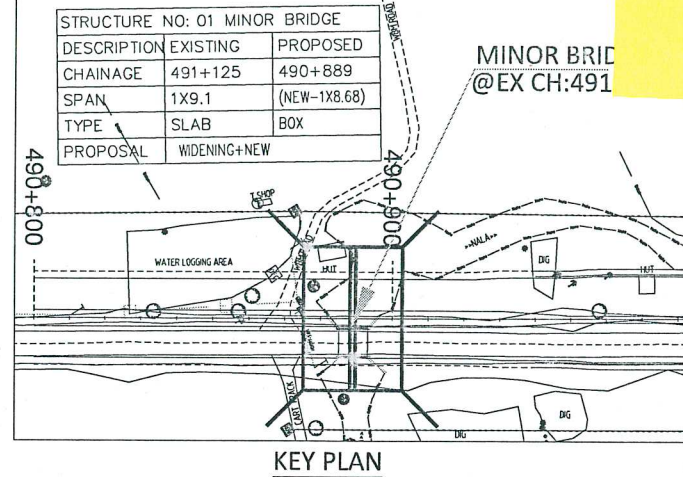
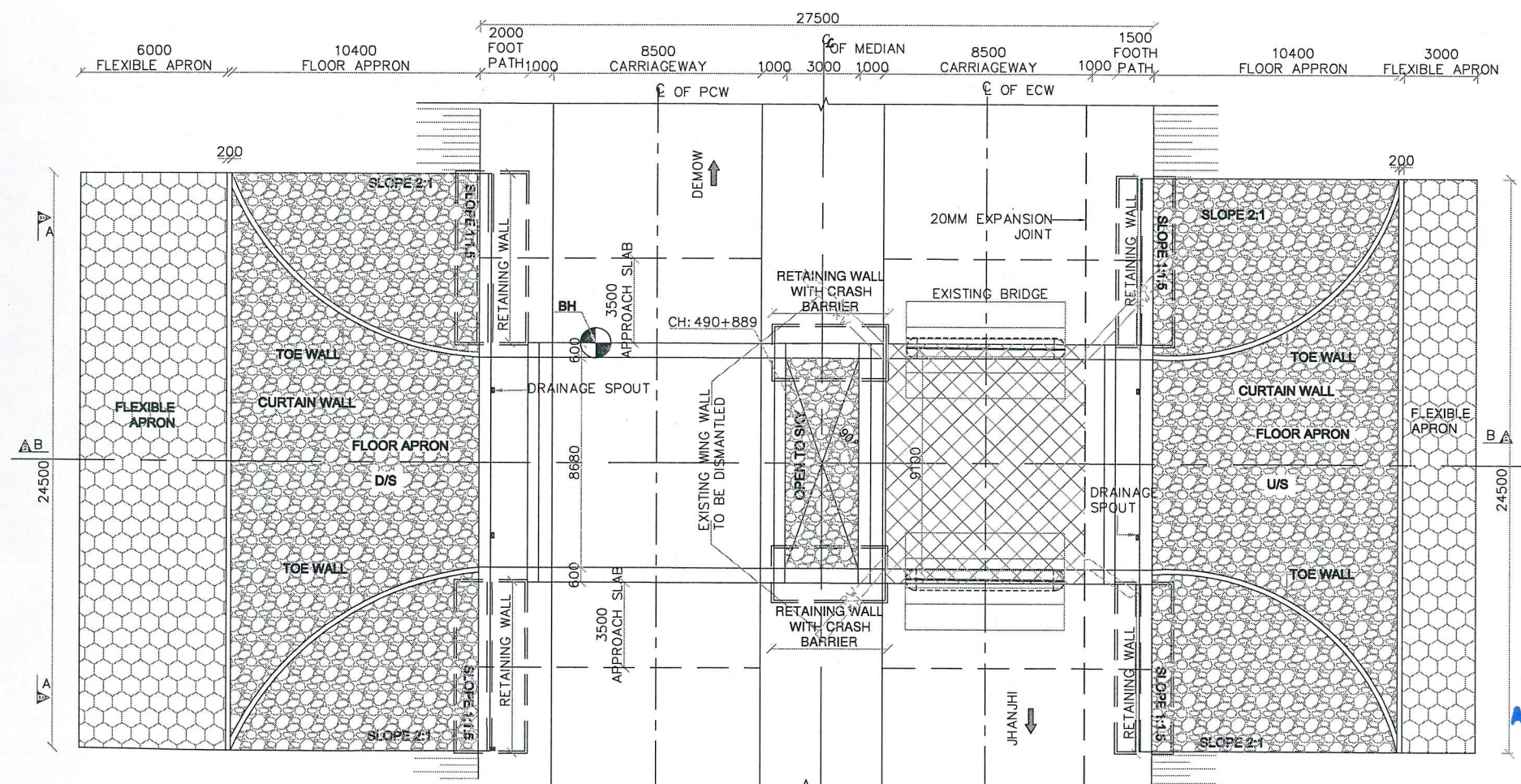


