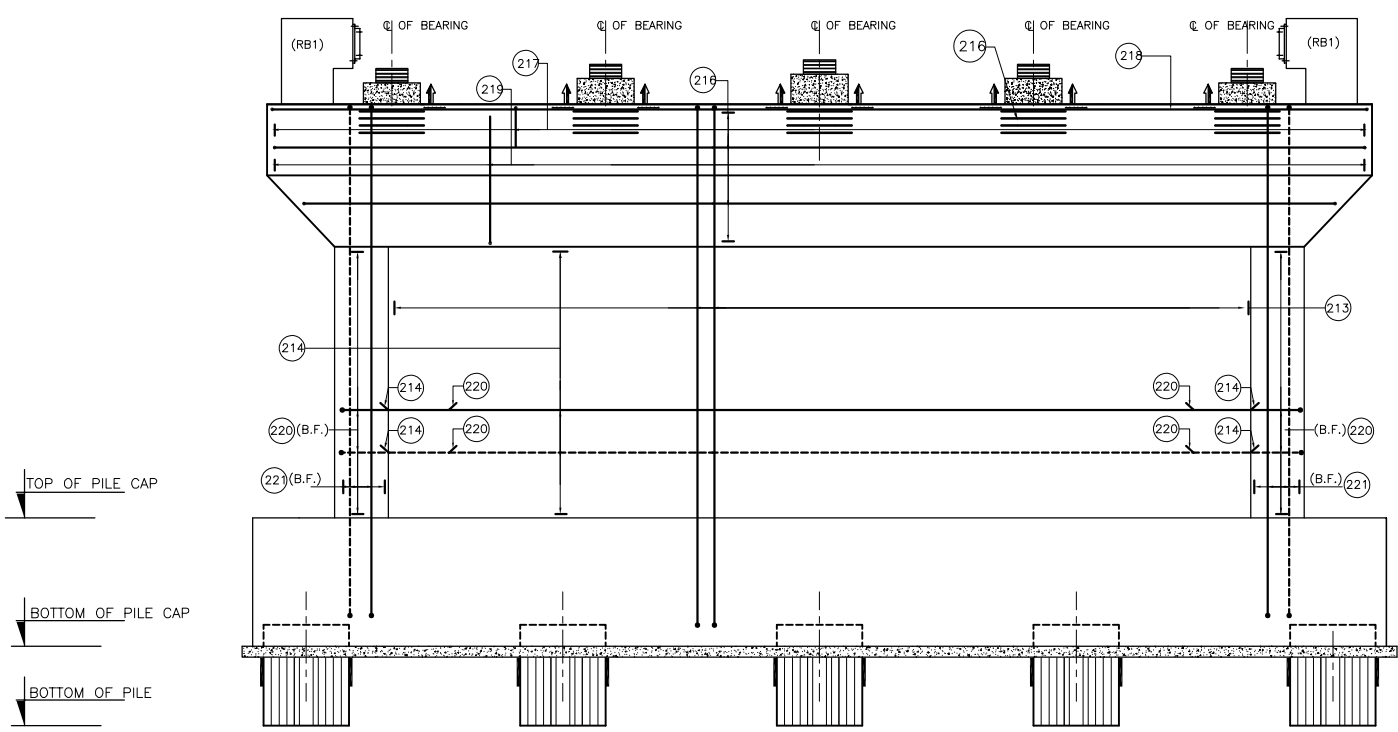
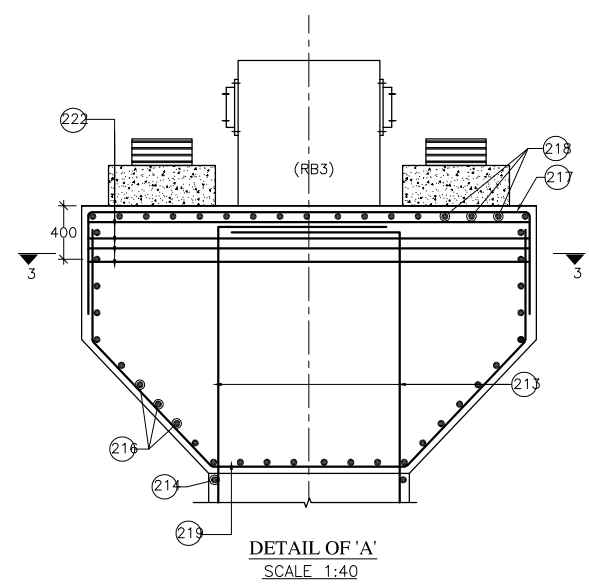


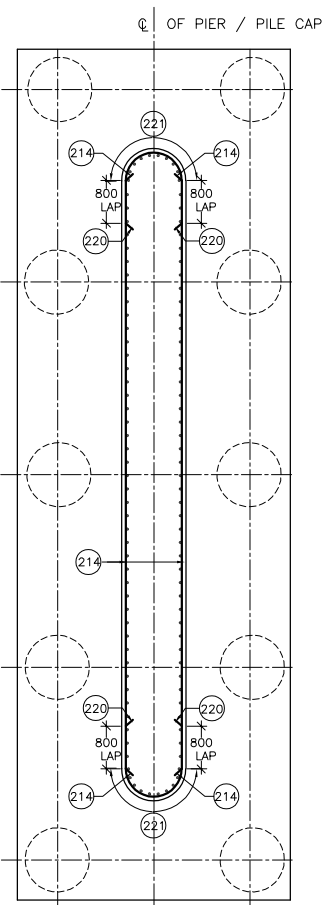
REINFORCEMENT DETAIL OF PIER  
SCALE 1:75



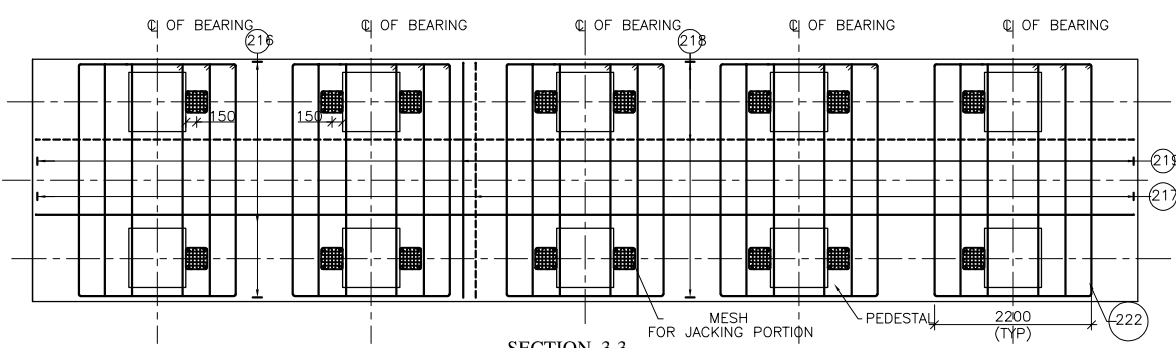
SECTION ON 1-1  
SCALE 1:75



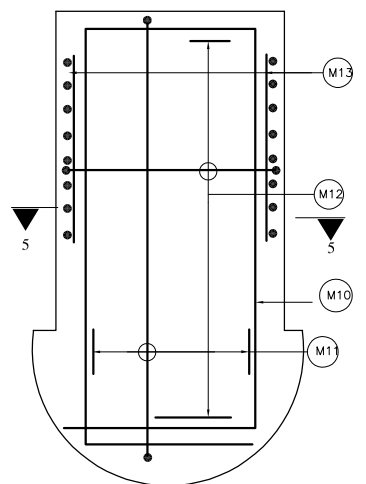
DETAIL OF 'A'  
SCALE 1:40



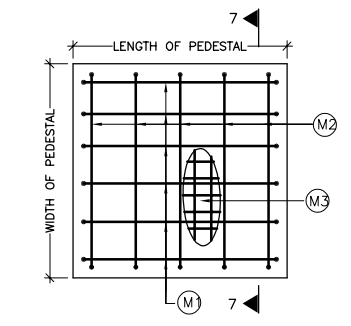
SECTION ON 2-2  
SCALE 1:100



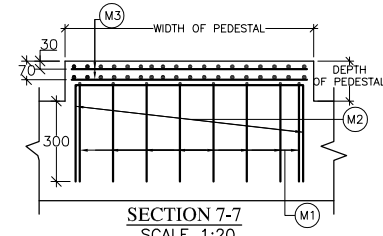
SECTION 3-3  
SCALE 1:75



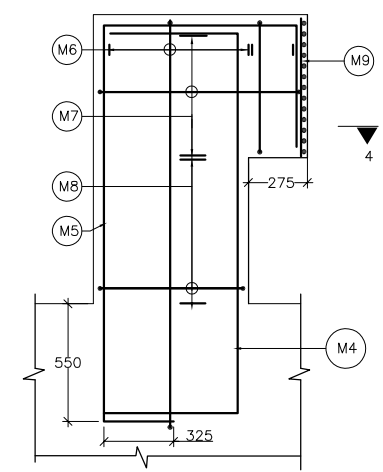
R.C.C DETAIL OF SEISMIC  
REACTION BLOCK TYPE RB-3  
SCALE 1:15



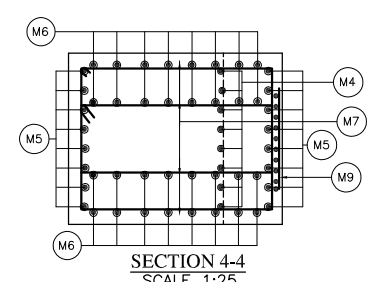
PLAN SHOWING PEDESTAL REINF.  
SCALE 1:20



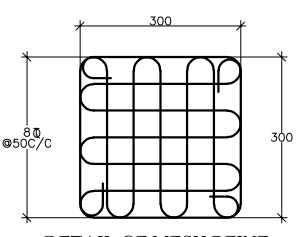
SECTION 7-7  
SCALE 1:20



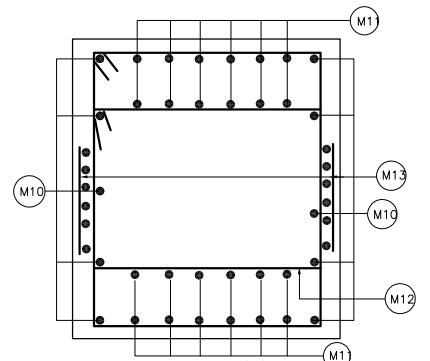
RCC DETAIL OF SEISMIC  
REACTION BLOCK TYPE RB-1  
SCALE 1:25



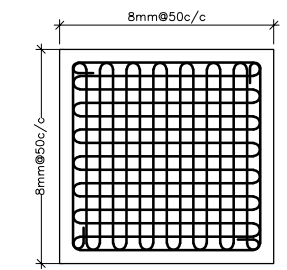
SECTION 4-4  
SCALE 1:25



DETAIL OF MESH REINF.  
(FOR JACKING POSITION)  
SCALE 1:10



SECTION 5-5  
SCALE 1:15



DETAIL OF MESH REINF.  
(MKD. M3)  
SCALE 1:20

REINFORCEMENT SCHEDULE OF PIER			
BAR MKD.	DIA. OF BARS (mm)	SPACING (mm)	REMARKS
213	32	150 C/C	
214	16	150 C/C	
215	10	250 C/C	HORIZONTALLY & VERTICALLY IN A STAGGERED MANNER
216	12	125 C/C	
217	25	125 C/C	
218	25	125 C/C	
219	12	125 C/C	
220	16	150 C/C	
221	32	150 C/C	
222	12	6 LEGGED STP. IN 4 LAYERS 2200mm WIDTH	
M1	16	150 C/C	
M2	16	150 C/C	
M3	8	50 C/C	2 LAYERS
M4	32	8 NOS.	
M5	25	8 NOS.	
M6	12	9 NOS.	4 LEGGED
M7	12	5 NOS.	4 LEGGED
M8	12	4 NOS.	4 LEGGED
M9	8	50 C/C	
M10	32	5 NOS.	
M11	12	6 NOS.	4 LEGGED
M12	12	8 NOS.	4 LEGGED
M13	8	50 C/C	

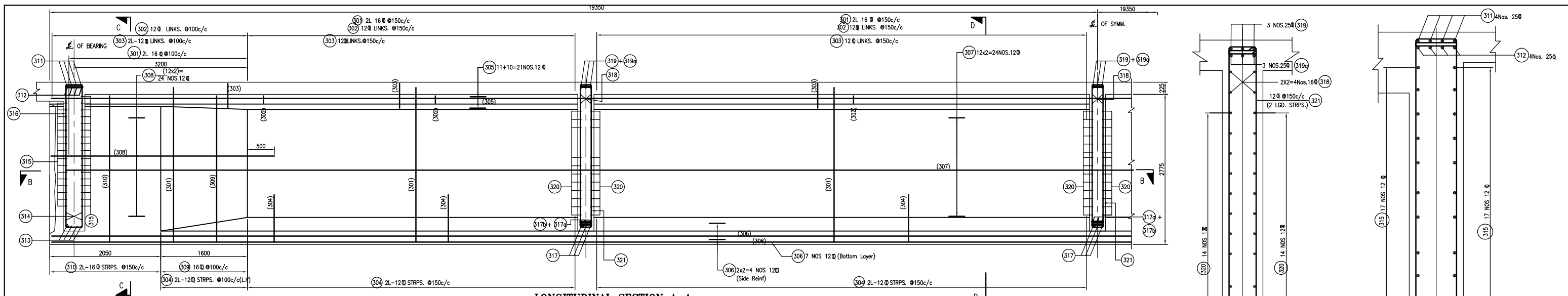
208 TO 212 MKD. BARS ARE NOT USED

LEGEND:-  
REAR FACE / TOP BAR -----  
FRONT FACE / BOTTOM BAR \_\_\_\_\_

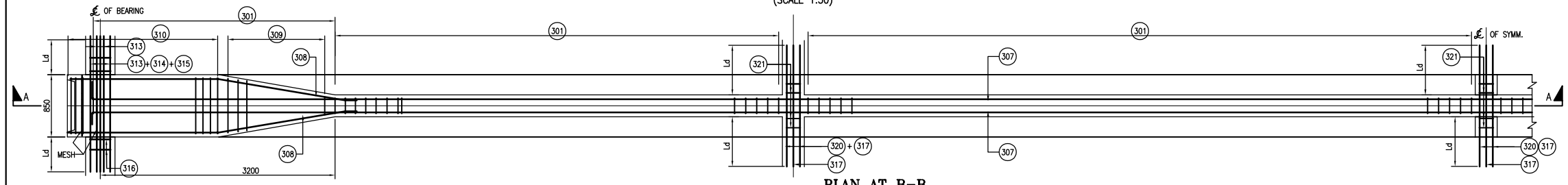
- NOTES:-
- ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.
  - GRADE OF CONCRETE USED :-  
(i) PIER & PIER CAP = M30,  
(ii) ALL REINFORCING STEEL SHALL BE OF HYSD BARS (GRADE DESIGNATION FE-500) CONFORMING TO IS: 1786. (CLEAR COVER = 50MM. FOR SUBSTRUCTURE.
  - MINIMUM LAP LENGTH FOR REINFORCEMENT BARS SHALL BE AS PER SECTION 15, IRC:112-2011. LAP SHALL BE STAGGERED AND NOT MORE THAN 50% BARS SHALL BE LAPPED AT ANY SECTION.
  - LAP SPLICES SHALL BE PROVIDED ONLY IN THE CENTRAL HALF OF THE MAIN BAR LENGTH, NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED AT ONE SECTION.
  - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH :  
CET/BDG/2015/3580/NH-208/FDPR/MJ/GA (SHEET NO. 01 TO 06)  
CET/BDG/2015/3580/NH-208/FDPR/MJ/RCC (SHEET NO. 01 TO 04, 06 & 07)  
CET/BDG/2015/3580/NH-208/FDPR/MJ/MISC. (SHEET NO. 01 OF 01)

MKD.	DATE	DESCRIPTION	CHKD.	APPRD.
REVISIONS				

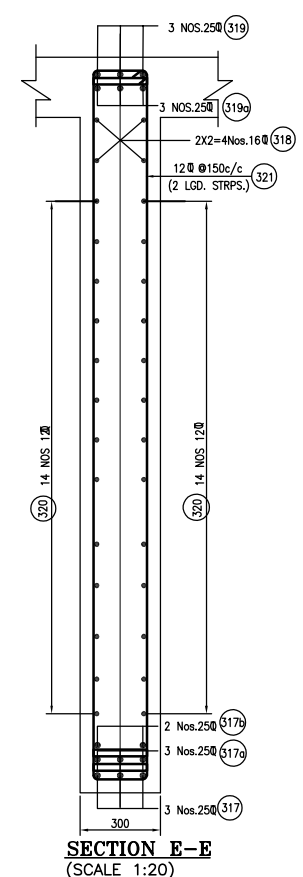
SCALE: AS SHOWN	CLIENT: Public Works Department Government of Tripura	National Highways & Infrastructure Development Corporation Ltd.	REINFORCEMENT DETAILS OF PIER, PIER CAP AND REACTION BLOCK	CONSULTANT : <b>CETEST</b> Engineering Consultants An ISO 9001, 14001 & OHSAS 18001 Certified Company	Dwg. No. CET/BDG/2015/3580/NH-208/FDPR/MJ/RCC	Revision Mkd. - R0	Sheet No. - 05 of 07
DATE: Nov, 2019	PROJECT: Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening to Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)	ROAD NAME: Kailashahar to Teliamura Section of NH-208 Package-VI (Km 101+300 to Km 127+319)	124-A, N.S.C. Bose Road Kolkata - 700092.	Drawn By. R.Patra	Design By. A.Mukherjee	Checked By. A. Dey	Approved By. B.Koner



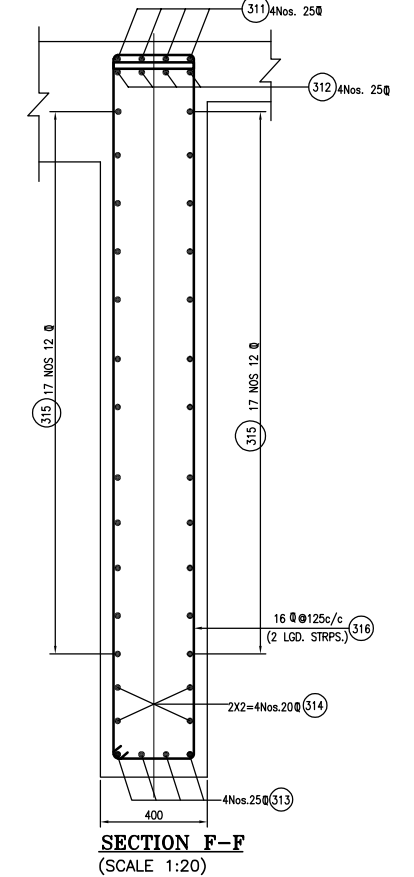
**LONGITUDINAL SECTION A-A**  
(DECK SLAB REINFORCEMENT NOT SHOWN FOR CLARITY)  
(SCALE 1:50)



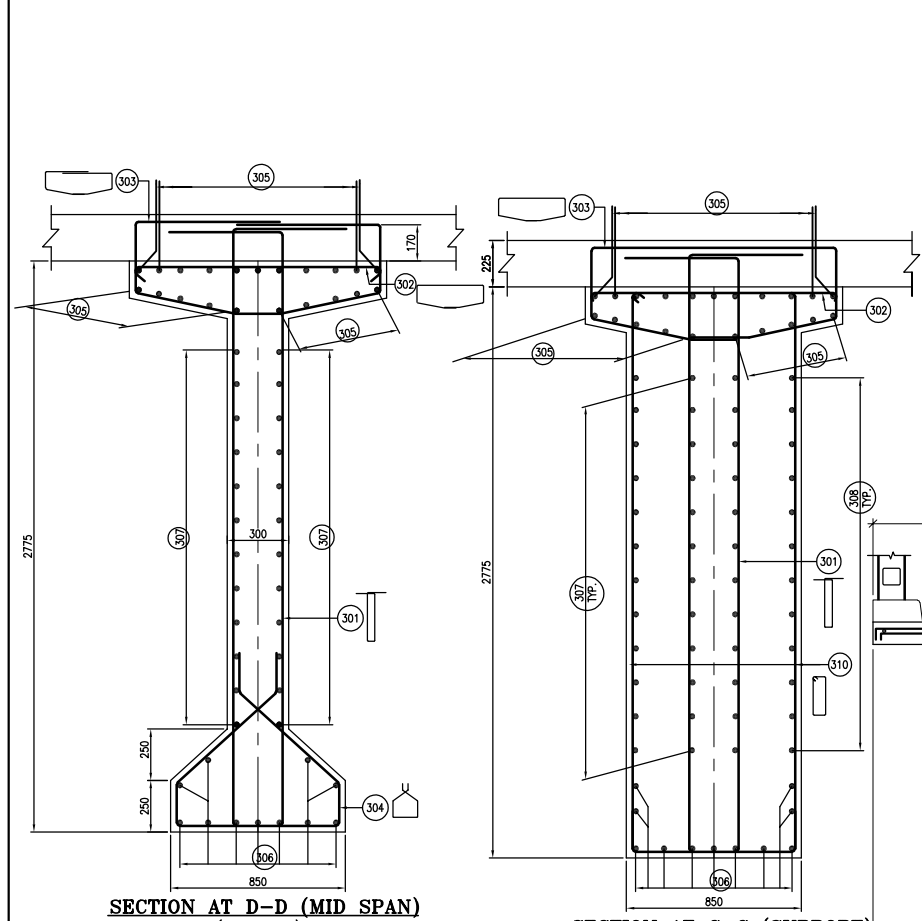
**PLAN AT B-B**  
(SCALE 1:50)



**SECTION E-E**  
(SCALE 1:20)

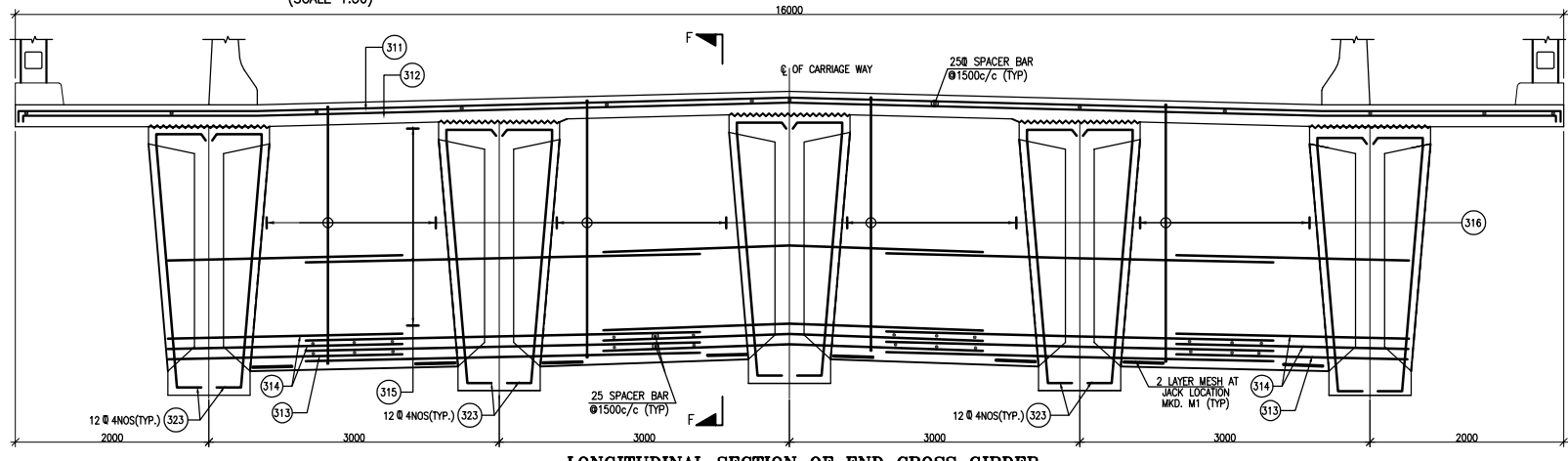


**SECTION F-F**  
(SCALE 1:20)

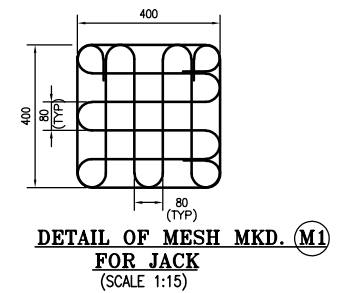


**SECTION AT D-D (MID SPAN)**  
(SCALE 1:25)

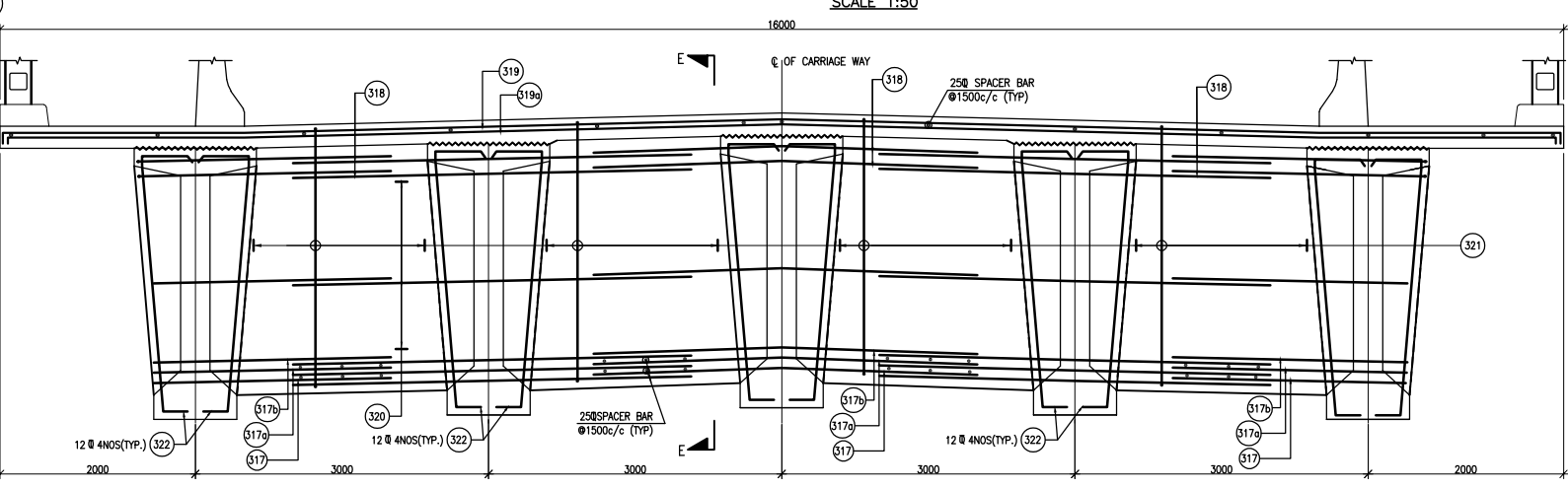
**SECTION AT C-C (SUPPORT)**  
(SCALE 1:25)



**LONGITUDINAL SECTION OF END CROSS GIRDER**  
SCALE 1:50



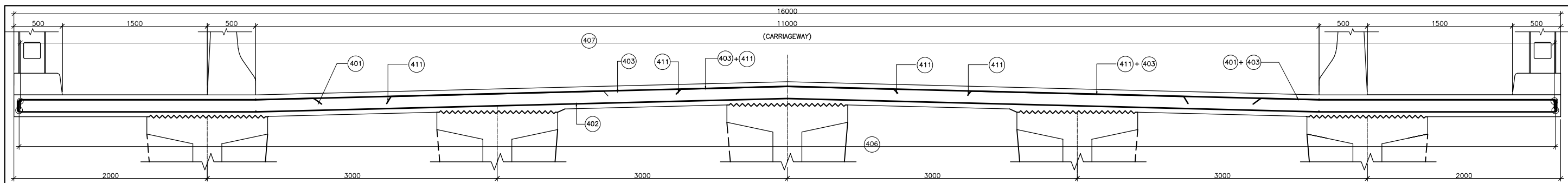
**DETAIL OF MESH MKD. (M1)**  
**FOR JACK**  
(SCALE 1:15)



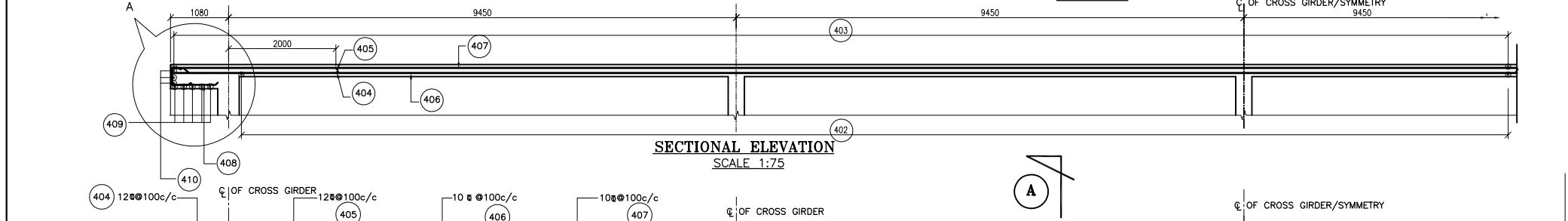
**LONGITUDINAL SECTION OF INTERMEDIATE CROSS GIRDER**  
SCALE 1:50

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
  2. DIMENSIONS ARE NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE READ.
  3. SPLICING OF REINFORCEMENTS SHALL BE AVOIDED AS FAR AS PRACTICABLE. IN CASE SPLICING OF BARS BECOME UNAVOIDABLE THE ARRANGEMENT SHALL CONFORM TO IRC:2012-2011.
  4. GRADE OF CONCRETE:-  
PSC I-GIRDER & CROSS GIRDER M-45.
  5. CLEAR COVER:-  
PSC I-GIRDER & CROSS GIRDER 40mm.
  6. STEEL USED SHALL BE H.Y.S.D. BARS CONFORMING TO IS:1786 OF GRADE Fe-500.
  7. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO. CET/BDG/2015/3580/NH-208/FDPR/MJ/GA (SHEET NO. 01 TO 06)  
CET/BDG/2015/3580/NH-208/FDPR/MJ/RCC (SHEET NO. 01 TO 05 & 07)  
CET/BDG/2015/3580/NH-208/FDPR/MJ/MISC (SHEET NO. 01 OF 01)

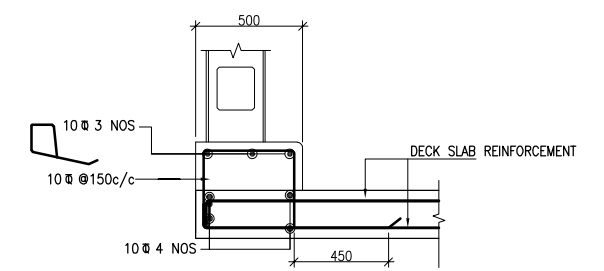
SCALE: AS SHOWN					CLIENT: Public Works Department Government of Tripura		National Highways & Infrastructure Development Corporation Ltd.		REINFORCEMENT DETAILS OF LONGITUDINAL AND CROSS GIRDER		CONSULTANT : <b>CETEST</b> CE TESTING COMPANY PVT. LTD. Engineering Consultants An ISO 9001, 14001 & OHSAS 18001 Certified Company 124-A, N.S.C. Bose Road Kolkata - 700092.		Dwg. No. CET/BDG/2015/3580/NH-208/FDPR/MJ/RCC		
DATE: Nov, 2019					PROJECT: Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening to Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)							Revision Mkd. - R0		Sheet No. - 06 of 07	
ROAD NAME: Kailashahar to Teliamura Section of NH-208 Package-VI (Km 101+300 to Km 127+319)					Drawn By. R.Patra		Design By. A.Mukherjee		Checked By. A. Dey		Approved By. B.Koner				
REVISIONS															



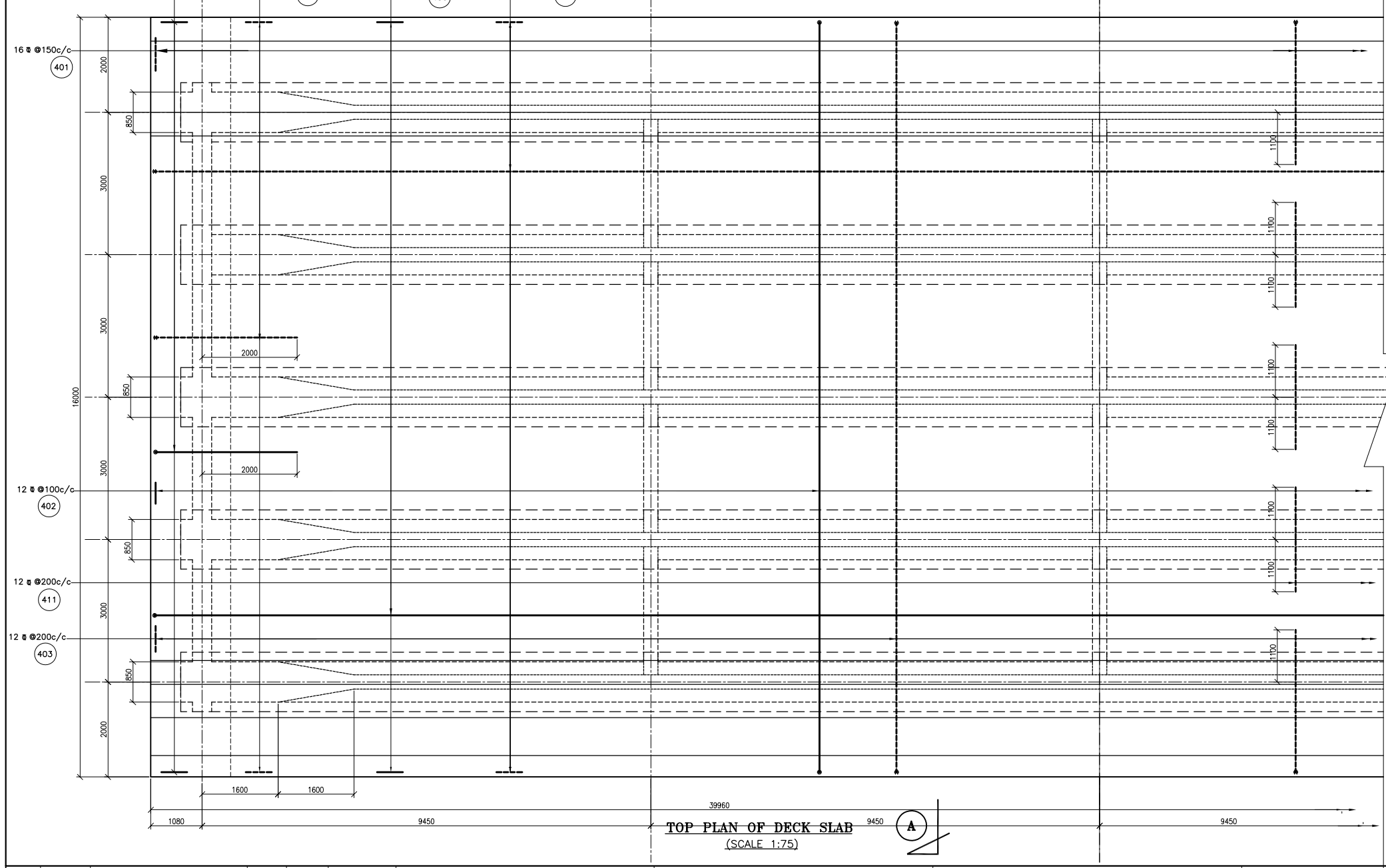
**SECTION A-A**  
SCALE 1:30



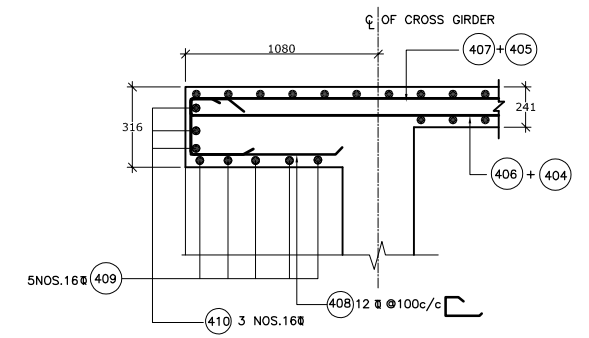
**SECTIONAL ELEVATION**  
SCALE 1:75



**REINFORCEMENT DETAILS OF KERB**  
SCALE : 1:25



**TOP PLAN OF DECK SLAB**  
(SCALE 1:75)



**DETAIL-A**  
SCALE 1:30

**LEGEND:-**

REAR FACE BAR/TOP BAR	-----
FRONT FACE BAR/BOTTOM BAR	—————

- NOTES :-**
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
  - GRADE OF CONCRETE = M-40.
  - CLEAR COVER = 40 MM.
  - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO: CET/BDG/2015/3580/NH-208/FDPR/MJ/GA (SHEET NO. 01 TO 06) CET/BDG/2015/3580/NH-208/FDPR/MJ/RCC (SHEET NO. 01 TO 06) CET/BDG/2015/3580/NH-208/FDPR/MJ/MISC (SHEET NO. 01 OF 01)

MKD.	DATE	DESCRIPTION	CHKD.	APPRD.
REVISIONS				

SCALE: AS SHOWN  
DATE: Nov, 2019

CLIENT: Public Works Department  
Government of Tripura

National Highways & Infrastructure  
Development Corporation Ltd.

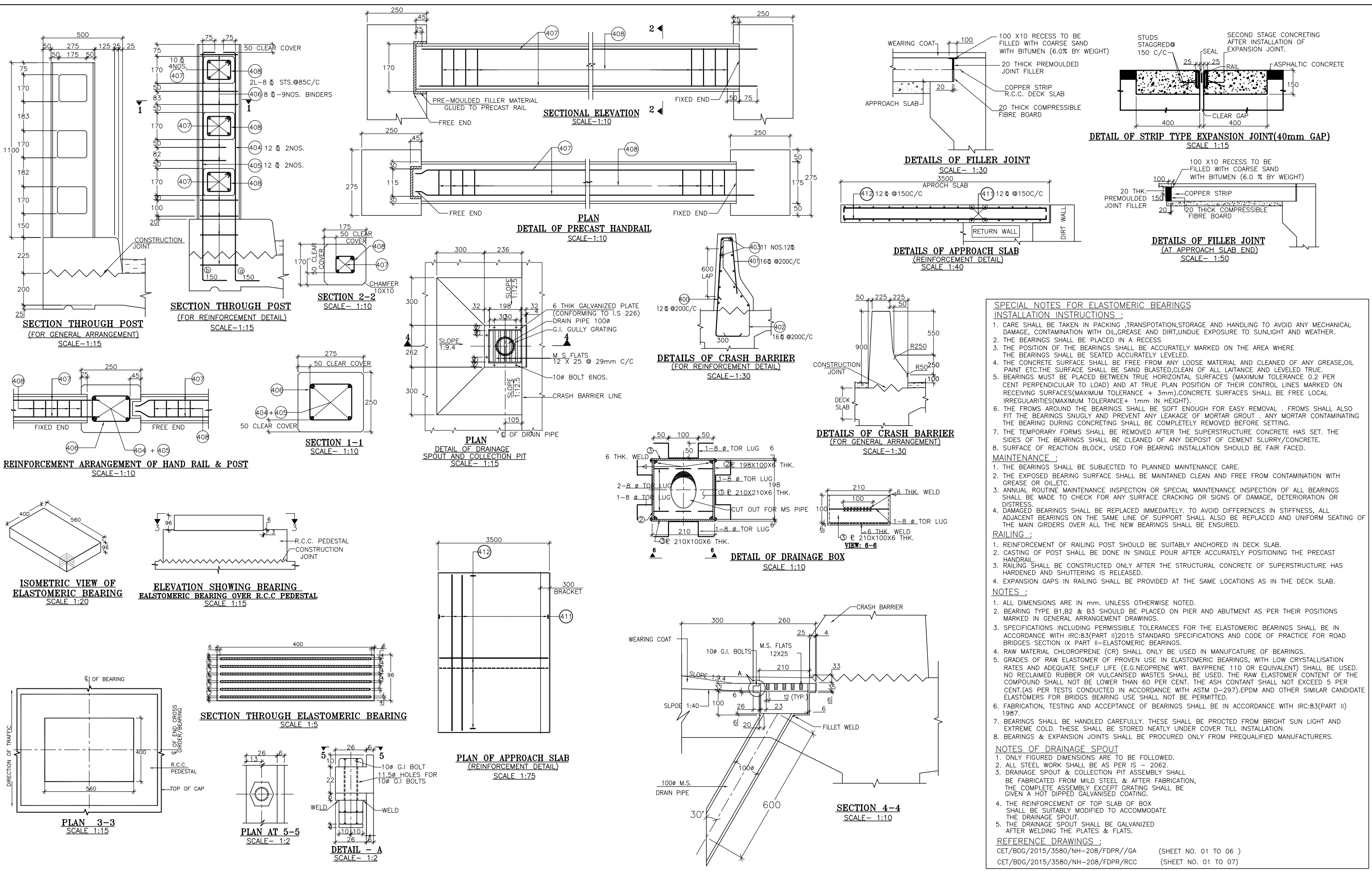
PROJECT: Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening to Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)

ROAD NAME: Kailashahar to Teliamura Section of NH-208  
Package-VI (Km 101+300 to Km 127+319)

REINFORCEMENT DETAILS OF DECK SLAB

CONSULTANT : **CETEST** CE TESTING COMPANY PVT. LTD.  
124-A, N.S.C. Bose Road  
Kolkata - 700092.

Dwg. No. CET/BDG/2015/3580/NH-208/FDPR/MJ/RCC	Revision Mkd. - R0	Sheet No. - 07 of 07
Drawn By. R.Patra	Design By. A.Mukherjee	Checked By. A. Dey
		Approved By. B.Koner



**SPECIAL NOTES FOR ELASTOMERIC BEARINGS INSTALLATION INSTRUCTIONS :**

- CARE SHALL BE TAKEN IN PACKING, TRANSPORTATION, STORAGE AND HANDLING TO AVOID ANY MECHANICAL DAMAGE, CONTAMINATION WITH OIL, GREASE AND DIRT, UNDESIRABLE EXPOSURE TO SUNLIGHT AND WEATHER.
- THE BEARINGS SHALL BE PLACED IN A RECESS
- THE POSITION OF THE BEARINGS SHALL BE ACCURATELY MARKED ON THE AREA WHERE THE BEARINGS SHALL BE SEATED ACCURATELY LEVELED.
- THE CONCRETE SURFACE SHALL BE FREE FROM ANY LOOSE MATERIAL AND CLEANED OF ANY GREASE, OIL PAINT ETC. THE SURFACE SHALL BE SAND BLASTED, CLEAN OF ALL LAITANCE AND LEVELED TRUE.
- BEARINGS MUST BE PLACED BETWEEN TRUE HORIZONTAL SURFACES (MAXIMUM TOLERANCE 0.2 PER CENT PERPENDICULAR TO LOAD) AND AT TRUE PLAN POSITION OF THEIR CONTROL LINES MARKED ON RECEIVING SURFACES (MAXIMUM TOLERANCE + 3mm). CONCRETE SURFACES SHALL BE FREE LOCAL IRREGULARITIES (MAXIMUM TOLERANCE + 1mm IN HEIGHT).
- THE FORMS AROUND THE BEARINGS SHALL BE SOFT ENOUGH FOR EASY REMOVAL. FORMS SHALL ALSO FIT THE BEARINGS SNUGLY AND PREVENT ANY LEAKAGE OF MORTAR GROUT. ANY MORTAR CONTAMINATING THE BEARING DURING CONCRETING SHALL BE COMPLETELY REMOVED BEFORE SETTING.
- THE TEMPORARY FORMS SHALL BE REMOVED AFTER THE SUPERSTRUCTURE CONCRETE HAS SET. THE SIDES OF THE BEARINGS SHALL BE CLEANED OF ANY DEPOSIT OF CEMENT SLURRY/CONCRETE.
- SURFACE OF REACTION BLOCK, USED FOR BEARING INSTALLATION SHOULD BE FAIR FACED.

**MAINTENANCE :**

- THE BEARINGS SHALL BE SUBJECTED TO PLANNED MAINTENANCE CARE.
- THE EXPOSED BEARING SURFACE SHALL BE MAINTAINED CLEAN AND FREE FROM CONTAMINATION WITH GREASE OR OIL, ETC.
- ANNUAL ROUTINE MAINTENANCE INSPECTION OR SPECIAL MAINTENANCE INSPECTION OF ALL BEARINGS SHALL BE MADE TO CHECK FOR ANY SURFACE CRACKING OR SIGNS OF DAMAGE, DETERIORATION OR DISTRESS.
- DAMAGED BEARINGS SHALL BE REPLACED IMMEDIATELY. TO AVOID DIFFERENCES IN STIFFNESS, ALL ADJACENT BEARINGS ON THE SAME LINE OF SUPPORT SHALL ALSO BE REPLACED AND UNIFORM SEATING OF THE MAIN GIRDERS OVER ALL THE NEW BEARINGS SHALL BE ENSURED.

**RAILING :**

- REINFORCEMENT OF RAILING POST SHOULD BE SUITABLY ANCHORED IN DECK SLAB.
- CASTING OF POST SHALL BE DONE IN SINGLE POUR AFTER ACCURATELY POSITIONING THE PRECAST HANDRAIL.
- RAILING SHALL BE CONSTRUCTED ONLY AFTER THE STRUCTURAL CONCRETE OF SUPERSTRUCTURE HAS HARDENED AND SHUTTERING IS RELEASED.
- EXPANSION GAPS IN RAILING SHALL BE PROVIDED AT THE SAME LOCATIONS AS IN THE DECK SLAB.

