainage		Proposed Bridge No.		FL (m)	BL (m)	GL (m)		HFL/FSL (m)	Type of Structure	Structure configuration	No. of tracks	Skew Angle	Type of Crossing	Box Configuration							Return Wall(U/S;D/S)				BERM LVL (m)			
	IR	DFC	IR	DFC											Proposed for DFCC	n	W (m)	H (m)	T1 (m)	T2 (m)	A (m)	B (m)	Barrel Length-Z	FILL(m)	TOP LVL (m)		FDN LVL (m)	Height (m)	Length (m)
6	-	24,113	-	81	36.368	28.075	28.075	28.075	-	28.800	Minor Bridge	Rec Box	2	0	Nalla	1	4.0	3.7	0.500	0.500	0.600	0.200	31.022	4.193	32.175	26.075	6.100	6.150	30.368
6	-	24,855	-	84	34.386	26.959	26.959	26.959	-	26.759	Minor Bridge	Rec Box	2	0	Drain	1	4.0	4.0	0.450	0.450	0.600	0.200	26.558	3.077	31.309	24.959	6.350	6.525	28.386
6	-	24,938	-	85	33.971	26.647	26.647	26.647	-	26.447	Minor Bridge	Rec Box	2	0	Drain	1	2.0	2.0	0.350	0.350	0.600	0.200	34.546	5.074	28.897	24.647	4.250	3.375	27.971
6	-	25,615	-	87A	32.181	26.226	26.226	26.226	-	-	Minor Bridge	Rec Box	2	0	Drain	1	4.0	4.0	0.500	0.500	0.600	0.200	20.470	1.555	30.626	24.226	6.400	6.600	-
6	-	26,240	-	90	32.521	26.904	26.904	26.904	-	26.904	Minor Bridge	Rec Box	2	0	Drain	1	2.0	2.0	0.350	0.350	0.600	0.200	27.718	3.367	29.154	24.904	4.250	3.375	-
6	-	27,550	-	95	30.621	25.049	25.049	25.049	-	25.500	Minor Bridge	Rec Box	2	0	Drain	1	2.0	2.0	0.350	0.350	0.600	0.200	27.538	3.322	27.299	23.049	4.250	3.375	-
6	-	27,710	-	96	29.821	25.282	25.282	25.282	-	26.670	Minor Bridge	Rec Box	2	0	Drain	1	2.0	2.0	0.350	0.350	0.600	0.200	23.406	2.289	27.532	23.282	4.250	3.375	-
6	-	28,020	-	97	29.246	25.698	25.698	25.698	-	26.000	Minor Bridge	Rec Box	2	0	Drain	1	2.0	2.0	0.350	0.350	0.600	0.200	19.442	1.298	27.948	23.698	4.250	3.375	-
6	-	28,596	-	100	29.936	25.668	25.668	25.668	-	25.440	Minor Bridge	Rec Box	2	25	Canal	1	4.0	3.7	0.450	0.450	0.600	0.200	15.122	0.218	29.718	23.668	6.050	6.075	-
6	-	29,574	-	103	30.341	22.422	22.422	22.422	-	22.880	Minor Bridge	Rec Box	2	0	Drain	1	2.0	2.0	0.350	0.350	0.600	0.200	36.926	5.669	24.672	20.422	4.250	3.375	24.341
6	-	29,973	-	104	29.970	21.356	21.356	21.356	-	22.400	Minor Bridge	Rec Box	2	0	Drain	1	2.0	2.0	0.350	0.350	0.600	0.200	42.706	6.364	23.606	19.356	4.250	3.375	23.970
6	-	30,953	-	108	29.656	24.371	24.371	24.371	-	24.750	Minor Bridge	Rec Box	2	35	Drain	1	4.0	3.7	0.450	0.450	0.600	0.200	19.190	1.235	28.421	22.371	6.050	6.075	-
6	-	32,800	-	112	28.443	21.967	21.967	21.967	-	23.050	Minor Bridge	Rec Box	2	0	Drain	1	2.0	2.0	0.350	0.350	0.600	0.200	31.154	4.226	24.217	19.967	4.250	3.375	22.443
6	-	33,200	-	113	28.443	21.578	21.578	21.578	-	21.990	Minor Bridge	Rec Box	2	0	Drain	1	4.0	3.7	0.450	0.450	0.600	0.200	25.510	2.815	25.628	19.578	6.050	6.075	22.443