GOOD FOR CONSTRUCTION



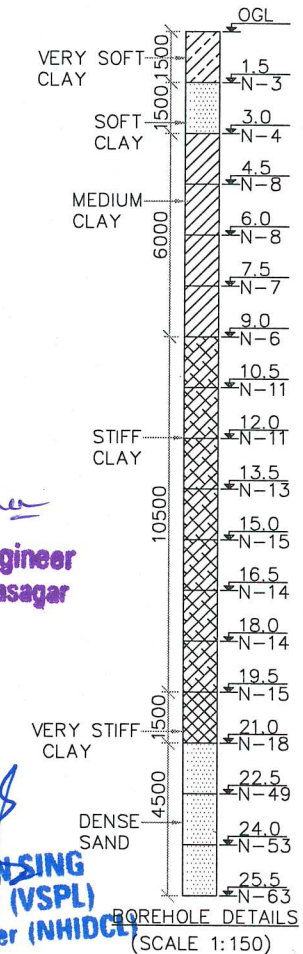
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Existing Ground LEVELS	87.778 87.771	88.410 88.406	88.928 88.605	87.204	87.081 87.114 87.137	87.167 87.303 91.629	91.643 91.664	91.653 91.638 88.816 87.540 88.130 87.660 88.422	87.467	87.422	87.230 87.262 88.172



DESIGN DIRECTOR  
VASANTH KUMAR T.H.

Bridge Engineer  
VSPL, Sivasagar

HARBHAJAN SING  
Team Leader (VSPL)  
Authority Engineer (NHIDCL)