**NOTES :**

- ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE NOTED.
- BEARING TYPE B1, B2 & B3 SHOULD BE PLACED ON PIER AND ABUTMENT AS PER THEIR POSITIONS MARKED IN GENERAL ARRANGEMENT DRAWINGS.
- SPECIFICATIONS INCLUDING PERMISSIBLE TOLERANCES FOR THE ELASTOMERIC BEARINGS SHALL BE IN ACCORDANCE WITH IRC:83(PART II) 2015 STANDARD SPECIFICATIONS AND CODE OF PRACTICE FOR ROAD BRIDGES SECTION IX PART II-ELASTOMERIC BEARINGS.
- RAW MATERIAL CHLOROPRENE (CR) SHALL ONLY BE USED IN MANUFACTURE OF BEARINGS.
- GRADES OF RAW ELASTOMER OF PROVEN USE IN ELASTOMERIC BEARINGS, WITH LOW CRYSTALLISATION RATES AND ADEQUATE SHELF LIFE (E.G. NEOPRENE WRT. BAYPRENE 110 OR EQUIVALENT) SHALL BE USED. NO RECLAIMED RUBBER OR VULCANIZED WASTES SHALL BE USED. THE RAW ELASTOMER CONTENT OF THE COMPOUND SHALL NOT BE LOWER THAN 60 PER CENT. THE ASH CONTENT SHALL NOT EXCEED 5 PER CENT. (AS PER TESTS CONDUCTED IN ACCORDANCE WITH ASTM D-297). EPDM AND OTHER SIMILAR CANDIDATE ELASTOMERS FOR BRIDGE BEARING USE SHALL NOT BE PERMITTED.
- FABRICATION, TESTING AND ACCEPTANCE OF BEARINGS SHALL BE IN ACCORDANCE WITH IRC:83(PART II) 1987.
- BEARINGS SHALL BE HANDLED CAREFULLY. THESE SHALL BE PROTECTED FROM BRIGHT SUN LIGHT AND EXTREME COLD. THESE SHALL BE STORED NEATLY UNDER COVER TILL INSTALLATION.
- BEARINGS & EXPANSION JOINTS SHALL BE PROCURED ONLY FROM QUALIFIED MANUFACTURERS.

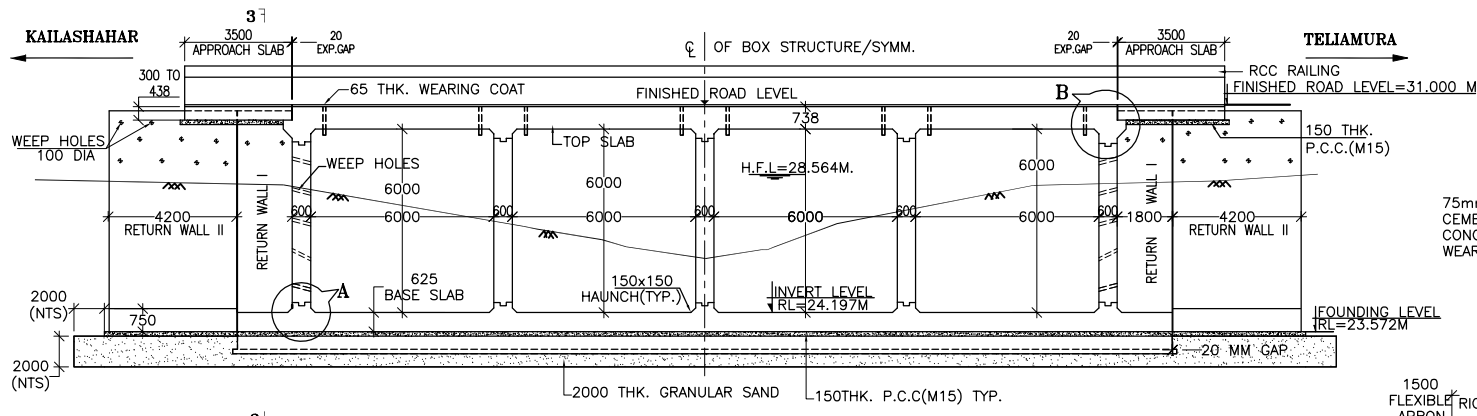
**NOTES OF DRAINAGE SPOUT**

- ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED.
- ALL STEEL WORK SHALL BE AS PER IS - 2062.
- DRAINAGE SPOUT & COLLECTION PIT ASSEMBLY SHALL BE FABRICATED FROM MILD STEEL & AFTER FABRICATION, THE COMPLETE ASSEMBLY EXCEPT GRATING SHALL BE GIVEN A HOT DIPPED GALVANIZED COATING.
- THE REINFORCEMENT OF TOP SLAB OF BOX SHALL BE SUITABLY MODIFIED TO ACCOMMODATE THE DRAINAGE SPOUT.
- THE DRAINAGE SPOUT SHALL BE GALVANIZED AFTER WELDING THE PLATES & FLATS.

**REFERENCE DRAWINGS :**

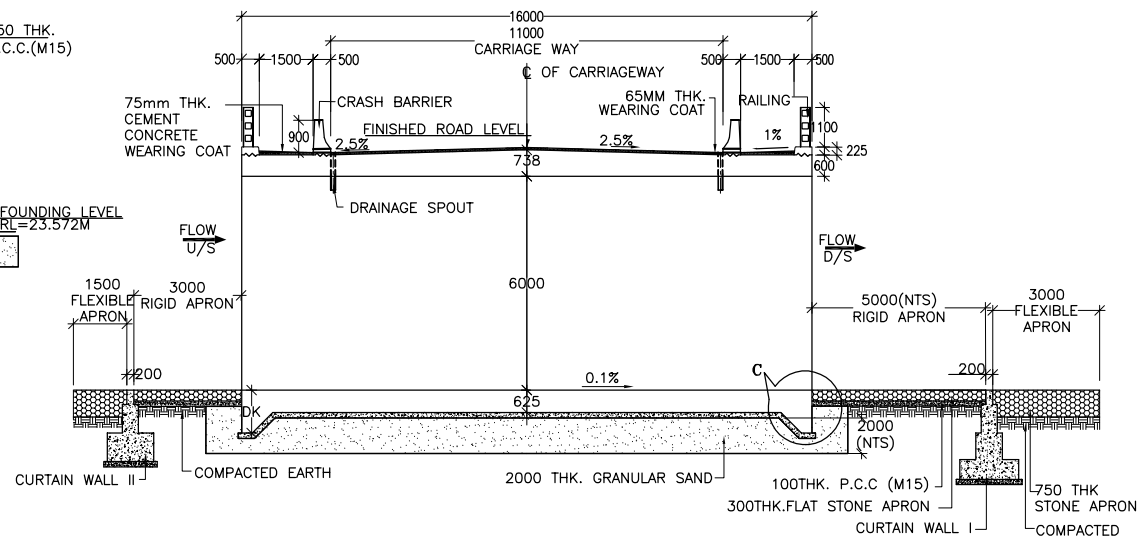
CET/BDG/2015/3580/NH-208/FDPR/GA (SHEET NO. 01 TO 06 )  
 CET/BDG/2015/3580/NH-208/FDPR/RCC (SHEET NO. 01 TO 07)

SCALE: AS SHOWN					CLIENT: Public Works Department Government of Tripura		National Highways & Infrastructure Development Corporation Ltd.		MISCELLANEOUS DETAILS		CONSULTANT : <b>CETEST</b> Engineering Consultants An ISO 9001, 14001 & OHSAS 18001 Certified Company		Dwg. No. CET/BDG/2015/3580/NH-208/FDPR/MJ/MISC	
DATE: Nov, 2019					PROJECT: Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening to Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)		ROAD NAME: Kailashahar to Teliamura Section of NH-208		Package-VI (Km 101+300 to Km 127+319)		124-A, N.S.C. Bose Road Kolkata - 700092.		Revision Mkd. - R0 Sheet No. - 01 of 01	
REVISIONS											Drawn By. S. Dalui		Design By. - Checked By. A. Dey Approved By. B. Koner	



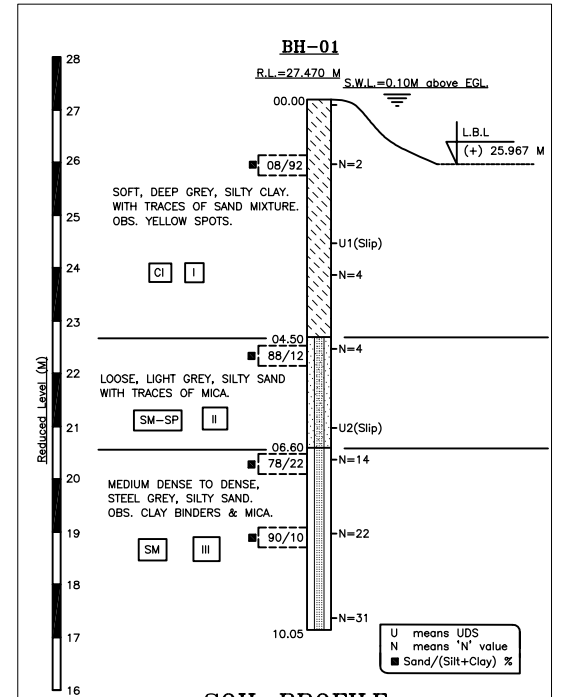
Elevation in Metre	13.781	26.375	5.929	27.014	5.620	26.929	3.368	26.591	2.597	26.348	0.000	25.967	2.018	26.253	4.297	27.106	10.745	28.361	16.679	28.564
Offset in Metre																				

**SECTION 2-2**  
(SCALE-1:175)

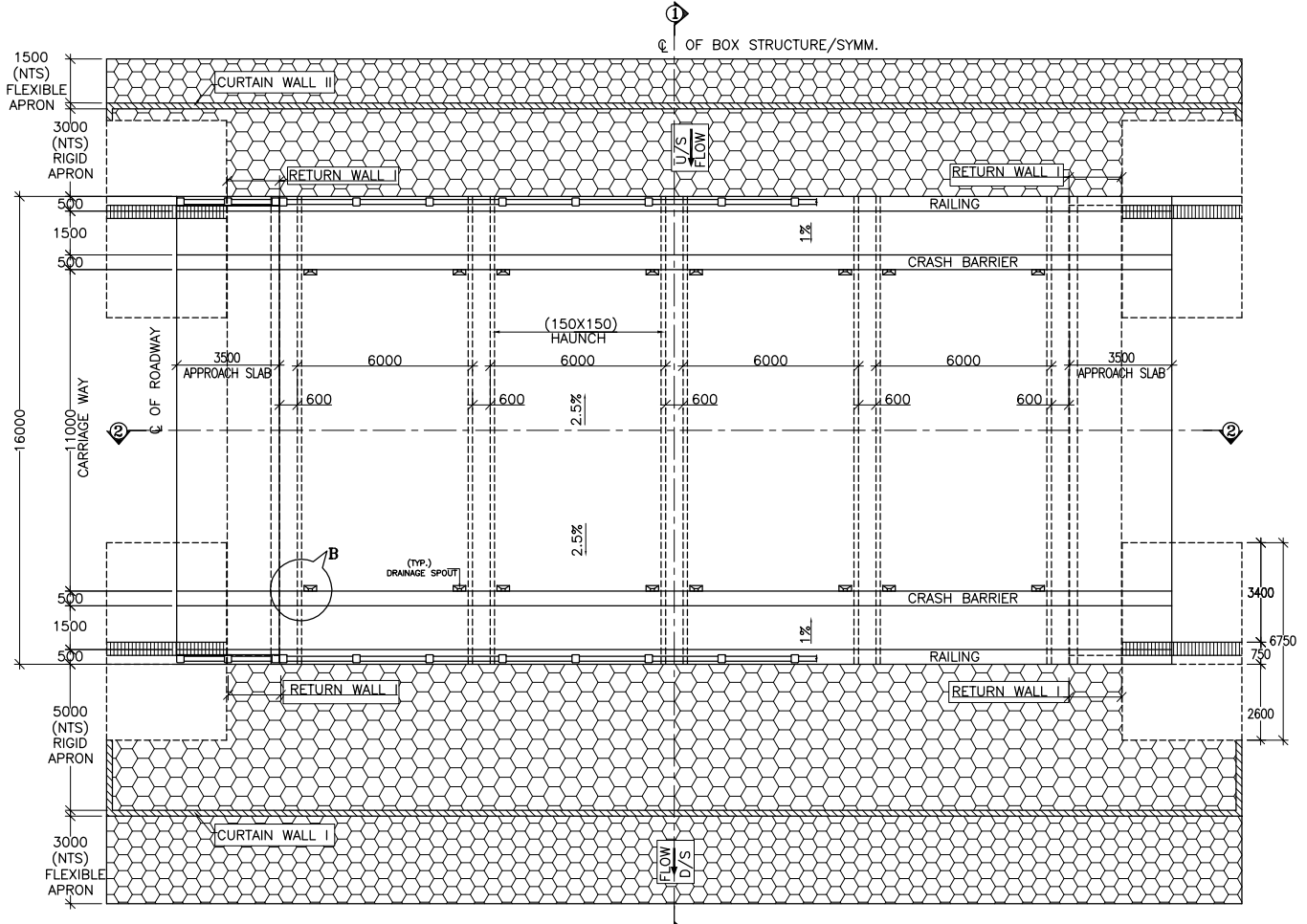


**SECTION 1-1**  
(SCALE-1:150)

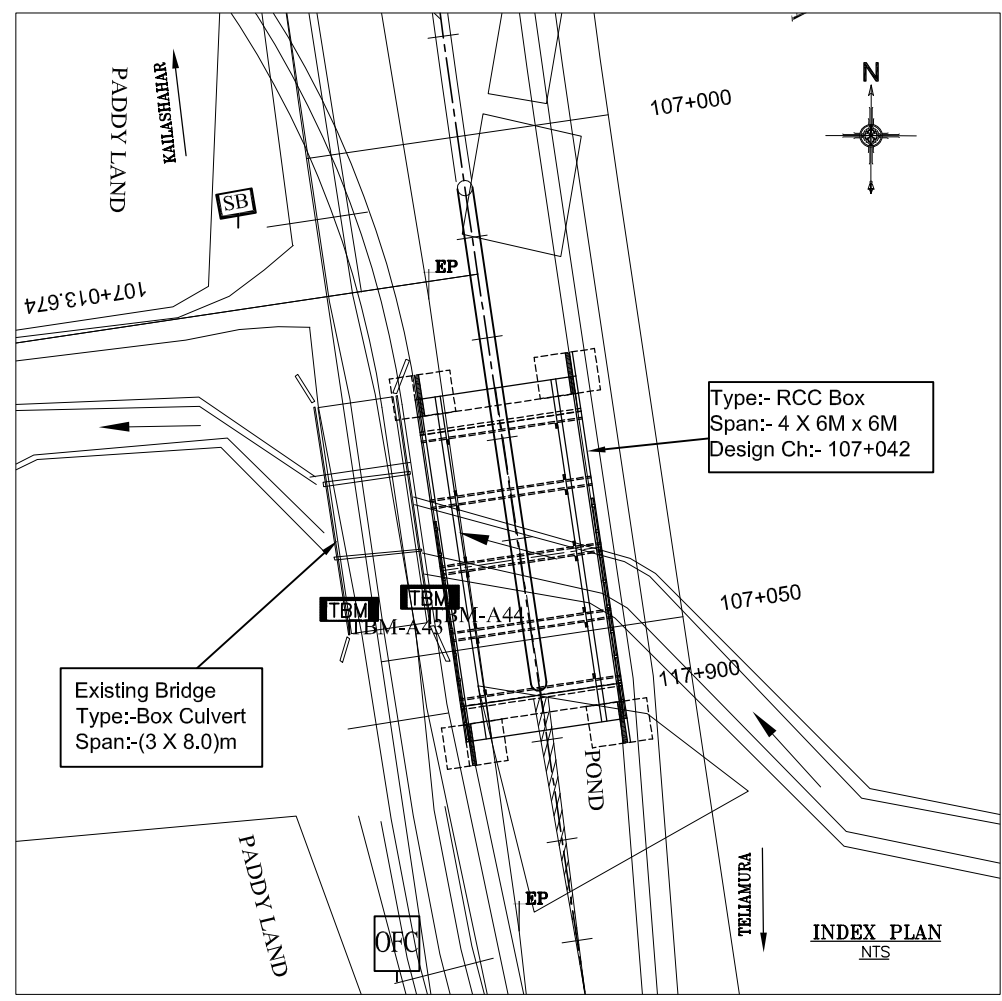
FOR BASE SLAB THICKNESS	VALUE OF 'DK'
UPTO 900mm	1200 mm
e>900 mm	e+300 mm
	e = BASE SLAB THICKNESS



**SOIL PROFILE**  
(SCALE-(NTS))



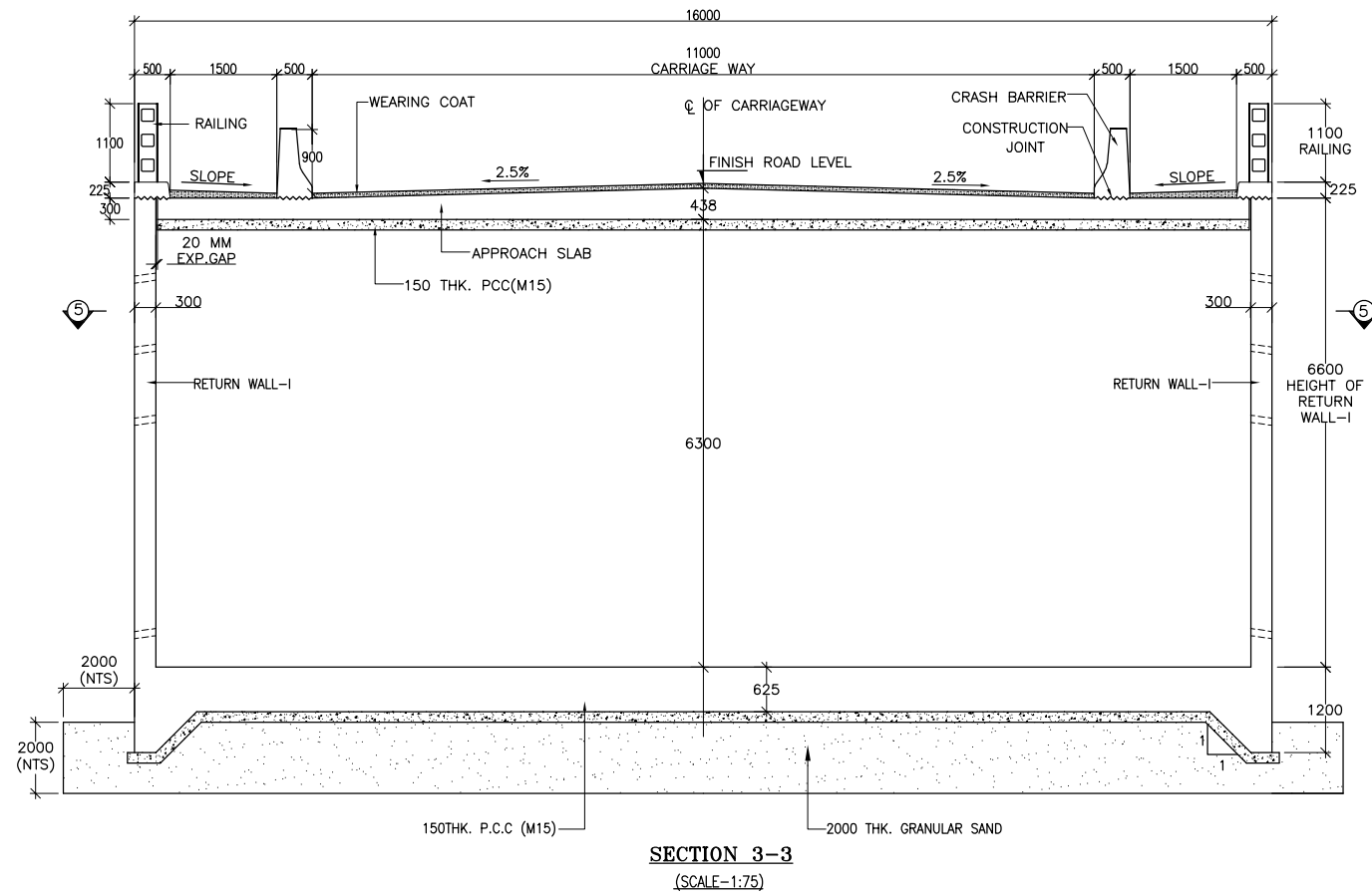
**PLAN**  
(SCALE-1:175)



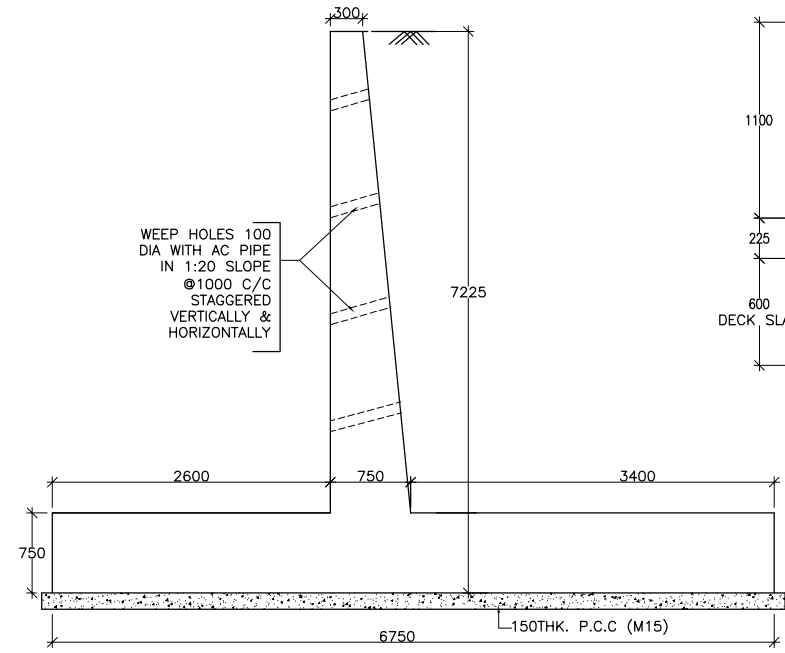
**INDEX PLAN**  
(NTS)

- NOTES :**
- ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE MENTIONED.
  - GRADE OF CONCRETE :-  
BOX STRUCTURE - M30  
RETURN WALL - M30  
APPROACH SLAB - M30  
RAILING - M30  
CURTAIN WALL - M20  
LEVELING COURSE(P.C.C) - M15  
CRASH BARRIER- M40 & KERB-M30
  - GRADE OF STEEL Fe-500 AS PER I.S.-1786.
  - CLASS A 3 LANES OR CLASS A 1 LANE+ CLASS 70R PRODUCING WORST EFFECT WILL BE CONSIDERED.
  - PROPERTIES OF BACKFILL SOIL  $\gamma = 2.01/m^3$ ,  $\phi = 30^\circ$ .
  - FILTER MATERIAL BEHIND ABUTMENT AND RETURN WALL SHALL CONFORM TO CLAUSE 2504.2.2 OF MORTH SPECIFICATIONS TO A THICKNESS OF NOT LESS THAN 600mm. WITH SMALLER SIZE TOWARDS THE SOIL AND BIGGER SIZE TOWARDS THE WALL TO THE FULL HEIGHT.
  - SOFT AND LOOSE PATCHES IN THE BEARING AREA ARE TO BE REPLACED BY COMPACTED GRANULAR FILLS WITH LAYERS NOT EXCEEDING 300mm.
  - 2M SAND FILLING SHOULD BE PROVIDED BELOW THE RAFT FOUNDATION IN ORDER TO ATTAIN THE BEARING CAPACITY-10 T/Sqm
  - MAXIMUM SCOUR LEVEL-24.360 M.
  - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO. :-  
CET/BDG/2015/3580/NH-208/FDPR/MN/GA (SHEET NO 02 OF 02)  
CET/BDG/2015/3580/NH-208/FDPR/MN/RCC (SHEET NO 01 OF 01)  
CET/BDG/2015/3580/NH-208/FDPR/MN/MISC (SHEET NO 01 OF 01)

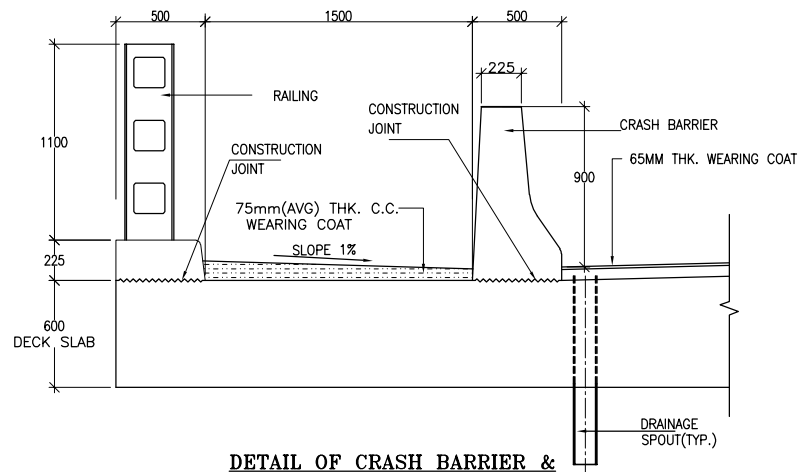
SCALE: AS SHOWN					CLIENT: Public Works Department Government of Tripura		National Highways & Infrastructure Development Corporation Ltd.		GENERAL ARRANGEMENT OF FOUR CELL R.C.C BOX BRIDGE 4X6.0M X 6.0M (AT CHAINAGE- 107.042KM)		CONSULTANT : <b>CETEST</b> Engineering Consultants 124-A, N.S.C. Bose Road Kolkata - 700092.		Dwg. No. CET/BDG/2015/3580/NH-208/FDPR/MN/GA				
DATE: Nov,2019					PROJECT: Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening to Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)							Revision Mkd. - R0		Sheet No. - 01 of 02			
ROAD NAME: Kailashahar to Teliamura Section of NH-208					Package: VI (Km 101+300 to Km 127+319)					Drawn By: T.G		Design By: R.M		Checked By: A.D		Approved By: B.K	
REVISIONS																	



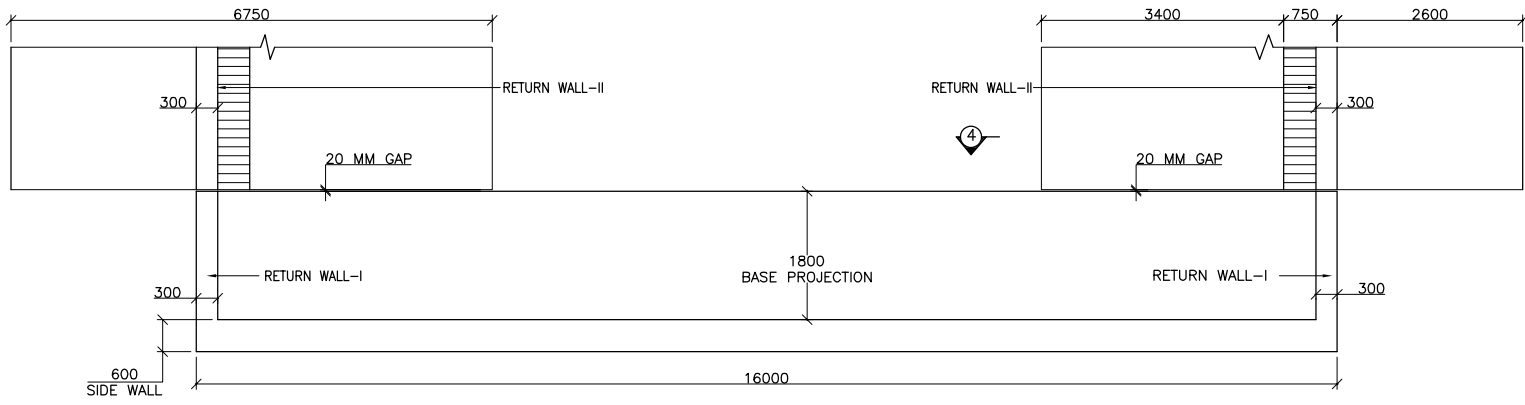
**SECTION 3-3**  
(SCALE-1:75)



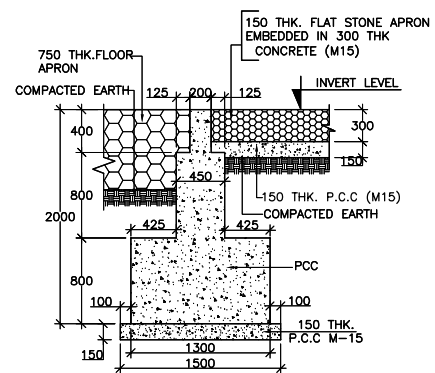
**SECTION 4-4**  
(SHOWING RETURN WALL- II)  
(SCALE-1:50)



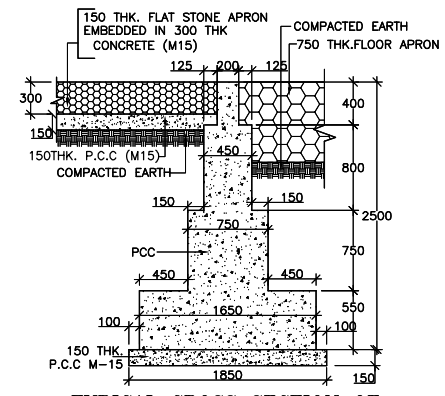
**DETAIL OF CRASH BARRIER & RAILING**  
SCALE - 1:30



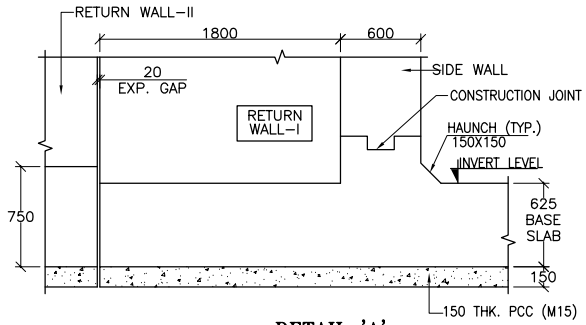
**SECTIONAL PLAN 5-5**  
SCALE:- 1:75



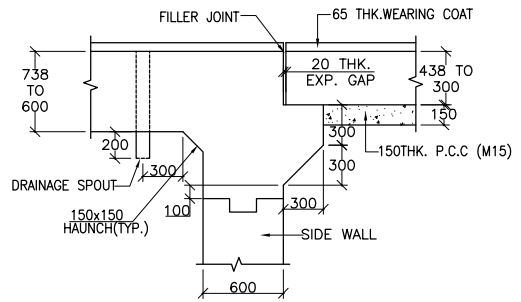
**TYPICAL CROSS SECTION OF CURTAIN WALL TYPE-II (U/S)**  
(SCALE 1:50)



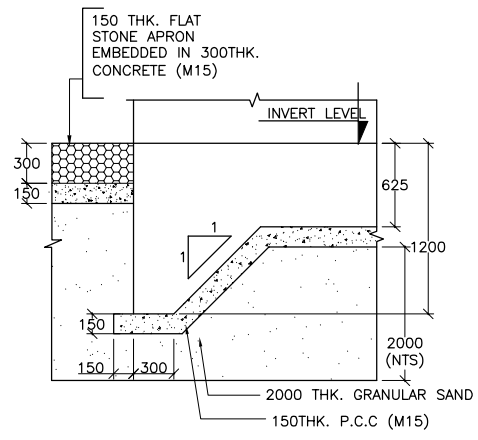
**TYPICAL CROSS SECTION OF CURTAIN WALL TYPE-I (D/S)**  
(SCALE 1:50)



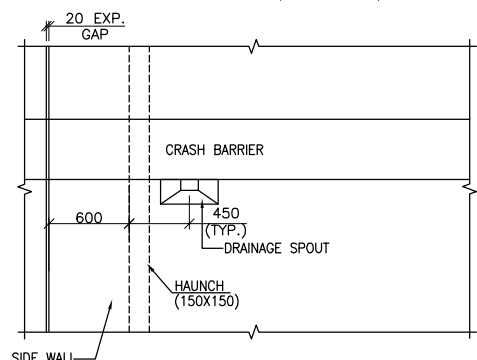
**DETAIL 'A'**  
SCALE-1:40



**DETAIL 'B'**  
SCALE-1:40



**DETAIL 'C'**  
(SCALE-1:40)



**DETAIL 'D'**  
(SCALE-1:40)

- NOTES :**
1. ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE MENTIONED.
  2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO.:-  
CET/BDG/2015/3580/NH-208/FDPR/MN/GA (SHEET NO 01 OF 02)  
CET/BDG/2015/3580/NH-208/FDPR/MN/RCC (SHEET NO 01 OF 01)  
CET/BDG/2015/3580/NH-208/FDPR/MN/MISC (SHEET NO 01 OF 01)

MKD.	DATE	DESCRIPTION	CHKD.	APPRD.
REVISIONS				

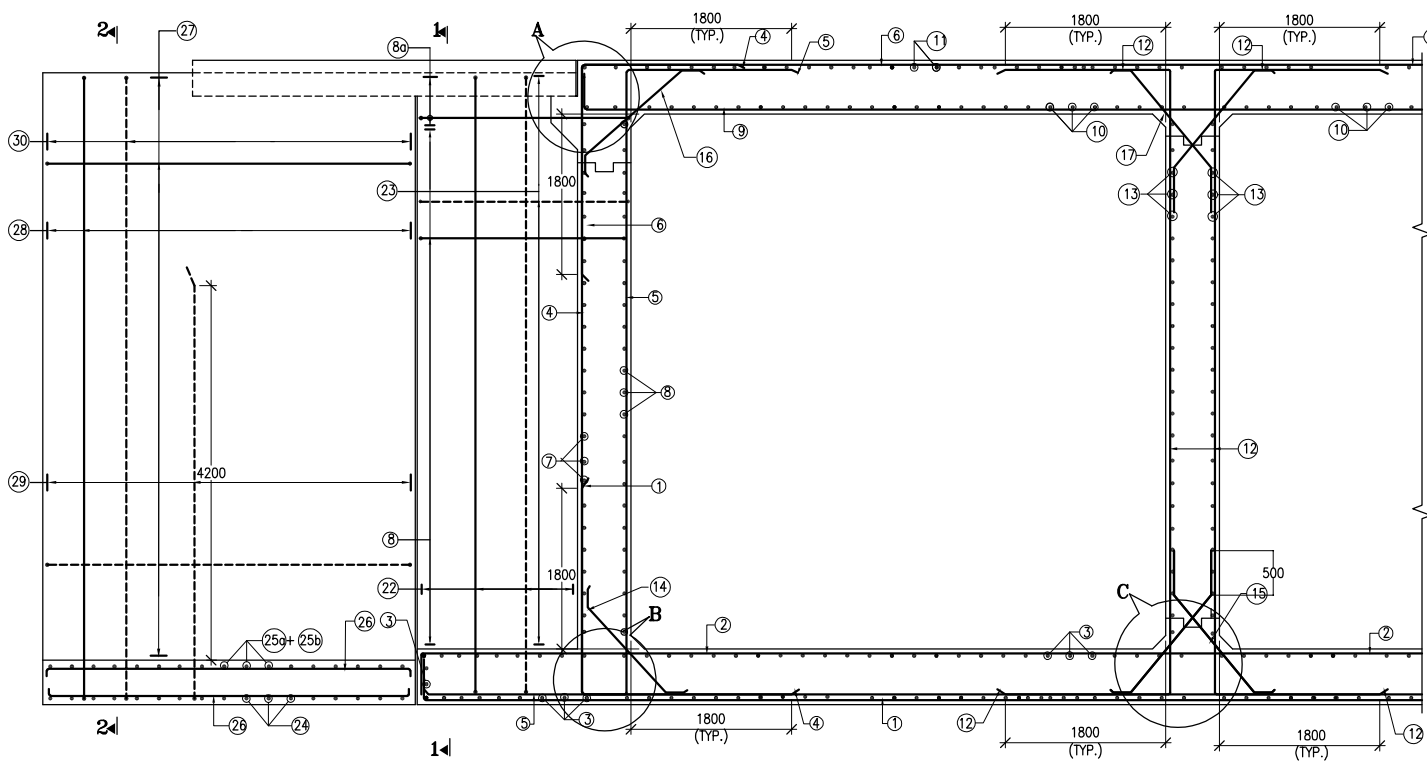
SCALE:	AS SHOWN
DATE:	Nov, 2019

CLIENT:	Public Works Department Government of Tripura	National Highways & Infrastructure Development Corporation Ltd.
PROJECT:	Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening to Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)	

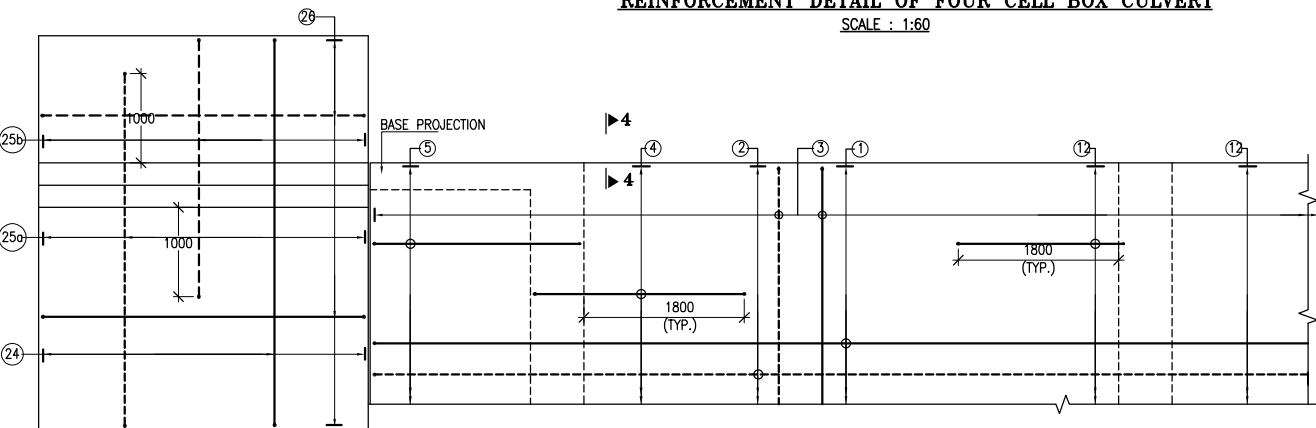
GENERAL ARRANGEMENT OF FOUR CELL R.C.C. BOX BRIDGE 4X6.0M X 6.0M	
ROAD NAME:	Kailashahar to Teliamura Section of NH-208
Package:-VI	(Km 101+300 to Km 127+319)

CONSULTANT :	<b>CETEST</b> CE TESTING COMPANY PVT. LTD. Engineering Consultants 124-A, N.S.C. Bose Road Kolkata - 700092.
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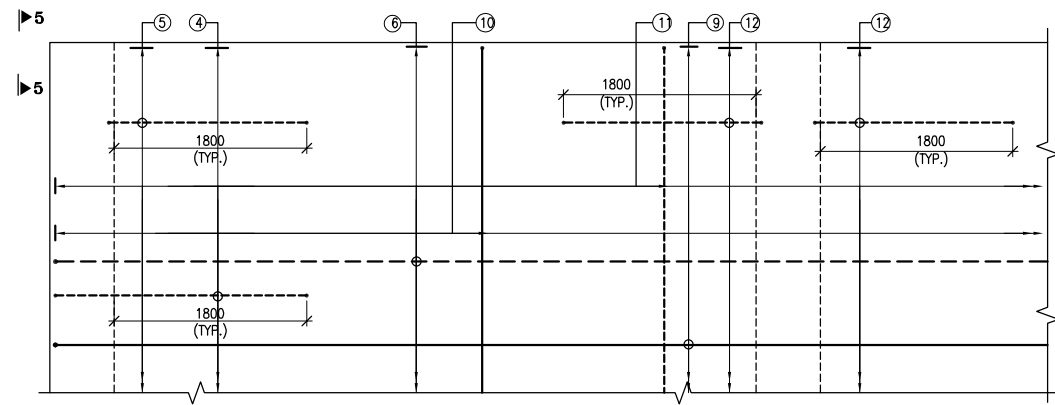
Dwg. No.	CET/BDG/2015/3580/NH-208/FDPR/MN/GA		
Revision Mkd. - R0	Sheet No. - 02 of 02		
Drawn By.	Design By.	Checked By.	Approved By.
T.G	R.M	A.D	B.K



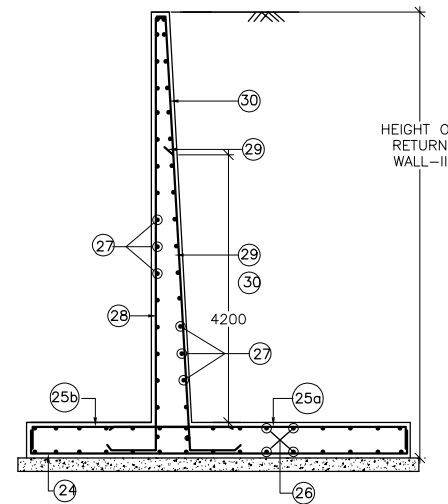
**REINFORCEMENT DETAIL OF FOUR CELL BOX CULVERT**  
SCALE : 1:60



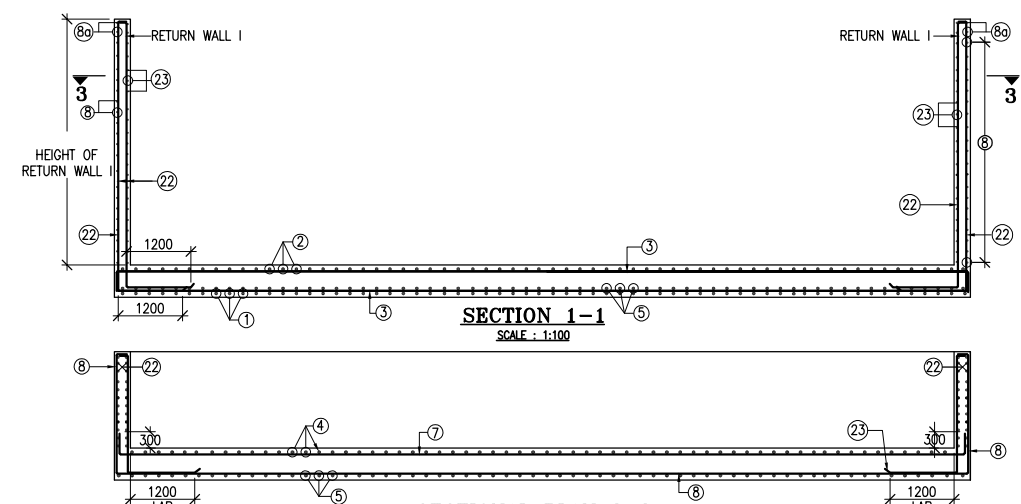
**BOTTOM SLAB R/F PLAN**  
(HAUNCH LINES ARE NOT SHOWN IN PLAN)  
SCALE : 1:60



**TOP SLAB R/F PLAN**  
(KERB BRACKET & HAUNCH LINES ARE NOT SHOWN IN PLAN)  
SCALE : 1:30

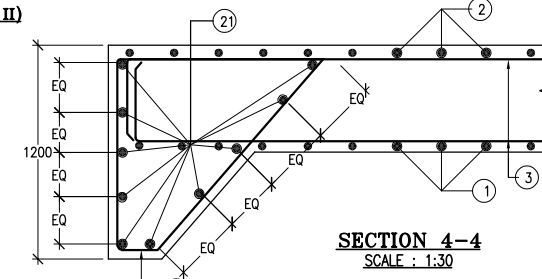


**SECTION 2-2**  
(SHOWING RETURN WALL - II)  
SCALE : 1:60

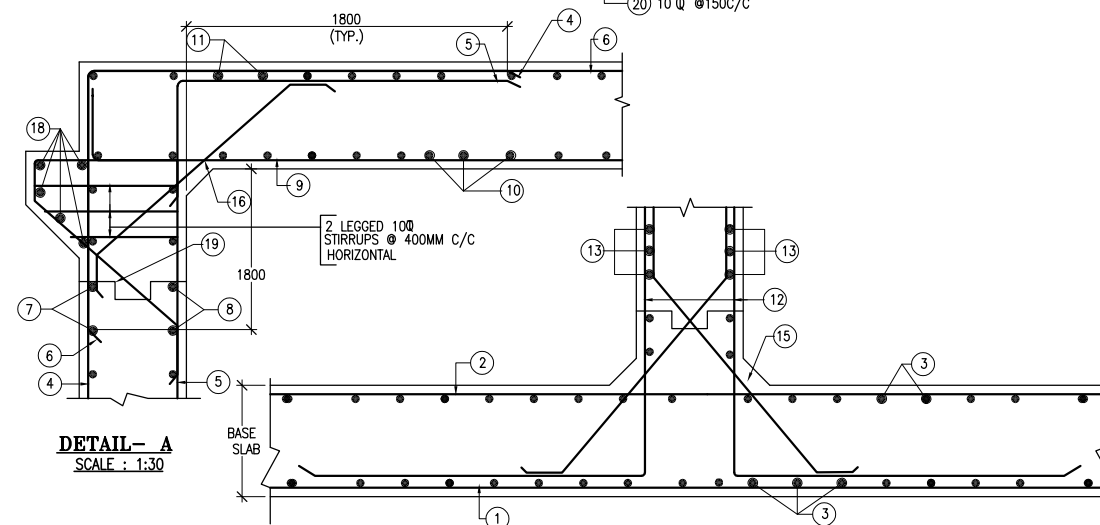


**SECTION 1-1**  
SCALE : 1:100

**SECTIONAL PLAN 3-3**  
SCALE : 1:100

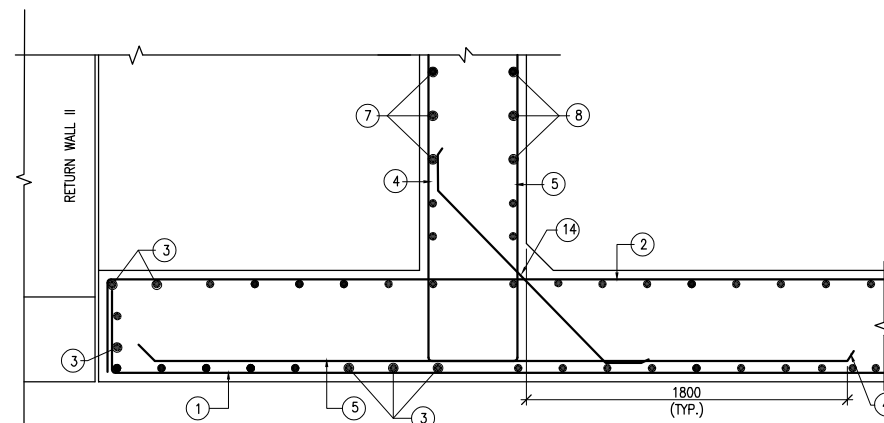


**SECTION 4-4**  
SCALE : 1:30

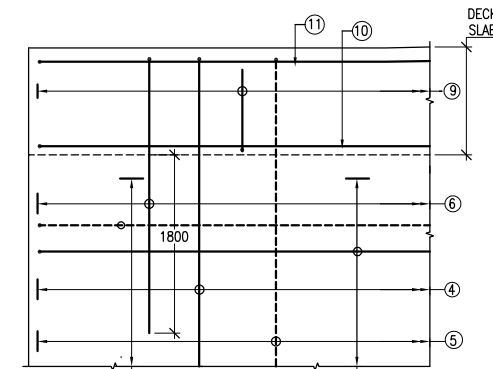


**DETAIL-A**  
SCALE : 1:30

**DETAIL-C**  
SCALE : 1:30



**DETAIL-B**  
SCALE : 1:30



**VIEW 5-5**  
(HAUNCH BARS ARE NOT SHOWN)  
SCALE : 1:30

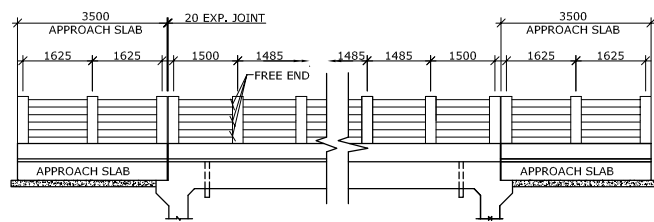
SCHEDULE OF REINFORCEMENT							
SL. NO.	BAR MARK	DIA. OF BARS (mm)	SPACING (mm)	SL. NO.	BAR MARK	DIA. OF BARS (mm)	SPACING (mm)
1.	①	16	150	21.	⑳	10	150
2.	②	16	150	22.	㉑	10	10(Nos)
3.	③	12	200	23.	㉒	12	200
4.	④	20	150	24.	㉓	20	150
5.	⑤	20	150	25.	㉔	20	150
6.	⑥	16	150	26.	㉕	20	150
7.	⑦	12	200	27.	㉖	16	150
8.	⑧	12	200	28.	㉗	12	125
9.	⑧a	12	5(Nos)	29.	㉘	12	225
10.	⑨	16	150	30.	㉙	12	150
11.	⑩	12	200	31.	㉚	25	100
12.	⑪	20	150	32.	㉛	25	100
13.	⑫	16	150				
14.	⑬	12	200				
15.	⑭	12	200				
16.	⑮	12	200				
17.	⑯	12	200				
18.	⑰	12	200				
19.	⑱	12	5(Nos)				
20.	㉀	12	200				