6	-	33,640	-	115	28.518	21.630	21.630	21.630	-	22.550	Minor Bridge	Rec Box	2	0	Drain	1	2.0	2.0	0.350	0.350	0.600	0.200	32.802	4.638	23.880	19.630	4.250	3.375	22.518
6	-	34,140	-	115A	28.768	20.828	20.828	20.828	-	-	Minor Bridge	Rec Box	2	0	Drain	1	4.0	3.85	0.500	0.500	0.600	0.200	29.010	3.690	25.078	18.828	6.250	6.375	22.768
6	-	35,770	-	122	27.334	19.765	19.765	19.765	-	20.150	Minor Bridge	Rec Box	2	0	Drain	1	2.0	2.0	0.350	0.350	0.600	0.200	35.526	5.319	22.015	17.765	4.250	3.375	21.334
6	-	35,940	-	123A	28.035	20.435	20.435	20.435	-	21.230	Minor Bridge	Rec Box	2	0	Drain	1	2.0	2.0	0.350	0.350	0.600	0.200	35.650	5.350	22.685	18.435	4.250	3.375	22.035
6	-	36,600	-	124	24.827	20.774	20.774	20.774	-	21.310	Minor Bridge	Rec Box	2	0	Drain	1	2.0	2.0	0.350	0.350	0.600	0.200	21.462	1.803	23.024	18.774	4.250	3.375	-
6	-	38,140	-	129	26.682	21.250	21.250	21.250	-	21.750	Minor Bridge	Rec Box	2	0	Drain	1	2.0	2.0	0.350	0.350	0.600	0.200	26.978	3.182	23.500	19.250	4.250	3.375	-
6	-	44,620	-	146	24.712	18.844	18.844	18.844	-	19.750	Minor Bridge	Rec Box	2	0	Drain	1	2.0	2.0	0.350	0.350	0.600	0.200	28.722	3.618	21.094	16.844	4.250	3.375	-
6	-	44,987	-	147	24.822	19.630	19.630	19.630	-	19.900	Minor Bridge	Rec Box	2	0	Drain	1	2.0	2.0	0.350	0.350	0.600	0.200	26.018	2.942	21.880	17.630	4.250	3.375	-
6	-	49,560	-	159A	25.200	21.888	21.888	21.888	-	NA	Minor Bridge	Rec Box	2	0	Nalla	1	2.0	2.0	0.350	0.350	0.600	0.200	18.498	1.062	24.138	19.888	4.250	3.375	-
6	-	53,570	-	165B	28.291	25.453	25.453	25.453	-	25.555	Minor Bridge	Rec Box	2	0	Drain	1	2.0	2.0	0.350	0.350	0.600	0.200	16.602	0.588	27.703	23.453	4.250	3.375	-
6	-	54,000	-	166	28.541	26.291	27.134	27.134	FALSE	27.850	Minor Bridge	Rec Box	2	0	Drain	1	2.0	2.0	0.350	0.350	0.600	0.200	13.500	0.000	28.541	24.291	4.250	3.375	-
6	-	56,930	-	171	31.631	27.377	27.377	27.377	-	27.550	Minor Bridge	Rec Box	4	0	Drain	1	3.0	3.0	0.350	0.350	0.600	0.200	30.266	1.004	30.627	25.377	5.250	4.875	-
6	-	67,113	-	SA-09	35.704	31.076	31.076	31.076	-	31.500	Minor Bridge	Rec Box	2	60	Canal	1	2.0	2.0	0.350	0.350	0.600	0.200	23.762	2.378	33.326	29.076	4.250	3.375	-
6	-	68,000	-	SA-11	36.469	31.505	31.505	31.505	-	32.350	Minor Bridge	Rec Box	2	33	Drain	1	4.0	3.7	0.450	0.450	0.600	0.200	17.906	0.914	35.555	29.505	6.050	6.075	-
6	-	68,935	-	SA-13	36.469	30.365	30.365	30.365	-	30.860	Minor Bridge	Rec Box	2	35	Nalla	1	4.0	3.7	0.450	0.450	0.600	0.200	22.466	2.054	34.415	28.365	6.050	6.075	30.469