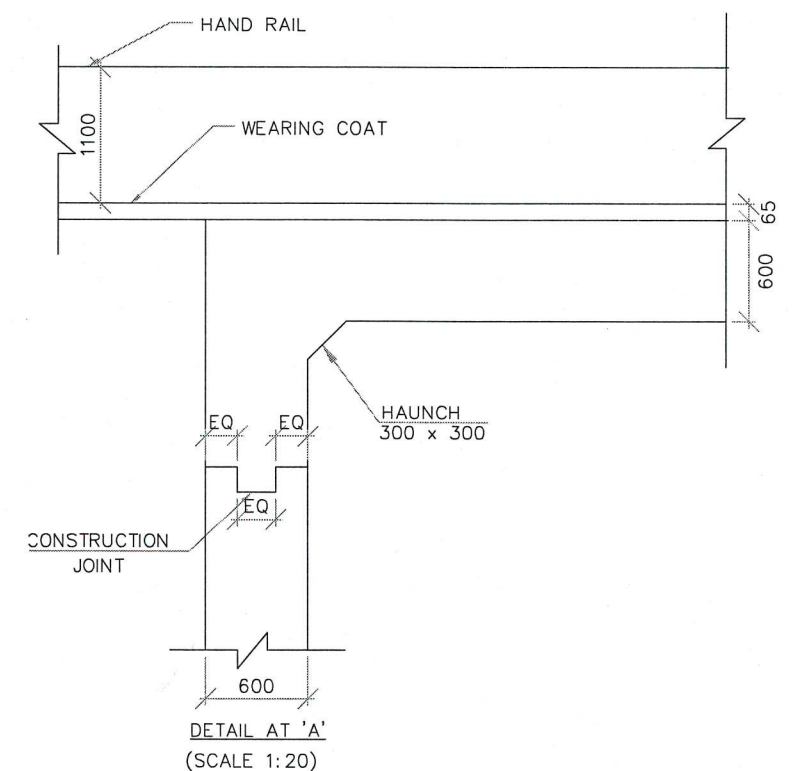
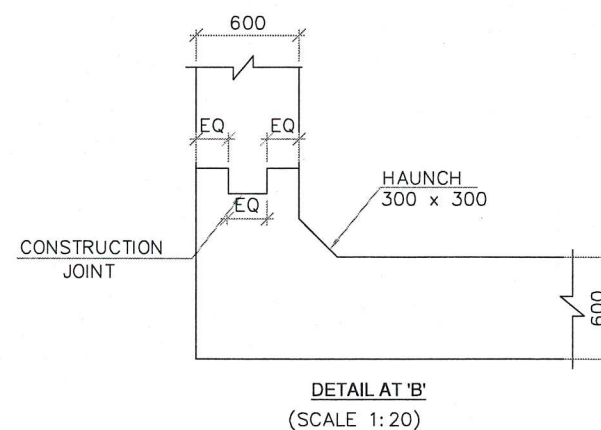
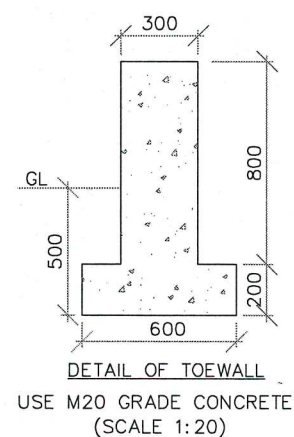
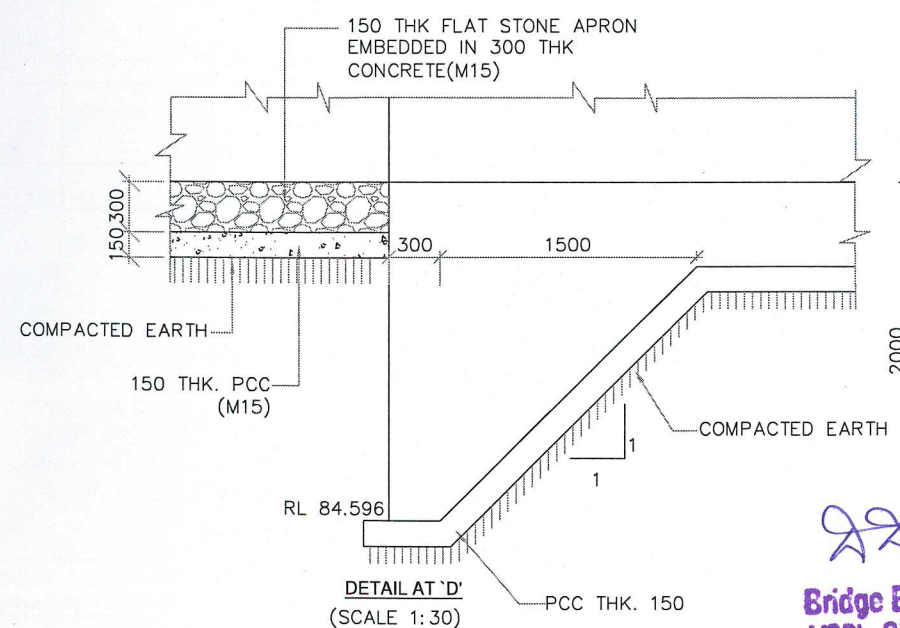
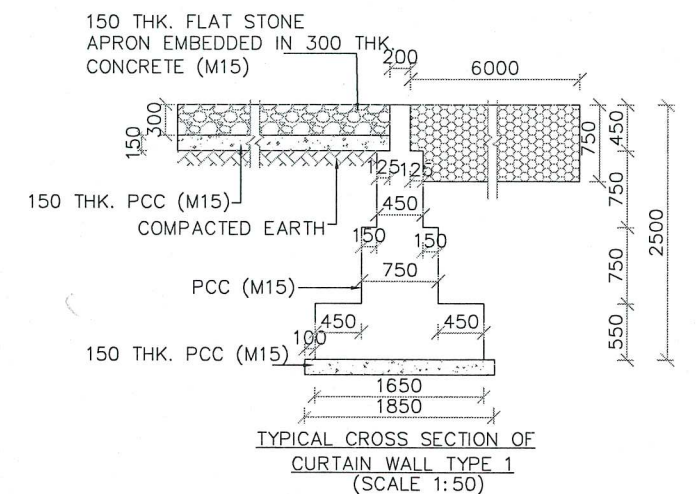
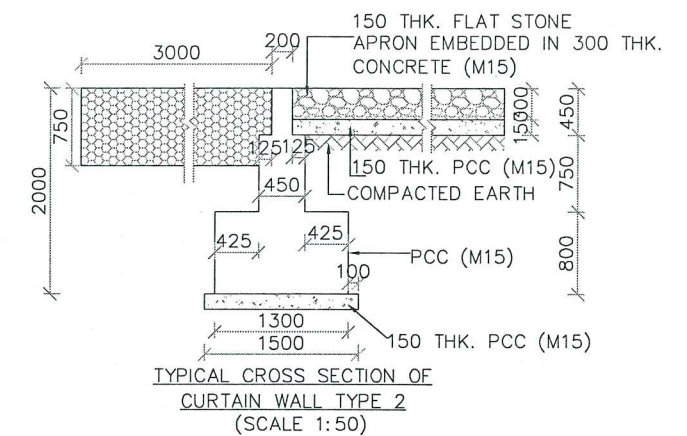
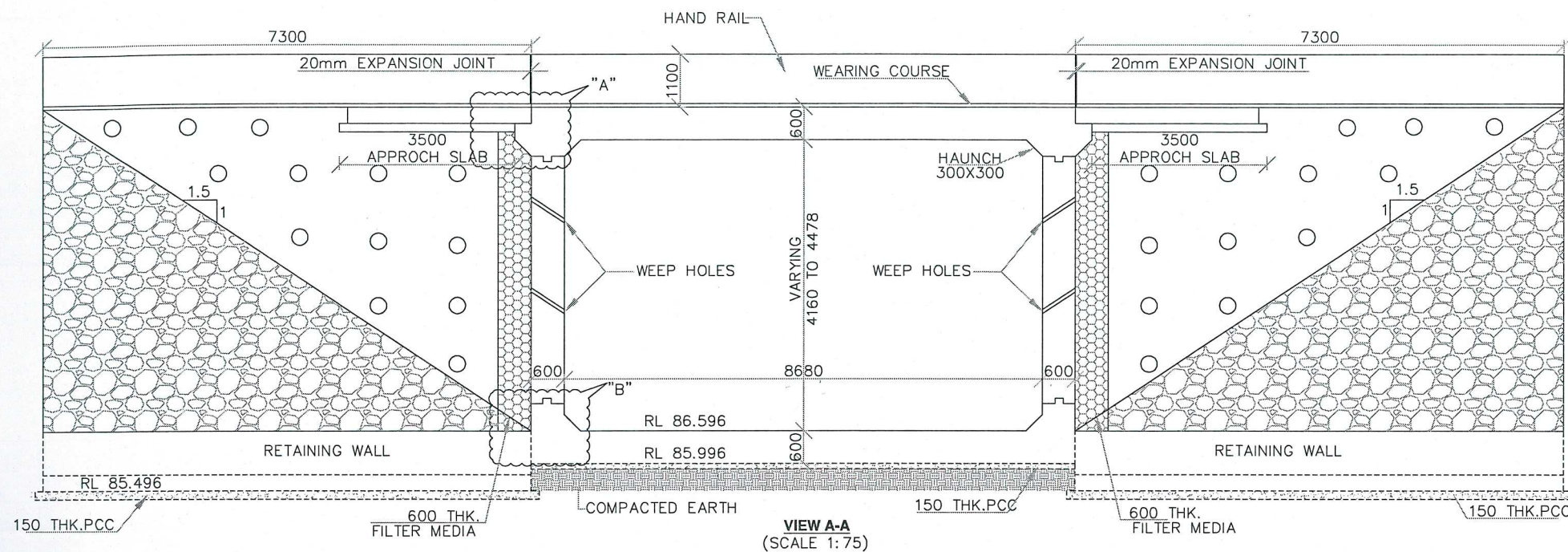


- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES UNLESS OTHERWISE STATED. THE DRAWING SHALL NOT BE SCALED.
  - THE FOLLOWING GRADE OF CONCRETE SHALL BE USED FOR
    - a) RCC BOX - M35
    - b) PCC LEVELLING COURSE - M15
    - c) APPROACH SLAB - M30
    - d) RCC CRASH BARRIER - M40
    - e) RETAINING WALL - M30
  - GRANULAR FILLING MATERIAL CONFORMING TO IRC: 78-2000 SHALL BE USED WHEREVER APPLICABLE.
  - REINFORCEMENT BARS SHALL Fe500 BE HIGH YIELD STRENGTH DEFORMED BARS. 5. WEEP HOLES OF 1000 @1000C/C IS PROVIDED STAGGERED BOTH VERTICALLY AND HORIZONTALLY IN SIDE WALLS & RETAINING / RETURN WALLS
  - WEARING COAT SHALL BE 40mm BC OVER 25mm MASTIC ASPHALT
  - THE FRL, CROSS SLOPE AND LONGITUDINAL GRADIENT SHALL BE VERIFIED WITH APPROVED PLAN & PROFILE DRAWING BEFORE EXECUTION OF WORK.
  - THE SBC AT FOUNDING STRATA IS TAKEN AS 12.0 T/SQ.M AS PER GEOTECH REPORT.
  - THE SOIL STRATA AT THE SITE SHOWS ANY VARIATION FROM THE GIVEN DATA, IT SHALL BE INFORMED TO ENGINEER IN CHARGE.
  - PROPERLY GRADED FILTER MEDIA OF 0.6m THK. SHALL BE PROVIDED BEHIND THE ABUTMENT AND SIDE WALL AS PER IRC 78:2000
  - BACK FILLING BEHIND ABUTMENT AND RETURN WALL SHALL CONSIST OF SELECTED EARTH CONFORMING TO APPENDIX 6 OF IRC 78:2000 HAVING PROPERTIES  $\phi > 30^\circ$ ,  $\gamma = 2.0$  t/cum
  - MINIMUM DEPTH OF EMBEDMENT FOR FOUNDATION IN SOFT ROCK 1.5m AND HARD ROCK 0.6m.
  - ANY DISCREPANCY OBSERVED SHALL BE BROUGHT TO THE NOTICE OF ENGINEER INCHARGE BEFORE EXECUTION
  - FOR DETAILS OF DRAINAGE SPOUTS, CRASH BARRIER WITH SAFETY KERB REFER MISCELLANEOUS DRAWING.
  - SOFT & LOOSE PATCHES IN THE BEARING AREA SHALL BE REPLACED BY COMPACTED GRANULAR FILL & SHALL BE PROPERLY COMPACTED WITH LAYERS NOT EXCEEDING 200mm BEFORE LAYING PCC OVER IT.
  - COMPACTED EARTH SHOULD CONFORM TO CL.305.2.1.5 OF MOST SPECIFICATION.
  - TCS TYPE: REFER FIG.7.2A OF IRC:SP:84-2014