**LEGEND:-**

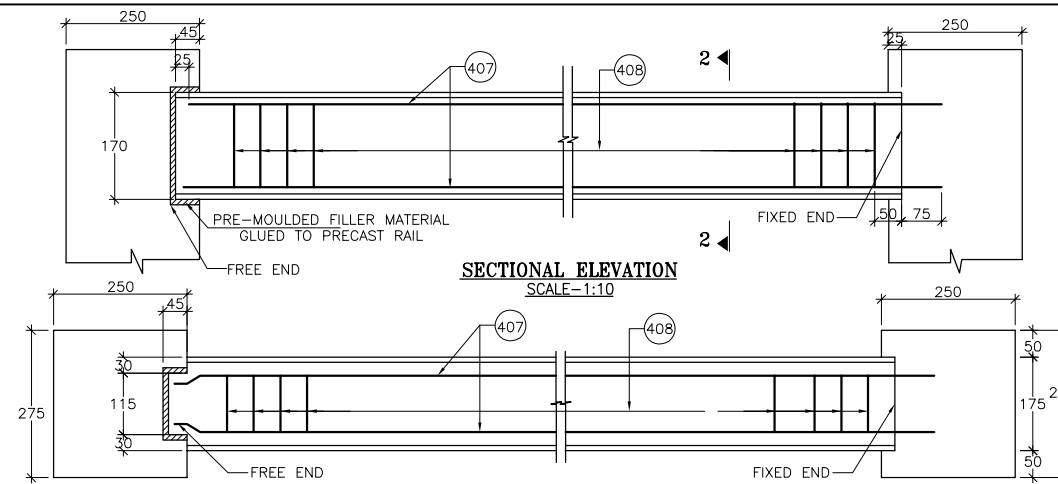
REAR FACE / TOP FACE / EARTH FACE BAR	-----
FRONT FACE / BOTTOM FACE / OPPOSITE TO EARTH FACE BAR	_____

- NOTES :**
- ALL DIMENSIONS ARE IN MM.
  - CONC. GRADE SHALL BE M-30 & M-25 WHERE APPLICABLE.
  - ALL REINFORCING STEEL SHALL BE OF HYSD BARS (GRADE DESIGNATION Fe-500) CONFORMING TO IS: 1786.
  - CLEAR COVER = TOP SLAB 40MM, SIDE WALL 50MM, BOTTOM SLAB 75.
  - LAP LENGTH & DEVELOPMENT LENGTH (Ld) OF REINFORCING BARS SHALL BE DONE IN ACCORDANCE WITH RELEVANT CLAUSE IRC : 112-2011.
  - WELDING OF BARS SHALL NOT BE PERMITTED.
  - SHARP EDGES OF CONCRETE WILL NOT BE PERMITTED.
  - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO: CET/BDG/2015/3580/NH-208/FDPR/MN/GA (SHEET NO. 01 & 02)
  - CET/BDG/2015/3580/NH-208/FDPR/MN/MISC (SHEET NO. 01 OF 01)

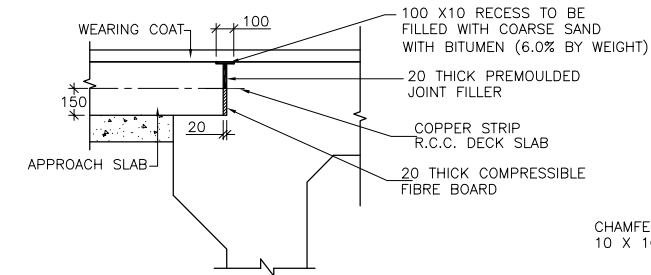
SCALE: AS SHOWN					CLIENT: Public Works Department Government of Tripura		National Highways & Infrastructure Development Corporation Ltd.		REINFORCEMENT DETAILS OF 4X6.0M X6.0M RCC BOX BRIDGE		CONSULTANT : <b>CETEST</b> CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.		Dwg. No. CET/BDG/2015/3580/NH-208/FDPR/MN/RCC						
DATE: Nov, 2019					PROJECT: Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening to Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)							ROAD NAME: Kailashahar to Teliamura Section of NH-208		Revision Mkd. - R0					
REVISIONS					Package:-VI (Km 101+300 to Km 127+319)							Drawn By. T.G		Design By. R.M		Checked By. A.D		Approved By. B.K	



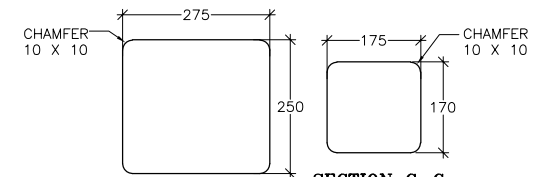
**GENERAL ARRANGEMENT OF R.C.C. RAILING  
4X6.0X6.0 BOX BRIDGE**  
SCALE - 1:125



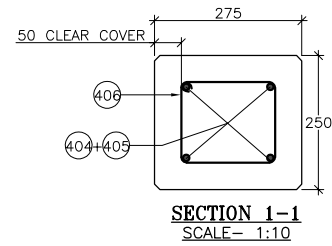
**SECTIONAL ELEVATION**  
SCALE-1:10



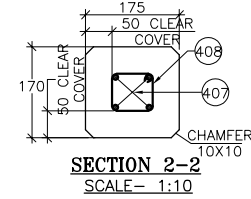
**DETAILS OF FILLER JOINT**  
SCALE- 1:30



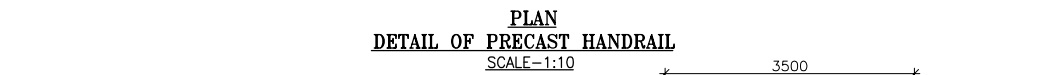
**SECTION F-F**  
**SECTION G-G**  
SCALE-1:10



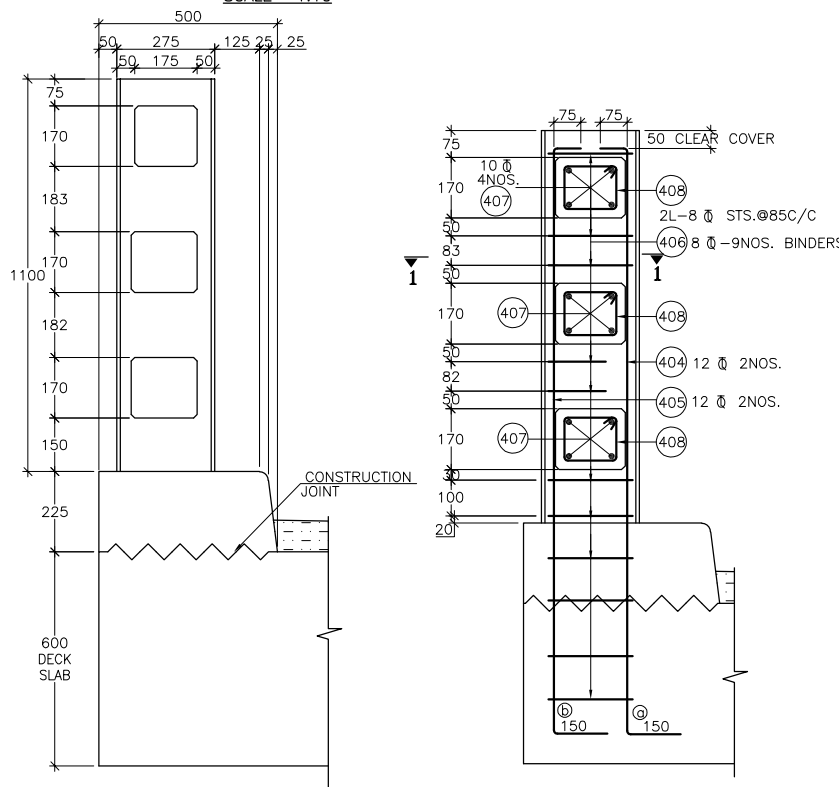
**SECTION 1-1**  
SCALE- 1:10



**SECTION 2-2**  
SCALE- 1:10

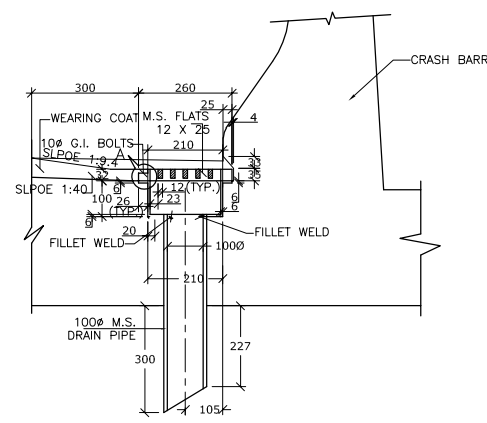


**PLAN**  
**DETAIL OF PRECAST HANDRAIL**  
SCALE-1:10

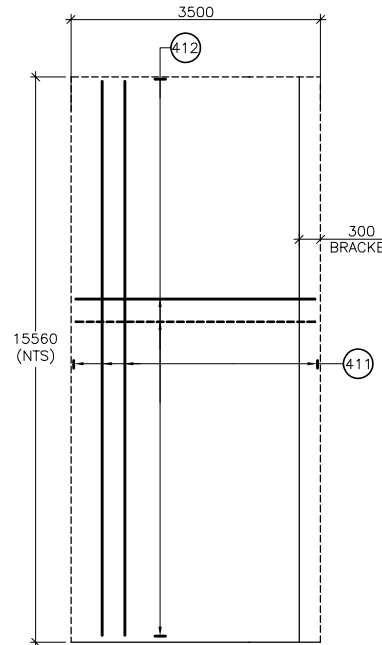


**SECTION THROUGH POST  
(FOR GENERAL ARRANGEMENT)**  
SCALE-1:15

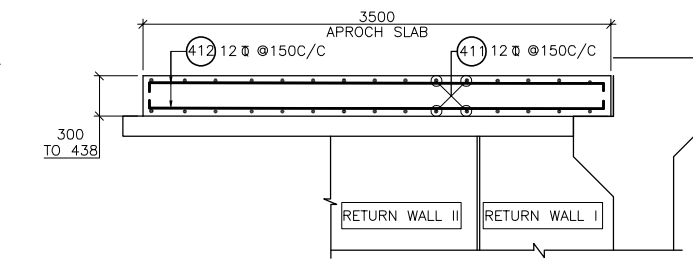
**SECTION THROUGH POST  
(FOR REINFORCEMENT DETAIL)**  
SCALE-1:15



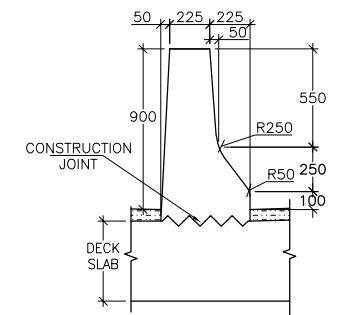
**SECTION 3-3**  
SCALE- 1:15



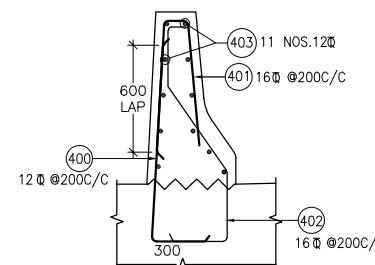
**PLAN OF APPROACH SLAB  
(REINFORCEMENT DETAIL)**  
SCALE 1:75



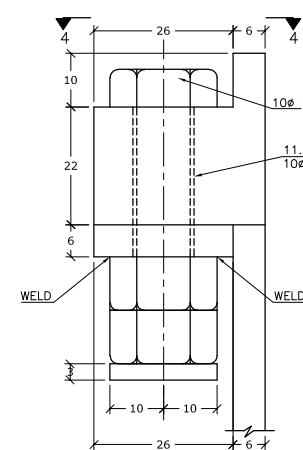
**DETAILS OF APPROACH SLAB  
(REINFORCEMENT DETAIL)**  
SCALE 1:40



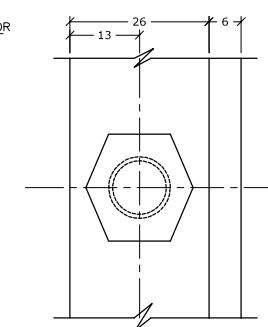
**DETAILS OF CRASH BARRIER  
(FOR GENERAL ARRANGEMENT)**  
SCALE-1:30



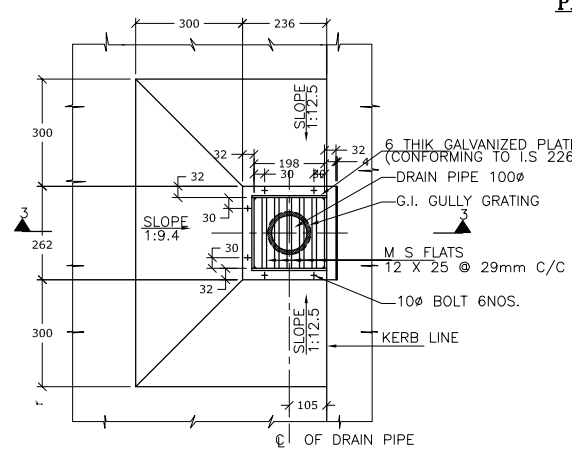
**RCC OF CRASH BARRIER**  
SCALE-1:30



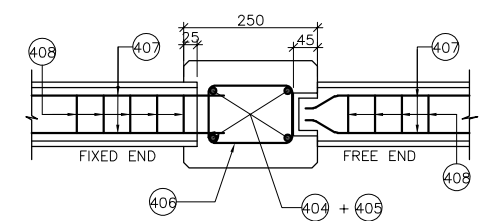
**DETAIL - A**  
SCALE- 1:1



**PLAN AT 4-4**  
SCALE- 1:1



**PLAN**  
**DETAIL OF DRAINAGE**  
**SPOUT AND COLLECTION PIT**  
SCALE- 1:15



**REINFORCEMENT ARRANGEMENT OF HAND RAIL & POST**  
SCALE-1:10

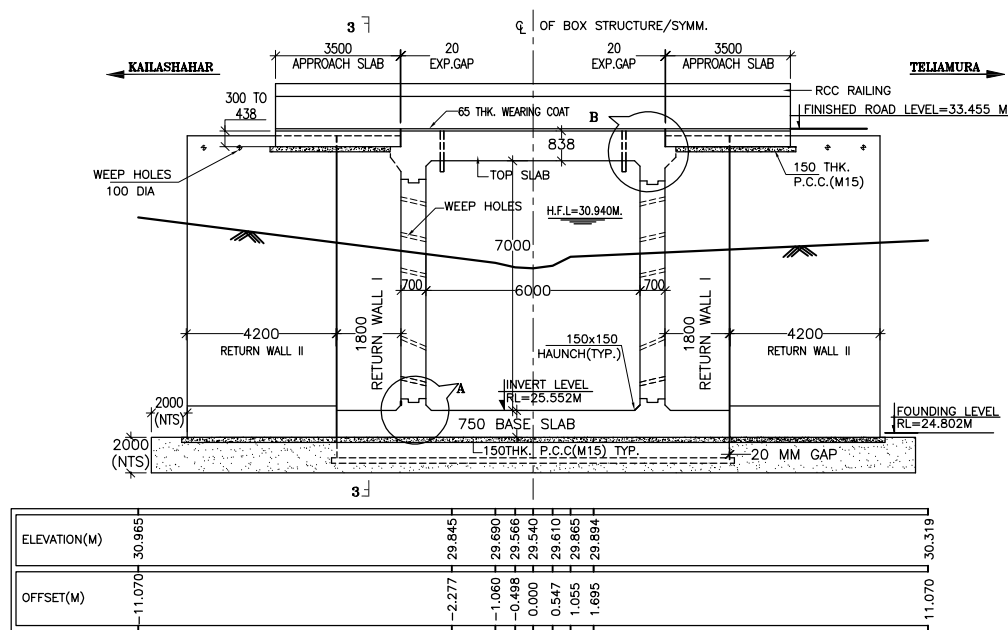
**NOTE :**  
1. ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE NOTED.

**NOTES FOR RAILING :**  
1. REINFORCEMENT OF RAILING POST SHOULD BE SUITABLY ANCHORED IN DECK SLAB.  
2. CASTING OF POST SHALL BE DONE IN SINGLE POUR AFTER ACCURATELY POSITIONING THE PRECAST HANDRAIL.  
3. RAILING SHALL BE CONSTRUCTED ONLY AFTER THE STRUCTURAL CONCRETE OF SUPERSTRUCTURE HAS HARDENED AND SHUTTERING IS RELEASED.  
4. EXPANSION GAPS IN RAILING SHALL BE PROVIDED AT THE SAME LOCATIONS AS IN THE DECK SLAB.

**NOTES FOR DRAINAGE SPOUT**  
1. ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED.  
2. ALL STEEL WORK SHALL BE AS PER IS - 2062.  
3. DRAINAGE SPOUT & COLLECTION PIT ASSEMBLY SHALL BE FABRICATED FROM MILD STEEL & AFTER FABRICATION, THE COMPLETE ASSEMBLY EXCEPT GRATING SHALL BE GIVEN A HOT DIPPED GALVANISED COATING.  
4. THE REINFORCEMENT OF TOP SLAB OF BOX SHALL BE SUITABLY MODIFIED TO ACCOMMODATE THE DRAINAGE SPOUT.  
5. THE DRAINAGE SPOUT SHALL BE GALVANIZED AFTER WELDING THE PLATES & FLATS.

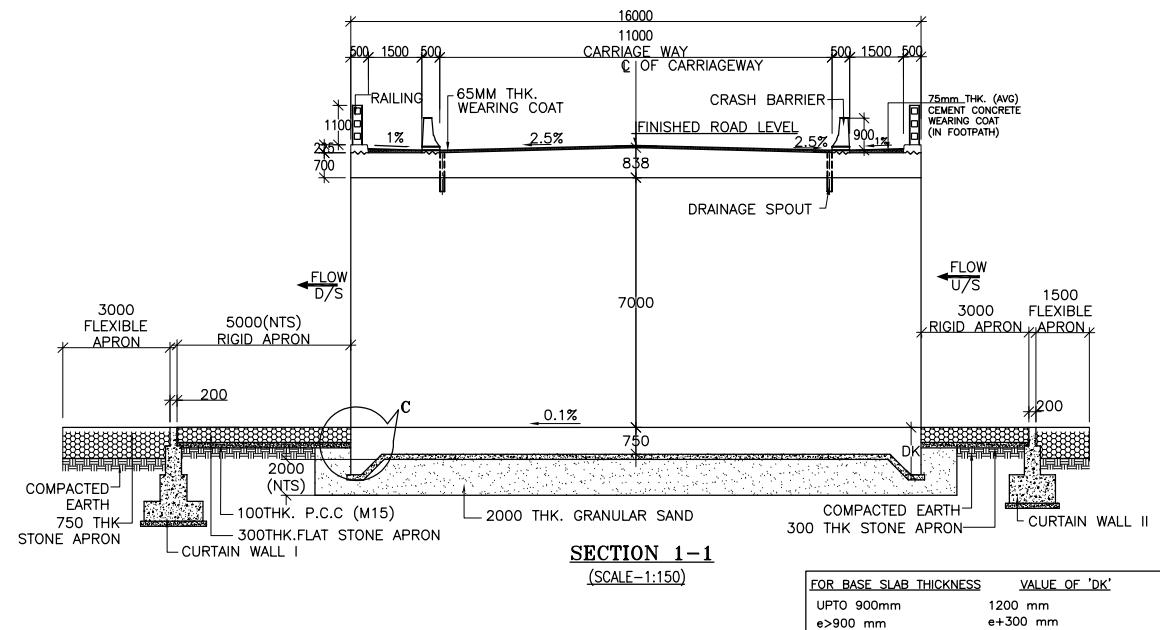
**REFERENCE DRAWINGS :**  
CET/BDG/2015/3580/NH-208/FDPR/MN/GA (SHEET NO. 01 & 02)  
CET/BDG/2015/3580/NH-208/FDPR/MN/RCC (SHEET NO. 01 OF 01)

SCALE: AS SHOWN					CLIENT: Public Works Department Government of Tripura		National Highways & Infrastructure Development Corporation Ltd.		DETAILS OF DRAINAGE SPOUT, EXP. GAP RCC RAILING & CRASH BARRIER		CONSULTANT : <b>CETEST</b> CE TESTING COMPANY PVT. LTD. Engineering Consultants An ISO 9001, 14001 & OHSAS 18001 Certified Company 124-A, N.S.C. Bose Road Kolkata - 700092.		Dwg. No. CET/BDG/2015/3580/NH-208/FDPR/MN/MISC	
DATE: Nov, 2019					PROJECT: Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening to Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)		ROAD NAME: Kailashahar to Teliamura Section of NH-208		Package-VI (Km 101+300 to Km 127+319)		Revision Mkd. - R0		Sheet No. - 01 of 01	
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.							Drawn By.	Design By.	Checked By.	Approved By.
REVISIONS											T.G	R.M	A.D	B.K



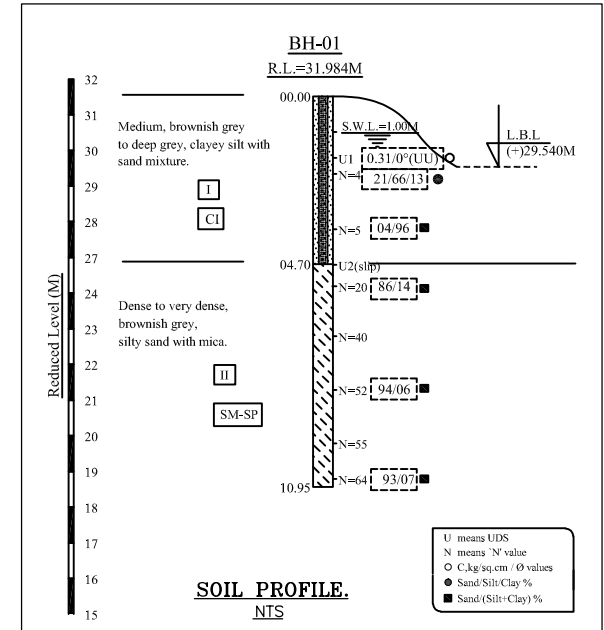
ELEVATION(M)	30.965	29.845	29.690	29.566	29.540	29.610	29.865	29.894	30.319
OFFSET(M)	11.070	-2.277	-1.060	-0.468	0.000	0.547	1.055	1.695	11.070

**SECTION 2-2**  
(SCALE-1:150)

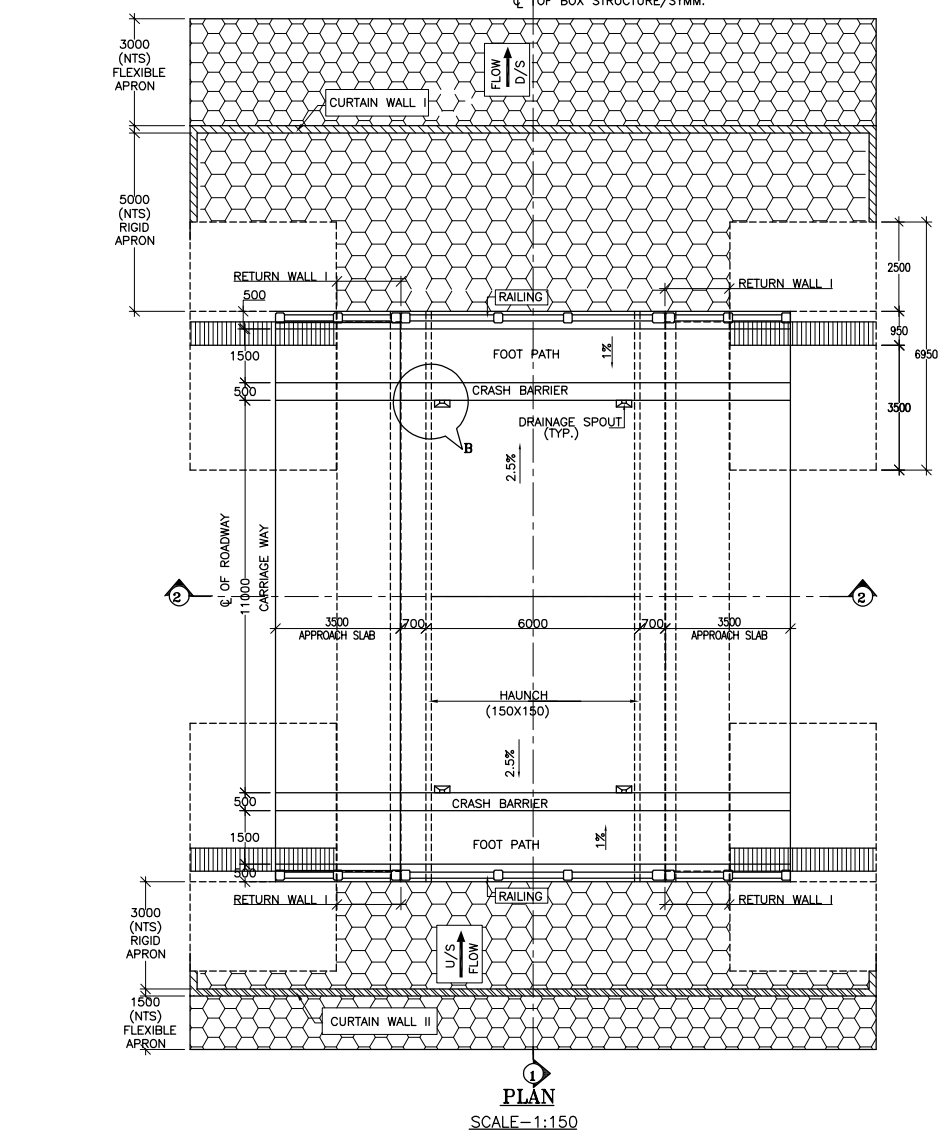


**SECTION 1-1**  
(SCALE-1:150)

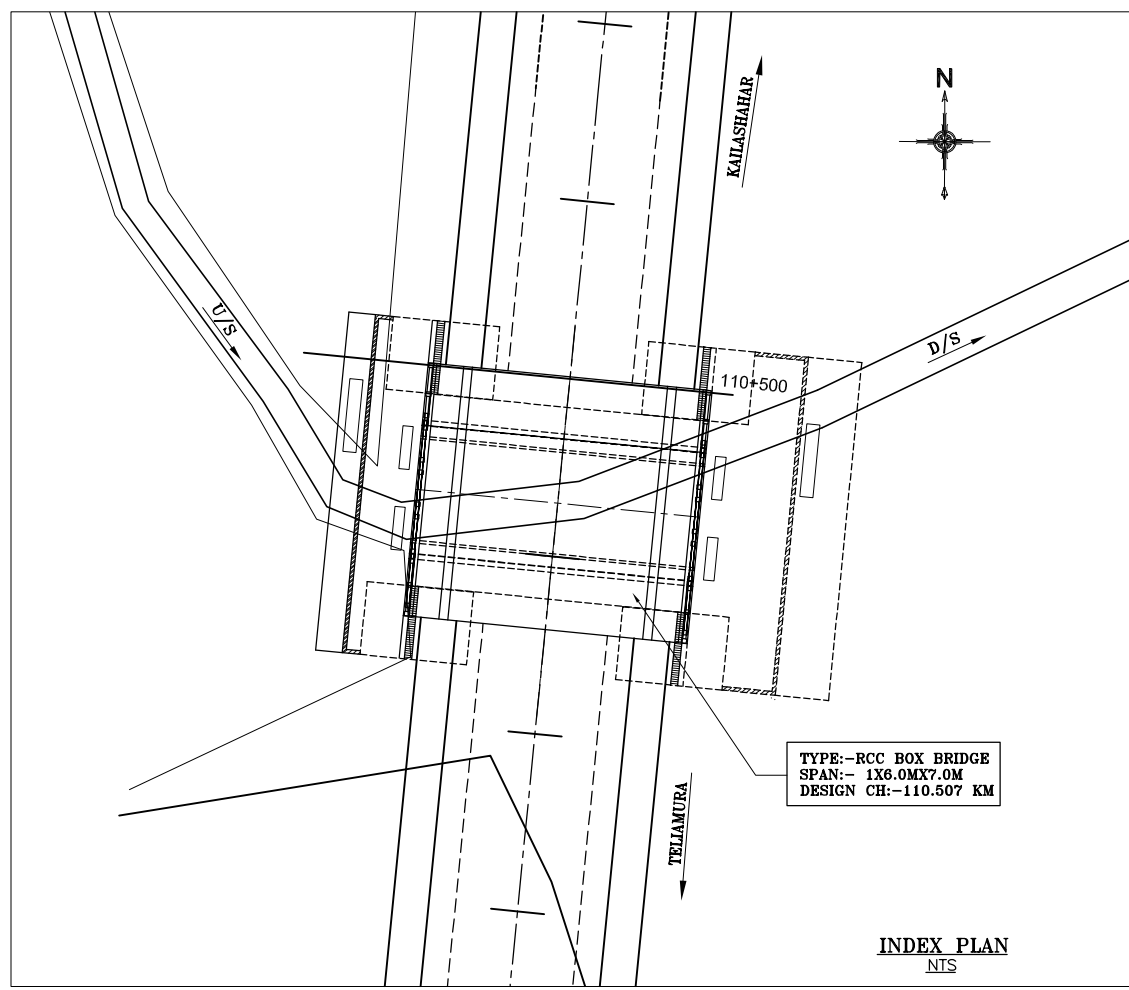
FOR BASE SLAB THICKNESS	VALUE OF 'DK'
UPTO 900mm	1200 mm
>900 mm	e+300 mm
	e = BASE SLAB THICKNESS



**SOIL PROFILE**  
NTS



**PLAN**  
SCALE-1:150



**INDEX PLAN**  
NTS

- NOTES :**
- ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE MENTIONED.
  - GRADE OF CONCRETE :-  
BOX STRUCTURE - M30  
RETURN WALL - M30  
APPROACH SLAB - M30  
RCC RAILING - M30  
CURTAIN WALL - M20  
LEVELING COURSE(P.C.C) - M15  
CRASH BARRIER- M40 & KERB-M30
  - GRADE OF STEEL Fe-500 AS PER I.S.-1786.
  - CLASS A 3 LANES OR CLASS A 1 LANE+ CLASS 70R PRODUCING WORST EFFECT WILL BE CONSIDERED.
  - PROPERTIES OF BACKFILL SOIL  $\gamma=2.0t/m^3$ ,  $\phi=30^\circ$ .
  - FILTER MATERIAL BEHIND ABUTMENT AND RETURN WALL SHALL CONFORM TO CLAUSE 2504.2.2 OF MORTH SPECIFICATIONS TO A THICKNESS OF NOT LESS THAN 600mm. WITH SMALLER SIZE TOWARDS THE SOIL AND BIGGER SIZE TOWARDS THE WALL TO THE FULL HEIGHT.
  - SOFT AND LOOSE PATCHES IN THE BEARING AREA ARE TO BE REPLACED BY COMPACTED GRANULAR FILLS WITH LAYERS NOT EXCEEDING 300mm.
  - 2.0M SAND FILLING SHOULD BE PROVIDED BELOW THE RAFT FOUNDATION IN ORDER TO ATTAIN A BEARING CAPACITY 15T/SQM.
  - NORMAL SCOUR LEVEL-28.620 M.
  - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO. :-  
CET/BDG/2015/3580/NH-208/FDPR/MN/GA  
(SHEET NO 02 OF 02)  
CET/BDG/2015/3580/NH-208/FDPR/MN/RCC  
(SHEET NO 01 OF 01)  
CET/BDG/2015/3580/NH-208/FDPR/MN/MISC  
(SHEET NO 01 OF 01)

MKD.	DATE	DESCRIPTION	CHKD.	APPRD.
		REVISIONS		

SCALE: AS SHOWN  
DATE: Nov, 2019

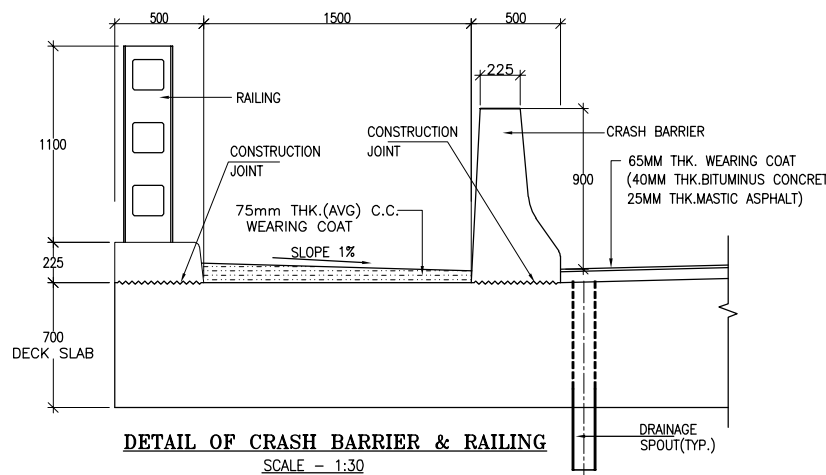
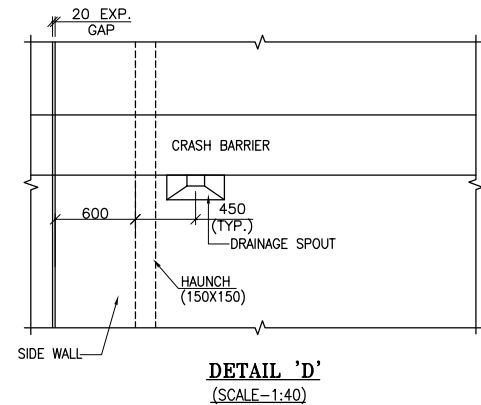
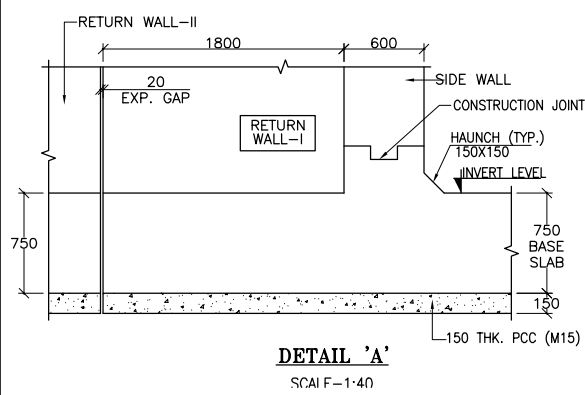
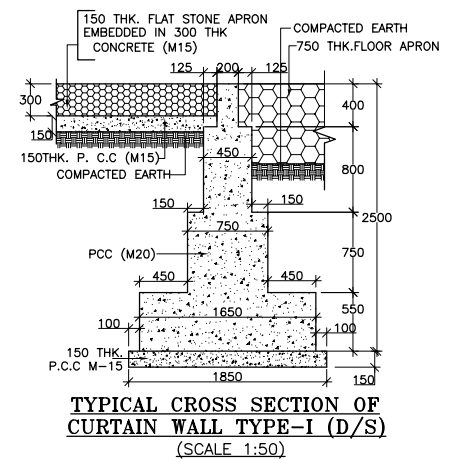
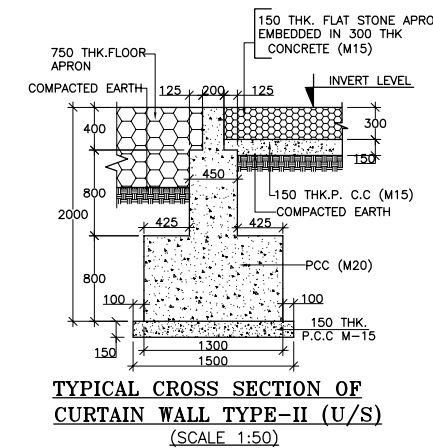
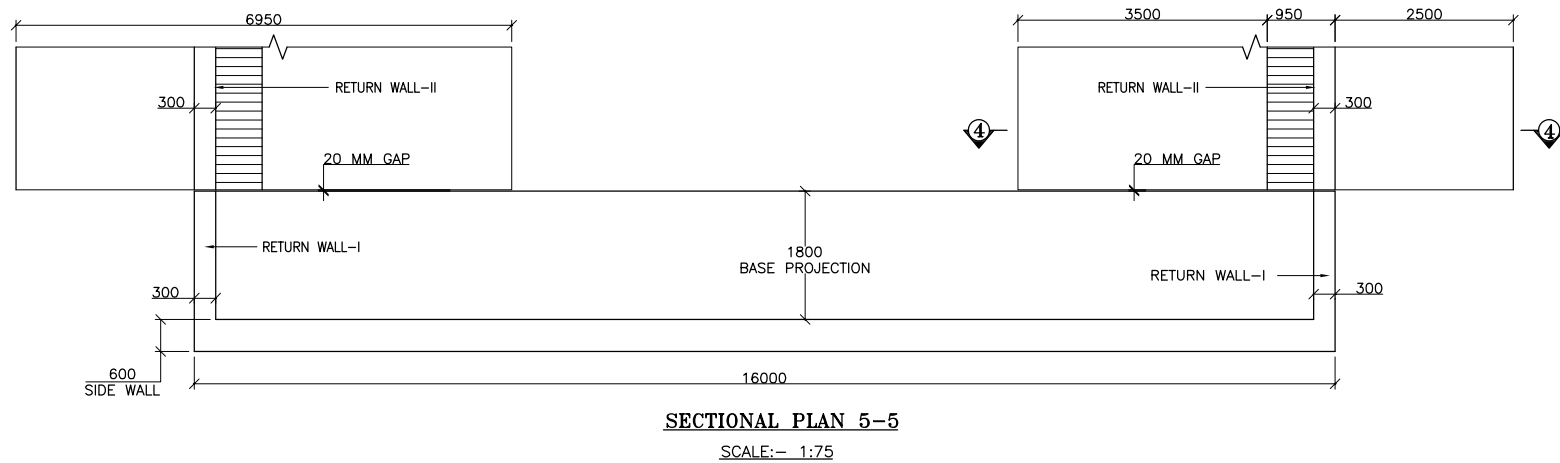
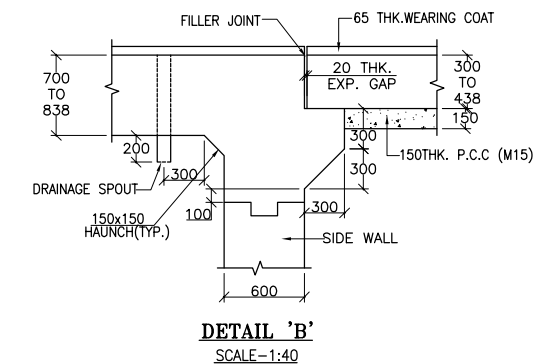
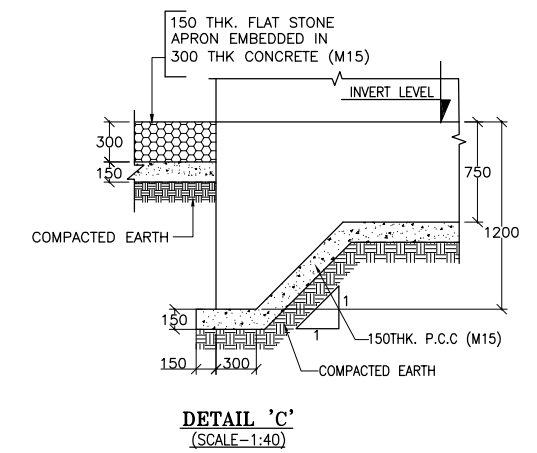
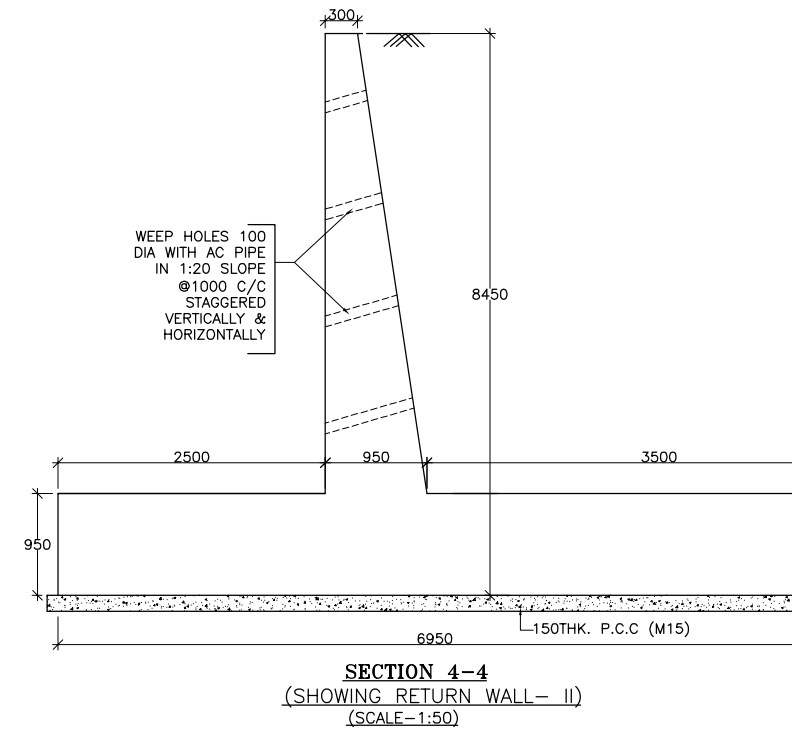
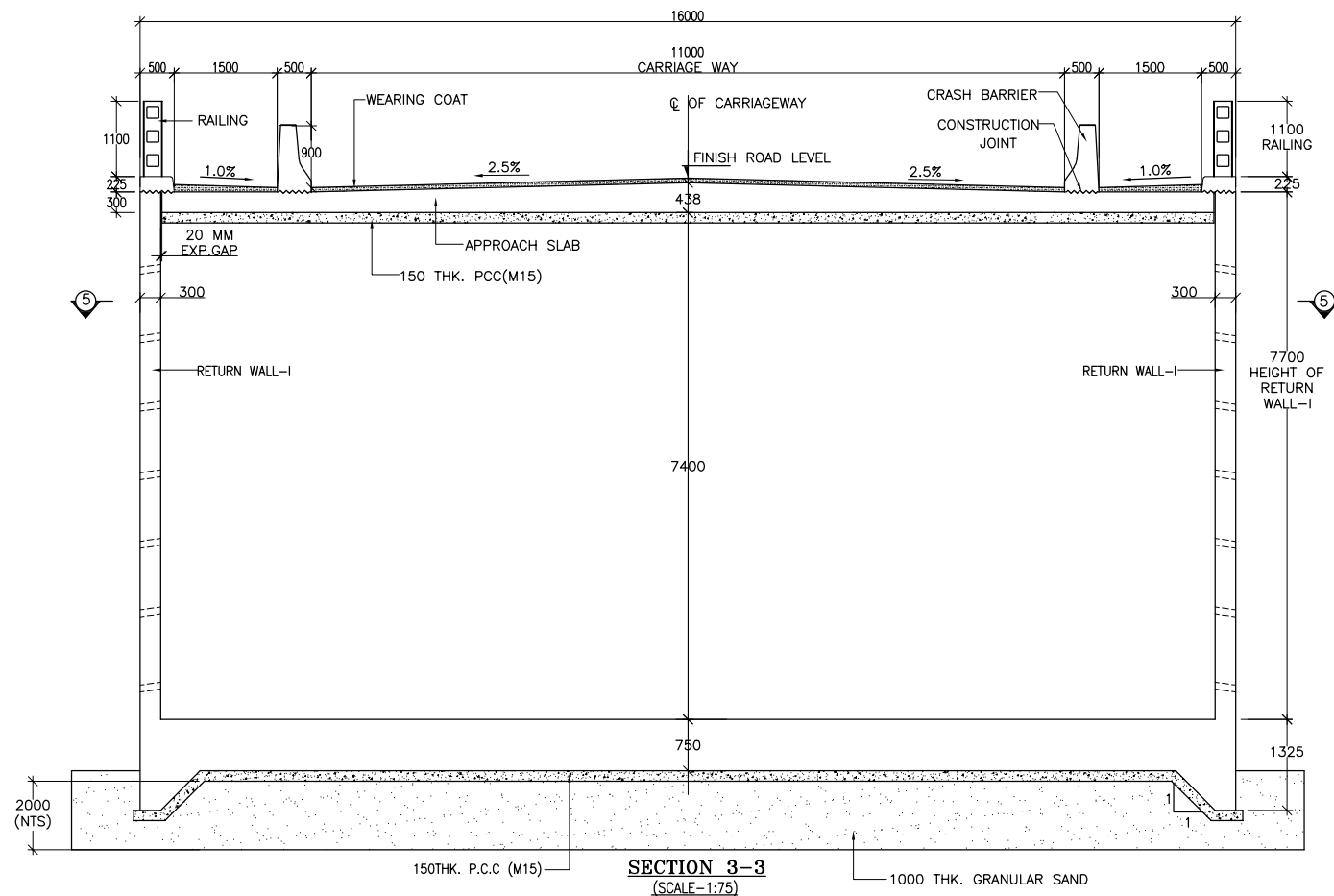
CLIENT: Public Works Department  
Government of Tripura  
PROJECT: Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening to Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)

National Highways & Infrastructure Development Corporation Ltd.  
ROAD NAME: Kailashahar to Teliamura Section of NH-208  
Package-VI (Km 101+300 to Km 127+319)

GENERAL ARRANGEMENT OF R.C.C BOX BRIDGE 1X6.0M X7.0M (AT CHAINAGE-110.507)

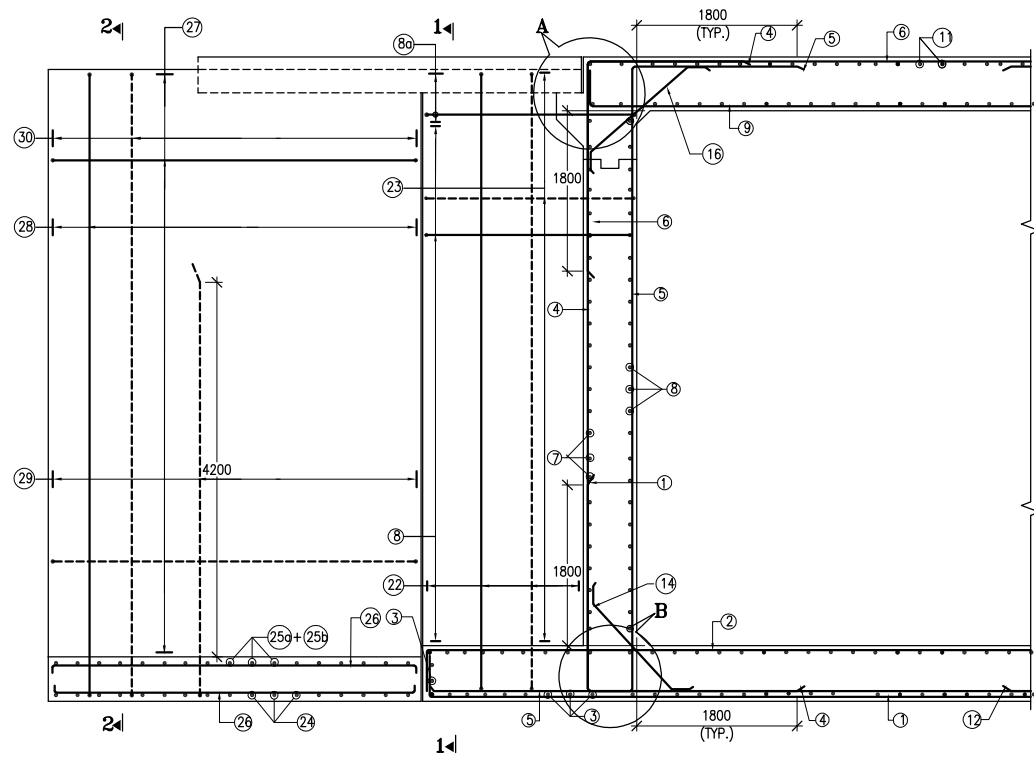
CONSULTANT : **CETEST** CE TESTING COMPANY PVT. LTD.  
124-A, N.S.C. Bose Road  
Kolkata - 700092.