6	-	69,245	-	SA-14	36.844	30.456	30.456	30.456	-	30.990	Minor Bridge	Rec Box	2	14	Drain	1	4.0	3.7	0.450	0.450	0.600	0.200	23.602	2.338	34.506	28.456	6.050	6.075	30.844
6	-	76,697	-	SA-30	44.215	33.786	33.786	33.786	-	34.500	Minor Bridge	Rec Box	2	20	Drain	1	2.0	2.0	0.350	0.350	0.600	0.200	49.966	8.179	36.036	31.786	4.250	3.375	38.215
6	-	77,385	-	SA-33	43.492	37.846	37.846	37.846	-	38.190	Minor Bridge	Rec Box	2	20	Drain	1	4.0	3.7	0.450	0.450	0.600	0.200	20.634	1.596	41.896	35.846	6.050	6.075	-
6	-	77,776	-	SA-34	42.370	37.623	37.623	37.623	-	38.990	Minor Bridge	Rec Box	2	0	Drain	1	4.0	3.7	0.450	0.450	0.600	0.200	17.038	0.697	41.673	35.623	6.050	6.075	-
6	-	78,528	-	SA-36	43.807	36.648	36.648	36.648	-	36.200	Minor Bridge	Rec Box	2	10	Fetewali canal	1	2.0	2.0	0.350	0.350	0.600	0.200	33.886	4.909	38.898	34.648	4.250	3.375	37.807
6	-	78,910	-	SA-38	45.717	38.838	38.838	38.838	-	39.300	Minor Bridge	Rec Box	2	0	Drain	1	4.0	3.7	0.450	0.450	0.600	0.200	25.566	2.829	42.888	36.838	6.050	6.075	39.717
6	-	80,540	-	SA-41	47.125	39.419	39.419	39.419	-	39.500	Minor Bridge	Rec Box	5	15	Drain	1	2.0	2.0	0.350	0.350	0.600	0.200	54.074	5.456	41.669	37.419	4.250	3.375	41.125
6	-	80,760	-	SA-42	47.308	39.327	39.327	39.327	-	38.855	Minor Bridge	Rec Box	5	15	Canal	1	2.0	2.0	0.350	0.350	0.600	0.200	55.174	5.731	41.577	37.327	4.250	3.375	41.308
6	-	83,800	-	SA-49B (DN)	55.391	39.215	39.215	39.215	-	39.990	Minor Bridge	Rec Box	1	0	Drain	1	4.0	3.7	0.850	0.850	0.600	0.200	58.154	11.726	43.665	37.215	6.450	6.675	49.391
6	-	85,490	-	SA-54 (DN)	48.711	41.336	41.336	41.336	-	41.880	Minor Bridge	Rec Box	1	0	Drain	1	2.0	2.0	0.350	0.350	0.600	0.200	28.750	5.125	43.586	39.336	4.250	3.375	42.711
6	-	85,870	-	SA-49B (UP)	53.615	39.396	39.396	39.396	-	NA	Minor Bridge	Rec Box	1	0	Drain	1	4.0	3.7	0.750	0.750	0.600	0.200	50.726	9.869	43.746	37.396	6.350	6.525	47.615
6	-	85,240	-	SA-54 (UP)	49.711	40.528	40.528	40.528	-	41.880	Minor Bridge	Rec Box	1	0	Drain	1	2.0	2.0	0.350	0.350	0.600	0.200	38.982	6.933	42.778	38.528	4.250	3.375	43.711
7	-	95,460	-	240	48.578	42.504	42.504	42.504	-	42.750	Minor Bridge	Rec Box	4	0	Drain	1	2.0	2.0	0.350	0.350	0.600	0.200	41.546	3.824	44.754	40.504	4.250	3.375	42.578
7	-	98,299	-	244	51.182	44.686	44.686	44.686	-	45.400	Minor Bridge	Rec Box	4	0	Drain	1	2.0	2.0	0.350	0.350	0.600	0.200	43.234	4.246	46.936	42.686	4.250	3.375	45.182
7	-	98,658	-	245	51.690	44.712	44.712	44.712	-	44.350	Minor Bridge	Rec Box	4	36	Canal	1	9.0	4.5	0.950	0.950	0.600	0.200	32.762	1.628	50.062	42.712	7.350	8.025	45.690
7	-	100,021	-	251	53.619	46.165	46.165	46.165	-	45.700	Minor Bridge	Rec Box	2	45	Canal	1	2.0	2.0	0.350	0.350	0.600	0.							