PROJECT	CLIENT	CONTRACTOR	DESIGN CONSULTANT	PROOF CONSULTANT	SAFETY CONSULTANT	AUTHORITY ENGINEER	NAME	SHEET SIZE	TITLE:
FOUR LANE OF JHANJHI TO DEMOW SECTION OF NH-37 FROM EXISTING CH. Km 491+050 TO Km 535+250 (DESIGN CH. Km 490+800 TO Km 534+800) IN THE STATE OF ASSAM UNDER EPC MODE.	National Highways Infrastructure Development Corporation Ltd. Ministry of Road Transport & Highways, Government of India Branch office : House No.1, Panipath, Ambikagiri Nagar , Zoo road, Guwahati-24	Gannan Dunkerley & Co. Ltd. 88A, TOPSIA ROAD (SOUTH) HAUTE STREET, 7th FLOOR KOLKATA - 700046	PROFESSIONAL CIVIL INFRA PVT. LTD. # 1838, GROUND FLOOR, SIR. M VISVESWARAYA LAYOUT, NAGADEVANAHALLI, BANGALORE - 560 056	CHETAN INFRA-TECH CONSULTANTS (P) LTD. 7/1, 1ST FLOOR, 13TH MAIN, SRINAGAR, GUMMAKONDA COLONY, HYDERGUDA, HYDERABAD - 500048	SMART SAFETY SERVICES # 3-5-6, HARI HARA NIVAS, GUMMAKONDA COLONY, HYDERGUDA, HYDERABAD - 500048	VOYANTS SOLUTIONS PVT. LTD. 403, 4th Floor, BRTP Park Centra, Block A, Jal Vayu Vihar, Sector 30, Gurgaon, Haryana 122001	DESIGN DIRECTOR	A2	GENERAL ARRANGEMENT DRAWING OF MINOR BRIDGE AT REVISED DESIGN CH: 490+889
							PROOF CONSULTANT	SCALE	DRAWING No.
							SAFETY CONSULTANT	AS SHOWN	REV.
							AUTHORITY CONSULTANT	SHEET No. 01 OF 02	PCIP/NH-37/J-D/STR/MNB/01 00