Dwg. No. CET/BDG/2015/3580/NH-208/FDPR/MN/GA		Revision Mkd. - R0	
Sheet No. - 01 of 02		Drawn By. S.D	Design By. S.B
Checked By. A.D	Approved By. B.K		

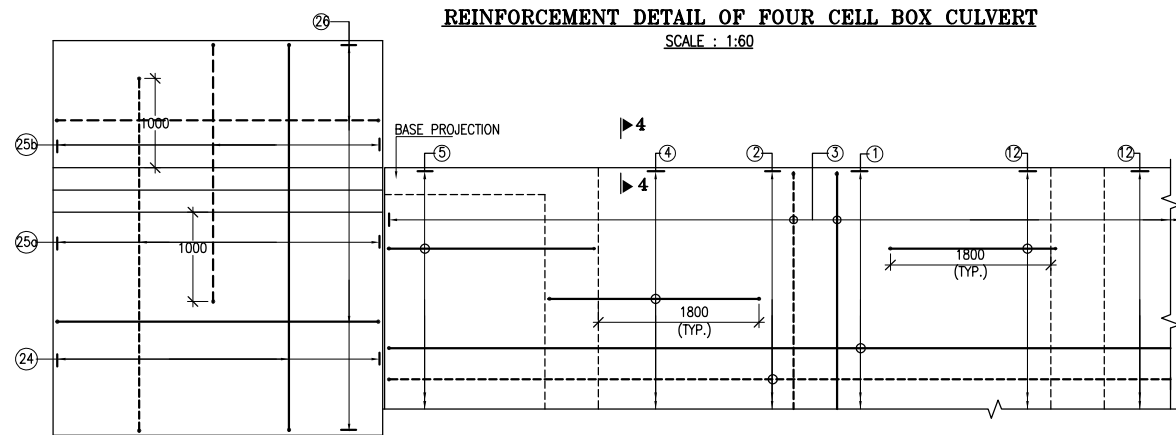


- NOTES :**
1. ALL DIMENTIONS ARE IN MM. UNLESS OTHERWISE MENTIONED.
  2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO.: - CET/BDG/2015/3580/NH-208/FDPR/MN/GA (SHEET NO 01 OF 02)
  3. CET/BDG/2015/3580/NH-208/FDPR/MN/RCC (SHEET NO 01 OF 01)
  4. CET/BDG/2015/3580/NH-208/FDPR/MN/MISC (SHEET NO 01 OF 01 )

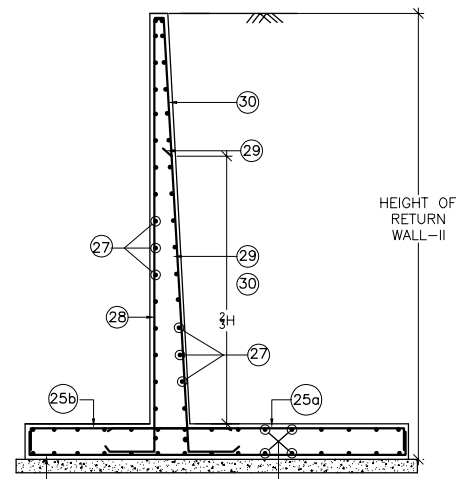
SCALE: AS SHOWN					CLIENT: Public Works Department Government of Tripura		National Highways & Infrastructure Development Corporation Ltd.		GENERAL ARRANGEMENT OF R.C.C BOX CULVERT 1X6.0M X7.0M		CONSULTANT : <b>CETEST</b> Engineering Consultants An ISO 9001, 14001 & OHSAS 18001 Certified Company		Dwg. No. CET/BDG/2015/3580/NH-208/FDPR/MN/GA			
DATE: Nov, 2019					PROJECT: Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening to Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)		ROAD NAME: Kailashahar to Teliamura Section of NH-208		Package:-VI (Km 101+300 to Km 127+319)		CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.		Revision Mkd. - R0		Sheet No. - 02 of 02	
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.									Drawn By.	Design By.	Checked By.	Approved By.
REVISIONS													S.D	S.B	A. D	B.K



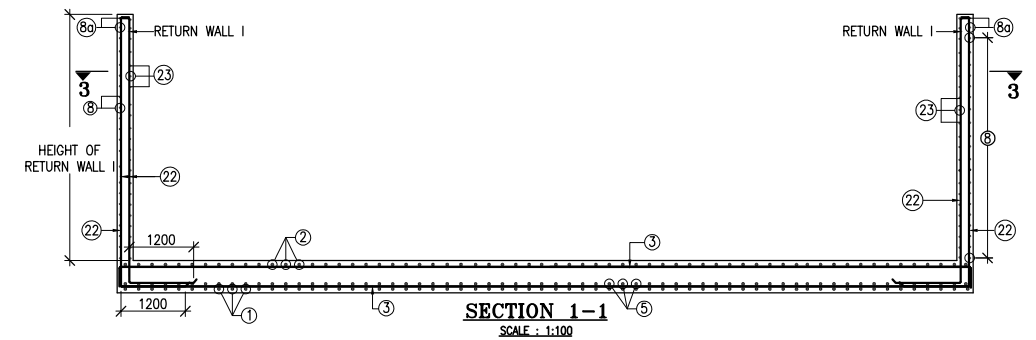
**REINFORCEMENT DETAIL OF FOUR CELL BOX CULVERT**  
SCALE : 1:60



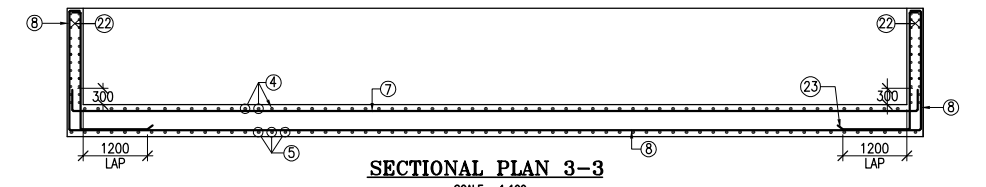
**BOTTOM SLAB R/F PLAN**  
(HAUNCH LINES ARE NOT SHOWN IN PLAN)  
SCALE : 1:60



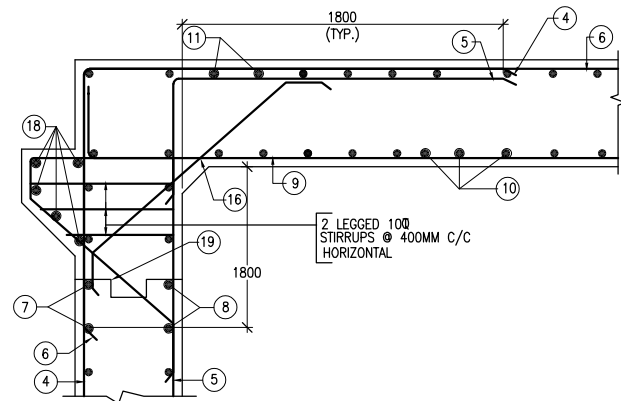
**SECTION 2-2**  
(SHOWING RETURN WALL- II)  
SCALE : 1:60



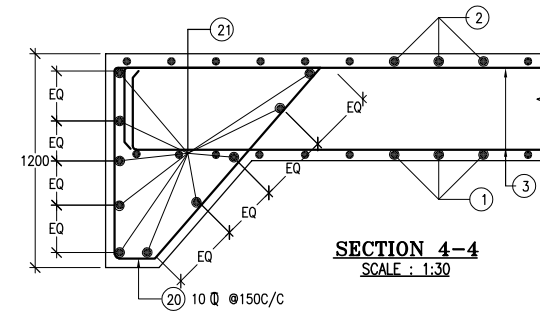
**SECTION 1-1**  
SCALE : 1:100



**SECTIONAL PLAN 3-3**  
SCALE : 1:100



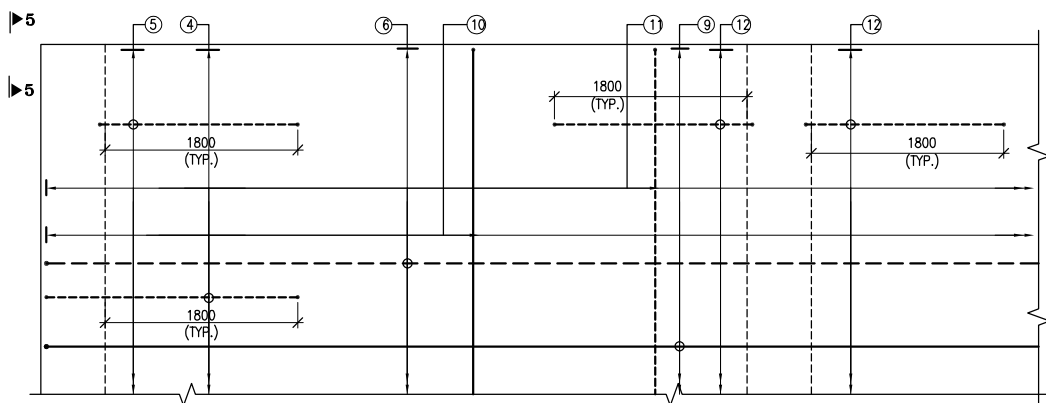
**DETAIL- A**  
SCALE : 1:30



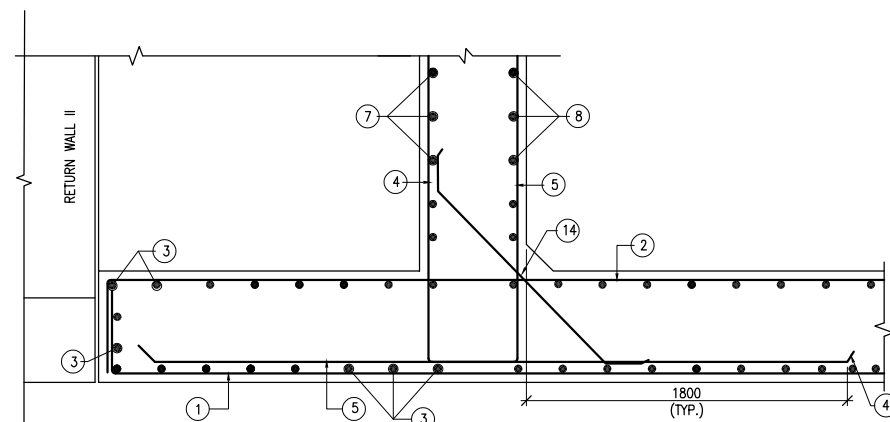
**SECTION 4-4**  
SCALE : 1:30

**SCHEDULE OF REINFORCEMENT**

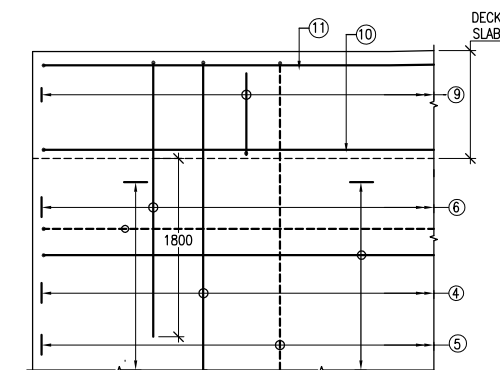
SL. NO.	BAR MARK	DIA. OF BARS (mm)	SPACING (mm)	SL. NO.	BAR MARK	DIA. OF BARS (mm)	SPACING (mm)
1.	1	16	150	21.	20	10	150
2.	2	16	150	22.	21	10	10(Nos)
3.	3	12	200	23.	22	12	200
4.	4	20	150	24.	23	20	150
5.	5	20	150	25.	24	20	125
6.	6	16	150	26.	25a	20	125
7.	7	12	200	27.	25b	20	125
8.	8	12	200	28.	26	12	200
9.	8a	12	5(Nos)	29.	27	20	150
10.	9	16	150	30.	28	20	150
11.	10	12	200	31.	29	32	125
12.	11	20	150	32.	30	32	200
13.	12	16	150				
14.	13	12	200				
15.	14	12	200				
16.	15	12	200				
17.	16	12	200				
18.	17	12	200				
19.	18	12	5(Nos)				
20.	19	12	200				



**TOP SLAB R/F PLAN**  
(KERB, BRACKET & HAUNCH LINES ARE NOT SHOWN IN PLAN)  
SCALE : 1:50



**DETAIL- B**  
SCALE : 1:30

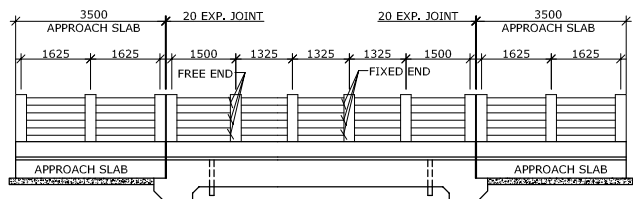


**VIEW 5-5**  
(HAUNCH BARS ARE NOT SHOWN)  
SCALE : 1:30

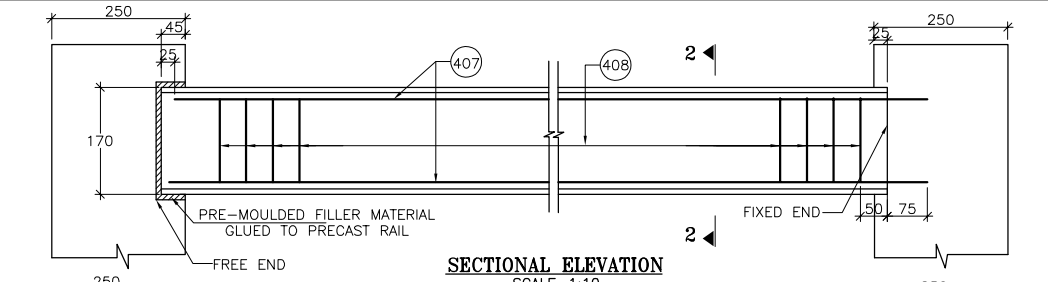
**LEGEND:-**  
REAR FACE / TOP FACE / EARTH FACE BAR - - - - -  
FRONT FACE / BOTTOM FACE / OPPOSITE TO EARTH FACE BAR - - - - -

**NOTES :**  
1. ALL DIMENSIONS ARE IN MM.  
2. CONC. GRADE SHALL BE M-30 & M-25 WHERE APPLICABLE.  
3. ALL REINFORCING STEEL SHALL BE OF HYSD BARS (GRADE DESIGNATION Fe-500) CONFORMING TO IS: 1786.  
4. CLEAR COVER =TOP SLAB 40MM, SIDE WALL 50MM, BOTTOM SLAB 75.  
5. LAP LENGTH & DEVELOPMENT LENGTH (L<sub>d</sub>) OF REINFORCING BARS SHALL BE DONE IN ACCORDANCE WITH RELEVANT CLAUSE IRC : 112-2011.  
6. WELDING OF BARS SHALL NOT BE PERMITTED.  
7. SHARP EDGES OF CONCRETE WILL NOT BE PERMITTED.  
8. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO: CET/BDG/2015/3580/NH-208/FDPR/MN/GA (SHEET NO. 01 & 02)  
CET/BDG/2015/3580/NH-208/FDPR/MN/MISC (SHEET NO. 01 OF 01)

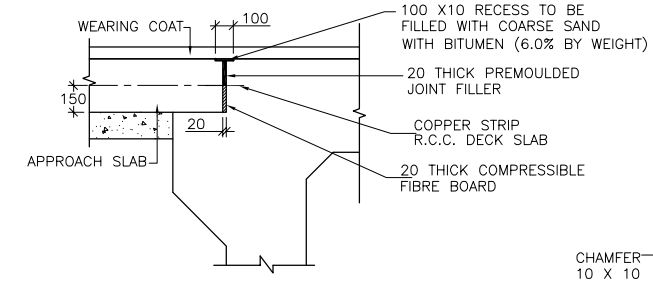
SCALE: AS SHOWN					CLIENT: Public Works Department Government of Tripura		National Highways & Infrastructure Development Corporation Ltd.		REINFORCEMENT DETAILS OF 1X6.0MX7.0M RCC BOX BRIDGE		CONSULTANT : <b>CETEST</b> Engineering Consultants An ISO 9001, 14001 & OHSAS 18001 Certified Company		Dwg. No. CET/BDG/2015/3580/NH-208/FDPR/MN/RCC	
DATE: Nov,2019					PROJECT: Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening to Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)		ROAD NAME: Kailashahar to Teliamura Section of NH-208		Package:-VI (Km 101+300 to Km 127+319)		CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.		Revision Mkd. - R0	
REVISIONS													Sheet No. - 01 of 01	
													Drawn By. S.D	
													Design By. S.B	
													Checked By. A.D	
													Approved By. B.K	



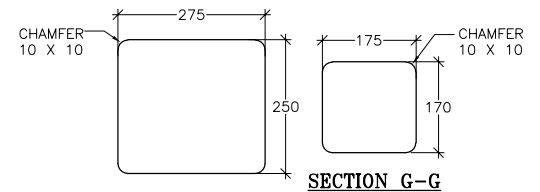
**GENERAL ARRANGEMENT OF R.C.C. RAILING (1X6.0X7.0) BOX BRIDGE**  
SCALE - 1:125



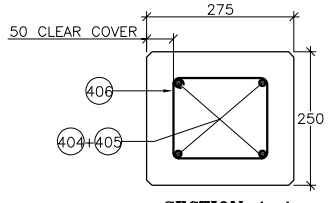
**SECTIONAL ELEVATION**  
SCALE-1:10



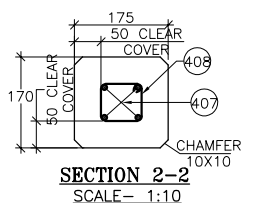
**DETAILS OF FILLER JOINT**  
SCALE- 1:30



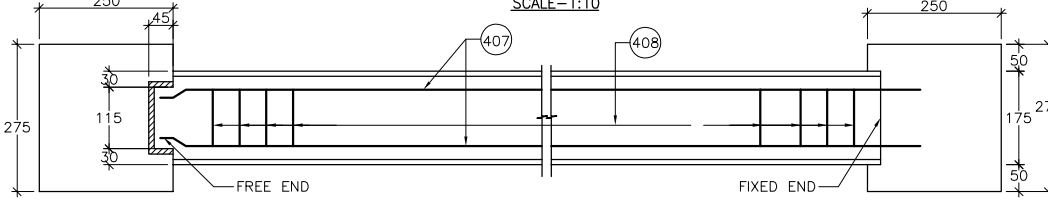
**SECTION F-F**  
**SECTION G-G**  
**DETAILS OF HANDRAIL & POST**  
SCALE-1:10



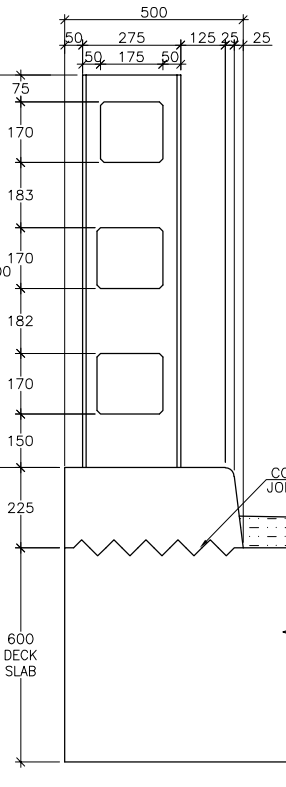
**SECTION 1-1**  
SCALE- 1:10



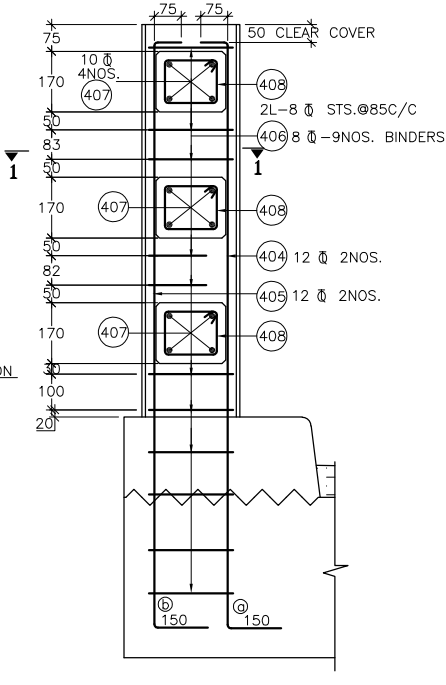
**SECTION 2-2**  
SCALE- 1:10



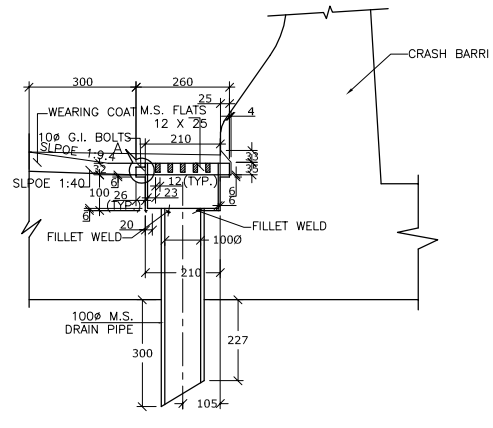
**PLAN**  
**DETAIL OF PRECAST HANDRAIL**  
SCALE-1:10



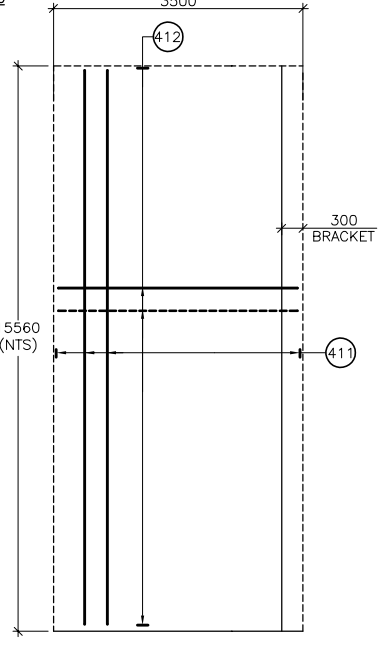
**SECTION THROUGH POST (FOR GENERAL ARRANGEMENT)**  
SCALE-1:15



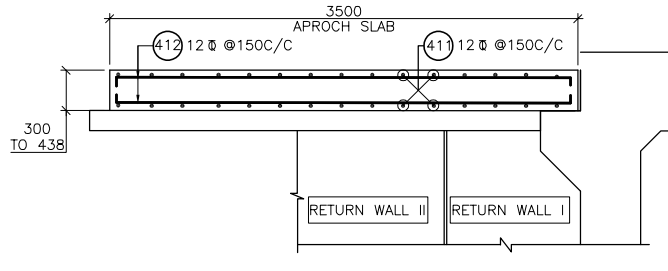
**SECTION THROUGH POST (FOR REINFORCEMENT DETAIL)**  
SCALE-1:15



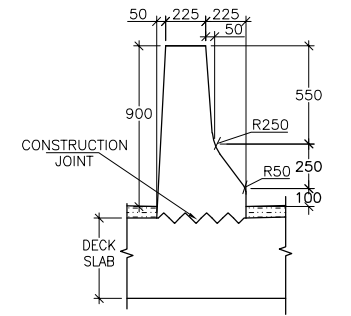
**SECTION 3-3**  
SCALE- 1:15



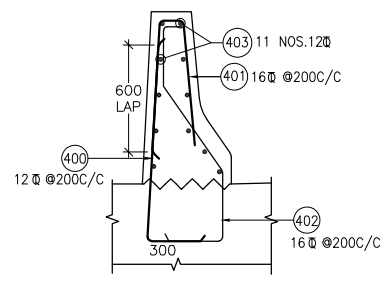
**PLAN OF APPROACH SLAB (REINFORCEMENT DETAIL)**  
SCALE 1:75



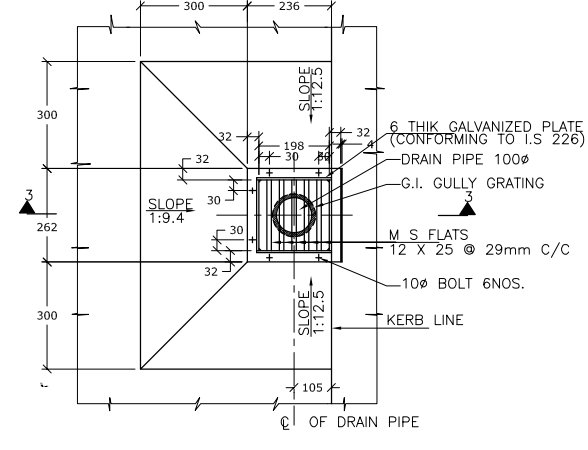
**DETAILS OF APPROACH SLAB (REINFORCEMENT DETAIL)**  
SCALE 1:40



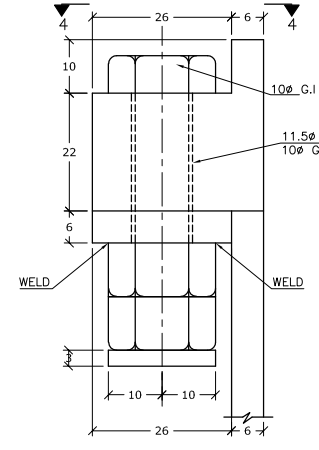
**DETAILS OF CRASH BARRIER (FOR GENERAL ARRANGEMENT)**  
SCALE-1:30



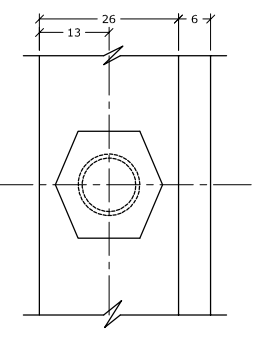
**RCC OF CRASH BARRIER**  
SCALE-1:30



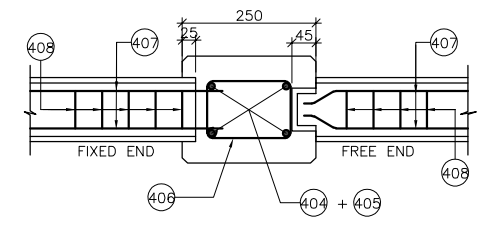
**PLAN**  
**DETAIL OF DRAINAGE SPOUT AND COLLECTION PIT**  
SCALE- 1:15



**DETAIL - A**  
SCALE- 1:1



**PLAN AT 4-4**  
SCALE- 1:1



**REINFORCEMENT ARRANGEMENT OF HAND RAIL & POST**  
SCALE-1:10

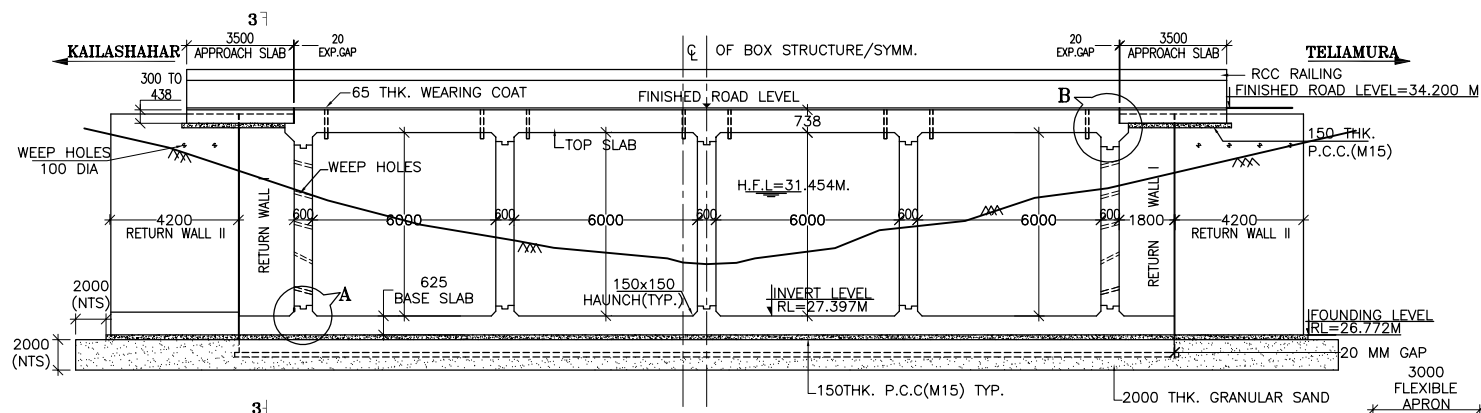
**NOTE :**  
1. ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE NOTED.

**NOTES FOR RAILING :**  
1. REINFORCEMENT OF RAILING POST SHOULD BE SUITABLY ANCHORED IN DECK SLAB.  
2. CASTING OF POST SHALL BE DONE IN SINGLE POUR AFTER ACCURATELY POSITIONING THE PRECAST HANDRAIL.  
3. RAILING SHALL BE CONSTRUCTED ONLY AFTER THE STRUCTURAL CONCRETE OF SUPERSTRUCTURE HAS HARDENED AND SHUTTERING IS RELEASED.  
4. EXPANSION GAPS IN RAILING SHALL BE PROVIDED AT THE SAME LOCATIONS AS IN THE DECK SLAB.

**NOTES FOR DRAINAGE SPOUT**  
1. ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED.  
2. ALL STEEL WORK SHALL BE AS PER IS - 2062.  
3. DRAINAGE SPOUT & COLLECTION PIT ASSEMBLY SHALL BE FABRICATED FROM MILD STEEL & AFTER FABRICATION, THE COMPLETE ASSEMBLY EXCEPT GRATING SHALL BE GIVEN A HOT DIPPED GALVANISED COATING.  
4. THE REINFORCEMENT OF TOP SLAB OF BOX SHALL BE SUITABLY MODIFIED TO ACCOMMODATE THE DRAINAGE SPOUT.  
5. THE DRAINAGE SPOUT SHALL BE GALVANIZED AFTER WELDING THE PLATES & FLATS.

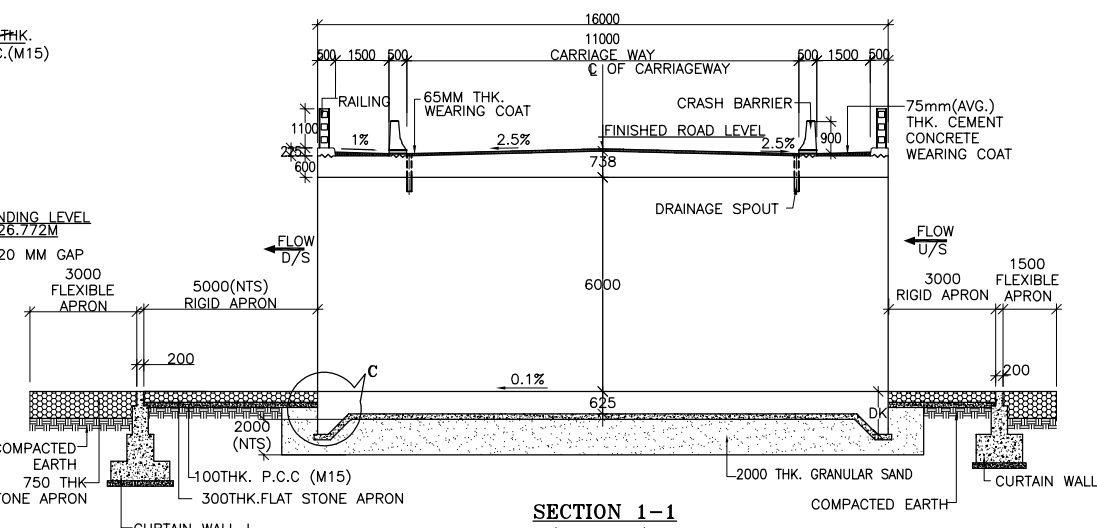
**REFERENCE DRAWINGS :**  
CET/BDG/2015/3580/NH-208/FDPR/MN/GA (SHEET NO. 01 & 02)  
CET/BDG/2015/3580/NH-208/FDPR/MN/RCC (SHEET NO. 01 OF 01)

					SCALE: AS SHOWN	CLIENT: Public Works Department Government of Tripura	National Highways & Infrastructure Development Corporation Ltd.	DETAILS OF DRAINAGE SPOUT, EXP. GAP RCC RAILING & CRASH BARRIER	CONSULTANT : <b>CETEST</b> Engineering Consultants An ISO 9001, 14001 & OHSAS 18001 Certified Company	Dwg. No. CET/BDG/2015/3580/NH-208/FDPR/MN/MISC	Revision Mkd. - R0			Sheet No. - 01 of 01	
					DATE: Nov, 2019	PROJECT: Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening of Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)	ROAD NAME: Kailashahar to Teliamura Section of NH-208	Package-VI (Km 101+300 to Km 127+319)	124-A, N.S.C. Bose Road Kolkata - 700092.	Drawn By. S.D	Design By. -	Checked By. A.D	Approved By. B.K		
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	REVISIONS										



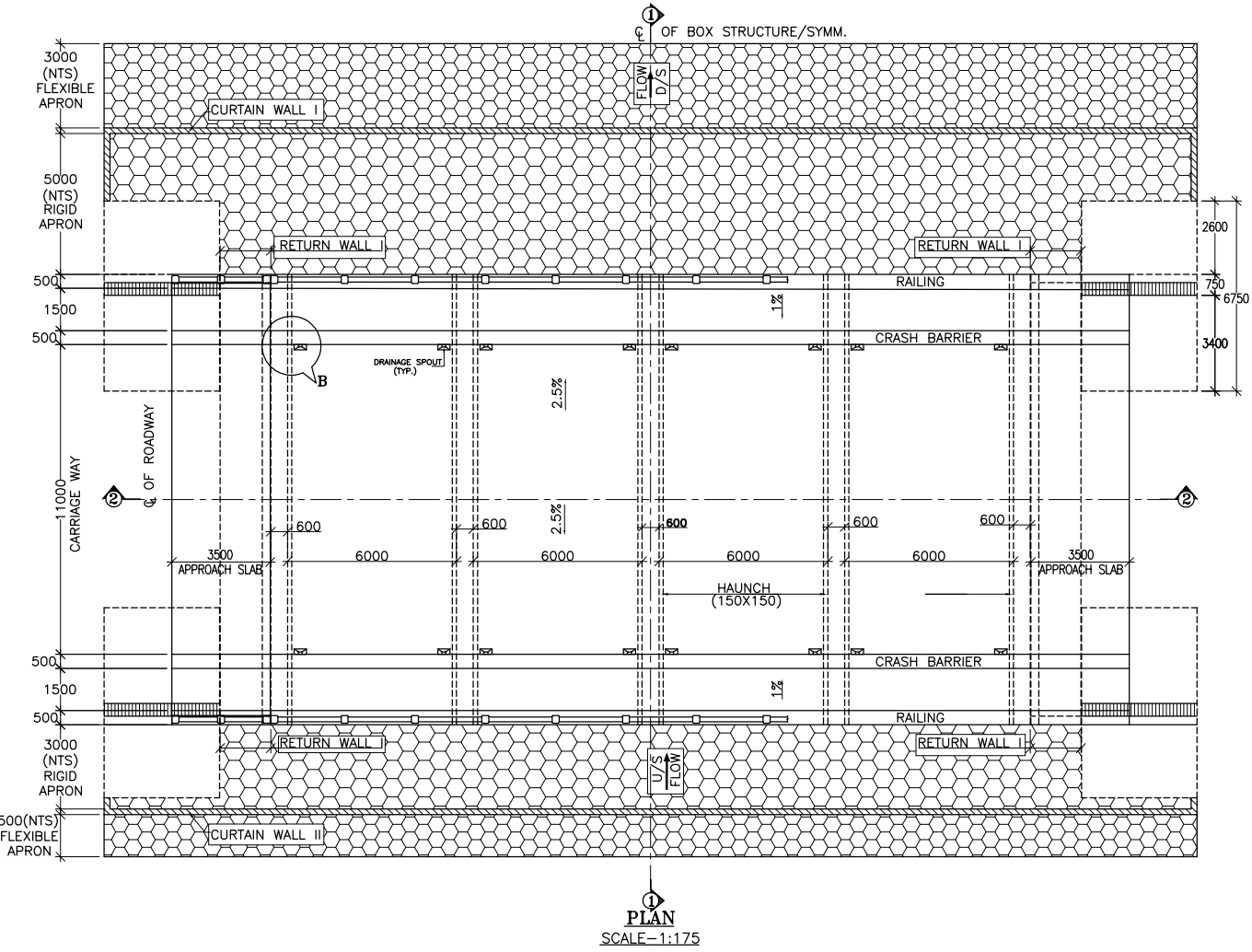
Elevation in Metre	32.52	30.864	29.851	29.625	29.278	29.159	29.093	29.128	29.278	29.612	30.197	30.502	31.259	31.566
Offset in Metre	16.45	11.22	6.234	5.010	1.285	0.779	0.000	0.973	1.580	4.195	5.657	8.463	10.728	13.120

SECTION 2-2  
(SCALE=1:175)

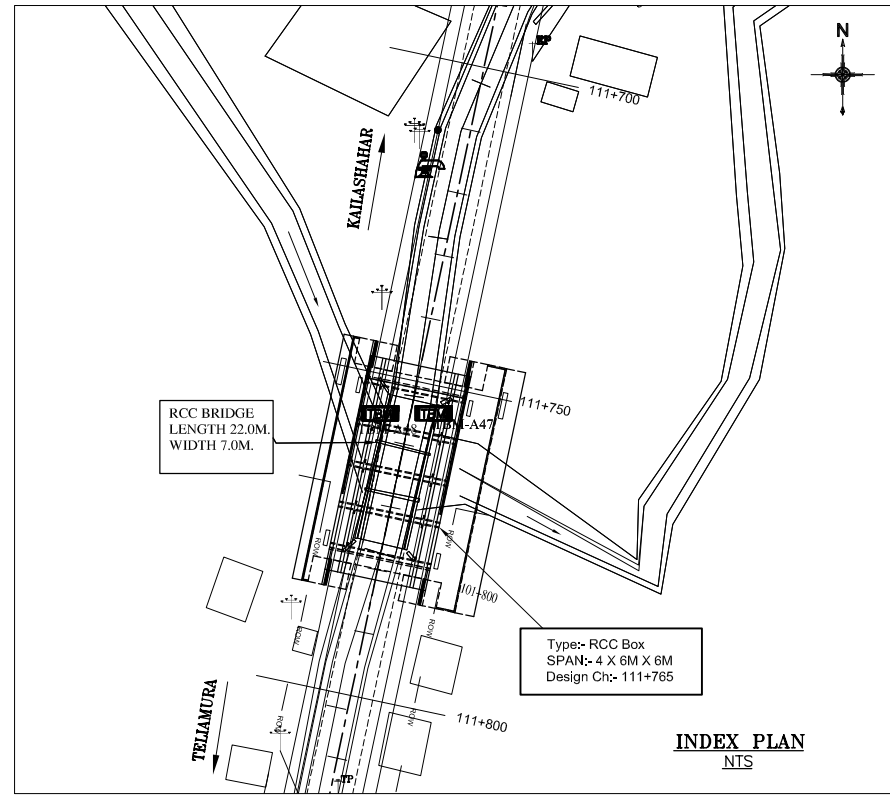


SECTION 1-1  
(SCALE=1:150)

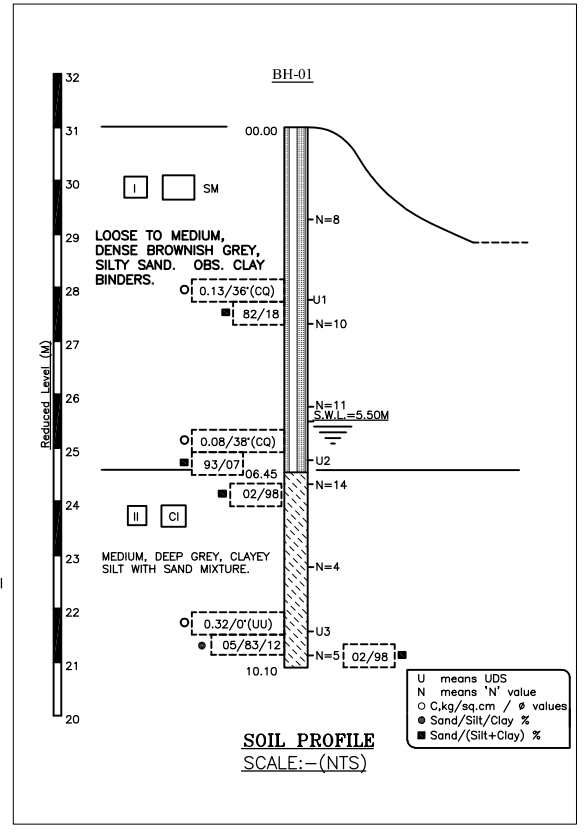
FOR BASE SLAB THICKNESS	UPTO 900mm	1200 mm	VALUE OF 'D'
	e>900 mm	e+300 mm	e = BASE SLAB THICKNESS