8N	738.189	26,790	1006	57	86.820	83.116	83.116	83.116	-	83.252	Minor Bridge	Rec Box	2	0	Nalla	1	3.0	2.0	0.350	0.350	0.600	0.200	20.066	1.454	85.366	81.116	4.250	3.375	-
8N	738.029	26,980	1005	58	87.447	83.485	83.485	83.485	-	83.985	Minor Bridge	Rec Box	2	0	Nalla	1	1.2	1.2	0.350	0.350	0.600	0.200	24.298	2.512	84.935	81.485	3.450	2.175	-
8N	737.854	27,162	1004	59	88.048	83.958	83.958	83.958	-	84.324	Minor Bridge	Rec Box	2	0	Small Nalla	1	1.2	1.2	0.350	0.350	0.600	0.200	24.810	2.640	85.408	81.958	3.450	2.175	-
8N	737.4	27,606	1003	60	89.163	87.713	87.713	88.338	FALSE	87.842	Minor Bridge	Rec Box	2	0	Small Nalla	1	1.2	1.2	0.350	0.350	0.600	0.200	13.500	0.000	89.163	85.713	3.450	2.175	-
8N	736.866	28,143	1002	61	89.163	85.913	86.645	86.645	FALSE	85.145	Minor Bridge	Rec Box	2	0	Nalla	1	3.0	3.0	0.350	0.350	0.600	0.200	13.500	0.000	89.163	83.913	5.250	4.875	-
8N	734/10-11	30,160	1000	64	89.663	88.213	89.004	89.004	FALSE	88.302	Minor Bridge	Rec Box	2	0	Small Nalla	1	1.2	1.2	0.350	0.350	0.600	0.200	13.500	0.000	89.663	86.213	3.450	2.175	-
8N	734.432	30,575		65	89.663	88.213	89.295	89.295	FALSE	88.563	Minor Bridge	Rec Box	2	0	Small Nalla	1	2.0	1.2	0.350	0.350	0.600	0.200	13.500	0.000	89.663	86.213	3.450	2.175	-
8N	733.455	31,527	998	66	91.822	89.093	89.093	89.093	-	89.655	Minor Bridge	Rec Box	2	0	Small Nalla	1	2.0	2.0	0.350	0.350	0.600	0.200	16.166	0.479	91.343	87.093	4.250	3.375	-
8N	732.628	32,392	997	67	90.863	88.079	88.079	88.079	-	88.613	Minor Bridge	Rec Box	2	0	Small Nalla	1	1.2	1.2	0.350	0.350	0.600	0.200	19.586	1.334	89.529	86.079	3.450	2.175	-
8N	732.154	32,855	996A	68	90.620	88.856	88.856	88.856	-	88.860	Minor Bridge	Rec Box	2	0	Small Nalla	1	1.2	1.2	0.350	0.350	0.600	0.200	15.506	0.314	90.306	86.856	3.450	2.175	-
8N	732.095	32,915	996	69	90.620	88.432	88.432	88.432	-	88.600	Minor Bridge	Rec Box	2	0	Small Nalla	1	1.2	1.2	0.350	0.350	0.600	0.200	17.202	0.738	89.882	86.432	3.450	2.175	-
8N	731.85	33,165	995	70	90.620	87.921	87.921	87.921	-	88.682	Minor Bridge	Rec Box	2	0	Small Nalla	1	2.0	1.2	0.350	0.350	0.600	0.200	19.246	1.249	89.371	85.921	3.450	2.175	-
8N	731.409	33,605	994	71	90.763	88.323	88.323	88.323	-	88.557	Minor Bridge	Rec Box	2	0	Small Nalla	1	2.0	1.2	0.350	0.350	0.600	0.200	18.210	0.990	89.773	86.323	3.450	2.175	-
8N	730.515	34,498	992	73	91.648	88.733	88.733	88.733	-	88.851	Minor Bridge	Rec Box	2	0	Small Nalla	1	1.2	1.2	0.350	0.350	0.600	0.200	20.094	1.461	90.183	86.733	3.450	2.175	-
8N	730.053	34,962	990	75	90.716	87.326	87.326	87.326	-	87.450	Minor Bridge	Rec Box	2	0	Small Nalla	1	1.2	1.2	0.350	0.350	0.600	0.200	22.010	1.940	88.776	85.326	3.450	2.175	-