## GOOD FOR CONSTRUCTION



REFERENCE DRAWING  
REINFORCEMENT: PCIPL/NH-37/JD/STR/MNB/REIN/01  
MISCELLANEOUS: PCIPL/NH-37/JD/STR/RCC-MIS/01  
RETAINING WALL: PCIPL/NH-37/JD/STR/RW/01

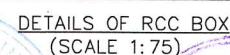
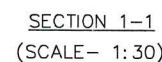
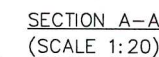
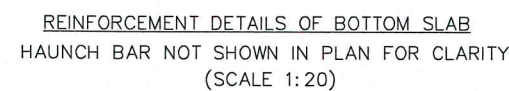
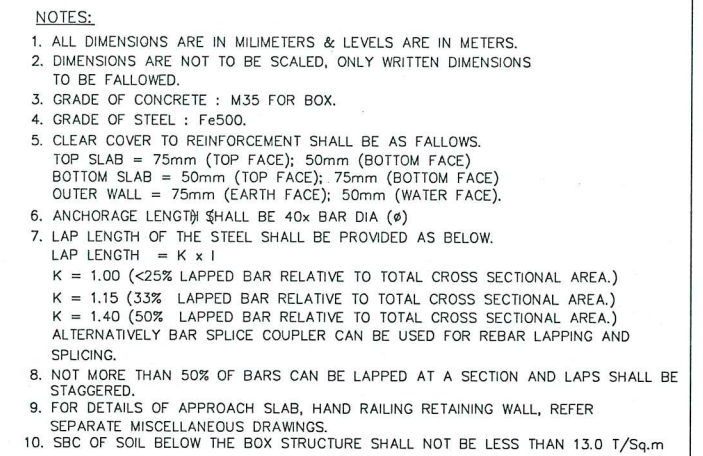
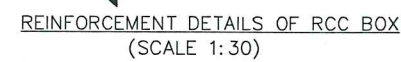
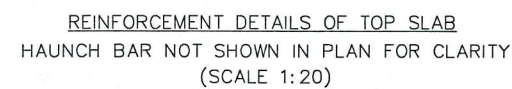
\*WIDENING OF EXISTING BRIDGE IS  
RESTRICTED TO 12 m AS PER SCHEDULE-B

EXISTING CH AS PER SCHEDULE-B :	491+125
DESIGN CH AS PER SCHEDULE-B :	490+875
REVISED DESIGN CH	: 490+889

FOR APPROVAL

<b>PROJECT</b> FOUR LANING OF JHANJHI TO DEMOW SECTION OF NH-37 FROM EXISTING CH. Km 491+050 TO Km 535+250 (DESIGN CH. Km 490+800 TO Km 534+800) IN THE STATE OF ASSAM UNDER EPC MODE.	<b>CLIENT</b> National Highways Infrastructure Development Corporation Ltd.  Ministry of Road Transport & Highways, Government of India Branch office : House No.1, Panipath, Ambikagiri Nagar , Zoo road, Guwahati-24	<b>CONTRACTOR</b>  Gannong Dunckerley & Co. Ltd. 86A TOPSIA ROAD (SOUTH) HAUTE STREET, 7th FLOOR KOLKATA - 700046	<b>DESIGN CONSULTANT</b>  PROFESSIONAL CIVIL INFRA PVT. LTD. # 1838, GROUND FLOOR, SIR. M VISVESWARAYA LAYOUT, NAGADEVANAHALLI, BANGALORE - 560 056	<b>PROOF CONSULTANT</b>  CHETAN INFRA-TECH CONSULTANTS (P) LTD., 7/11, 1ST FLOOR, 13TH MAIN, SRINAGAR, OPP.PES COLLEGE, BENGALURU-560050	<b>SAFETY CONSULTANT</b>  SMART SAFETY SERVICES # 3-5, 7, HARI HARA NIVAS, GULSHANKONDA COLONY, HYDERGUDA - 500048 CRSA/2016/11	<b>AUTHORITY ENGINEER</b>  VOYANTS SOLUTIONS PVT. LTD. 403, 4th Floor, BPTP Park Centra, Block A, Jal Vayu Vihar, Sector 30, Gurgaon, Haryana 122001	DESIGN DIRECTOR	NAME	SHEET SIZE	TITLE: GENERAL ARRANGEMENT DRAWING OF MINOR BRIDGE AT REVISED DESIGN CH: 490+889 DRAWING No. PCIPL/NH-37/J-D/STR/MNB/01	REV. 00
							PROOF CONSULTANT	SCALE	A2		
							SAFETY CONSULTANT	AS SHOWN			
							AUTHORITY CONSULTANT	SHEET No.	02 OF 02		