PLAN  
(SCALE=1:175)



INDEX PLAN  
NTS

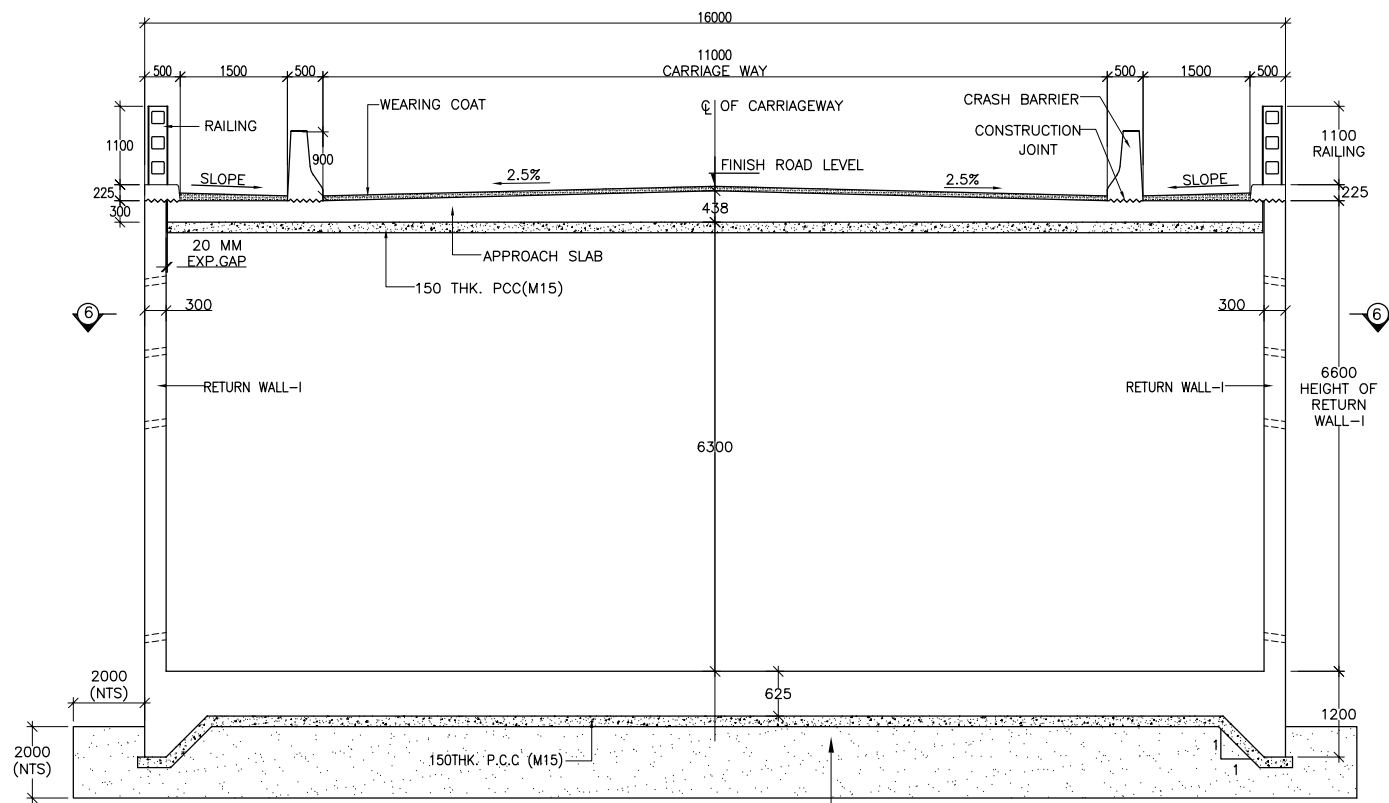


SOIL PROFILE  
SCALE:--(NTS)

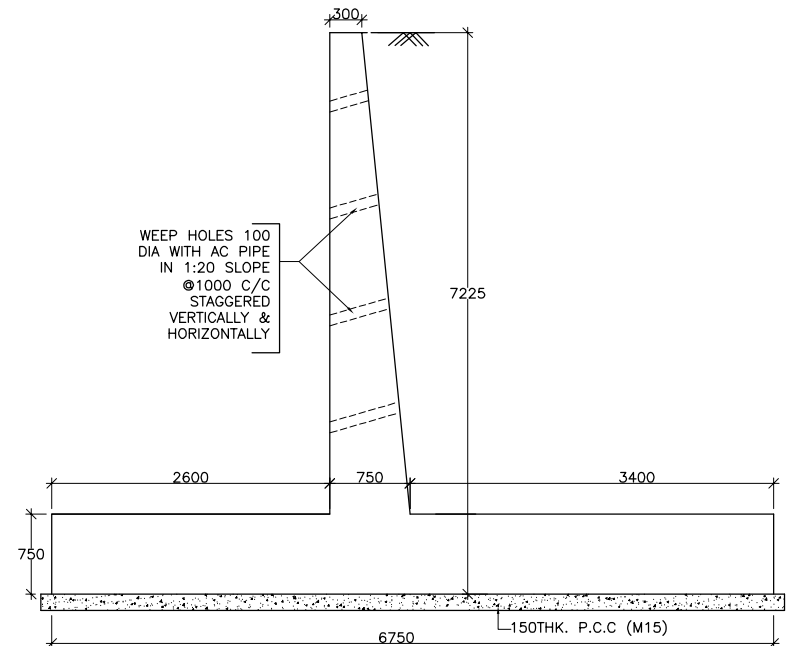
- NOTES :**
- ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE MENTIONED.
  - GRADE OF CONCRETE :-  
BOX STRUCTURE - M30  
RETURN WALL - M30  
APPROACH SLAB - M30  
RAILING - M30  
CURTAIN WALL - M20  
LEVELING COURSE(P.C.C) - M15  
CRASH BARRIER- M40 & KERB-M30
  - GRADE OF STEEL Fe-500 AS PER I.S.-1786.
  - CLASS A 3 LANES OR CLASS A 1 LANE+ CLASS 70R PRODUCING WORST EFFECT WILL BE CONSIDERED.
  - PROPERTIES OF BACKFILL SOIL  $\gamma=2.0t/m^3$ ,  $\phi=30^\circ$ .
  - FILTER MATERIAL BEHIND ABUTMENT AND RETURN WALL SHALL CONFORM TO CLAUSE 2504.2.2 OF MORTH SPECIFICATIONS TO A THICKNESS OF NOT LESS THAN 600mm. WITH SMALLER SIZE TOWARDS THE SOIL AND BIGGER SIZE TOWARDS THE WALL TO THE FULL HEIGHT.
  - SOFT AND LOOSE PATCHES IN THE BEARING AREA ARE TO BE REPLACED BY COMPACTED GRANULAR FILLS WITH LAYERS NOT EXCEEDING 300mm.
  - 2M SAND FILLING SHOULD BE PROVIDED BELOW THE RAFT FOUNDATION IN ORDER TO ATTAIN THE BEARING CAPACITY-10 T/Sqm
  - MAXIMUM SCOUR LEVEL-27.342 M.
  - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO. :-  
CET/BDG/2015/3580/NH-208/FDPR/MN/GA (SHEET NO 02 OF 02)  
CET/BDG/2015/3580/NH-208/FDPR/MN/RCC (SHEET NO 01 OF 01)  
CET/BDG/2015/3580/NH-208/FDPR/MN/MISC (SHEET NO 01 OF 01)

MKD.	DATE	DESCRIPTION	CHKD.	APPRD.
		REVISIONS		

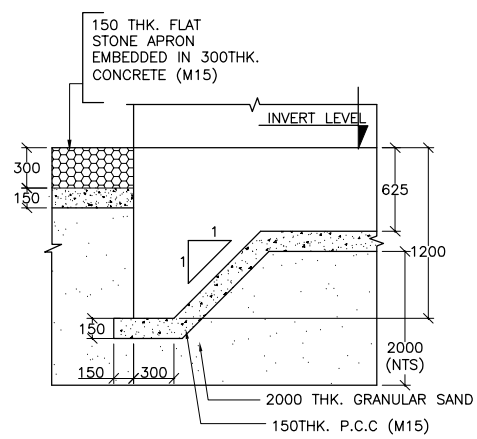
SCALE: AS SHOWN	CLIENT: Public Works Department Government of Tripura	National Highways & Infrastructure Development Corporation Ltd.	GENERAL ARRANGEMENT OF FOUR CELL R.C.C BOX BRIDGE (4X6.0M X 6.0M) (AT CHAINAGE- 111.765KM)	CONSULTANT : <b>CETEST</b> CE TESTING COMPANY PVT. LTD. Engineering Consultants An ISO 9001, 14001 & CEI/ISS 18001 Certified Company	Dwg. No. CET/BDG/2015/3580/NH-208/FDPR/MN/GA	Revision Mkd. - R0	Sheet No. - 01 of 02
DATE: Nov, 2019	PROJECT: Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening to Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)	ROAD NAME: Kailashahar to Teliamura Section of NH-208 Package-VI (Km 101+300 to Km 127+319)	124-A, N.S.C. Bose Road Kolkata - 700092.	Drawn By. T.G	Design By. R.M	Checked By. A.D	Approved By. B.K



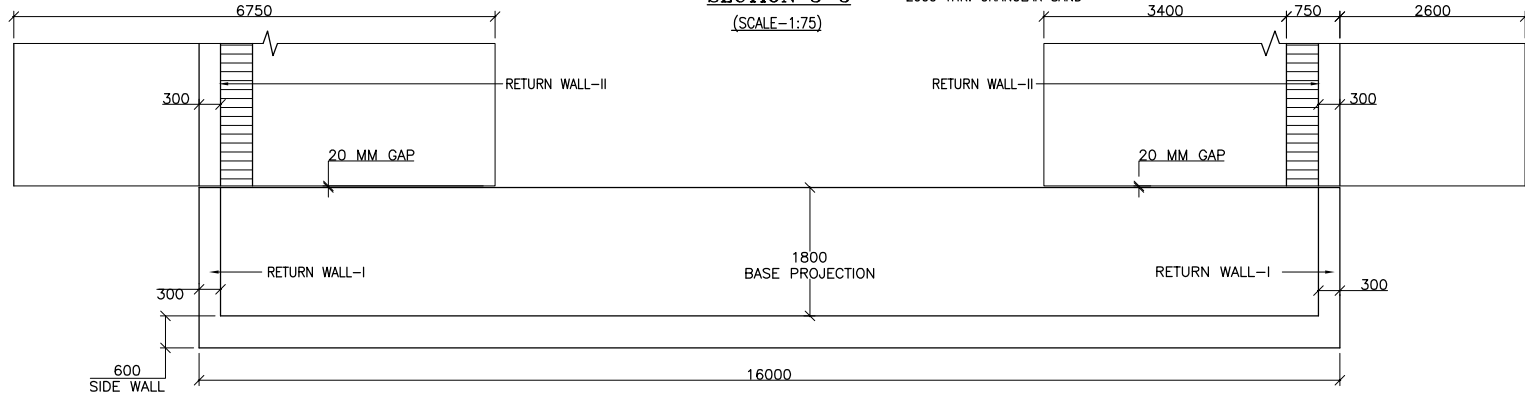
**SECTION 3-3**  
(SCALE-1:75)



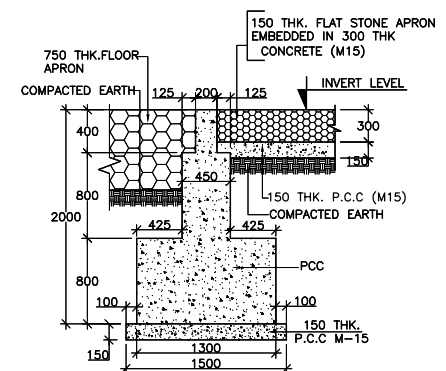
**SECTION 4-4**  
(SHOWING RETURN WALL-II)  
(SCALE-1:50)



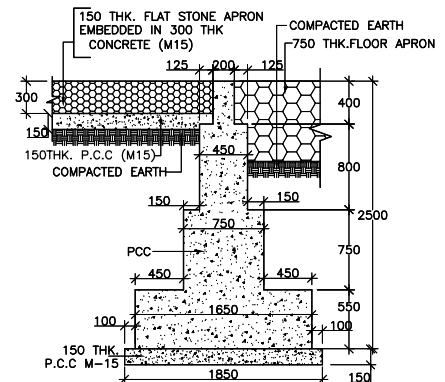
**DETAIL 'C'**  
(SCALE-1:40)



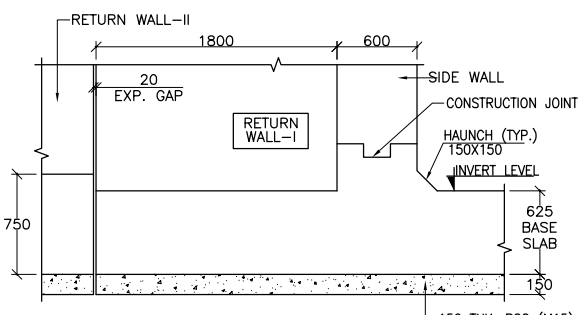
**SECTIONAL PLAN 6-6**  
SCALE:- 1:75



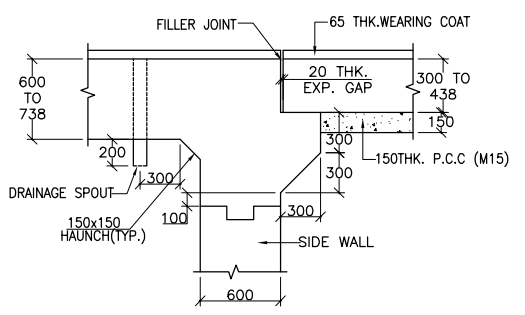
**TYPICAL CROSS SECTION OF CURTAIN WALL TYPE-II (U/S)**  
(SCALE 1:50)



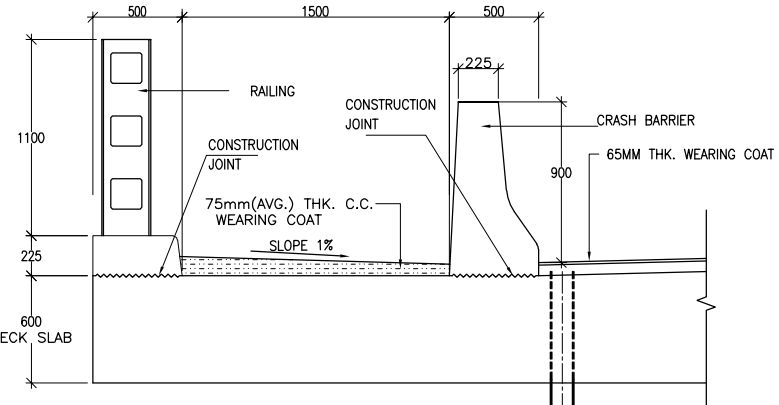
**TYPICAL CROSS SECTION OF CURTAIN WALL TYPE-I (D/S)**  
(SCALE 1:50)



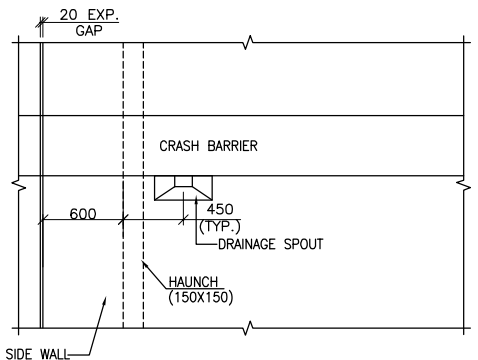
**DETAIL 'A'**  
SCALE-1:40



**DETAIL 'B'**  
SCALE-1:40



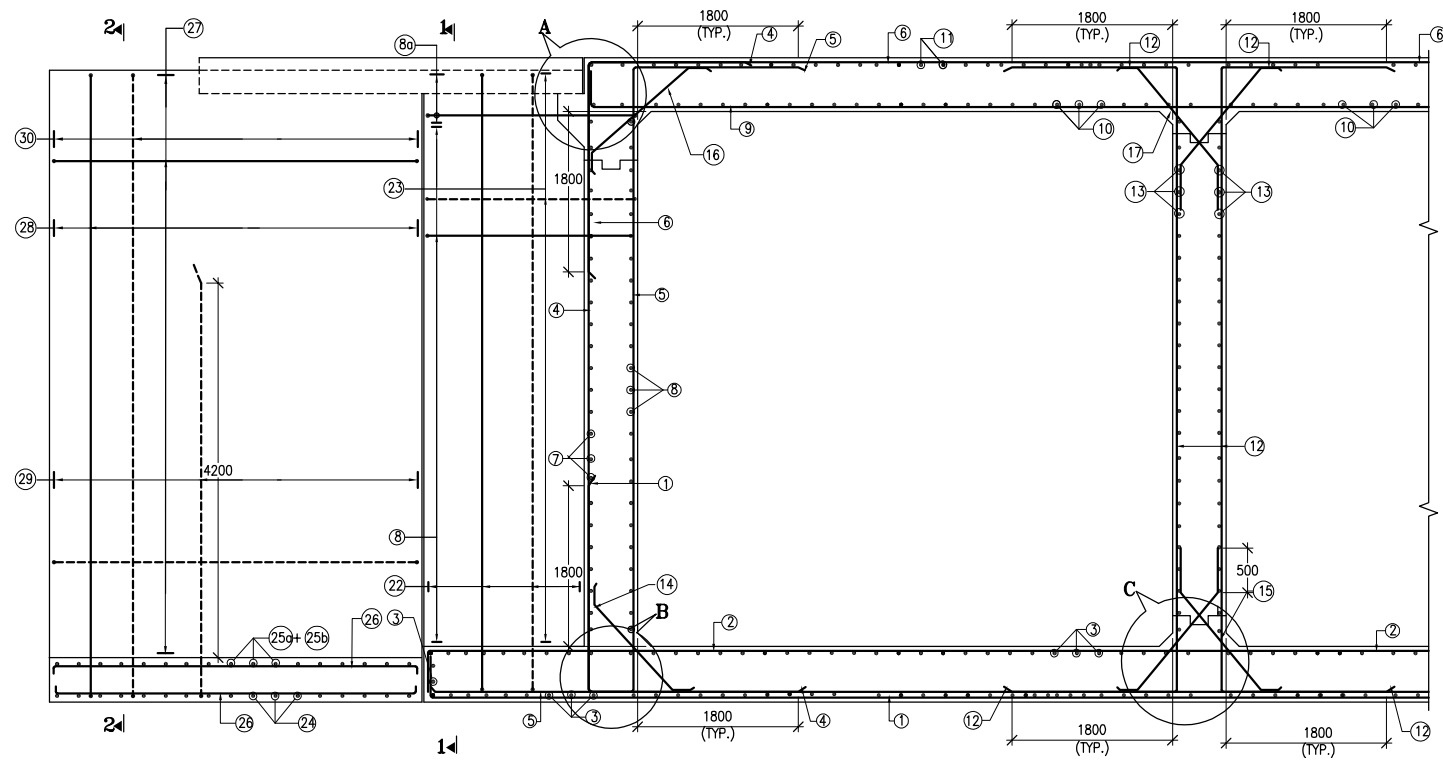
**DETAIL OF CRASH BARRIER & RAILING**  
SCALE - 1:30



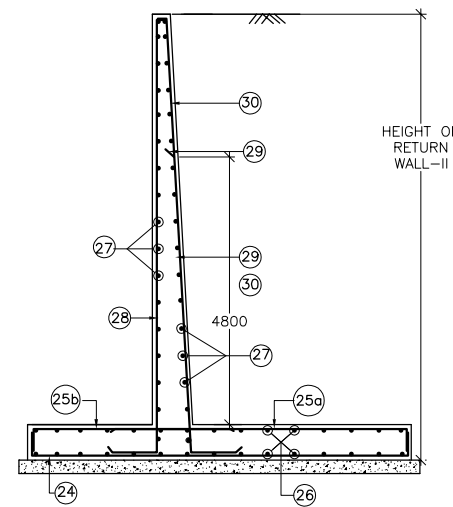
**DETAIL 'D'**  
(SCALE-1:40)

**NOTES :**  
 1. ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE MENTIONED.  
 2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO.:-  
 CET/BDG/2015/3580/NH-208/FDPR/MN/GA (SHEET NO 01 OF 02)  
 CET/BDG/2015/3580/NH-208/FDPR/MN/RCC (SHEET NO 01 OF 01)  
 CET/BDG/2015/3580/NH-208/FDPR/MN/MISC (SHEET NO 01 OF 01)

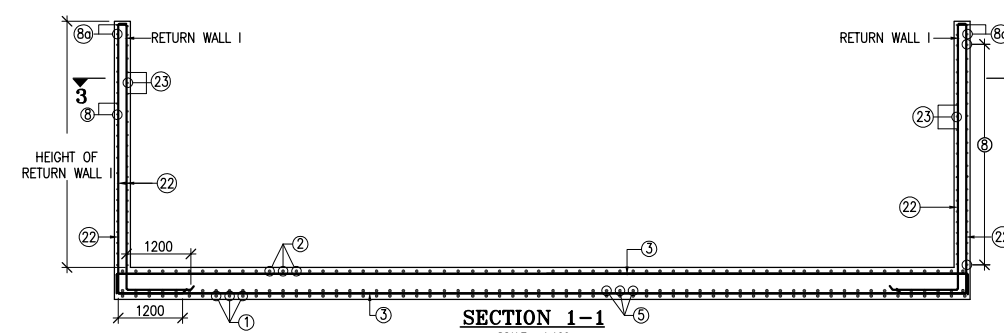
SCALE: AS SHOWN					CLIENT: Public Works Department Government of Tripura		National Highways & Infrastructure Development Corporation Ltd.		GENERAL ARRANGEMENT OF FOUR CELL R.C.C BOX BRIDGE 4X6.0 MX 6.0M		CONSULTANT : <b>CETEST</b> Engineering Consultants An ISO 9001, 14001 & CEHS/5518001 Certified Company		Dwg. No. CET/BDG/2015/3580/NH-208/FDPR/MN/GA			
DATE: Nov, 2019					PROJECT: Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening to Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)		ROAD NAME: Kailashahar to Teliamura Section of NH-208		Package:-VI (Km 101+300 to Km 127+319)		CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.		Revision Mkd. - R0		Sheet No. - 02 of 02	
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.									Drawn By.	Design By.	Checked By.	Approved By.
REVISIONS													T.G	R.M	A.D	B.K



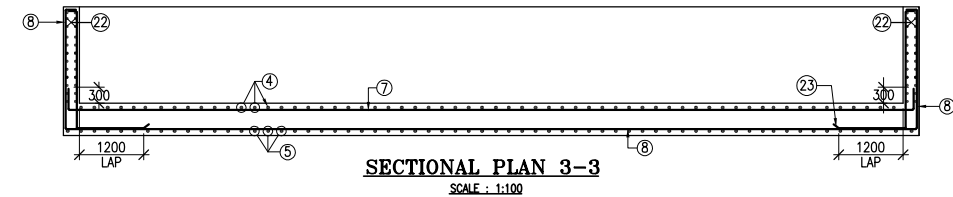
**REINFORCEMENT DETAIL OF FOUR CELL BOX CULVERT**  
SCALE : 1:60



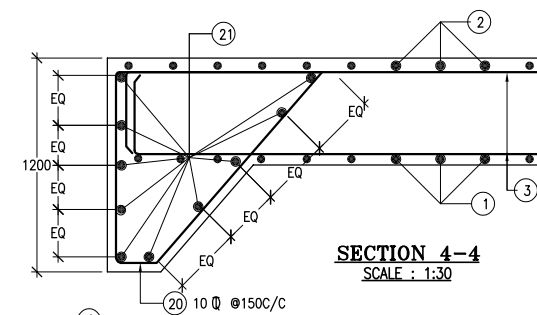
**SECTION 2-2 (SHOWING RETURN WALL - II)**  
SCALE - 1:60



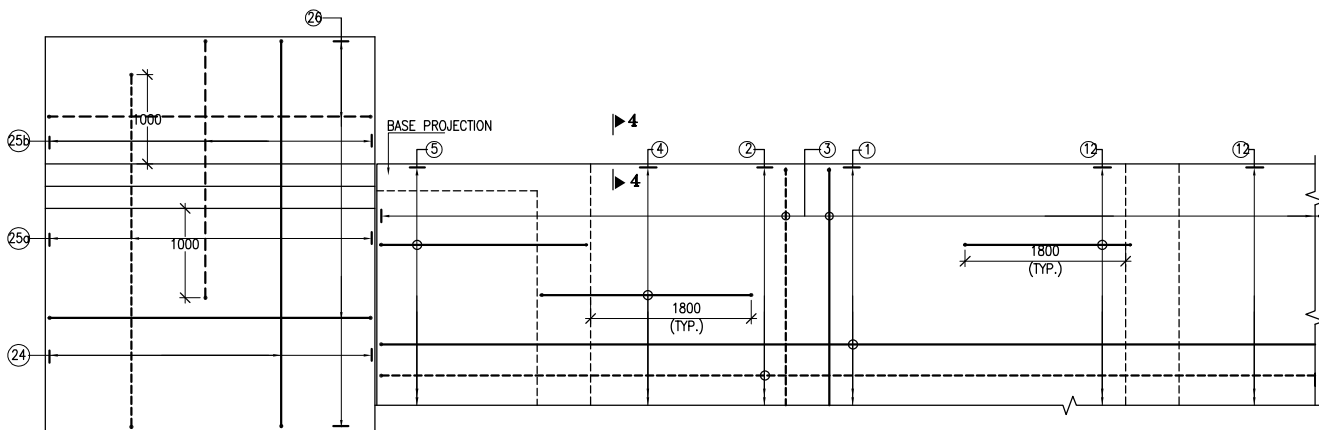
**SECTION 1-1**  
SCALE : 1:100



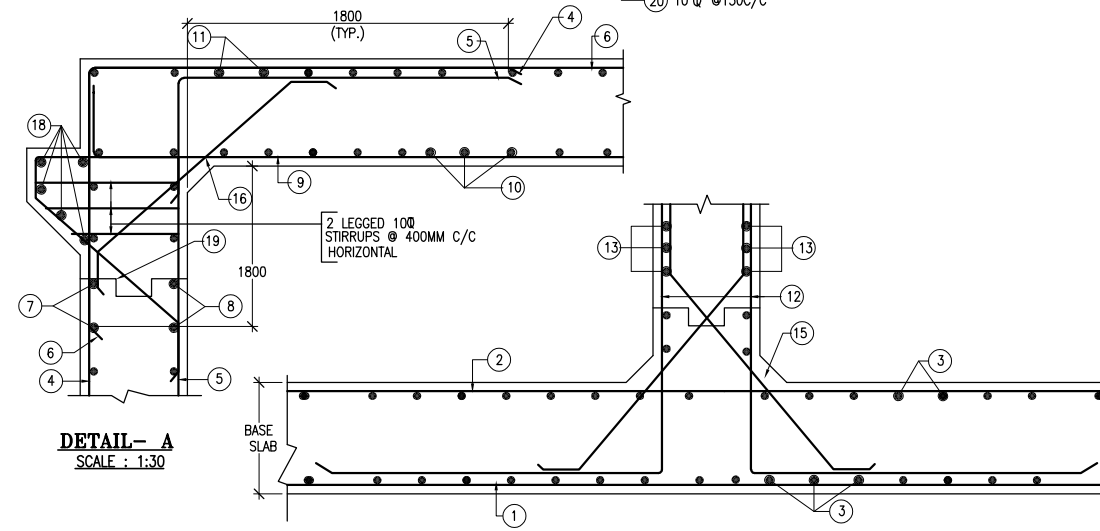
**SECTIONAL PLAN 3-3**  
SCALE : 1:100



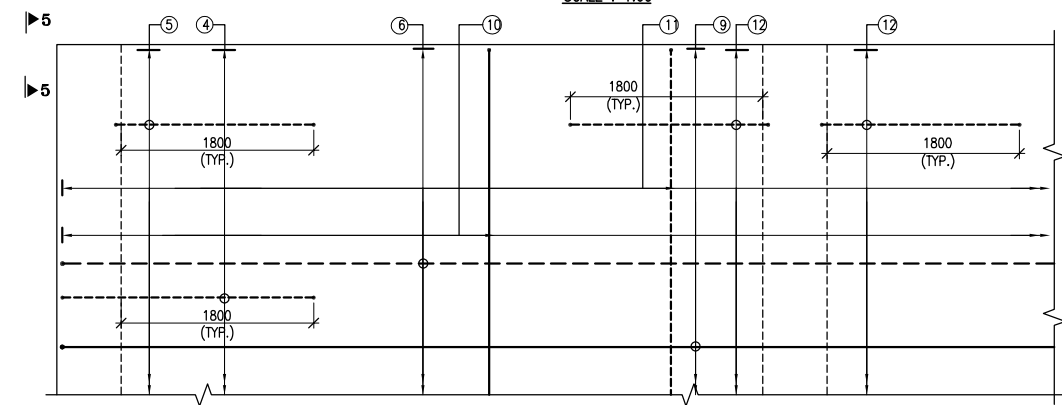
**SECTION 4-4**  
SCALE : 1:30



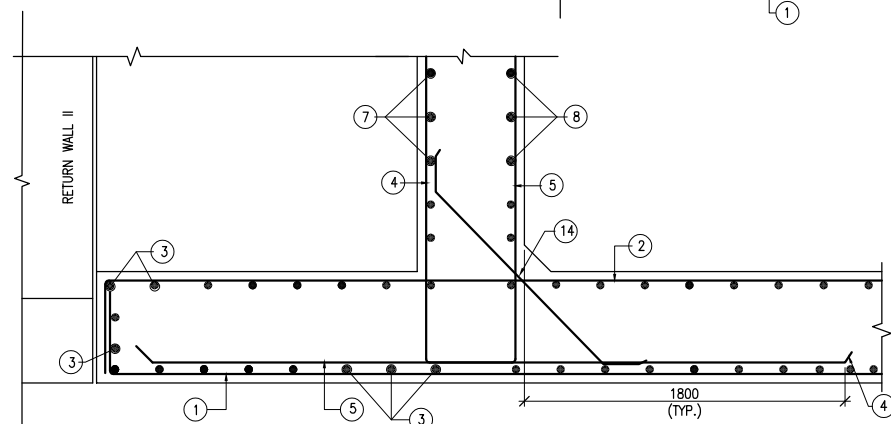
**BOTTOM SLAB R/F PLAN (HAUNCH LINES ARE NOT SHOWN IN PLAN)**  
SCALE : 1:60



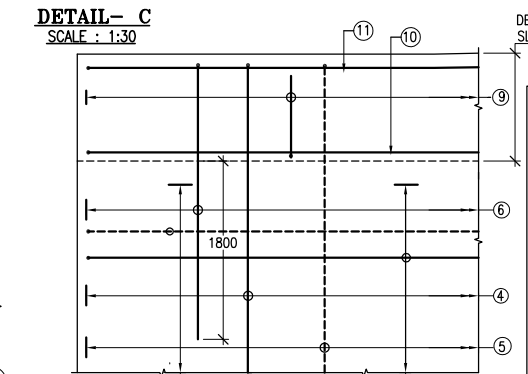
**DETAIL - A**  
SCALE : 1:30



**TOP SLAB R/F PLAN (KERB, BRACKET & HAUNCH LINES ARE NOT SHOWN IN PLAN)**  
SCALE : 1:50



**DETAIL - B**  
SCALE : 1:30



**DETAIL - C**  
SCALE : 1:30

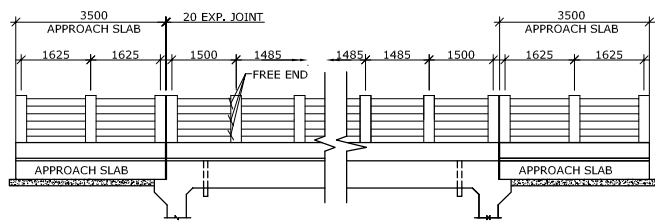
**VIEW 5-5 (HAUNCH BARS ARE NOT SHOWN)**  
SCALE : 1:30

SCHEDULE OF REINFORCEMENT							
SL. NO.	BAR MARK	DIA. OF BARS (mm)	SPACING (mm)	SL. NO.	BAR MARK	DIA. OF BARS (mm)	SPACING (mm)
1.	①	16	150	21.	⑳	10	150
2.	②	16	150	22.	㉑	10	10(Nos)
3.	③	12	200	23.	㉒	12	200
4.	④	20	150	24.	㉓	20	150
5.	⑤	20	150	25.	㉔	20	150
6.	⑥	16	150	26.	㉕a	20	150
7.	⑦	12	200	27.	㉕b	16	150
8.	⑧	12	200	28.	㉖	12	125
9.	⑧a	12	5(Nos)	29.	㉗	12	225
10.	⑨	16	150	30.	㉘	12	150
11.	⑩	12	200	31.	㉙	25	100
12.	⑪	20	150	32.	㉚	25	100
13.	⑫	16	150				
14.	⑬	12	200				
15.	⑭	12	200				
16.	⑮	12	200				
17.	⑯	12	200				
18.	⑰	12	200				
19.	⑱	12	5(Nos)				
20.	⑲	12	200				

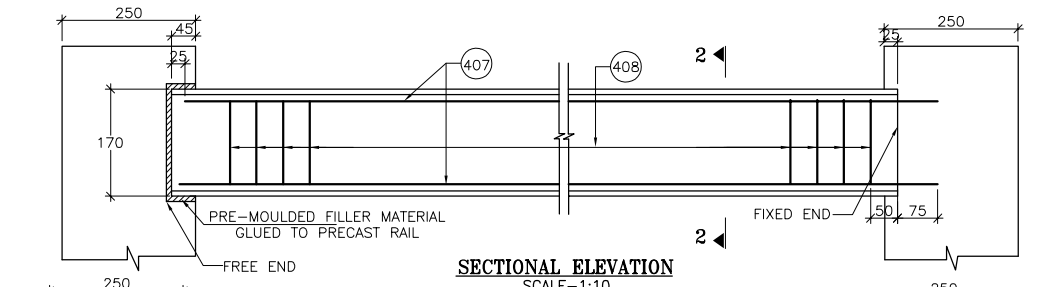
**LEGEND:-**  
 REAR FACE / TOP FACE / EARTH FACE BAR -----  
 FRONT FACE / BOTTOM FACE / OPPOSITE TO EARTH FACE BAR \_\_\_\_\_

**NOTES :**  
 1. ALL DIMENSIONS ARE IN MM.  
 2. CONC. GRADE SHALL BE M-30 & M-25 WHERE APPLICABLE.  
 3. ALL REINFORCING STEEL SHALL BE OF HYSD BARS (GRADE DESIGNATION Fe-500) CONFORMING TO IS: 1786.  
 4. CLEAR COVER =TOP SLAB 40MM, SIDE WALL 50MM, BOTTOM SLAB 75.  
 5. LAP LENGTH & DEVELOPMENT LENGTH (L<sub>d</sub>) OF REINFORCING BARS SHALL BE DONE IN ACCORDANCE WITH RELEVANT CLAUSE IRC : 112-2011.  
 6. WELDING OF BARS SHALL NOT BE PERMITTED.  
 7. SHARP EDGES OF CONCRETE WILL NOT BE PERMITTED.  
 8. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO: CET/BDG/2015/3580/NH-208/FDPR/MN/GA (SHEET NO. 01 & 02)  
 CET/BDG/2015/3580/NH-208/FDPR/MN/MISC (SHEET NO. 01 OF 01)

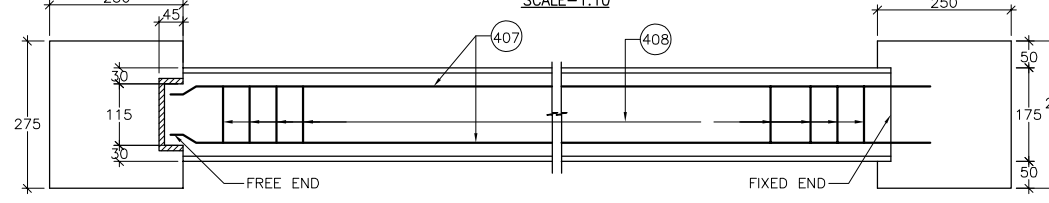
SCALE: AS SHOWN					CLIENT: Public Works Department Government of Tripura		National Highways & Infrastructure Development Corporation Ltd.		REINFORCEMENT DETAILS OF 4X6.0M X6.0M RCC BOX BRIDGE		CONSULTANT : <b>CETEST</b> CE TESTING COMPANY PVT. LTD. Engineering Consultants An ISO 9001, 14001 & OHSAS 18001 Certified Company		Dwg. No. CET/BDG/2015/3580/NH-208/FDPR/MN/RCC	
DATE: Nov,2019					PROJECT: Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening to Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)		ROAD NAME: Kailashahar to Teliamura Section of NH-208		Package:-VI (Km 101+300 to Km 127+319)		124-A, N.S.C. Bose Road Kolkata - 700092.		Revision Mkd. - R0	
REVISIONS											Drawn By. T.G		Design By. R.M	
											Checked By. A.D		Approved By. B.K	



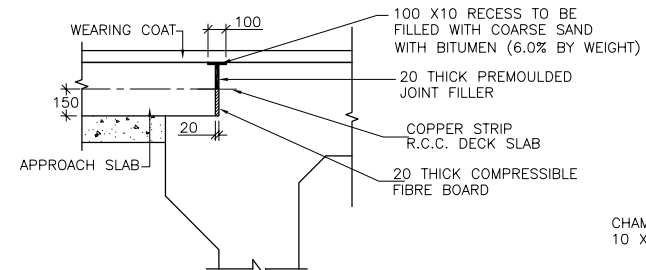
**GENERAL ARRANGEMENT OF R.C.C. RAILING  
4X6.0X6.0 BOX BRIDGE**  
SCALE - 1:125



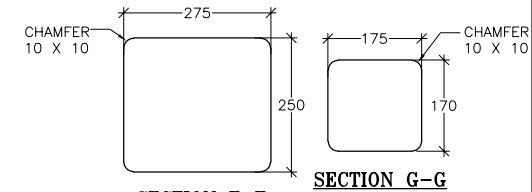
**SECTIONAL ELEVATION**  
SCALE-1:10



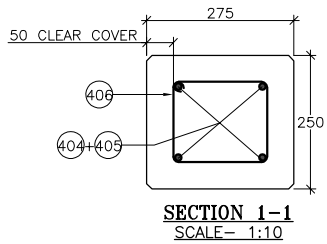
**PLAN  
DETAIL OF PRECAST HANDRAIL**  
SCALE-1:10



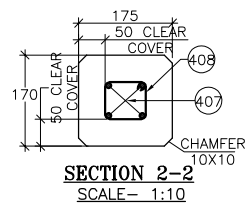
**DETAILS OF FILLER JOINT**  
SCALE- 1:30



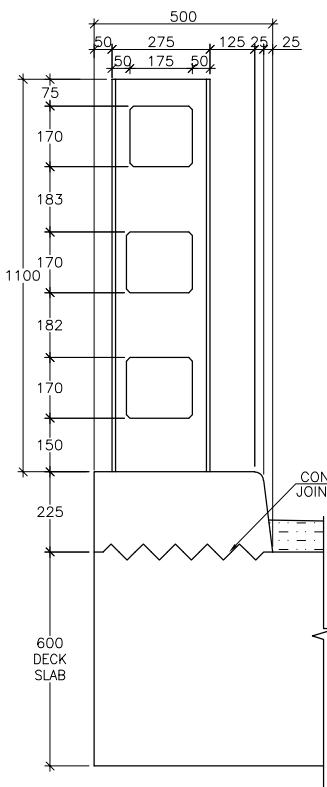
**SECTION F-F  
SECTION G-G  
DETAILS OF HANDRAIL & POST**  
SCALE-1:10



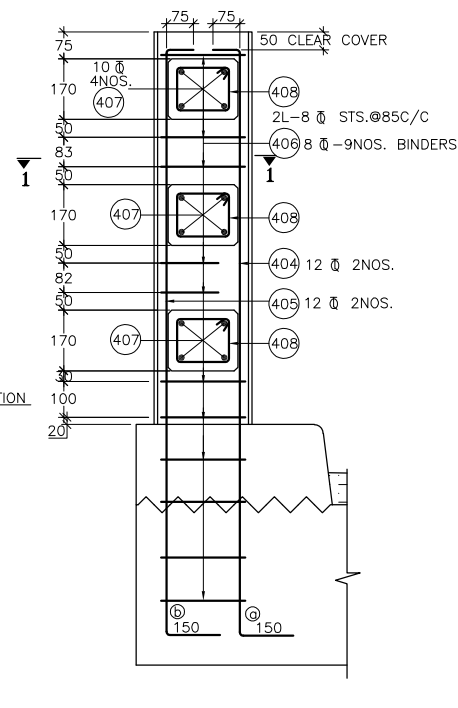
**SECTION 1-1**  
SCALE- 1:10



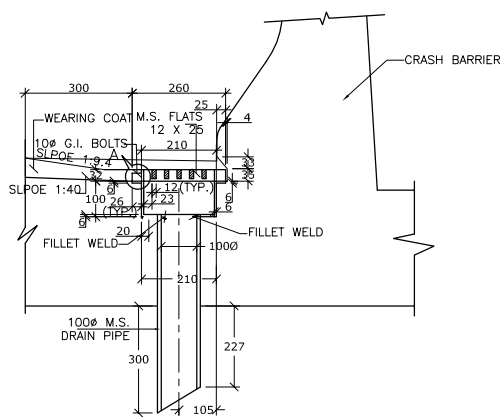
**SECTION 2-2**  
SCALE- 1:10



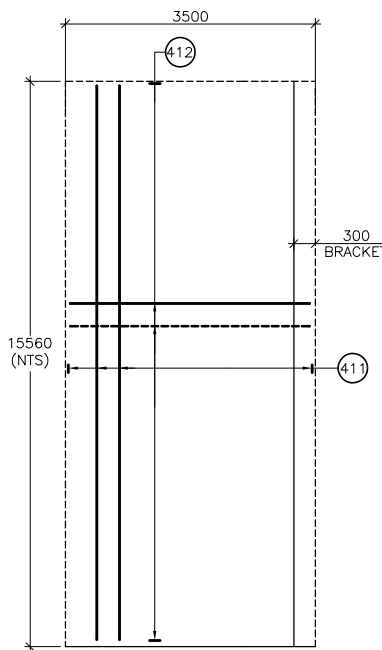
**SECTION THROUGH POST  
(FOR GENERAL ARRANGEMENT)**  
SCALE-1:15



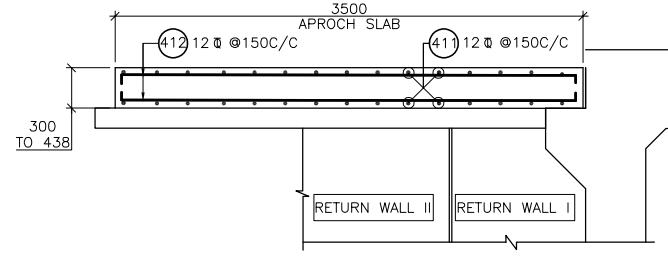
**SECTION THROUGH POST  
(FOR REINFORCEMENT DETAIL)**  
SCALE-1:15



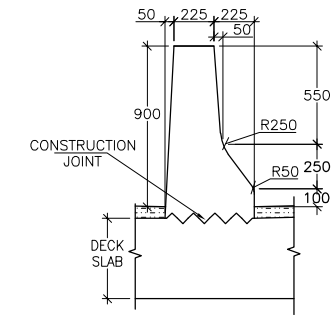
**SECTION 3-3**  
SCALE- 1:15



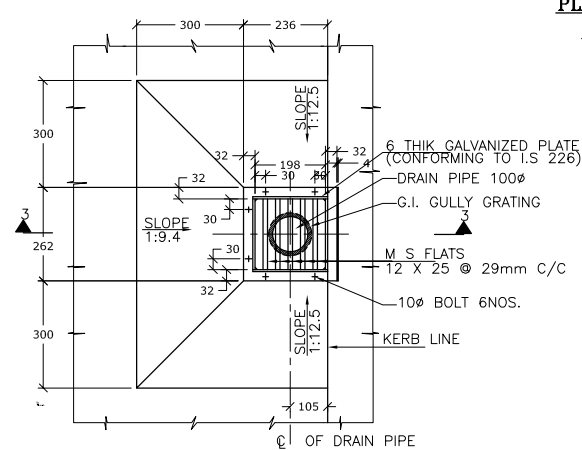
**PLAN OF APPROACH SLAB  
(REINFORCEMENT DETAIL)**  
SCALE 1:75



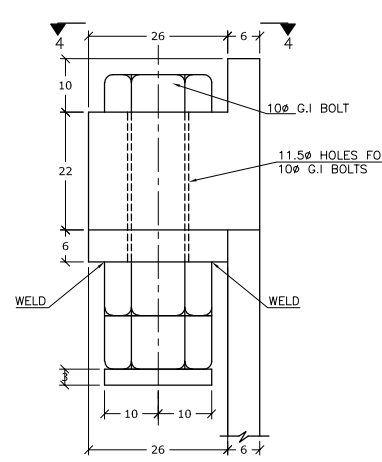
**DETAILS OF APPROACH SLAB  
(REINFORCEMENT DETAIL)**  
SCALE 1:40



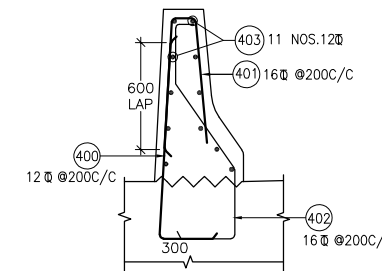
**DETAILS OF CRASH BARRIER  
(FOR GENERAL ARRANGEMENT)**  
SCALE-1:30



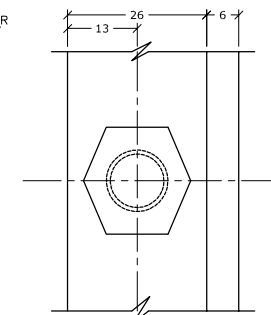
**PLAN  
DETAIL OF DRAINAGE  
SPOUT AND COLLECTION PIT**  
SCALE- 1:15



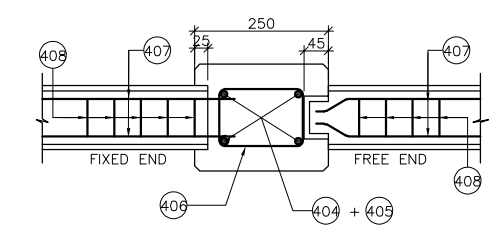
**DETAIL - A**  
SCALE- 1:1



**RCC OF CRASH BARRIER**  
SCALE-1:30



**PLAN AT 4-4**  
SCALE- 1:1



**REINFORCEMENT ARRANGEMENT OF HAND RAIL & POST**  
SCALE-1:10

**NOTE :**  
1. ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE NOTED.

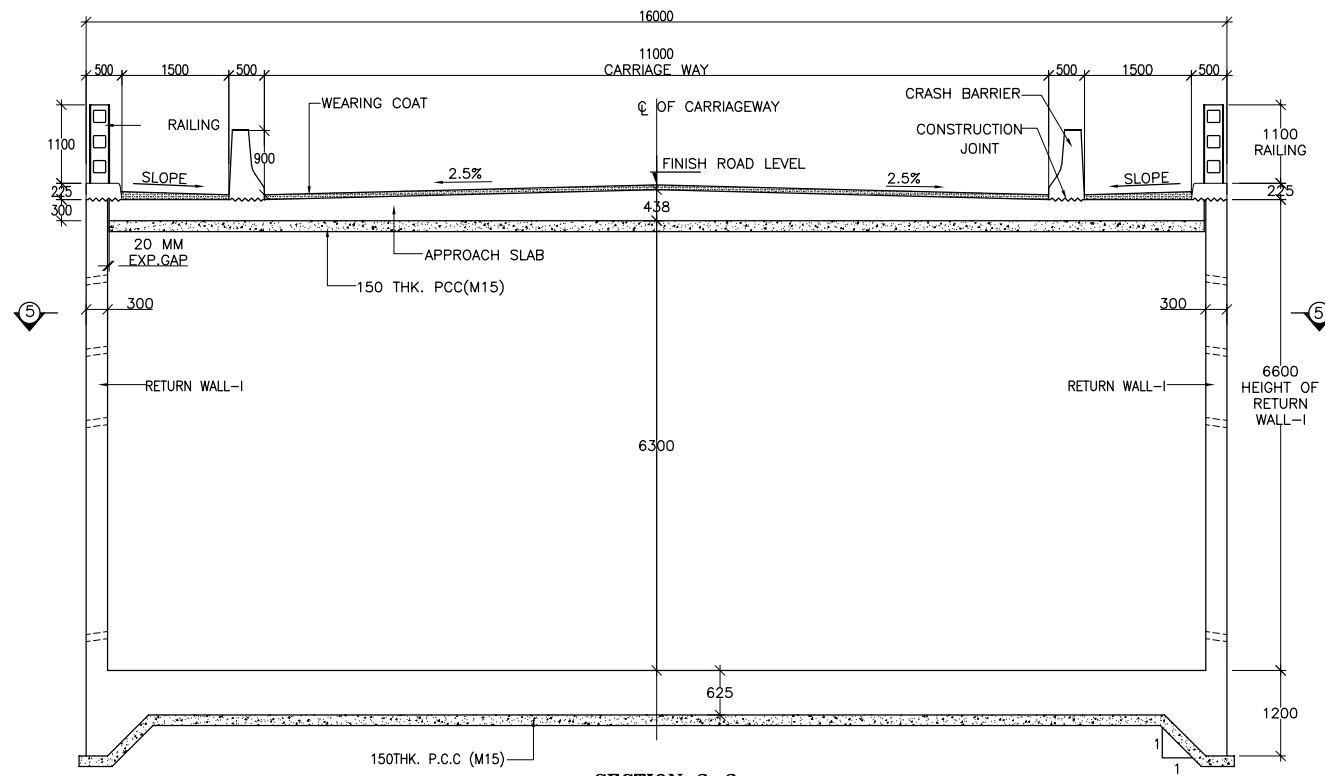
**NOTES FOR RAILING :**  
1. REINFORCEMENT OF RAILING POST SHOULD BE SUITABLY ANCHORED IN DECK SLAB.  
2. CASTING OF POST SHALL BE DONE IN SINGLE POUR AFTER ACCURATELY POSITIONING THE PRECAST HANDRAIL.  
3. RAILING SHALL BE CONSTRUCTED ONLY AFTER THE STRUCTURAL CONCRETE OF SUPERSTRUCTURE HAS HARDENED AND SHUTTERING IS RELEASED.  
4. EXPANSION GAPS IN RAILING SHALL BE PROVIDED AT THE SAME LOCATIONS AS IN THE DECK SLAB.