8N	728.936	36,080	988	77	92.540	89.623	89.623	89.623	-	90.023	Minor Bridge	Rec Box	2	0	Small Nalla	1	1.2	1.2	0.350	0.350	0.600	0.200	20.118	1.467	91.073	87.623	3.450	2.175	-
8N	728.578	36,438	987	78	92.540	91.090	91.090	91.148	FALSE	91.150	Minor Bridge	Rec Box	2	0	Small Nalla	1	1.2	1.2	0.350	0.350	0.600	0.200	13.500	0.000	92.540	89.090	3.450	2.175	-
8N	728.007	37,008	986	79	90.733	89.283	89.286	89.286	FALSE		Minor Bridge	Rec Box	2	0	Drain	1	1.2	1.2	0.350	0.350	0.600	0.200	13.500	0.000	90.733	87.283	3.450	2.175	-
8N	727.629	37,388	985	80	90.238	87.700	87.700	87.700	-		Minor Bridge	Rec Box	2	0	Drain	1	2.0	1.2	0.350	0.350	0.600	0.200	18.602	1.088	89.150	85.700	3.450	2.175	-
8N	726.321	38,680	983	82	89.970	84.611	84.611	84.611	-	91.907	Minor Bridge	Rec Box	2	0	Nalla	1	1.2	1.2	0.350	0.350	0.600	0.200	29.886	3.909	86.061	82.611	3.450	2.175	-
8N	726.183	38,825	982	83	89.947	83.796	83.796	83.796	-	86.575	Minor Bridge	Rec Box	2	0	Nalla	1	4.0	3.7	0.450	0.450	0.600	0.200	22.654	2.101	87.846	81.796	6.050	6.075	83.947
8N	NA	40,440	980	85	96.246	85.166	85.166	85.166	-	85.333	Minor Bridge	Rec Box	2	0	Nalla	1	4.0	3.7	0.750	0.750	0.600	0.200	44.170	6.730	89.516	83.166	6.350	6.525	90.246
8N	NA	40,700	979	87	96.312	84.074	84.074	84.074	-	85.350	Minor Bridge	Rec Box	2	0	Nalla + Cart Track	1	4.0	3.7	0.750	0.750	0.600	0.200	48.802	7.888	88.424	82.074	6.350	6.525	90.312
8N	NA	40,800	978	88	95.912	84.279	84.279	84.279	-	85.009	Minor Bridge	Rec Box	2	0	Small Nalla	1	1.2	1.2	0.350	0.350	0.600	0.200	57.982	10.183	85.729	82.279	3.450	2.175	89.912
8N	NA	41,200	977	89	94.312	84.252	84.252	84.252	-	84.852	Minor Bridge	Rec Box	2	0	Nalla	1	4.0	3.7	0.700	0.700	0.600	0.200	37.290	5.760	88.552	82.252	6.300	6.450	88.312
8N	NA	41,800	976	90	91.912	83.005	83.005	83.005	-	83.405	Minor Bridge	Rec Box	2	0	Small Nalla	1	4.0	4.0	0.500	0.500	0.600	0.200	32.278	4.507	87.405	81.005	6.400	6.600	85.912
8N	NA	42,000	975	91	91.112	84.216	84.216	84.216	-	84.766	Minor Bridge	Rec Box	2	0	Small Nalla	1	5.5	4.6	0.550	0.550	0.600	0.200	21.634	1.846	89.266	82.216	7.050	7.575	85.112
8N	NA	42,050	974	92	90.912	84.290	84.290	84.290	-	85.350	Minor Bridge	Rec Box	2	0	Small Nalla	1	2.0	2.0	0.350	0.350	0.600	0.200	31.738	4.372	86.540	82.290	4.250	3.375	84.912
8N	722.608	43,038	971	94	88.508	85.695	85.695	85.695	-	84.743	Minor Bridge	Rec Box	2	0	Small Nalla	1	3.0	2.0	0.350	0.350	0.600	0.200	16.502	0.563	87.945	83.695	4.250	3.375	-