VASANTH KUMAR T.H.

EXISTING CH (SCH-B) : 491+125  
DESIG CH (SCH-B) : 490+875  
REVISED DESIGN CH : 490+889


SCHEDULE OF REINFORCEMENT			
BAR MARK	SHAPE OF BARS (NOT TO SCALE)	BAR DIA IN mm	SPACING OR NO. OF BAR
1		12	100 C/C
2		12	100 C/C
3		12	100 C/C
4		12	100 C/C
5		16	125 C/C
5A		12	125 C/C
6		12	125 C/C
7		12	125 C/C
8		12	100 C/C
9		12	200 C/C
10		12	200 C/C
11		12	200 C/C
12		12	200 C/C
13		12	200 C/C
14		12	16 NOS.
15		12	200 C/C
16		12	10 NOS.
17		12	250
18		NOT USED	
19		12	16 NOS.
20		12	150
21		12	20 NOS.
22		4 LEGGED BAR LINKS OF 10 @ 200 MM C/C	

FOR APPROVAL

PROJECT	FOUR LANING OF JHANJHI TO DEMOW SECTION OF NH-37 FROM EXISTING CH. Km 491+050 TO Km 535+250 (DESIGN CH. Km 490+800 TO Km 534+800) IN THE STATE OF ASSAM UNDER EPC MODE.
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**CLIENT**

National Highways infrastructure  
Development Corporation Ltd.



Ministry of Road Transport &  
Highways, Government of India  
Branch office : House No.1, Panipath,  
Ambikagiri Nagar , Zoo road,  
Guwahati-24

**CONTRACTOR**

 Gannon Dunkerley & Co. Ltd.  
86A, TOPSIA ROAD (SOUTH)  
HAUTE STREET, 7th FLOOR  
KOL KATA - 700046

**DESIGN CONSULTANT**

**PROFESSIONAL CIVIL INFRA PVT. LTD.**

 # 1838, GROUND FLOOR,  
SIR. M.VISVESWARAYA LAYOUT,  
NAGADEVANAHALLI,  
BANGALORE - 560 056

**PROOF CONSULTANT**  
**CHETAN INFRA-TECH**  
**CONSULTANTS (P) LTD.,**

 7/11, 1ST FLOOR,  
13TH MAIN, SRINAGAR,  
OPP.PES COLLEGE,  
BENGALURU-560050

**SAFETY CONSULTANT**  
**SMART SAFETY SERVICES**

 # 3-5-6 & 7, HARI HARA NIVAS  
GUMMAKONDA COLONY,  
HYDERABAD,  
HYDERABAD - 500048

**AUTHORITY ENGINEER**

**VOYANTS SOLUTIONS PVT. LTD.**

 403, 4th Floor, BPTP Park  
Centra, Block A, Jai Vayu  
Vihar, Sector 30,  
Gurgaon, Haryana 122001

		NAME	SHEET SIZE
	DESIGN DIRECTOR		A2
	PROOF CONSULTANT		SCALE
	SAFETY CONSULTANT		AS SHOWN
	AUTHORITY CONSULTANT		SHEET No.
			01 OF 01

TITLE:	
REINFORCEMENT DETAILS OF MINOR BRIDGE (WIDENING) AT REVISED DESIGN CHAINAGE 490+889	
DRAWING No.	REV.
PCIPL/NH-37/JD/STR/MNB/REIN/01	00