**NOTES FOR DRAINAGE SPOUT**  
1. ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED.  
2. ALL STEEL WORK SHALL BE AS PER IS - 2062.  
3. DRAINAGE SPOUT & COLLECTION PIT ASSEMBLY SHALL BE FABRICATED FROM MILD STEEL & AFTER FABRICATION, THE COMPLETE ASSEMBLY EXCEPT GRATING SHALL BE GIVEN A HOT DIPPED GALVANISED COATING.  
4. THE REINFORCEMENT OF TOP SLAB OF BOX SHALL BE SUITABLY MODIFIED TO ACCOMMODATE THE DRAINAGE SPOUT.  
5. THE DRAINAGE SPOUT SHALL BE GALVANIZED AFTER WELDING THE PLATES & FLATS.

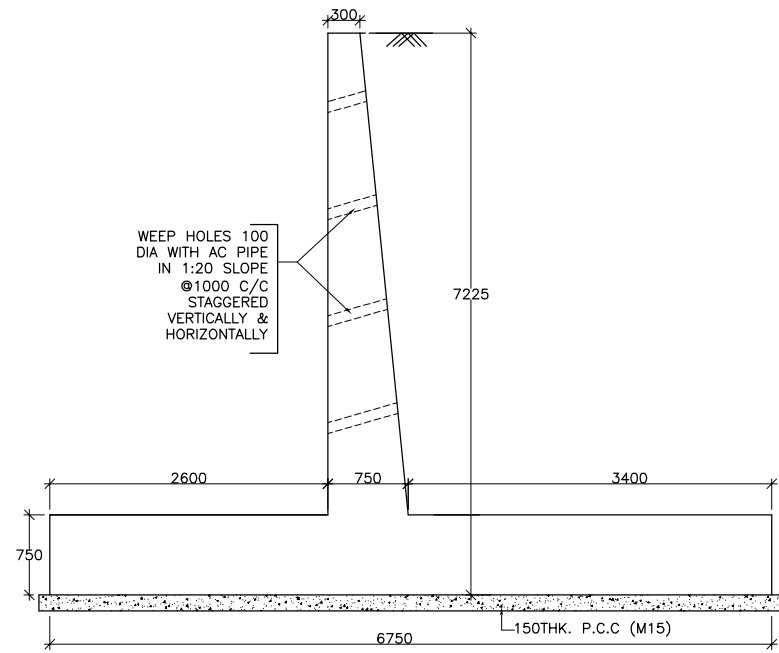
**REFERENCE DRAWINGS :**  
CET/BDG/2015/3580/NH-208/FDPR/MN/GA (SHEET NO. 01 & 02)  
CET/BDG/2015/3580/NH-208/FDPR/MN/RCC (SHEET NO. 01 OF 01)

SCALE: AS SHOWN					CLIENT: Public Works Department Government of Tripura		National Highways & Infrastructure Development Corporation Ltd.		DETAILS OF DRAINAGE SPOUT, EXP. GAP RCC RAILING & CRASH BARRIER		CONSULTANT : <b>CETEST</b> CE TESTING COMPANY PVT. LTD. Engineering Consultants An ISO 9001, 14001 & OHSAS 18001 Certified Company 124-A, N.S.C. Bose Road Kolkata - 700092.		Dwg. No. CET/BDG/2015/3580/NH-208/FDPR/MN/MISC						
DATE: Nov, 2019					PROJECT: Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening to Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)							Revision Mkd. - R0		Sheet No. - 01 of 01					
REVISIONS					ROAD NAME: Kailashahar to Teliamura Section of NH-208 Package:-VI (Km 101+300 to Km 127+319)							Drawn By. T.G		Design By. -		Checked By. A. D		Approved By. B.K	

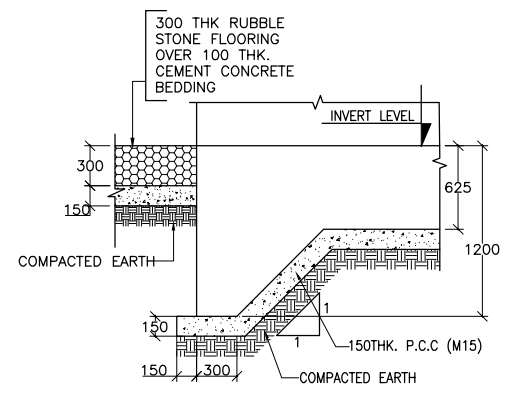




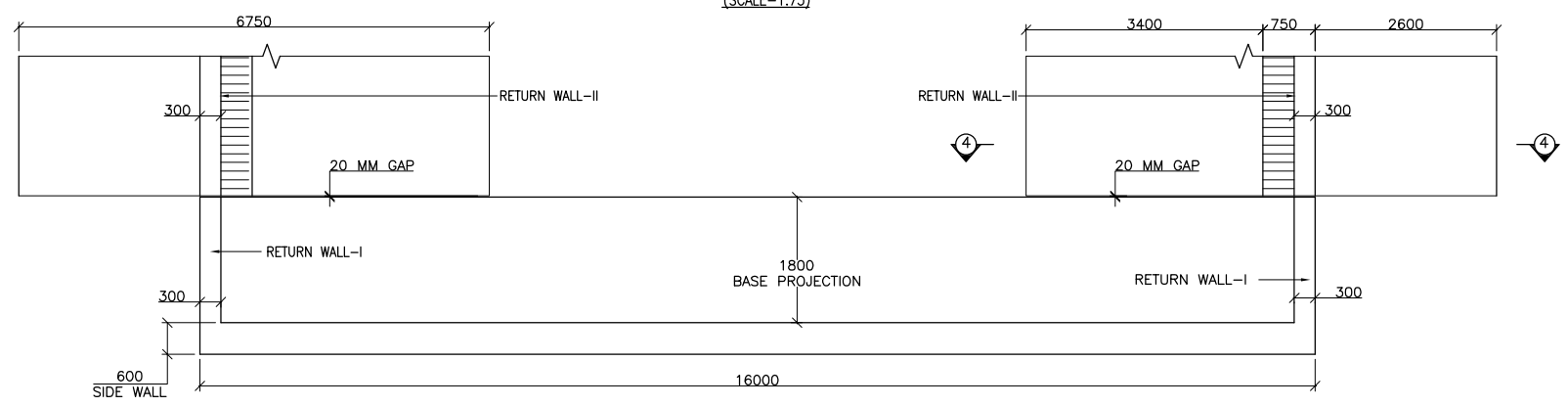
**SECTION 3-3**  
(SCALE=1:75)



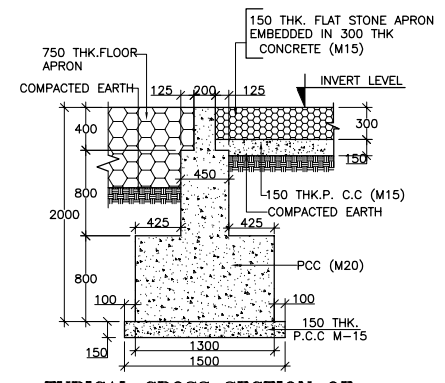
**SECTION 4-4**  
(SHOWING RETURN WALL- II)  
(SCALE=1:50)



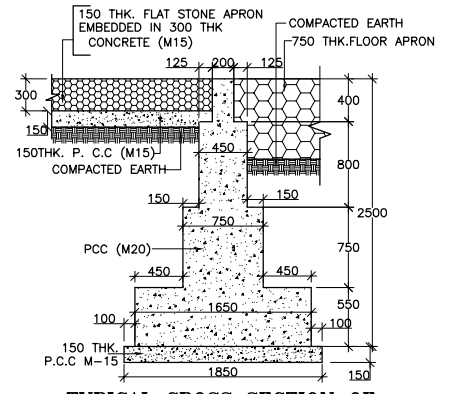
**DETAIL 'C'**  
(SCALE=1:40)



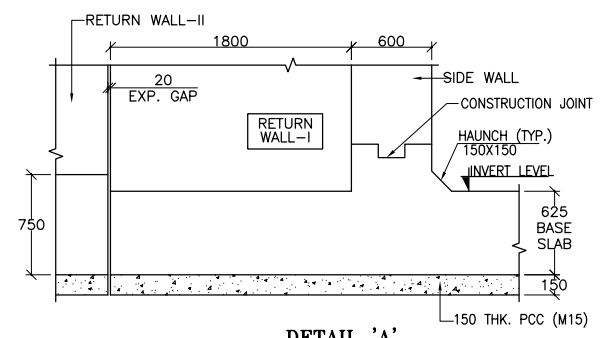
**SECTIONAL PLAN 5-5**  
SCALE:- 1:75



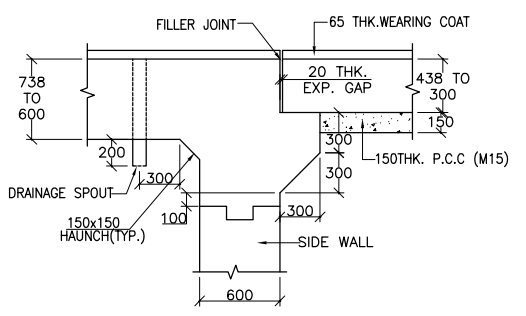
**TYPICAL CROSS SECTION OF CURTAIN WALL TYPE-II (U/S)**  
(SCALE 1:50)



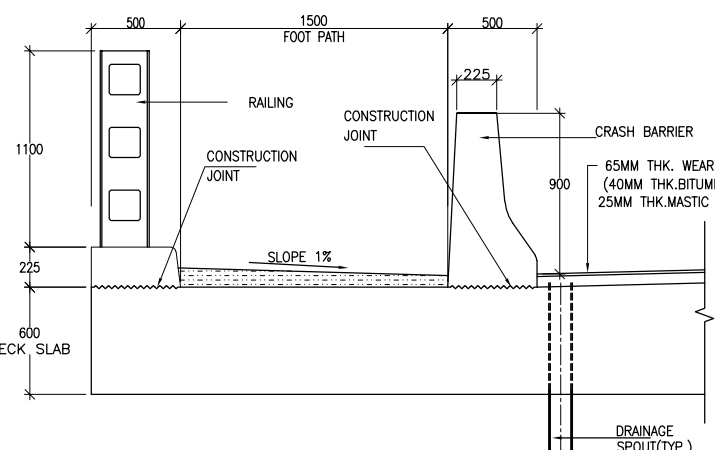
**TYPICAL CROSS SECTION OF CURTAIN WALL TYPE-I (D/S)**  
(SCALE 1:50)



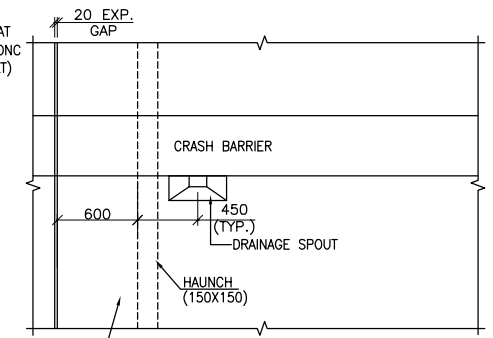
**DETAIL 'A'**  
SCALE=1:40



**DETAIL 'B'**  
SCALE=1:40



**DETAIL OF CRASH BARRIER & RAILING**  
SCALE = 1:30

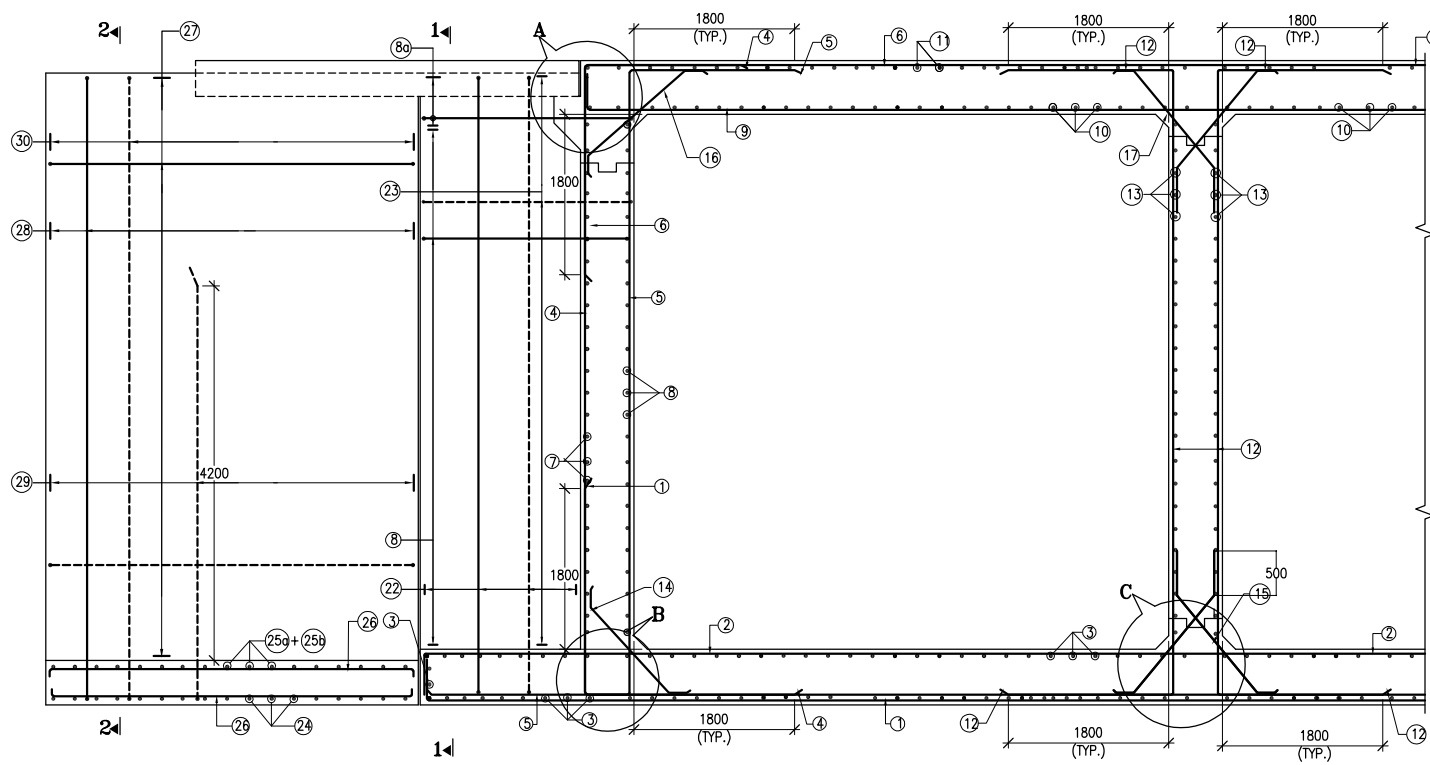


**DETAIL 'D'**  
(SCALE=1:40)

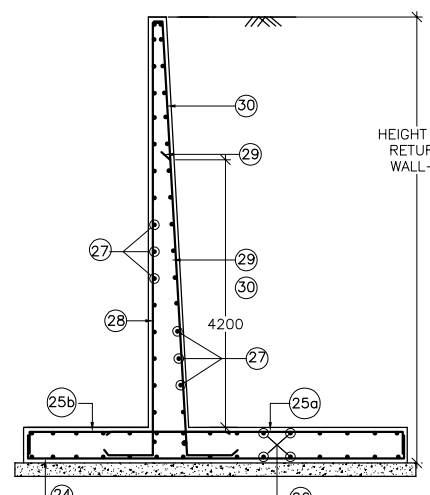
**NOTES :**  
 1. ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE MENTIONED.  
 2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO.:-  
 CET/BDG/2015/3580/NH-208/FDPR/MN/GA (SHEET NO 01 OF 02)  
 CET/BDG/2015/3580/NH-208/FDPR/MN/RCC (SHEET NO 01 OF 01)  
 CET/BDG/2015/3580/NH-208/FDPR/MN/MISC (SHEET NO 01 OF 01)

MKD.	DATE	DESCRIPTION	CHKD.	APPRD.
REVISIONS				

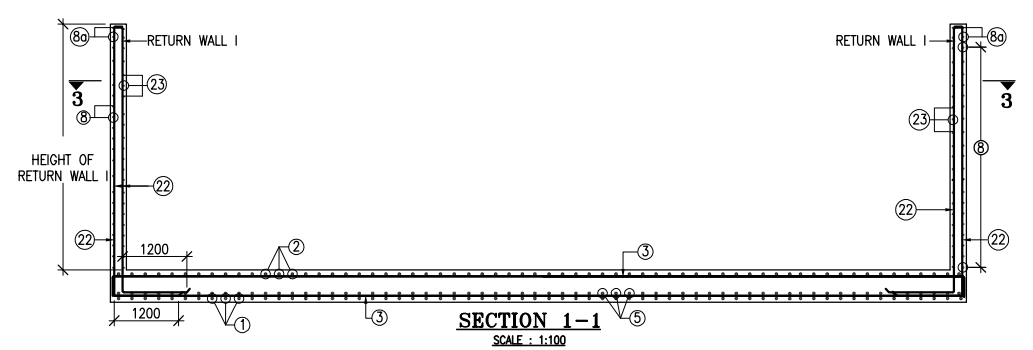
SCALE: AS SHOWN	CLIENT: Public Works Department Government of Tripura	National Highways & Infrastructure Development Corporation Ltd.	GENERAL ARRANGEMENT OF R.C.C BOX BRIDGE (4X6.0M X 6.0M)	CONSULTANT : <b>CETEST</b> Engineering Consultants An ISO 9001, 14001 & OHSAS 18001 Certified Company	Dwg. No. CET/BDG/2015/3580/NH-208/FDPR/MN/GA	Revision Mkd. - R0	Sheet No. - 02 of 02
DATE: Nov,2019	PROJECT: Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening to Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)	ROAD NAME: Kailashahar to Teliamura Section of NH-208 Package:-VI (Km 101+300 to Km 127+319)	124-A, N.S.C. Bose Road Kolkata - 700092.	Drawn By. S.R	Design By. A.M	Checked By. A.D	Approved By. B.K



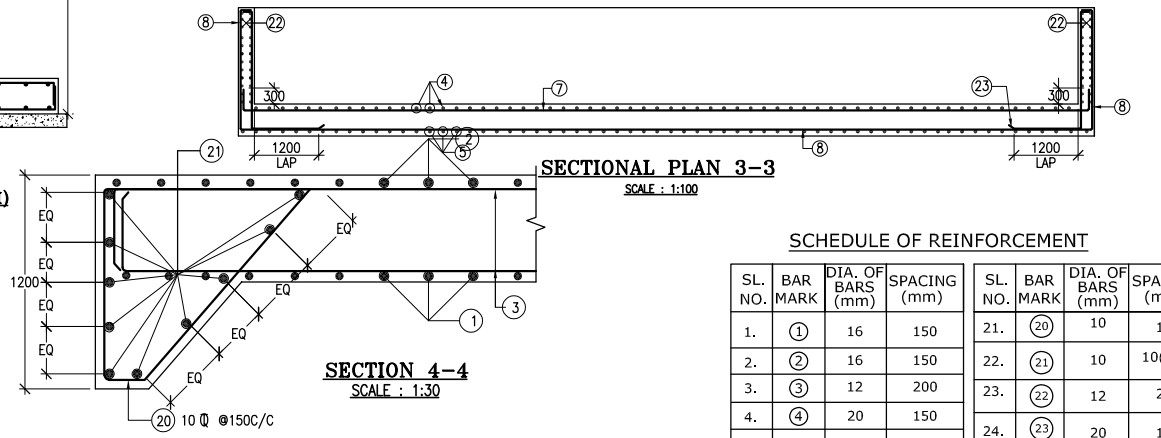
**REINFORCEMENT DETAIL OF FOUR CELL BOX CULVERT**  
SCALE : 1:60



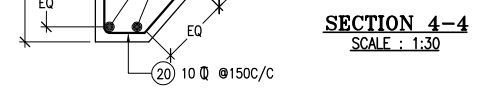
**SECTION 2-2 (SHOWING RETURN WALL- II)**  
SCALE : 1:60



**SECTION 1-1**  
SCALE : 1:100



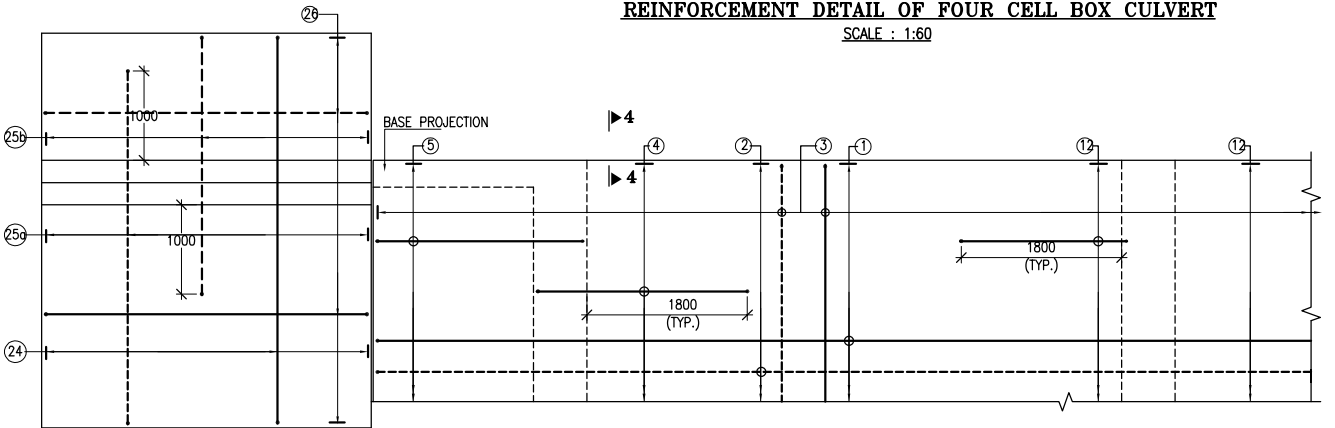
**SECTIONAL PLAN 3-3**  
SCALE : 1:100



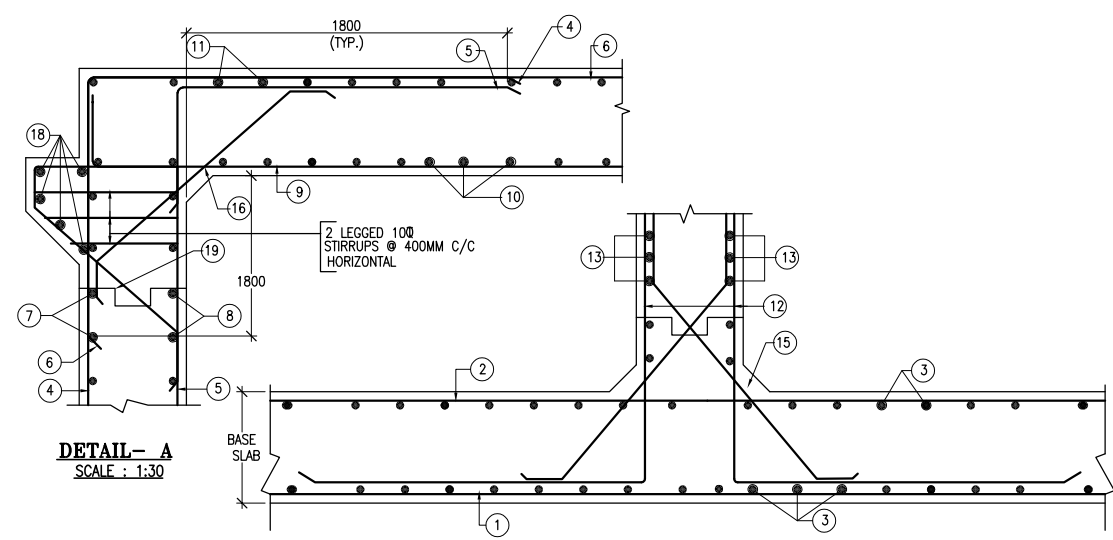
**SECTION 4-4**  
SCALE : 1:30

**SCHEDULE OF REINFORCEMENT**

SL. NO.	BAR MARK	DIA. OF BARS (mm)	SPACING (mm)	SL. NO.	BAR MARK	DIA. OF BARS (mm)	SPACING (mm)
1.	①	16	150	21.	⑳	10	150
2.	②	16	150	22.	㉑	10	10(Nos)
3.	③	12	200	23.	㉒	12	200
4.	④	20	150	24.	㉓	20	150
5.	⑤	20	150	25.	㉔	20	150
6.	⑥	16	150	26.	㉕	20	150
7.	⑦	12	200	27.	㉖	16	150
8.	⑧	12	200	28.	㉗	12	125
9.	⑧a	12	5(Nos)	29.	㉘	12	225
10.	⑨	16	150	30.	㉙	12	150
11.	⑩	12	200	31.	㉚	25	100
12.	⑪	20	150	32.	⑳	25	100
13.	⑫	16	150				
14.	⑬	12	200				
15.	⑭	12	200				
16.	⑮	12	200				
17.	⑯	12	200				
18.	⑰	12	200				
19.	⑱	12	5(Nos)				
20.	⑲	12	200				

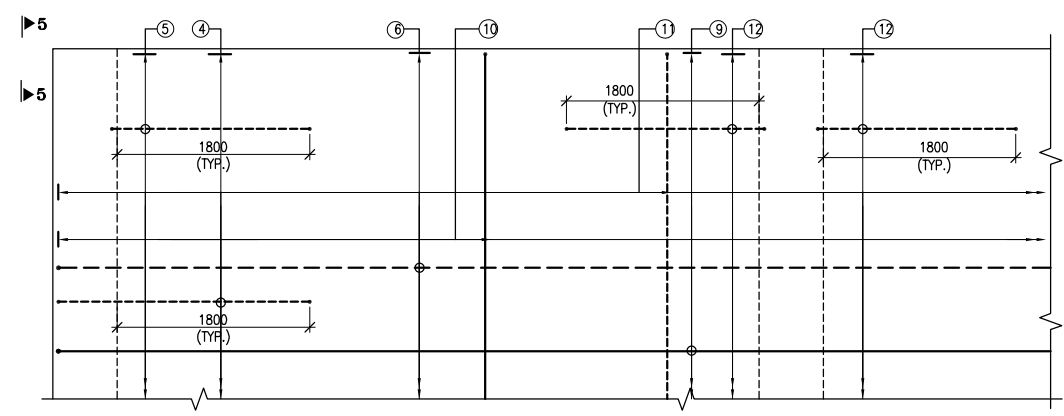


**BOTTOM SLAB R/F PLAN**  
(HAUNCH LINES ARE NOT SHOWN IN PLAN)  
SCALE : 1:60

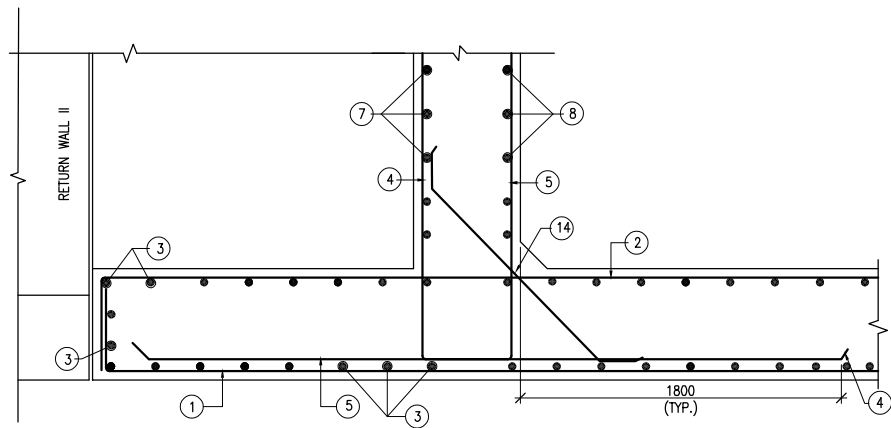


**DETAIL-A**  
SCALE : 1:30

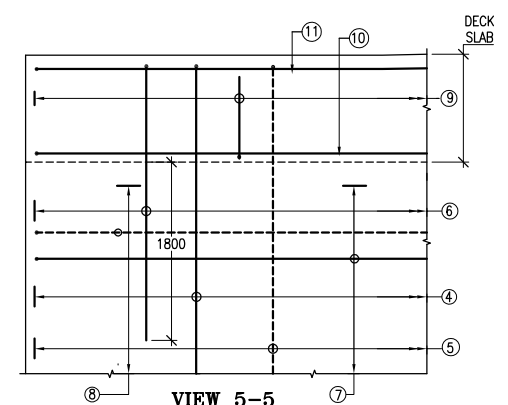
**DETAIL-C**  
SCALE : 1:30



**TOP SLAB R/F PLAN**  
(KERB BRACKET & HAUNCH LINES ARE NOT SHOWN IN PLAN)  
SCALE : 1:50



**DETAIL-B**  
SCALE : 1:30

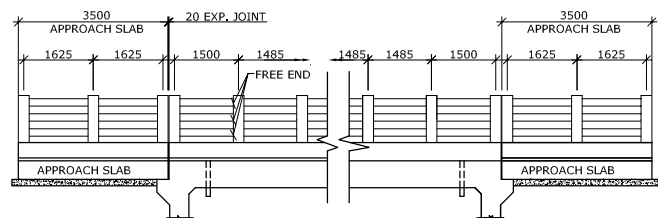


**VIEW 5-5**  
(HAUNCH BARS ARE NOT SHOWN)  
SCALE : 1:30

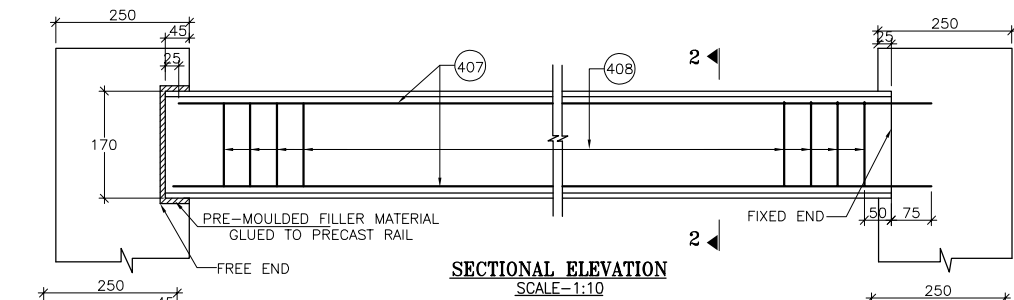
**LEGEND:-**  
REAR FACE / TOP FACE / EARTH FACE BAR - - - - -  
FRONT FACE / BOTTOM FACE / OPPOSITE TO EARTH FACE BAR - - - - -

**NOTES :**  
1. ALL DIMENSIONS ARE IN MM.  
2. CONC. GRADE SHALL BE M-30 & M-25 WHERE APPLICABLE.  
3. ALL REINFORCING STEEL SHALL BE OF HYSD BARS (GRADE DESIGNATION Fe-500) CONFORMING TO IS: 1786.  
4. CLEAR COVER = TOP SLAB 40MM, SIDE WALL 50MM, BOTTOM SLAB 75.  
5. LAP LENGTH & DEVELOPMENT LENGTH (Ld) OF REINFORCING BARS SHALL BE DONE IN ACCORDANCE WITH RELEVANT CLAUSE IRC : 112-2011.  
6. WELDING OF BARS SHALL NOT BE PERMITTED.  
7. SHARP EDGES OF CONCRETE WILL NOT BE PERMITTED.  
8. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO: CET/BDG/2015/3580/NH-208/FDPR/MN/GA (SHEET NO. 01 & 02)  
CET/BDG/2015/3580/NH-208/FDPR/MN/MISC (SHEET NO. 01 OF 01)

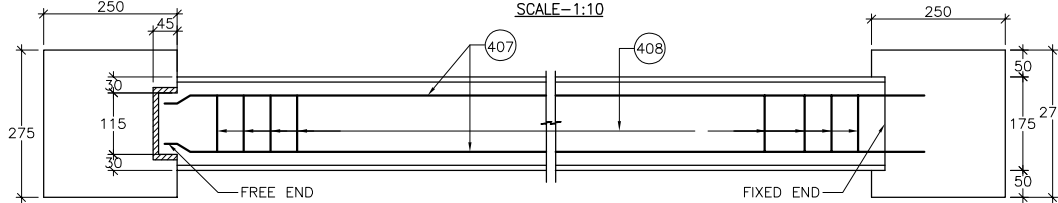
SCALE: AS SHOWN					CLIENT: Public Works Department Government of Tripura		National Highways & Infrastructure Development Corporation Ltd.		REINFORCEMENT DETAILS OF 4X6.0M X6.0M RCC BOX BRIDGE		CONSULTANT : <b>CETEST</b> CE TESTING COMPANY PVT. LTD. Engineering Consultants 124-A, N.S.C. Bose Road Kolkata - 700092.		Dwg. No. CET/BDG/2015/3580/NH-208/FDPR/MN/RCC	
DATE: Nov, 2019					PROJECT: Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening to Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)		ROAD NAME: Kailashahar to Teliamura Section of NH-208		Package:-VI (Km 101+300 to Km 127+319)		Revision Mkd. - R0		Sheet No. - 01 of 01	
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.							Drawn By.	Design By.	Checked By.	Approved By.
REVISIONS											S.R	A.M	A. D	B.K



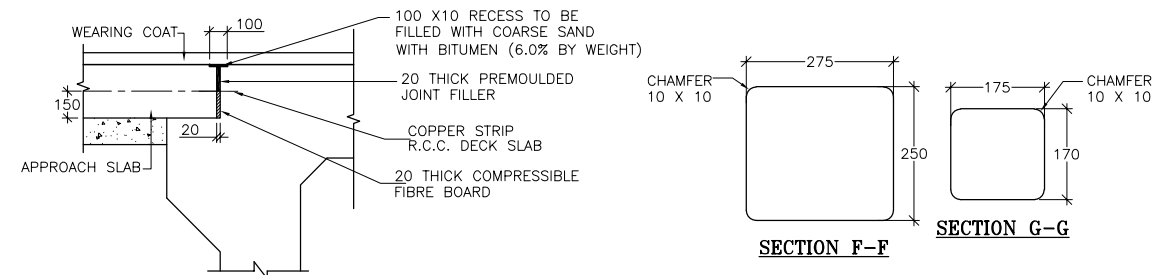
**GENERAL ARRANGEMENT OF R.C.C. RAILING  
4X6.0X6.0 BOX BRIDGE)**  
SCALE - 1:125



**SECTIONAL ELEVATION**  
SCALE-1:10

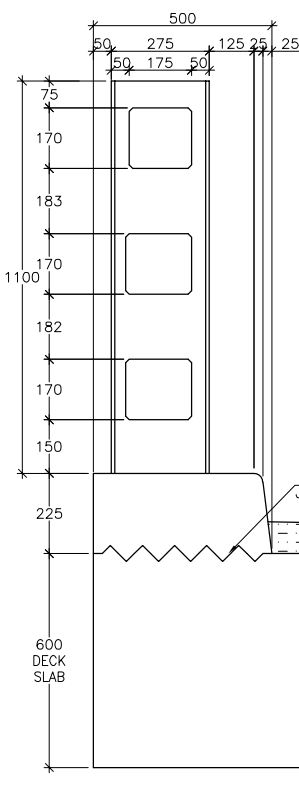
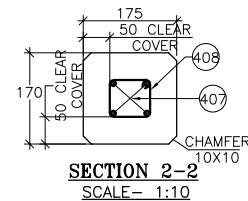
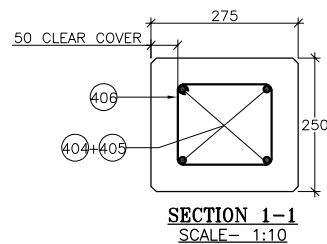


**PLAN  
DETAIL OF PRECAST HANDRAIL**  
SCALE-1:10

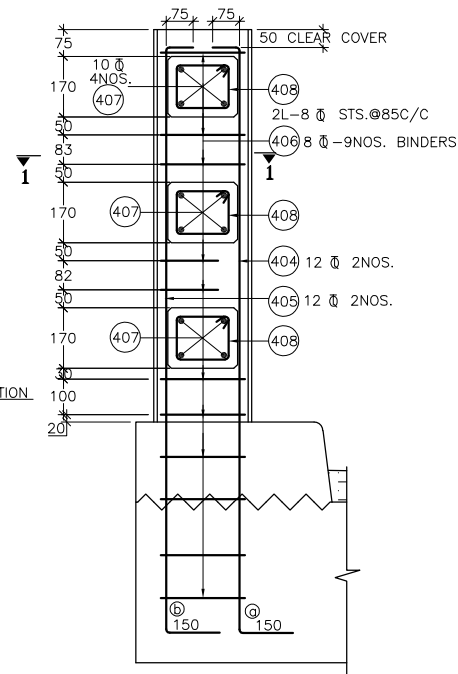


**DETAILS OF FILLER JOINT**  
SCALE- 1:30

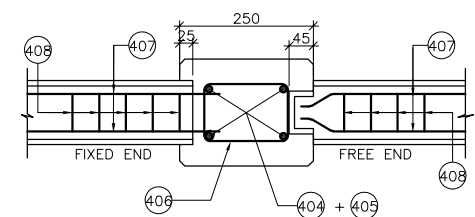
**DETAILS OF HANDRAIL & POST**  
SCALE-1:10



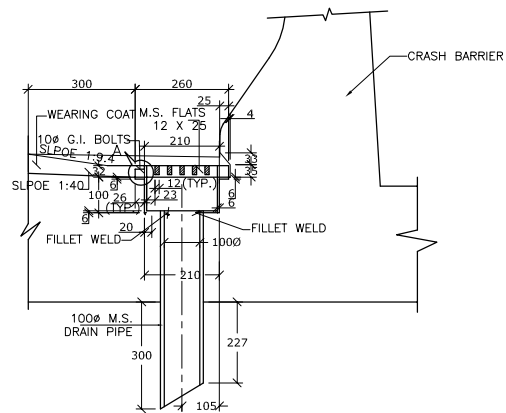
**SECTION THROUGH POST  
(FOR GENERAL ARRANGEMENT)**  
SCALE-1:15



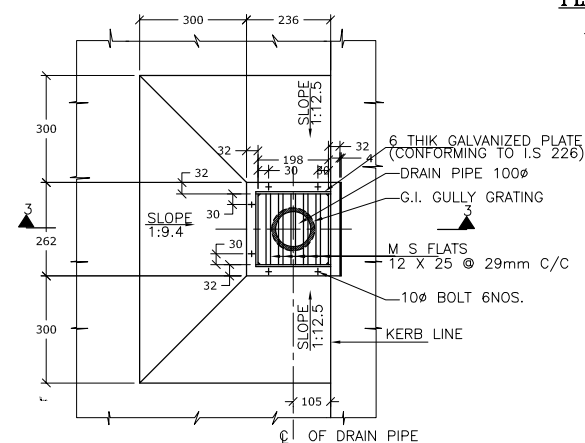
**SECTION THROUGH POST  
(FOR REINFORCEMENT DETAIL)**  
SCALE-1:15



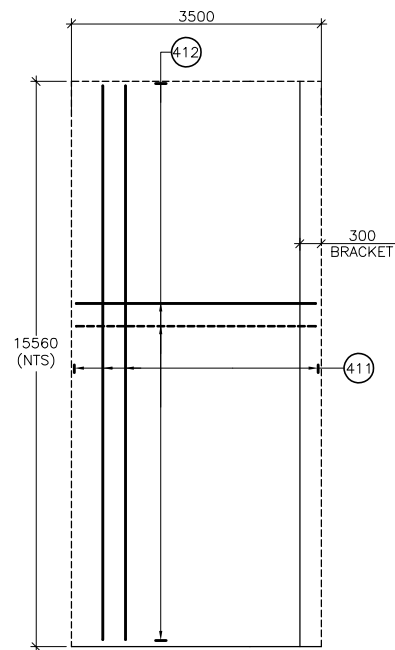
**REINFORCEMENT ARRANGEMENT OF HAND RAIL & POST**  
SCALE-1:10



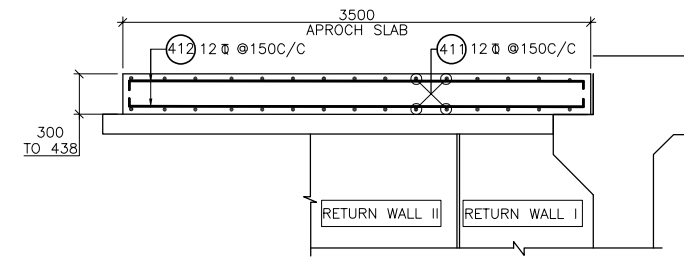
**SECTION 3-3**  
SCALE- 1:15



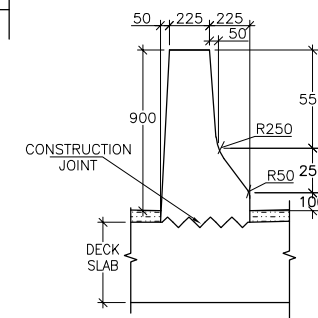
**PLAN  
DETAIL OF DRAINAGE  
SPOUT AND COLLECTION PIT**  
SCALE- 1:15



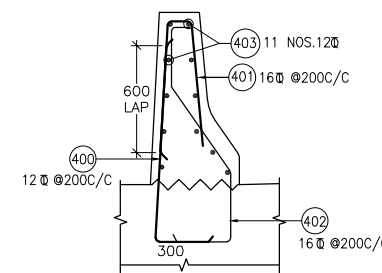
**PLAN OF APPROACH SLAB  
(REINFORCEMENT DETAIL)**  
SCALE 1:75



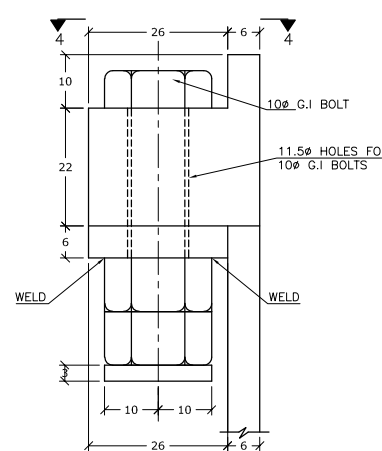
**DETAILS OF APPROACH SLAB  
(REINFORCEMENT DETAIL)**  
SCALE 1:40



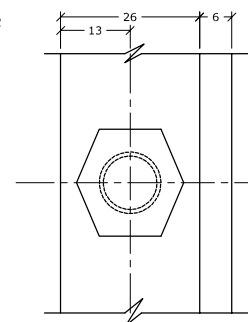
**DETAILS OF CRASH BARRIER  
(FOR GENERAL ARRANGEMENT)**  
SCALE-1:30



**RCC OF CRASH BARRIER**  
SCALE-1:30



**DETAIL - A**  
SCALE- 1:1



**PLAN AT 4-4**  
SCALE- 1:1

**NOTE :**

1. ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE NOTED.