8N	722.497	43,148	971	95	88.728	85.879	85.879	85.879	-	85.893	Minor Bridge	Rec Box	2	0	Small Nalla	1	1.2	1.2	0.350	0.350	0.600	0.200	19.846	1.399	87.329	83.879	3.450	2.175	-
8N	722.16	43,482	970	96	89.396	85.931	85.931	85.931	-	85.709	Minor Bridge	Rec Box	2	0	Drain	1	2.0	2.0	0.350	0.350	0.600	0.200	19.110	1.215	88.181	83.931	4.250	3.375	-
8N	721.9	43,745	969	97	89.471	87.721	87.721	87.721	-	87.900	Minor Bridge	Rec Box	2	0	Nalla	1	2.0	1.2	0.350	0.350	0.600	0.200	15.450	0.300	89.171	85.721	3.450	2.175	-
8N	721.354	44,268	968	98	89.366	87.916	87.916	87.916	FALSE	88.022	Minor Bridge	Rec Box	2	0	Nalla	1	2.0	1.2	0.350	0.350	0.600	0.200	13.500	0.000	89.366	85.916	3.450	2.175	-
8N	720.87	44,752	967	100	89.745	88.293	88.293	88.293	-	88.004	Minor Bridge	Rec Box	2	0	Small Nalla	1	1.2	1.2	0.350	0.350	0.600	0.200	13.500	0.002	89.743	86.293	3.450	2.175	-
8N	720.216	45,400	966	101	90.424	88.336	88.336	88.336	-	87.819	Minor Bridge	Rec Box	2	0	Small Nalla	1	1.2	1.2	0.350	0.350	0.600	0.200	16.802	0.638	89.786	86.336	3.450	2.175	-
8N	718.894	46,740	964	103	91.294	87.994	88.235	88.235	FALSE	88.400	Minor Bridge	Rec Box	2	0	Nalla	1	4.0	3.0	0.400	0.400	0.600	0.200	13.500	0.000	91.294	85.994	5.300	4.950	-
8N	716.23	49,420	961	108	92.324	90.874	92.300	92.300	FALSE	91.547	Minor Bridge	Rec Box	2	0	Small Nalla	1	1.2	1.2	0.350	0.350	0.600	0.200	13.500	0.000	92.324	88.874	3.450	2.175	-
8N	715.87	49,780	960	109	92.180	90.730	90.950	90.950	FALSE	91.150	Minor Bridge	Rec Box	2	0	Small Nalla	1	1.2	1.2	0.350	0.350	0.600	0.200	13.500	0.000	92.180	88.730	3.450	2.175	-
8N	708/5-6	56,700	953	119	97.444	94.003	94.003	94.003	-	94.000	Minor Bridge	Rec Box	4	0	Small Nalla	1	1.2	1.2	0.350	0.350	0.600	0.200	34.214	1.991	95.453	92.003	3.450	2.175	-
8N	705.752	59,923	947	126	99.877	97.579	97.579	97.579	-	97.750	Minor Bridge	Rec Box	2	0	Small Nalla	1	1.2	1.2	0.350	0.350	0.600	0.200	17.642	0.848	99.029	95.579	3.450	2.175	-
8N	700/2-3	65,390	943	133	107.515	105.568	105.568	105.568	-	105.975	Minor Bridge	Rec Box	2	0	Drain	1	1.2	1.2	0.350	0.350	0.600	0.200	16.238	0.497	107.018	103.568	3.450	2.175	-
8N	699/8-9	65,828	941	135	108.365	105.335	105.335	105.335	-	106.530	Minor Bridge	Rec Box	2	0	Nalla	1	1.2	1.2	0.350	0.350	0.600	0.200	20.570	1.580	106.785	103.335	3.450	2.175	-
8N	697/7-8	67,870	937	139	110.790	108.540	109.011	109.011	FALSE	109.500	Minor Bridge	Rec Box	2	0	Nalla	1	3.0	2.0	0.350	0.350	0.600	0.200	13.500	0.000	110.790	106.540	4.250	3.375	-
8N	691/6-7	74,022	929	149	121.090	118.836	118.836	118.836	-	119.399	Minor Bridge	Rec Box	2	0	Drain	1	3.0	2.0	0.350	0.350	0.600	0.200	13.500	0.004	121.086	116.836	4.250	3.375	-