**NOTES FOR RAILING :**

1. REINFORCEMENT OF RAILING POST SHOULD BE SUITABLY ANCHORED IN DECK SLAB.
2. CASTING OF POST SHALL BE DONE IN SINGLE POUR AFTER ACCURATELY POSITIONING THE PRECAST HANDRAIL.
3. RAILING SHALL BE CONSTRUCTED ONLY AFTER THE STRUCTURAL CONCRETE OF SUPERSTRUCTURE HAS HARDENED AND SHUTTERING IS RELEASED.
4. EXPANSION GAPS IN RAILING SHALL BE PROVIDED AT THE SAME LOCATIONS AS IN THE DECK SLAB.

**NOTES FOR DRAINAGE SPOUT**

1. ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED.
2. ALL STEEL WORK SHALL BE AS PER IS - 2062.
3. DRAINAGE SPOUT & COLLECTION PIT ASSEMBLY SHALL BE FABRICATED FROM MILD STEEL & AFTER FABRICATION, THE COMPLETE ASSEMBLY EXCEPT GRATING SHALL BE GIVEN A HOT DIPPED GALVANISED COATING.
4. THE REINFORCEMENT OF TOP SLAB OF BOX SHALL BE SUITABLY MODIFIED TO ACCOMMODATE THE DRAINAGE SPOUT.
5. THE DRAINAGE SPOUT SHALL BE GALVANIZED AFTER WELDING THE PLATES & FLATS.

**REFERENCE DRAWINGS :**

- CET/BDG/2015/3580/NH-208/FDPR/MN/GA (SHEET NO. 01 & 02)
- CET/BDG/2015/3580/NH-208/FDPR/MN/RCC (SHEET NO. 01 OF 01)

MKD.	DATE	DESCRIPTION	CHKD.	APPRD.
		REVISIONS		

SCALE:	AS SHOWN
CLIENT:	Public Works Department Government of Tripura
PROJECT:	Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening to Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)
DATE:	Nov, 2019

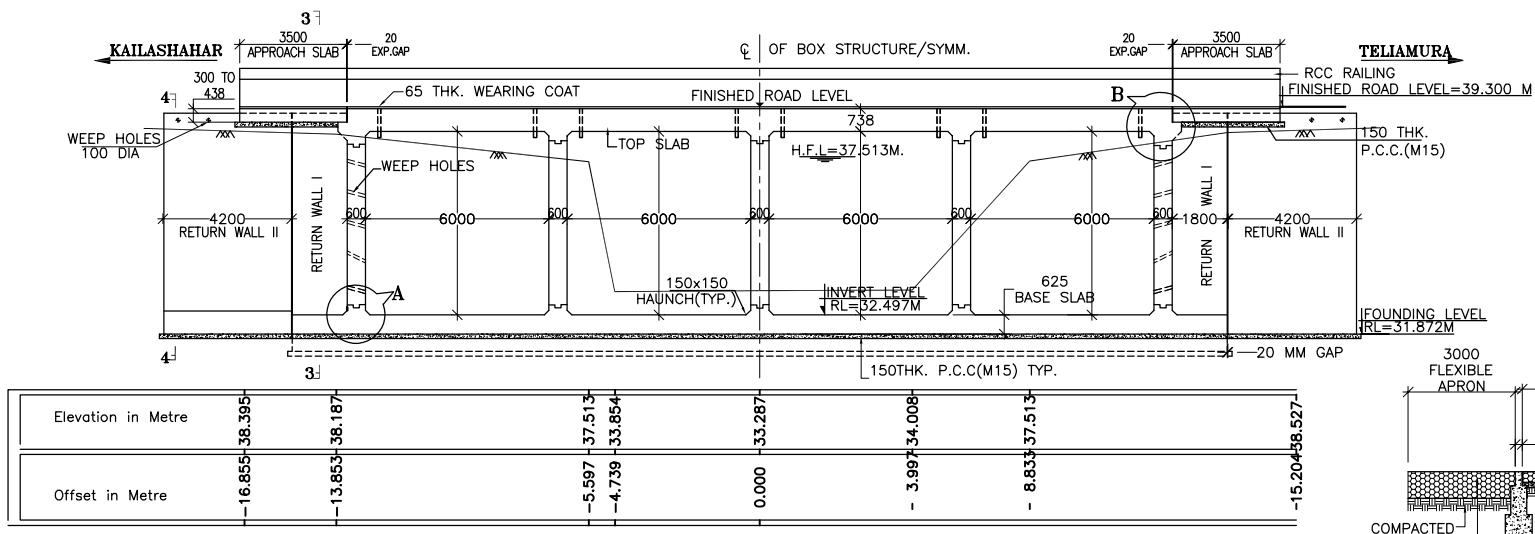
CLIENT:	National Highways & Infrastructure Development Corporation Ltd.
ROAD NAME:	Kailashahar to Teliamura Section of NH-208
PACKAGE:	VI (Km 101+300 to Km 127+319)

DETAILS OF DRAINAGE SPOUT, EXP. GAP RCC RAILING & CRASH BARRIER
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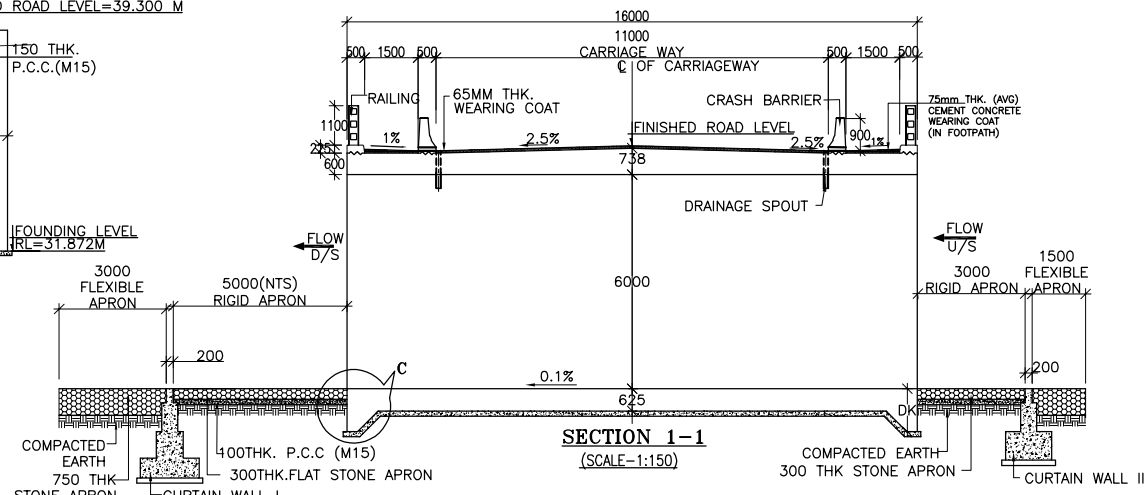
CONSULTANT :	<b>CETEST</b> CE TESTING COMPANY PVT. LTD. Engineering Consultants 124-A, N.S.C. Bose Road Kolkata - 700092.
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Dwg. No.	CET/BDG/2015/3580/NH-208/FDPR/MN/MISC
Revision Mkd.	-R0
Sheet No.	- 01 of 01
Drawn By.	S.R
Design By.	-
Checked By.	A. D
Approved By.	B.K

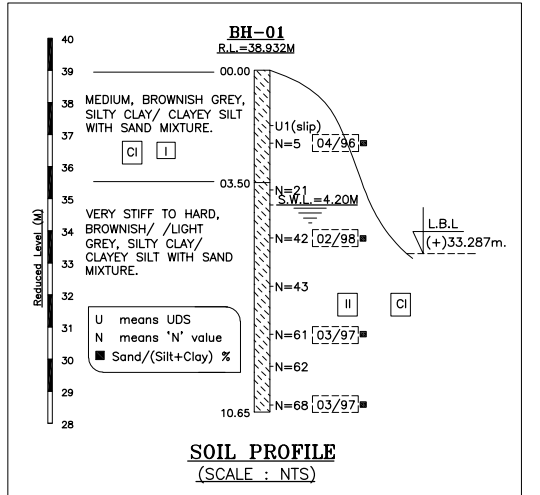
Dwg. No.	CET/BDG/2015/3580/NH-208/FDPR/MN/MISC
Revision Mkd.	-R0
Sheet No.	- 01 of 01
Drawn By.	S.R
Design By.	-
Checked By.	A. D
Approved By.	B.K



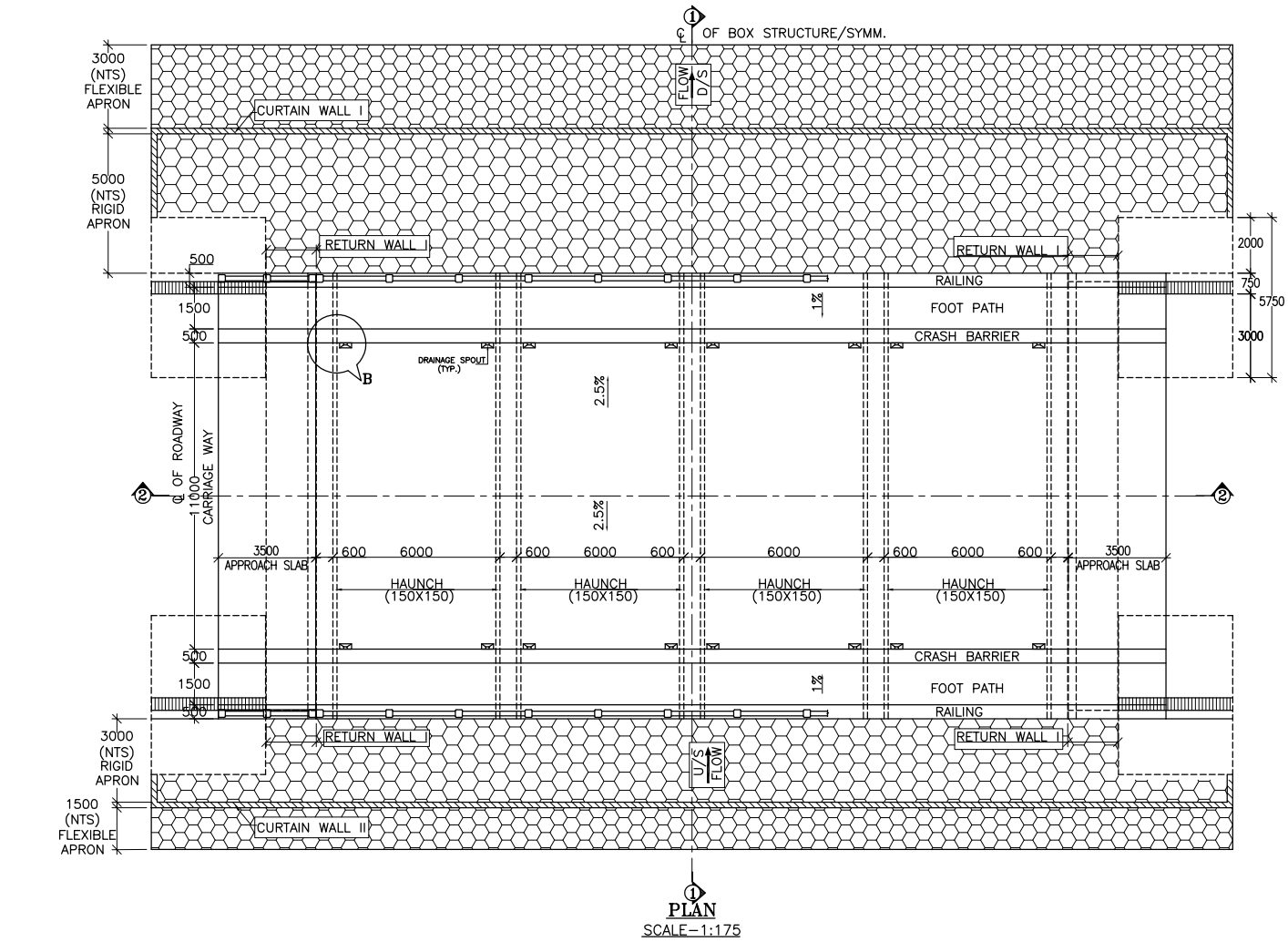
SECTION 2-2  
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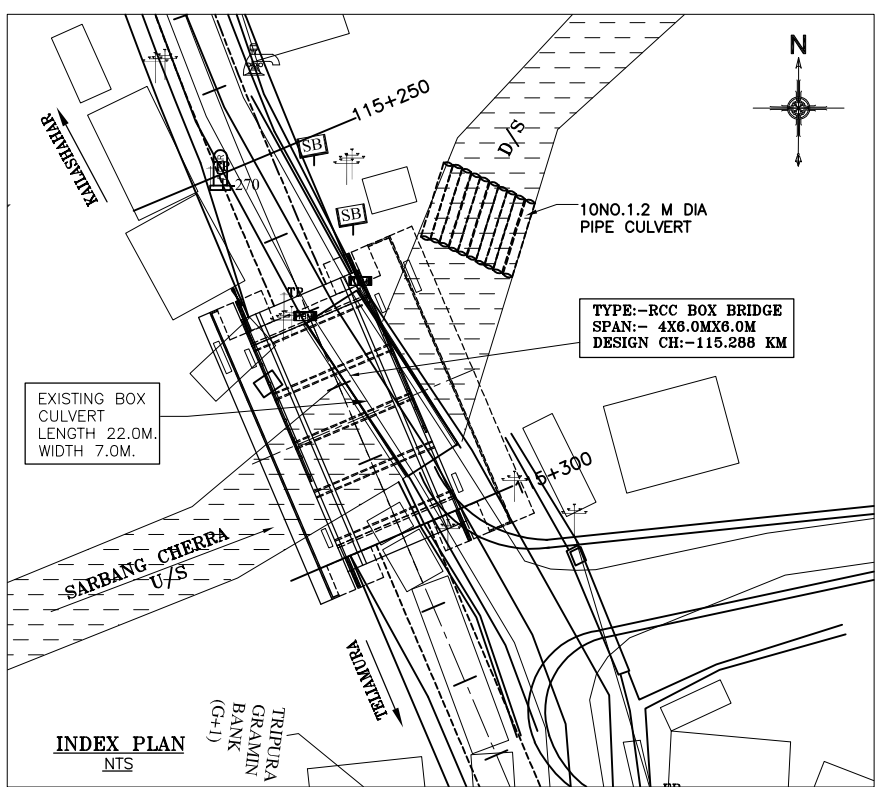
SECTION 1-1  
(SCALE-1:150)



SOIL PROFILE  
(SCALE : NTS)



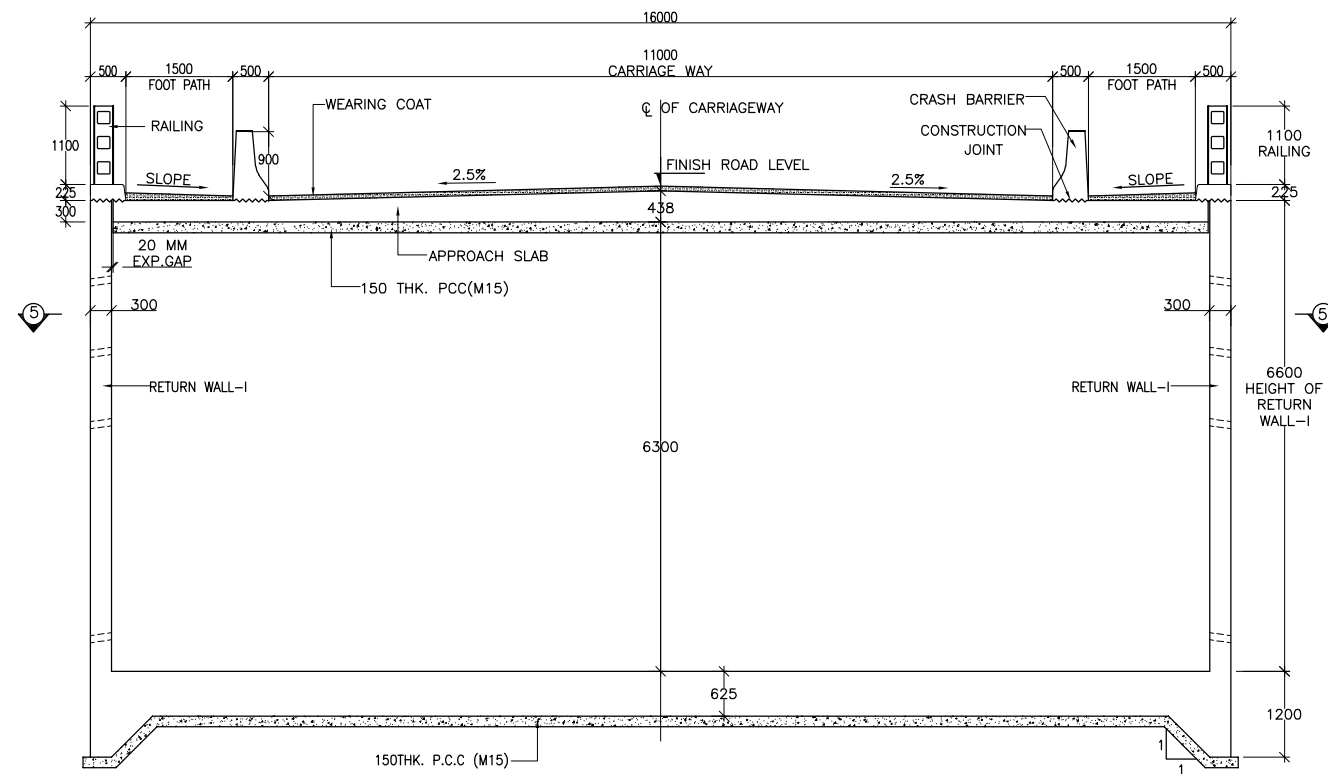
PLAN  
SCALE-1:175



INDEX PLAN  
NTS

- NOTES :**
- ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE MENTIONED.
  - GRADE OF CONCRETE :-  
BOX STRUCTURE - M30  
RETURN WALL - M30  
APPROACH SLAB - M30  
RCC RAILING - M30  
CURTAIN WALL - M20  
LEVELLING COURSE(P.C.C) - M15  
CRASH BARRIER - M40 & KERB-M30
  - GRADE OF STEEL Fe-500 AS PER I.S.-1786.
  - CLASS A 3 LANES OR CLASS A 1 LANE+ CLASS 70R PRODUCING WORST EFFECT WILL BE CONSIDERED.
  - PROPERTIES OF BACKFILL SOIL  $\gamma = 2.0t/m^3$ ,  $\phi = 30^\circ$ .
  - FILTER MATERIAL BEHIND ABUTMENT AND RETURN WALL SHALL CONFORM TO CLAUSE 2504.2.2 OF MORTH SPECIFICATIONS TO A THICKNESS OF NOT LESS THAN 600mm. WITH SMALLER SIZE TOWARDS THE SOIL AND BIGGER SIZE TOWARDS THE WALL TO THE FULL HEIGHT.
  - SOFT AND LOOSE PATCHES IN THE BEARING AREA ARE TO BE REPLACED BY COMPACTED GRANULAR FILLS WITH LAYERS NOT EXCEEDING 300mm.
  - THE SOIL BELOW FOUNDATION LEVEL SHOULD BE WELL COMPACTED TO ACHIEVE MINIMUM BEARING CAPACITY OF 10t/SQM.
  - NORMAL SCOUR LEVEL-30.858 M.
  - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO. :-  
CET/BDG/2015/3580/NH-208/FDPR/MN/GA  
(SHEET NO 02 OF 02)  
CET/BDG/2015/3580/NH-208/FDPR/MN/RCC  
(SHEET NO 01 OF 01)  
CET/BDG/2015/3580/NH-208/FDPR/MN/MISC  
(SHEET NO 01 OF 01)

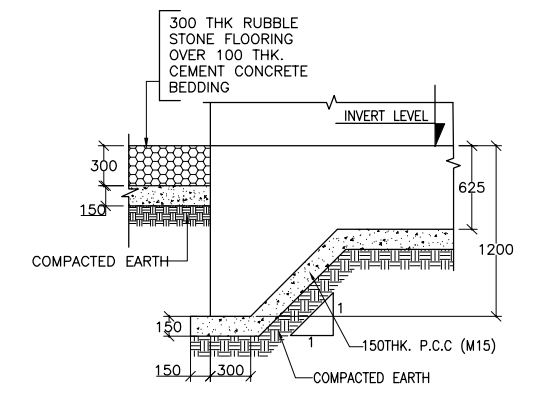
SCALE: AS SHOWN					CLIENT: Public Works Department Government of Tripura		National Highways & Infrastructure Development Corporation Ltd.		GENERAL ARRANGEMENT OF R.C.C BOX BRIDGE 4X6.0M X6.0M (AT CHAINAGE 115.288)		CONSULTANT : <b>CETEST</b> CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.		Dwg. No. CET/BDG/2015/3580/NH-208/FDPR/MN/GA						
DATE: Nov, 2019					PROJECT: Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening to Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)							ROAD NAME: Kailashahar to Teliamura Section of NH-208		Revision Mkd. - R0		Sheet No. - 01 of 02			
REVISIONS					Package-VI (Km 101+300 to Km 127+319)							Drawn By. S.R		Design By. A.M		Checked By. A.D		Approved By. B.K	



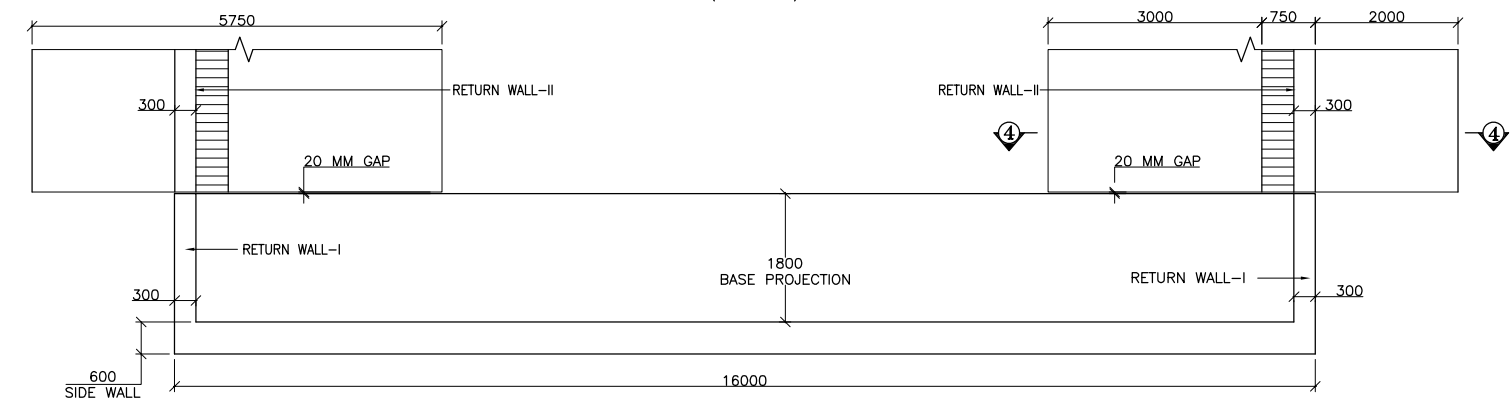
**SECTION 3-3**  
(SCALE-1:75)



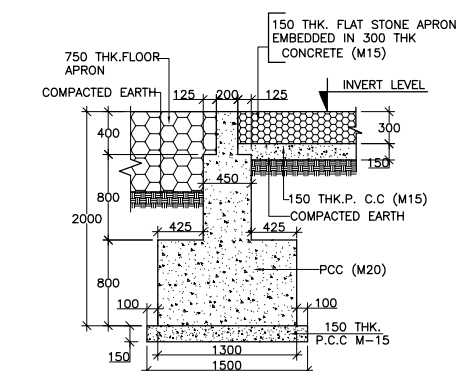
**SECTION 4-4**  
(SHOWING RETURN WALL- II)  
(SCALE-1:50)



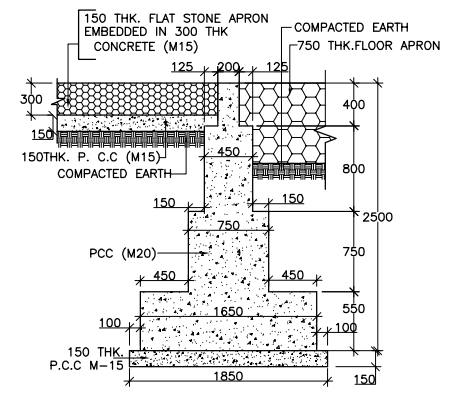
**DETAIL 'C'**  
(SCALE-1:40)



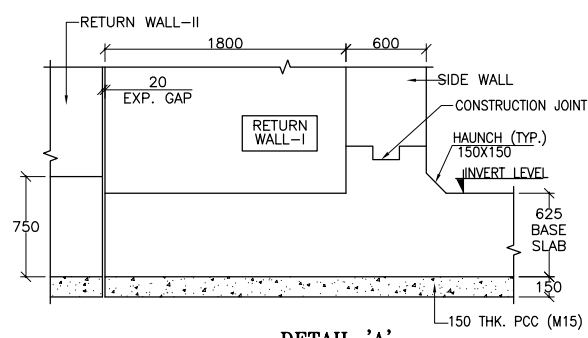
**SECTIONAL PLAN 5-5**  
SCALE:- 1:75



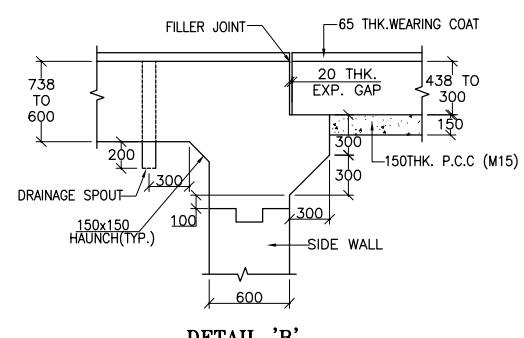
**TYPICAL CROSS SECTION OF CURTAIN WALL TYPE-II (U/S)**  
(SCALE 1:50)



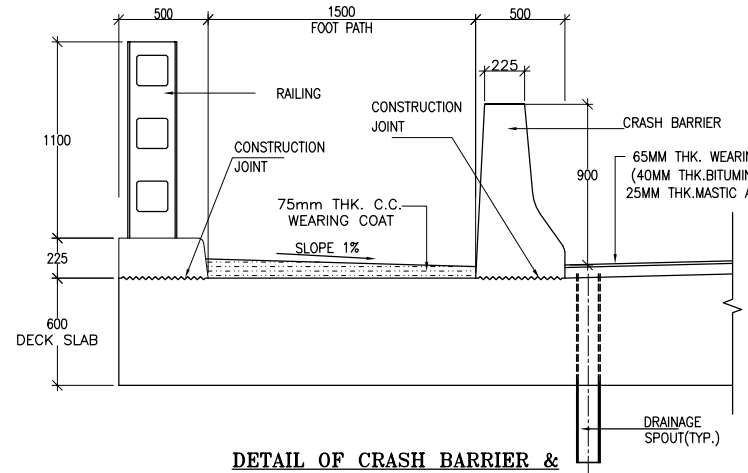
**TYPICAL CROSS SECTION OF CURTAIN WALL TYPE-I (D/S)**  
(SCALE 1:50)



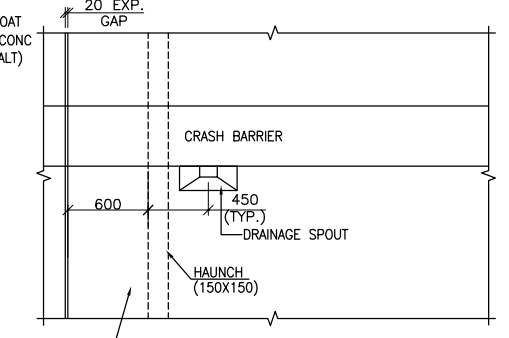
**DETAIL 'A'**  
SCALE-1:40



**DETAIL 'B'**  
SCALE-1:40



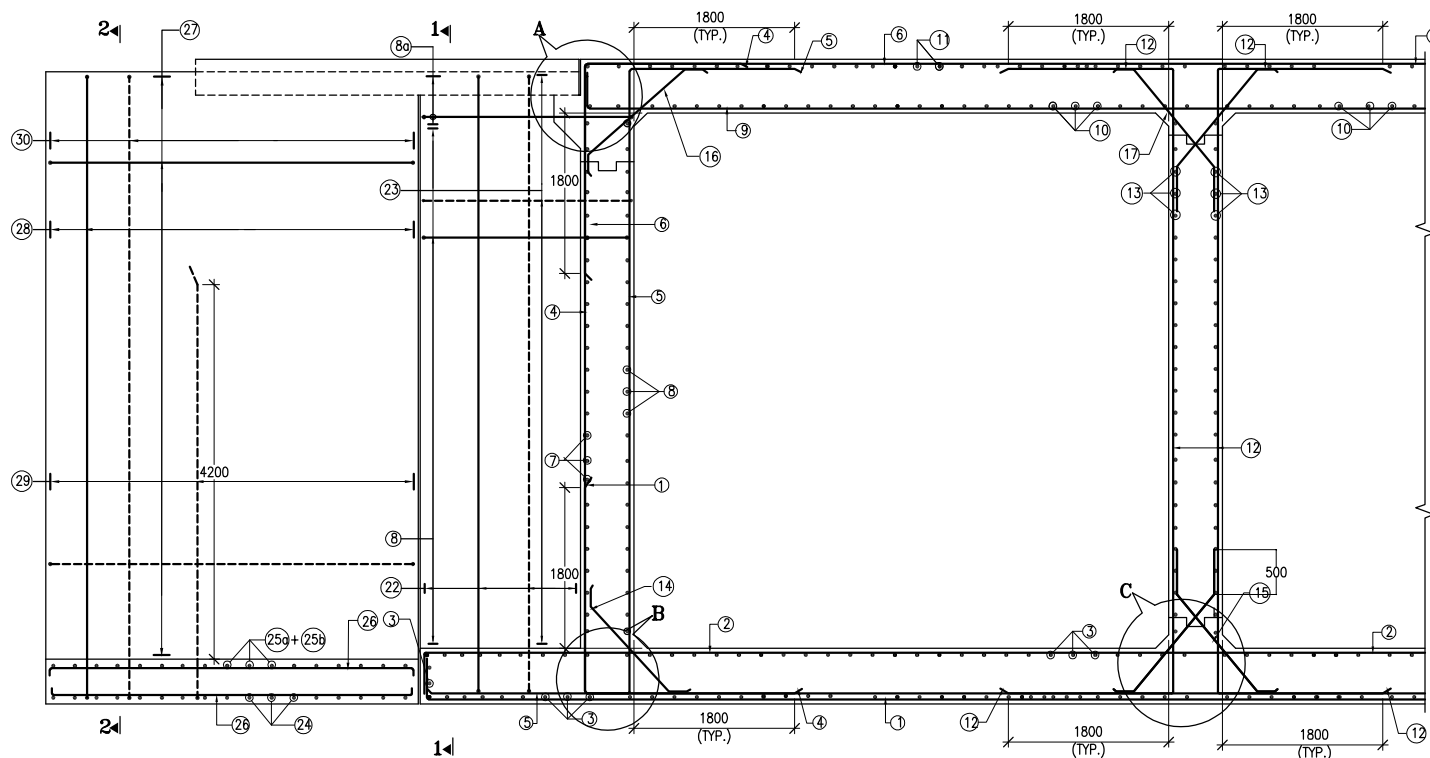
**DETAIL OF CRASH BARRIER & RAILING**  
SCALE - 1:30



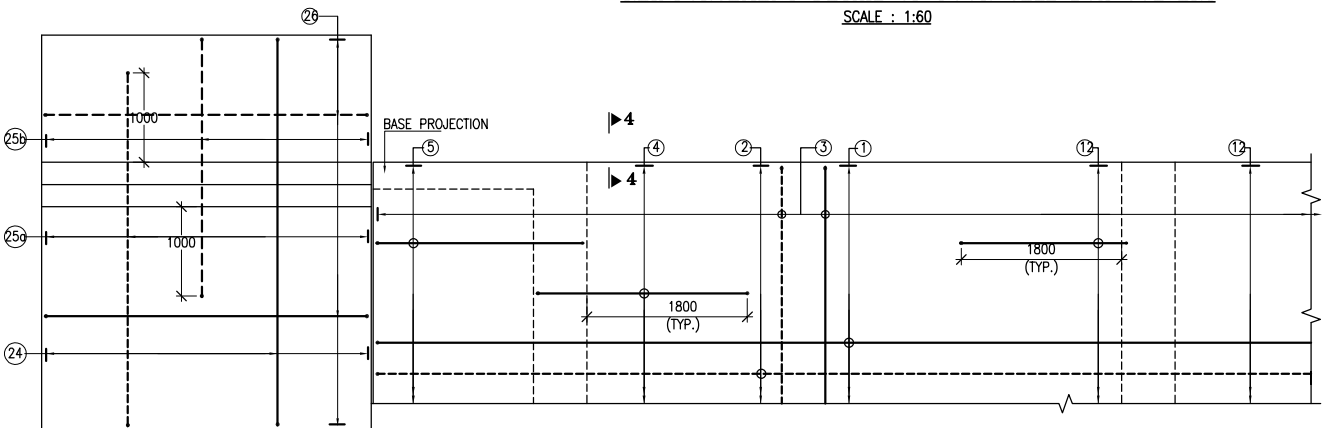
**DETAIL 'D'**  
(SCALE-1:40)

- NOTES :**
1. ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE MENTIONED.
  2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO.:-  
CET/BDG/2015/3580/NH-208/FDPR/MN/GA (SHEET NO 01 OF 02)  
CET/BDG/2015/3580/NH-208/FDPR/MN/RCC (SHEET NO 01 OF 01 )  
CET/BDG/2015/3580/NH-208/FDPR/MN/MISC (SHEET NO 01 OF 01)

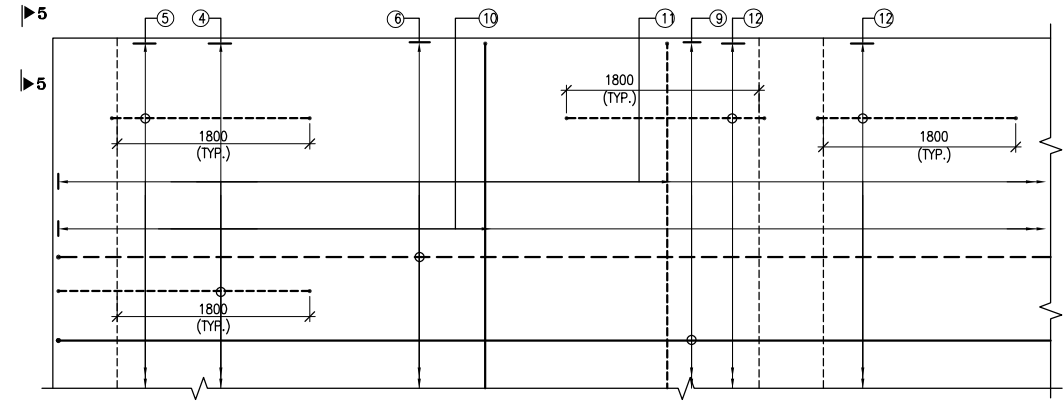
SCALE: AS SHOWN					CLIENT: Public Works Department Government of Tripura		National Highways & Infrastructure Development Corporation Ltd.		GENERAL ARRANGEMENT DRAWING OF RCC BOX BRIDGE 4X6.0M X6.0M		CONSULTANT : <b>CETEST</b> CE TESTING COMPANY PVT. LTD. Engineering Consultants 124-A, N.S.C. Bose Road Kolkata - 700092.		Dwg. No. CET/BDG/2015/3580/NH-208/FDPR/MN/GA						
DATE: Nov, 2019					PROJECT: Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening to Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)							Revision Mkd. - R0		Sheet No. - 02 of 02					
ROAD NAME: Kailashahar to Teliamura Section of NH-208					PACKAGE: VI (Km 101+300 to Km 127+319)							Drawn By.		Design By.		Checked By.		Approved By.	
REVISIONS												S.R		A. M		A. D		B.K	



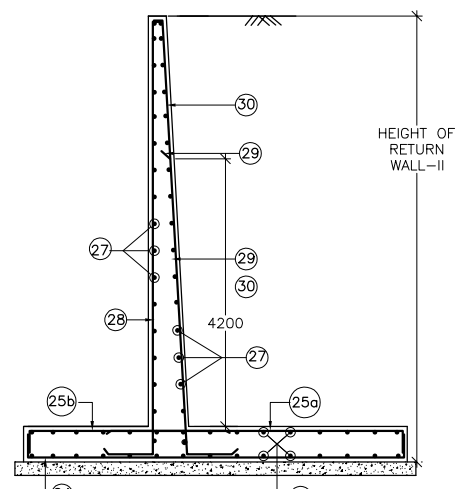
**REINFORCEMENT DETAIL OF FOUR CELL BOX CULVERT**  
SCALE : 1:60



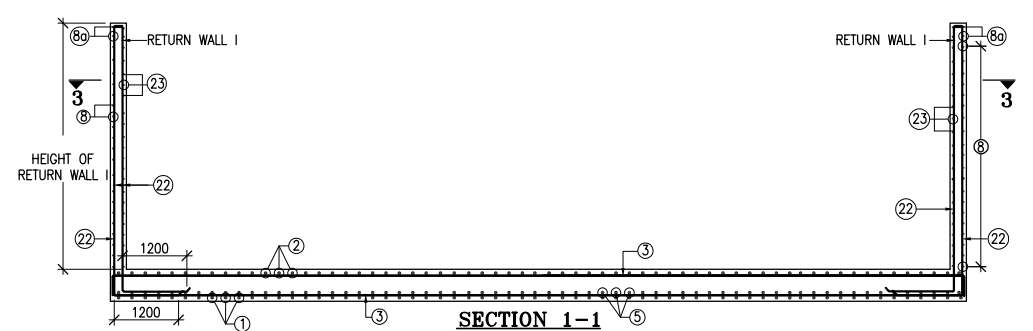
**BOTTOM SLAB R/F PLAN**  
(HAUNCH LINES ARE NOT SHOWN IN PLAN)  
SCALE : 1:60



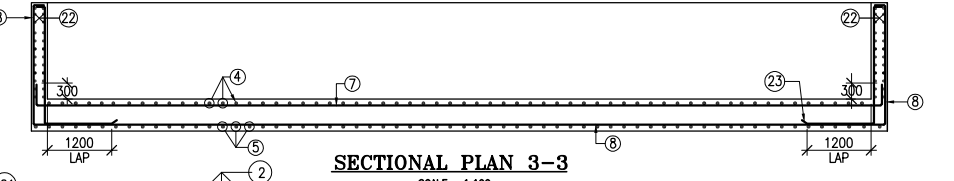
**TOP SLAB R/F PLAN**  
(KERB BRACKET & HAUNCH LINES ARE NOT SHOWN IN PLAN)  
SCALE : 1:50



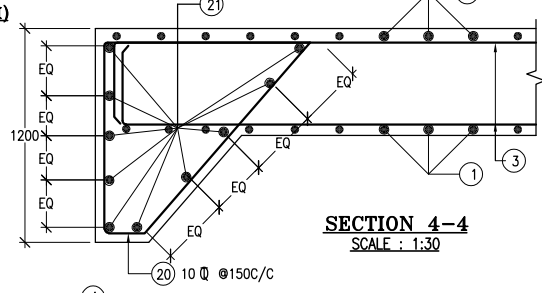
**SECTION 2-2**  
(SHOWING RETURN WALL- II)  
SCALE : 1:60



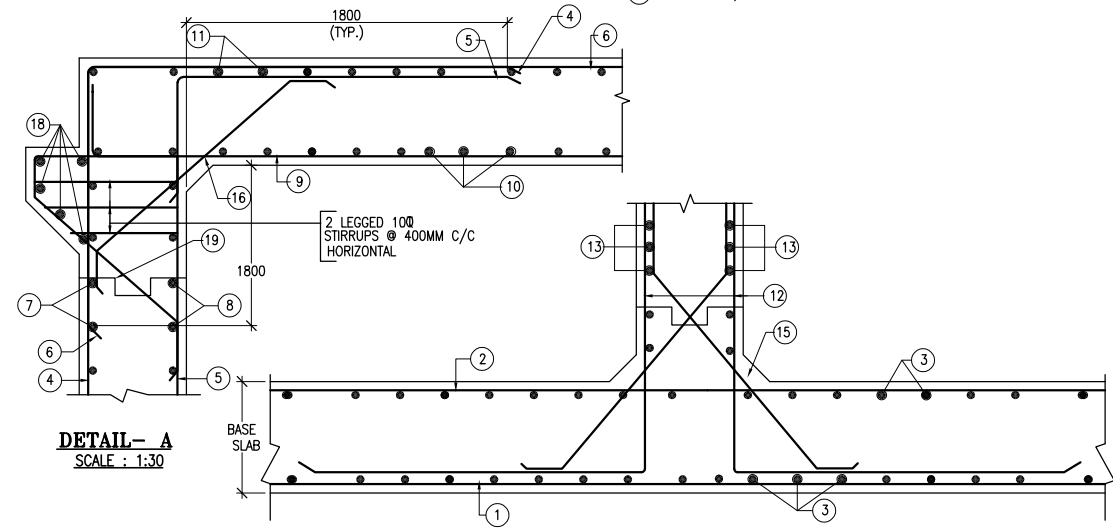
**SECTION 1-1**  
SCALE : 1:100



**SECTIONAL PLAN 3-3**  
SCALE : 1:100

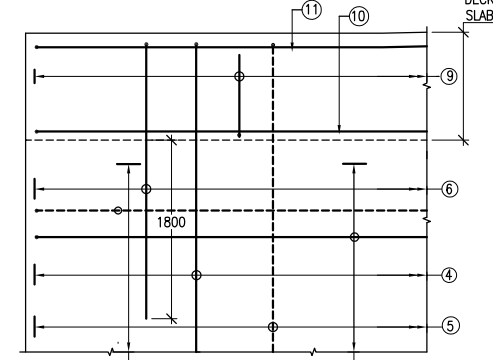


**SECTION 4-4**  
SCALE : 1:30



**DETAIL-A**  
SCALE : 1:30

**DETAIL-B**  
SCALE : 1:30



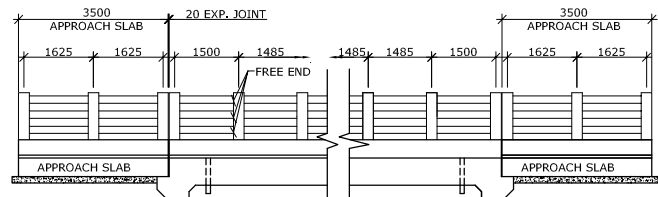
**VIEW 5-5**  
(HAUNCH BARS ARE NOT SHOWN)  
SCALE : 1:30

SCHEDULE OF REINFORCEMENT							
SL. NO.	BAR MARK	DIA. OF BARS (mm)	SPACING (mm)	SL. NO.	BAR MARK	DIA. OF BARS (mm)	SPACING (mm)
1.	①	16	150	21.	⑳	10	150
2.	②	16	150	22.	㉑	10	10(Nos)
3.	③	12	200	23.	㉒	12	200
4.	④	20	150	24.	㉓	20	150
5.	⑤	20	150	25.	㉔	20	150
6.	⑥	16	150	26.	㉕a	20	150
7.	⑦	12	200	27.	㉕b	16	150
8.	⑧	12	200	28.	㉖	12	125
9.	⑧a	12	5(Nos)	29.	㉗	12	225
10.	⑨	16	150	30.	㉘	12	150
11.	⑩	12	200	31.	㉙	25	100
12.	⑪	20	150	32.	⑳	25	100
13.	⑫	16	150				
14.	⑬	12	200				
15.	⑭	12	200				
16.	⑮	12	200				
17.	⑯	12	200				
18.	⑰	12	200				
19.	⑱	12	5(Nos)				
20.	⑲	12	200				

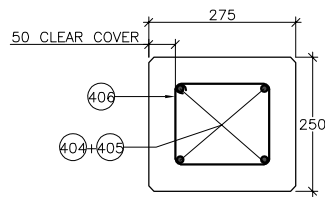
**LEGEND:-**  
 REAR FACE / TOP FACE / EARTH FACE BAR - - - - -  
 FRONT FACE / BOTTOM FACE / OPPOSITE TO EARTH FACE BAR - - - - -

**NOTES :**  
 1. ALL DIMENSIONS ARE IN MM.  
 2. CONC. GRADE SHALL BE M-30 & M-25 WHERE APPLICABLE.  
 3. ALL REINFORCING STEEL SHALL BE OF HYSD BARS (GRADE DESIGNATION Fe-500) CONFORMING TO IS: 1786.  
 4. CLEAR COVER =TOP SLAB 40MM, SIDE WALL 50MM, BOTTOM SLAB 75.  
 5. LAP LENGTH & DEVELOPMENT LENGTH (Ld) OF REINFORCING BARS SHALL BE DONE IN ACCORDANCE WITH RELEVANT CLAUSE IRC : 112-2011.  
 6. WELDING OF BARS SHALL NOT BE PERMITTED.  
 7. SHARP EDGES OF CONCRETE WILL NOT BE PERMITTED.  
 8. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO: CET/BDG/2015/3580/NH-208/FDPR/MN/GA (SHEET NO. 01 & 02)  
 CET/BDG/2015/3580/NH-208/FDPR/MN/MISC (SHEET NO. 01 OF 01)

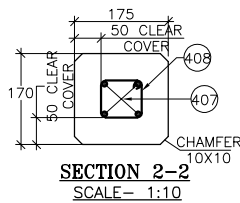
SCALE: AS SHOWN					CLIENT: Public Works Department Government of Tripura		National Highways & Infrastructure Development Corporation Ltd.		REINFORCEMENT DETAILS OF 4X6.0M X6.0M RCC BOX BRIDGE		CONSULTANT : <b>CETEST</b> CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.		Dwg. No. CET/BDG/2015/3580/NH-208/FDPR/MN/RCC	
DATE: Nov, 2019					PROJECT: Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening to Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)		ROAD NAME: Kailashahar to Teliamura Section of NH-208		Package:-VI (Km 101+300 to Km 127+319)		Revision Mkd. - R0		Sheet No. - 01 of 01	
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.							Drawn By.	Design By.	Checked By.	Approved By.
		REVISIONS									S.R	A.M	A.D	B.K



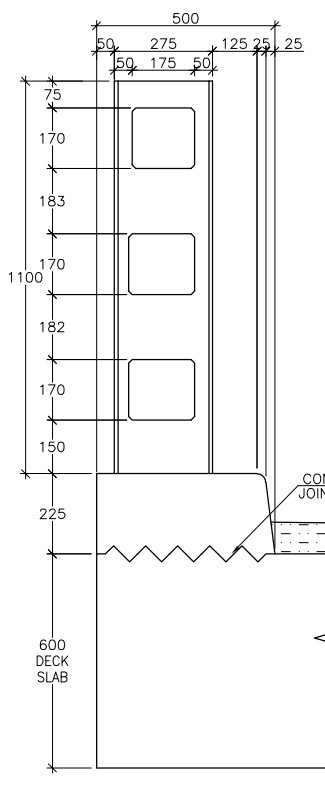
**GENERAL ARRANGEMENT OF R.C.C. RAILING**  
**4X6.0X6.0 BOX BRIDGE)**  
 SCALE - 1:125



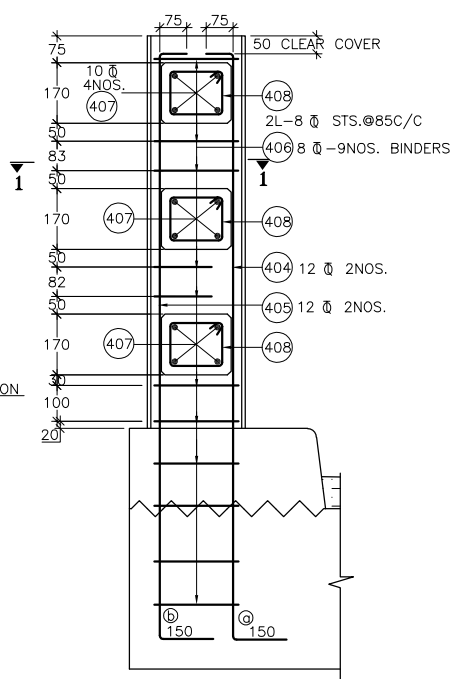
**SECTION 1-1**  
 SCALE- 1:10



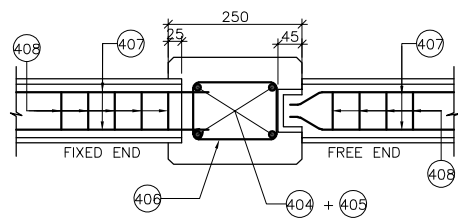
**SECTION 2-2**  
 SCALE- 1:10



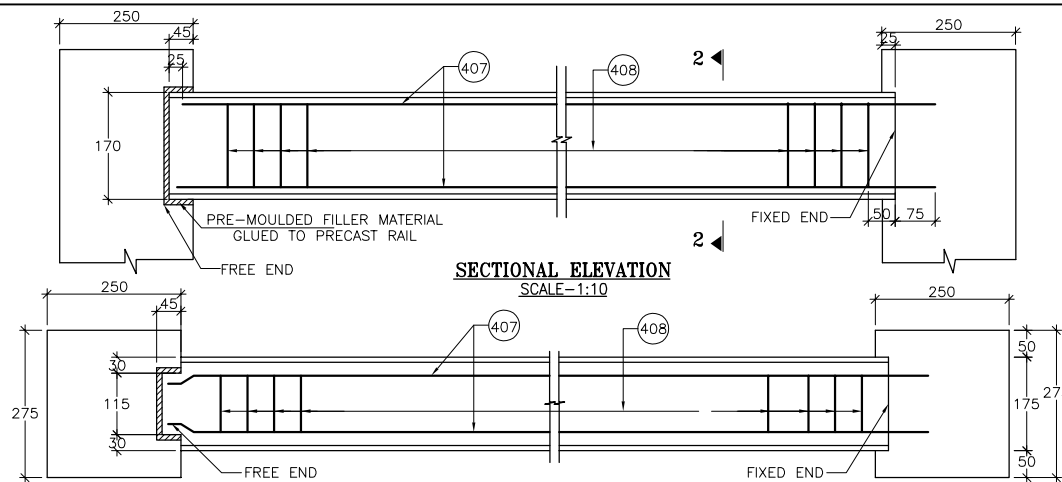
**SECTION THROUGH POST**  
**(FOR GENERAL ARRANGEMENT)**  
 SCALE-1:15



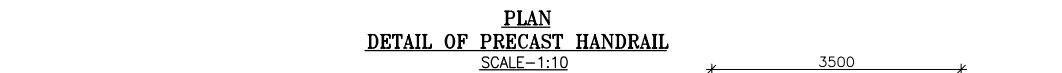
**SECTION THROUGH POST**  
**(FOR REINFORCEMENT DETAIL)**  
 SCALE-1:15



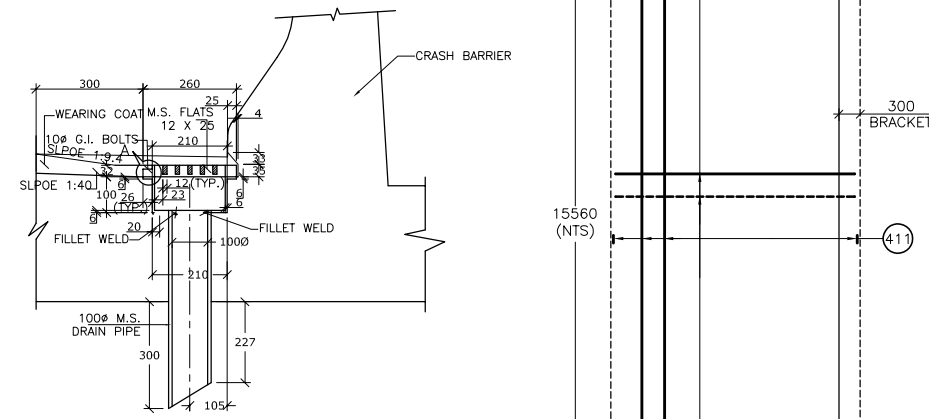
**REINFORCEMENT ARRANGEMENT OF HAND RAIL & POST**  
 SCALE-1:10



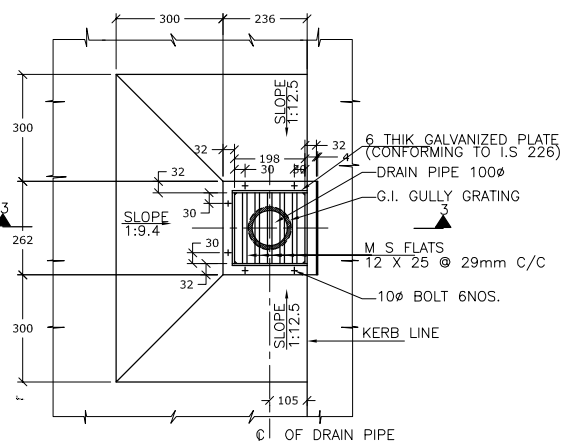
**SECTIONAL ELEVATION**  
 SCALE-1:10



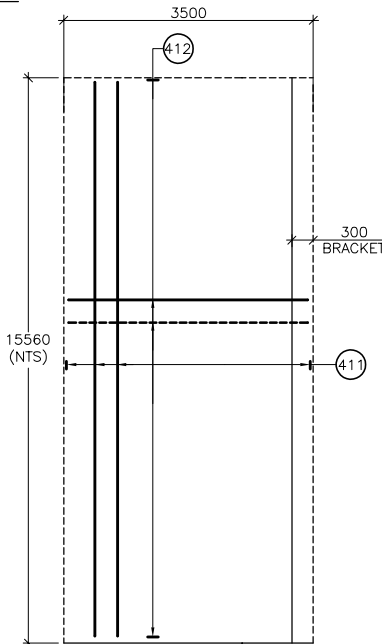
**PLAN**  
**DETAIL OF PRECAST HANDRAIL**  
 SCALE-1:10



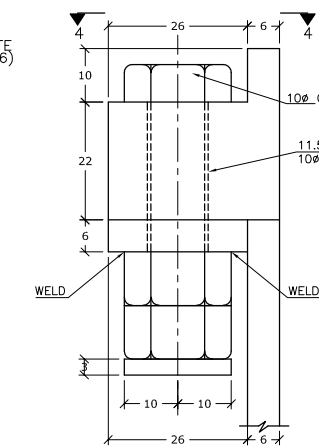
**SECTION 3-3**  
 SCALE- 1:15



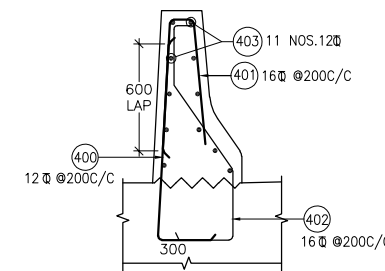
**PLAN**  
**DETAIL OF DRAINAGE**  
**SPOUT AND COLLECTION PIT**  
 SCALE- 1:15



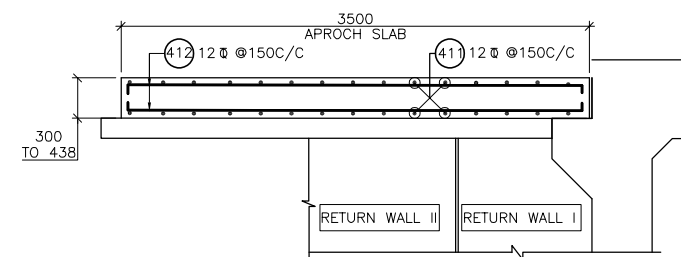
**PLAN OF APPROACH SLAB**  
**(REINFORCEMENT DETAIL)**  
 SCALE 1:75



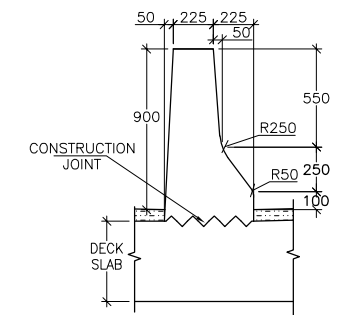
**DETAIL - A**  
 SCALE- 1:1



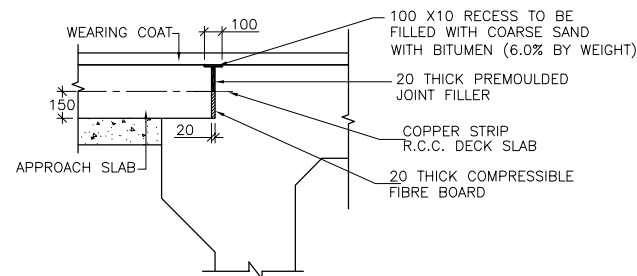
**RCC OF CRASH BARRIER**  
 SCALE-1:30



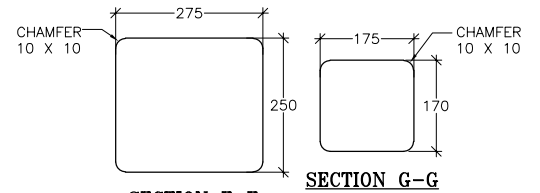
**DETAILS OF APPROACH SLAB**  
**(REINFORCEMENT DETAIL)**  
 SCALE 1:40



**DETAILS OF CRASH BARRIER**  
**(FOR GENERAL ARRANGEMENT)**  
 SCALE-1:30



**DETAILS OF FILLER JOINT**  
 SCALE- 1:30



**SECTION F-F**  
**SECTION G-G**  
**DETAILS OF HANDRAIL & POST**  
 SCALE-1:10

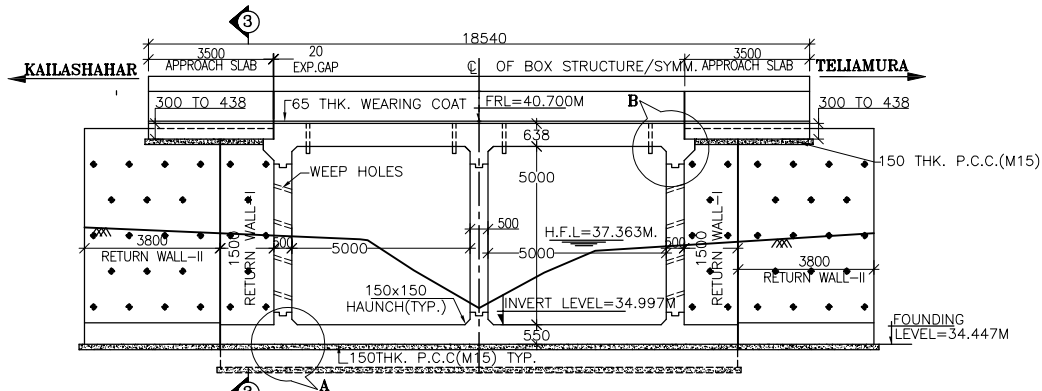
**NOTE :**  
 1. ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE NOTED.

**NOTES FOR RAILING :**  
 1. REINFORCEMENT OF RAILING POST SHOULD BE SUITABLY ANCHORED IN DECK SLAB.  
 2. CASTING OF POST SHALL BE DONE IN SINGLE POUR AFTER ACCURATELY POSITIONING THE PRECAST HANDRAIL.  
 3. RAILING SHALL BE CONSTRUCTED ONLY AFTER THE STRUCTURAL CONCRETE OF SUPERSTRUCTURE HAS HARDENED AND SHUTTERING IS RELEASED.  
 4. EXPANSION GAPS IN RAILING SHALL BE PROVIDED AT THE SAME LOCATIONS AS IN THE DECK SLAB.

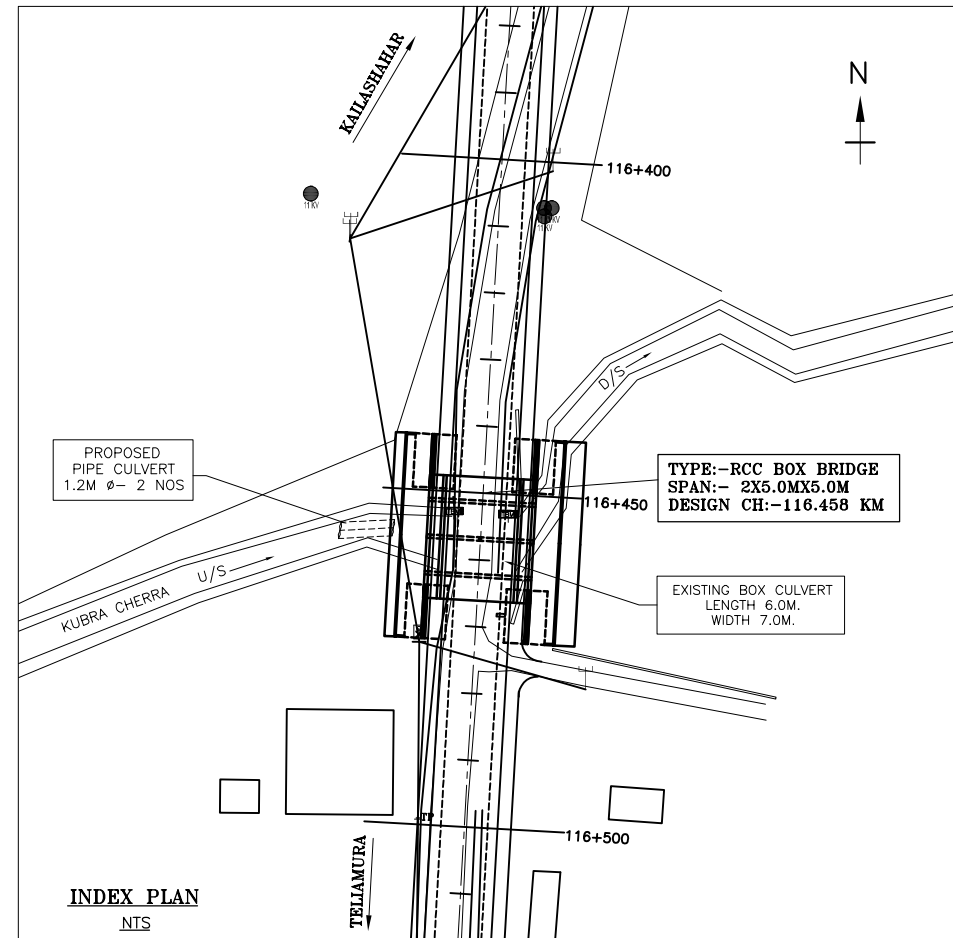
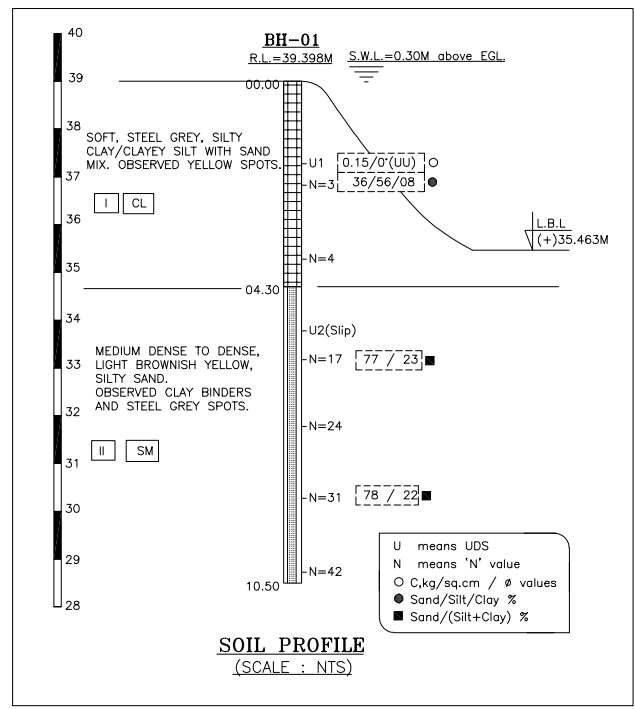
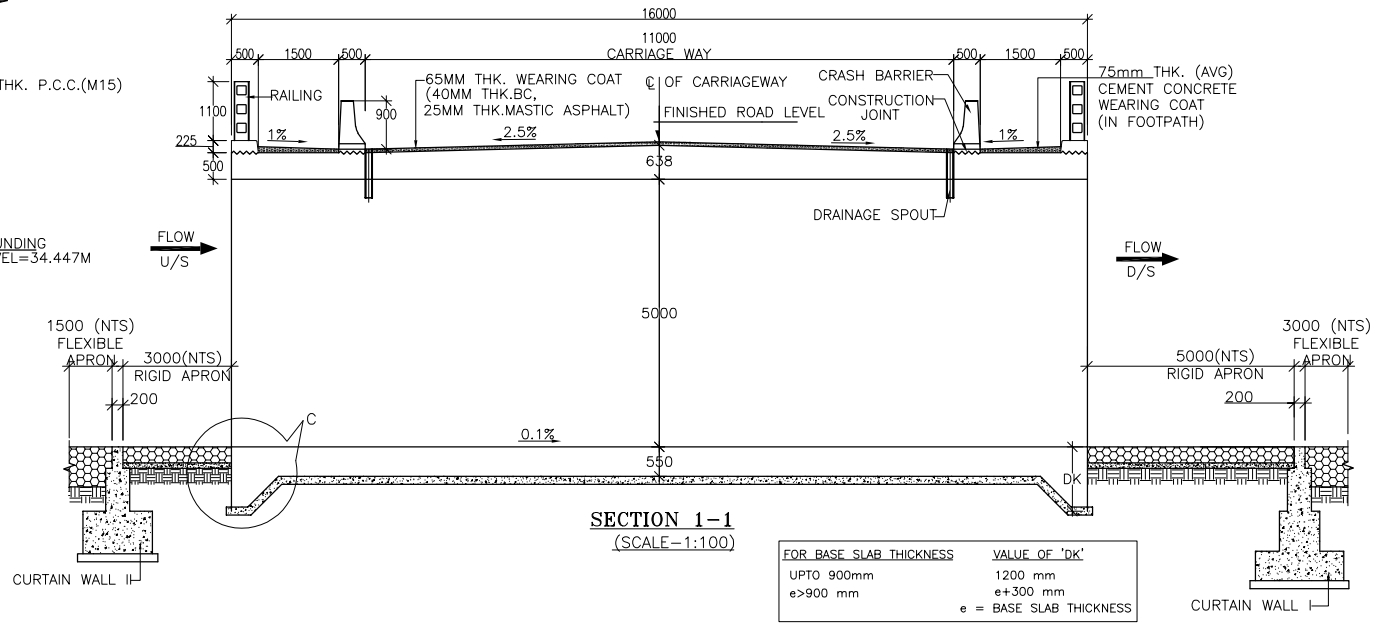
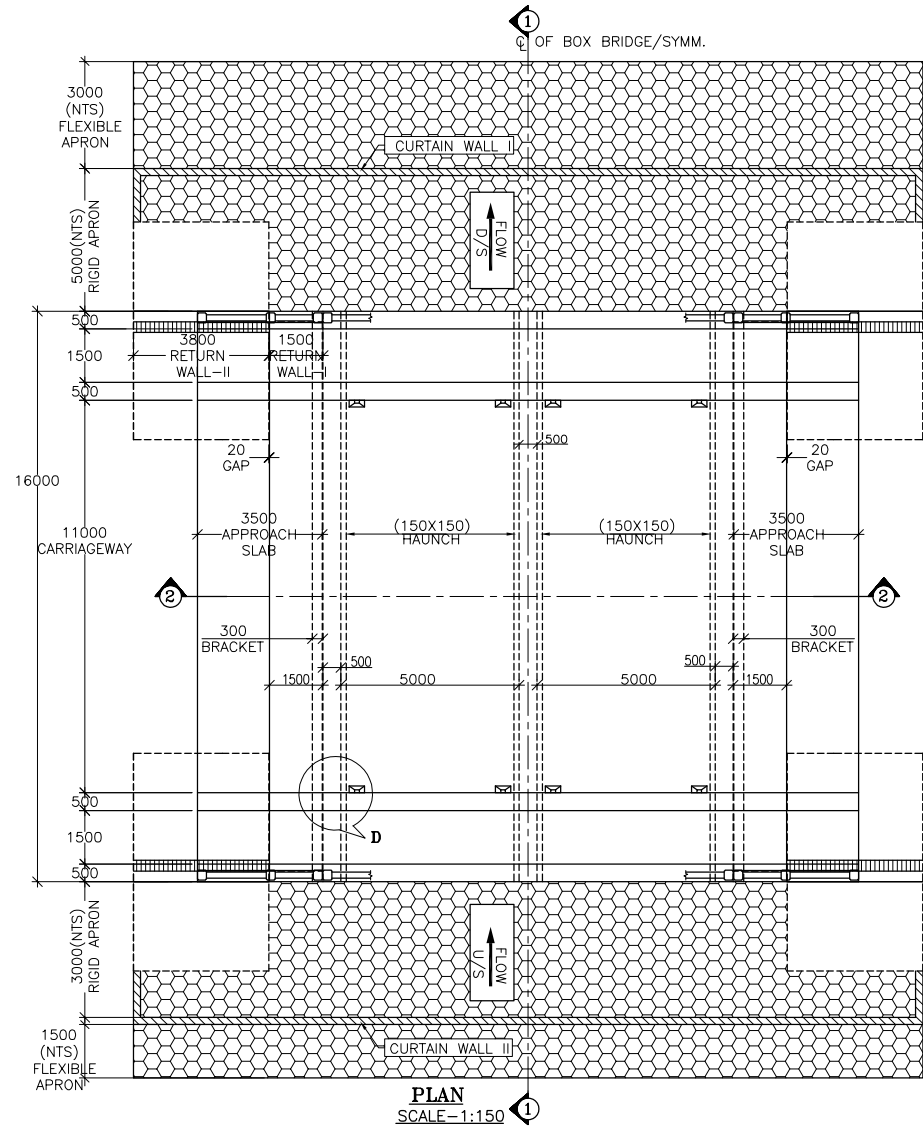
**NOTES FOR DRAINAGE SPOUT**  
 1. ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED.  
 2. ALL STEEL WORK SHALL BE AS PER IS - 2062.  
 3. DRAINAGE SPOUT & COLLECTION PIT ASSEMBLY SHALL BE FABRICATED FROM MILD STEEL & AFTER FABRICATION, THE COMPLETE ASSEMBLY EXCEPT GRATING SHALL BE GIVEN A HOT DIPPED GALVANIZED COATING.  
 4. THE REINFORCEMENT OF TOP SLAB OF BOX SHALL BE SUITABLY MODIFIED TO ACCOMMODATE THE DRAINAGE SPOUT.  
 5. THE DRAINAGE SPOUT SHALL BE GALVANIZED AFTER WELDING THE PLATES & FLATS.

**REFERENCE DRAWINGS :**  
 CET/BDG/2015/3580/NH-208/FDPR/MN/GA (SHEET NO. 01 & 02)  
 CET/BDG/2015/3580/NH-208/FDPR/MN/RCC (SHEET NO. 01 OF 01)

SCALE: AS SHOWN					CLIENT: Public Works Department Government of Tripura		National Highways & Infrastructure Development Corporation Ltd.		DETAILS OF DRAINAGE SPOUT, EXP. GAP RCC RAILING & CRASH BARRIER		CONSULTANT : <b>CETEST</b> CE TESTING COMPANY PVT. LTD. Engineering Consultants An ISO 9001, 14001 & OHSAS 18001 Certified Company 124-A, N.S.C. Bose Road Kolkata - 700092.		Dwg. No. CET/BDG/2015/3580/NH-208/FDPR/MN/MISC						
DATE: Nov, 2019					PROJECT: Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening to Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)							Revision Mkd. - R0		Sheet No. - 01 of 01					
REVISIONS					ROAD NAME: Kailashahar to Teliamura Section of NH-208 Package-VI (Km 101+300 to Km 127+319)							Drawn By. S.R		Design By. -		Checked By. A. D		Approved By. B.K	

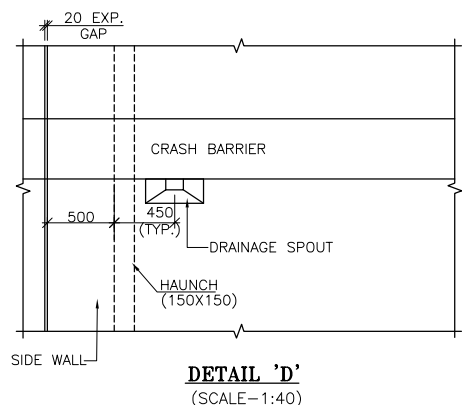
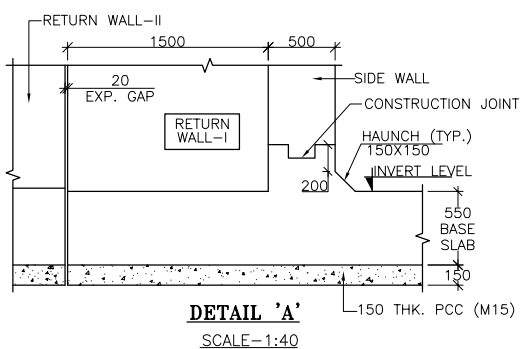
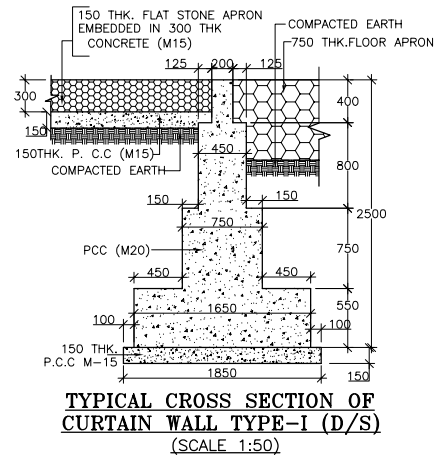
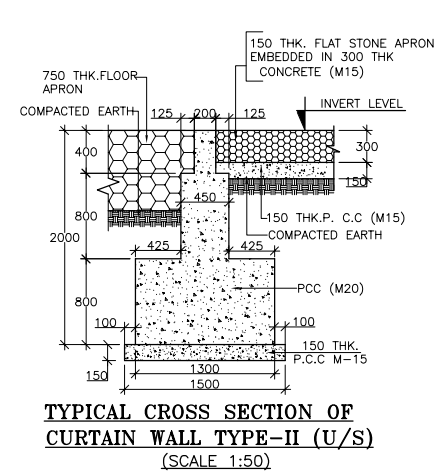
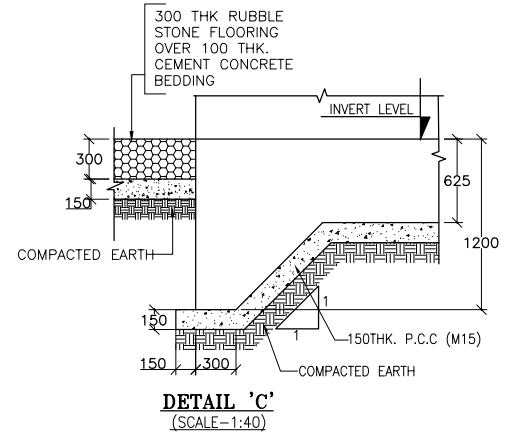
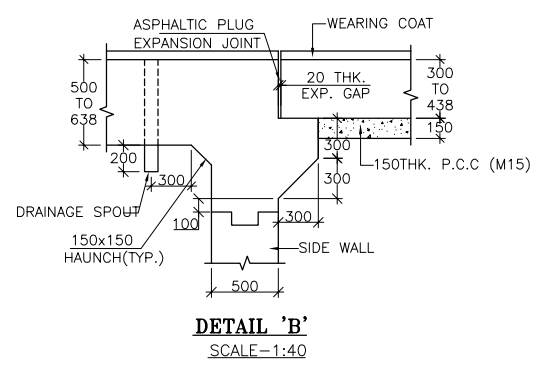
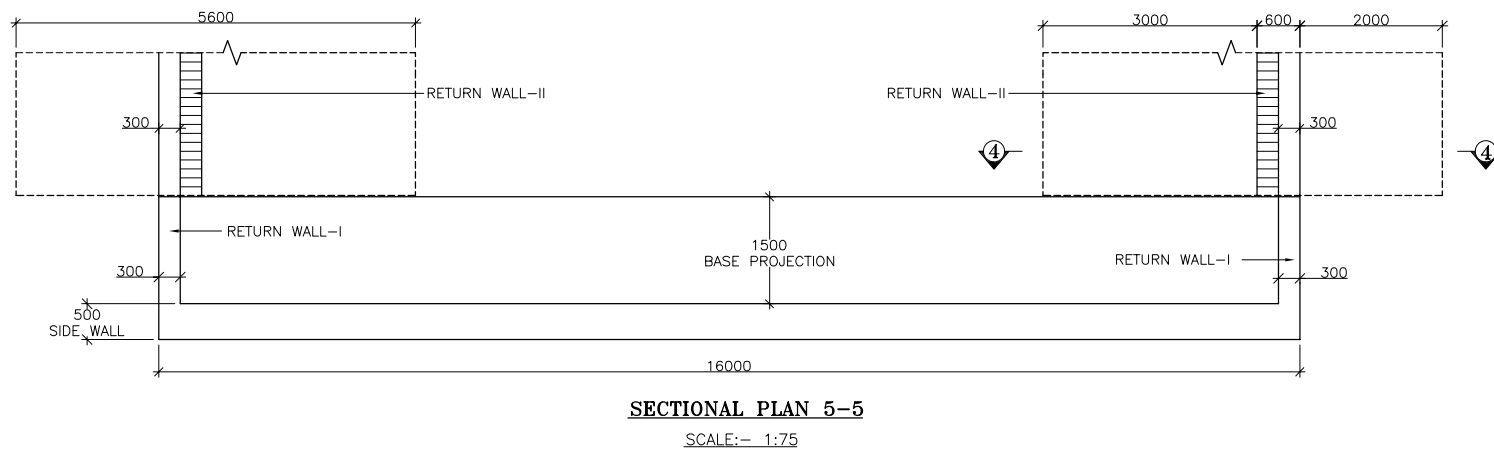
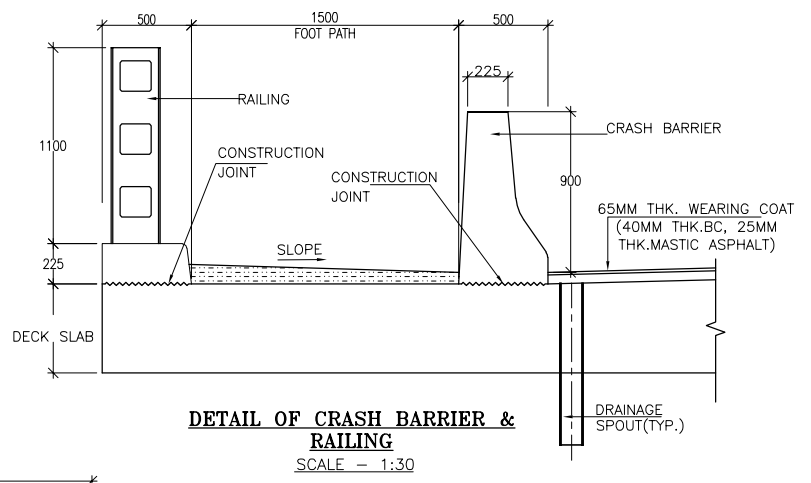
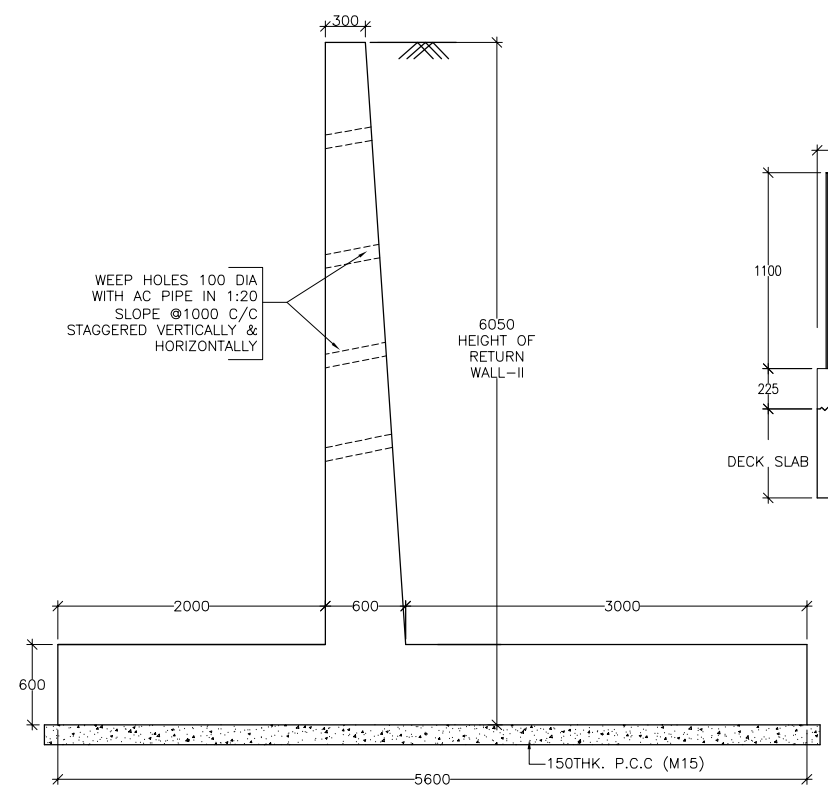
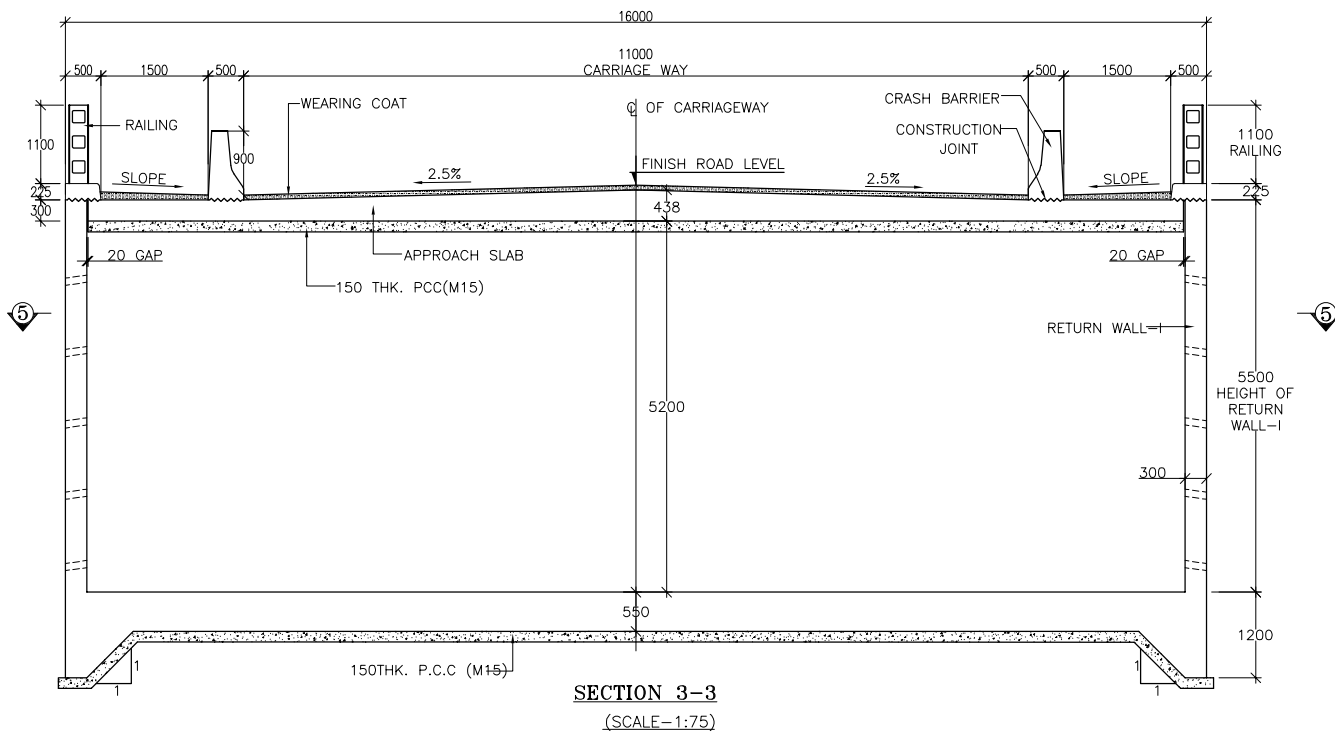


ELEVATION(M)	37.722	37.386	37.363	36.517	35.463	36.459	37.068	37.564
OFFSET(M)	11.070	-3.339	-3.126	-1.835	0.000	1.827	3.256	11.070



- NOTES :**
- ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE MENTIONED.
  - GRADE OF CONCRETE :-  
BOX STRUCTURE - M30  
RETURN WALL - M30  
APPROACH SLAB - M30  
RCC RAILING - M30  
CURTAIN WALL - M20  
LEVELING COURSE(P.C.C) - M15  
CRASH BARRIER- M40 & KERB-M30
  - GRADE OF STEEL Fe-500 AS PER I.S.-1786.
  - CLASS A 3 LANES OR CLASS A 1 LANE+ CLASS 70R PRODUCING WORST EFFECT WILL BE CONSIDERED.
  - PROPERTIES OF BACKFILL SOIL  $\gamma=1.8t/m^3$ ,  $\phi=30^\circ$ .
  - FILTER MATERIAL BEHIND ABUTMENT AND RETURN WALL SHALL CONFORM TO CLAUSE 2504.2.2 OF MoRTH SPECIFICATIONS TO A THICKNESS OF NOT LESS THAN 600mm. WITH SMALLER SIZE TOWARDS THE SOIL AND BIGGER SIZE TOWARDS THE WALL TO THE FULL HEIGHT.
  - SOFT AND LOOSE PATCHES IN THE BEARING AREA ARE TO BE REPLACED BY COMPACTED GRANULAR FILLS WITH LAYERS NOT EXCEEDING 300mm.
  - THE SOIL BELOW FOUNDATION LEVEL SHOULD BE WELL COMPACTED TO ACHIEVE MINIMUM BEARING CAPACITY OF 10t/SQM.
  - NORMAL SCOUR LEVEL-35.463M.
  - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO. :-  
CET/BDG/2015/3580/NH-208/FDPR/MN/GA (SHEET NO. 02 OF 02)  
CET/BDG/2015/3580/NH-208/FDPR/MN/RCC (SHEET NO. 01 OF 01)  
CET/BDG/2015/3580/NH-208/FDPR/MN/MISC (SHEET NO. 01 OF 01)

SCALE: AS SHOWN					CLIENT: Public Works Department Government of Tripura		National Highways & Infrastructure Development Corporation Ltd.		GENERAL ARRANGEMENT DRAWING OF RCC BOX BRIDGE 2X5.0M X5.0M CHAINAGE : 116.458 KM		CONSULTANT : <b>CETEST</b> CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.		Dwg. No. CET/BDG/2015/3580/NH-208/FDPR/MN/GA				
DATE: Nov, 2019					PROJECT: Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening to Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)							Revision Mkd. - R0		Sheet No. - 01 of 02			
ROAD NAME: Kailashahar to Teliamura Section of NH-208					Package:-VI (Km 101+300 to Km 127+319)					Drawn By. S.R		Design By. A.M		Checked By. A.D		Approved By. B.K	
REVISIONS																	



**NOTES :**

1. ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE MENTIONED.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO. :-  
 CET/BDG/2015/3580/NH-208/FDPR/MN/GA (SHEET NO. 01 OF 02)  
 CET/BDG/2015/3580/NH-208/FDPR/MN/RCC (SHEET NO. 01 OF 01)  
 CET/BDG/2015/3580/NH-208/FDPR/MN/MISC (SHEET NO. 01 OF 01)

SCALE: AS SHOWN					CLIENT: Public Works Department Government of Tripura		National Highways & Infrastructure Development Corporation Ltd.		GENERAL ARRANGEMENT DRAWING OF RCC BOX BRIDGE 2X5.0M X5.0M		CONSULTANT : <b>CETEST</b> CE TESTING COMPANY PVT. LTD. Engineering Consultants An ISO 9001, 14001 & OHSAS 18001 Certified Company 124-A, N.S.C. Bose Road Kolkata - 700092.		Dwg. No. CET/BDG/2015/3580/NH-208/FDPR/MN/GA	
DATE: Nov, 2019					PROJECT: Consultancy Services for Preparation of Feasibility Study and DPR for Improvement and Widening to Two Lane with 1.5 m Paved Shoulder of Newly Declared NH-208 (Length 157.70 Km) for Execution on EPC Mode in the State of Tripura under NH(O)		ROAD NAME: Kailashahar to Teliamura Section of NH-208		Package:-VI (Km 101+300 to Km 127+319)		Revision Mkd. - R0		Sheet No. - 02 of 02	
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.							Drawn By.	Design By.	Checked By.	Approved By.
REVISIONS											S.R	A. M	A. D	B.K