8N	690/0-1	75,618	926	152	123.644	121.005	121.005	121.005	-	122.519	Minor Bridge	Rec Box	2	0	Drain	1	3.0	2.0	0.350	0.350	0.600	0.200	15.806	0.389	123.25				

8N	655/2-3	110,022	873	211	212.039	209.789	210.002	210.002	FALSE	210.580	Minor Bridge	Rcc Box	2	0	Small Nalla	1	2.0	2.0	0.350	0.350	0.600	0.200	13.500	0.000	212.039	207.789	4.250	3.375	-
8N	654/9-10	110,348	872	212	211.680	208.559	208.559	208.559	-	209.893	Minor Bridge	Rcc Box	2	0	Small Nalla	1	1.2	1.2	0.350	0.350	0.600	0.200	20.934	1.671	210.009	206.559	3.450	2.175	-
8N	654/6-7	110,655	871	213	212.044	208.050	208.050	208.050	-	208.872	Minor Bridge	Rcc Box	2	0	Small Nalla	1	2.0	2.0	0.350	0.350	0.600	0.200	21.226	1.744	210.300	206.050	4.250	3.375	-
8N	654.053	111,192	870	214	214.729	212.479	213.255	213.255	FALSE	213.007	Minor Bridge	Rcc Box	2	0	Small Nalla	1	2.0	2.0	0.350	0.350	0.600	0.200	13.500	0.000	214.729	210.479	4.250	3.375	-
8N	653.698	111,548	869A	215	216.509	215.059	216.376	216.376	FALSE	213.954	Minor Bridge	Rcc Box	2	0	Small Nalla	1	1.2	1.2	0.350	0.350	0.600	0.200	13.500	0.000	216.509	213.059	3.450	2.175	-
8N	652.924	112,322	869	216	216.417	214.167	215.503	215.503	FALSE	214.102	Minor Bridge	Rcc Box	2	0	Small Nalla	1	3.0	2.0	0.350	0.350	0.600	0.200	13.500	0.000	216.417	212.167	4.250	3.375	-

- NOTE
- (i) F.L is based on the alignment drawing modified by NKC and should be reconfirmed in detailed design survey.
 - (ii) G.L is based on GAD prepared by CPM and should be reconfirmed in detailed design and survey.
 - (iii) Nos. of Track shall be confirmed from FLS & Station Yard Plan
 - (iv) Berm of 1.5 m width shall be provided on the slope of every 6 m height.
 - (v) Barrel Length may vary as per site condition.



Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

<p>Project Title : Dedicated Freight Corridor Project (Western Corridor Phase-1: Rewari - Vadodara Section)</p>	<p>Client : Dedicated Freight Corridor Corporation of India <small>(A GOVERNMENT OF INDIA UNDERTAKING)</small> 5th Floor, Pragati Maidan Metro Station Building, New Delhi-110001, INDIA</p>	<p>Drawing Title : GENERAL ARRANGEMENT DRAWING FOR RCC BOX TYPE MINOR BRIDGE</p>	<p>Drawing Number : NKC-CTS-BRD-AHM-00007 (SHEET 4 OF 11)</p> <p>Scale : AS SHOWN</p> <p>Reference : GAD PREPARED BY CPM AHMEDABAD</p> <p>Drawn By : S. Salamuddin Checked By : M. N. Ahmad Approved By : H. Kawahara Date : 30th, Sept, 2012 Date : 1st, Oct, 2012 Date : 3rd, Oct, 2012</p>
		NK Consortium 4th Floor, Pragati Maidan Metro Station Building, New Delhi-110001, INDIA	