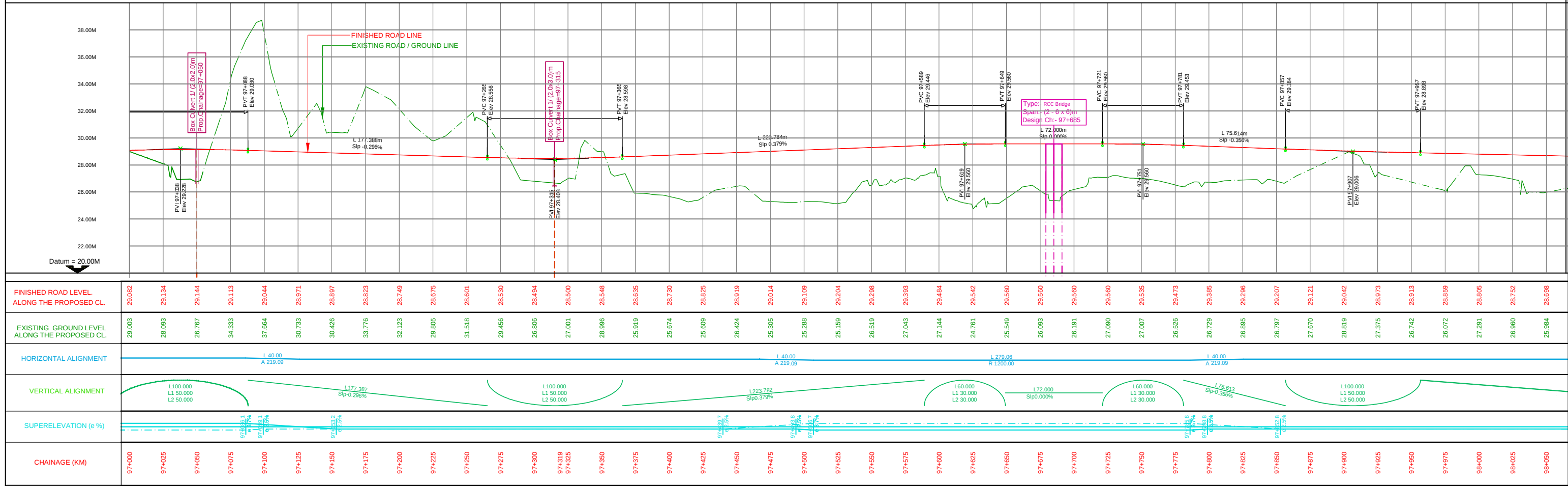
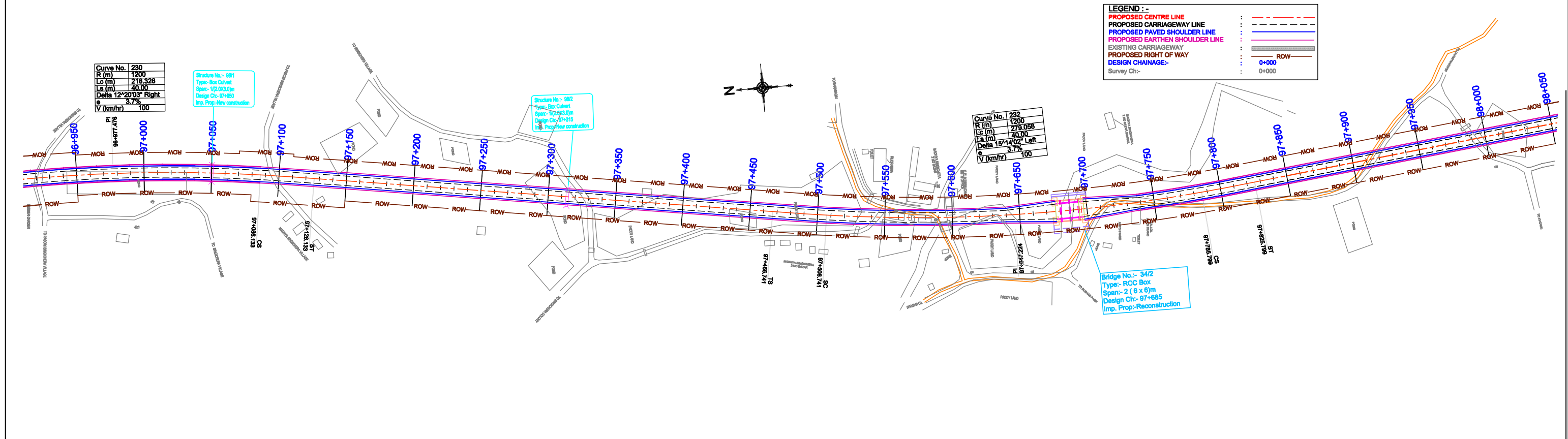
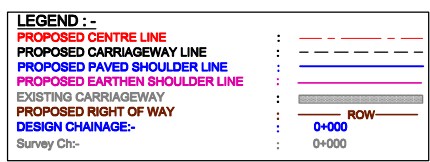


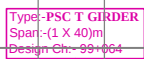
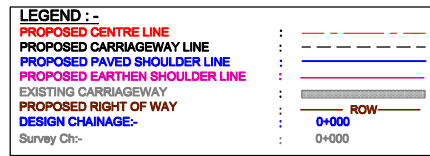


R2	Dec 2017	Introducing Innovative Pavement			SCALE: HOR - 1:2000 VER - 1:200	CLIENT: Public Works Department Government of Tripura	National Highways & Infrastructure Development Corporation Ltd.	PLAN & PROFILE Km 97+000 to Km 98+000	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.	Dwg. No. CET/2015/3580/NH-208/FDPR/PP			
R1	June 2017	Package Wise Division with Conventional Pavement								Revision Mkd. - R3		Sheet No. - 23 of 27	
R0	Jan 2017	Total Project Road with Conventional Pavement								Drawn By.	Design By.	Checked By.	Approved By.
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	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:-V (Km 75+700 to Km 101+300)			M.Acharya	S.Dey	S.Sadhu	B.Koner
REVISIONS													



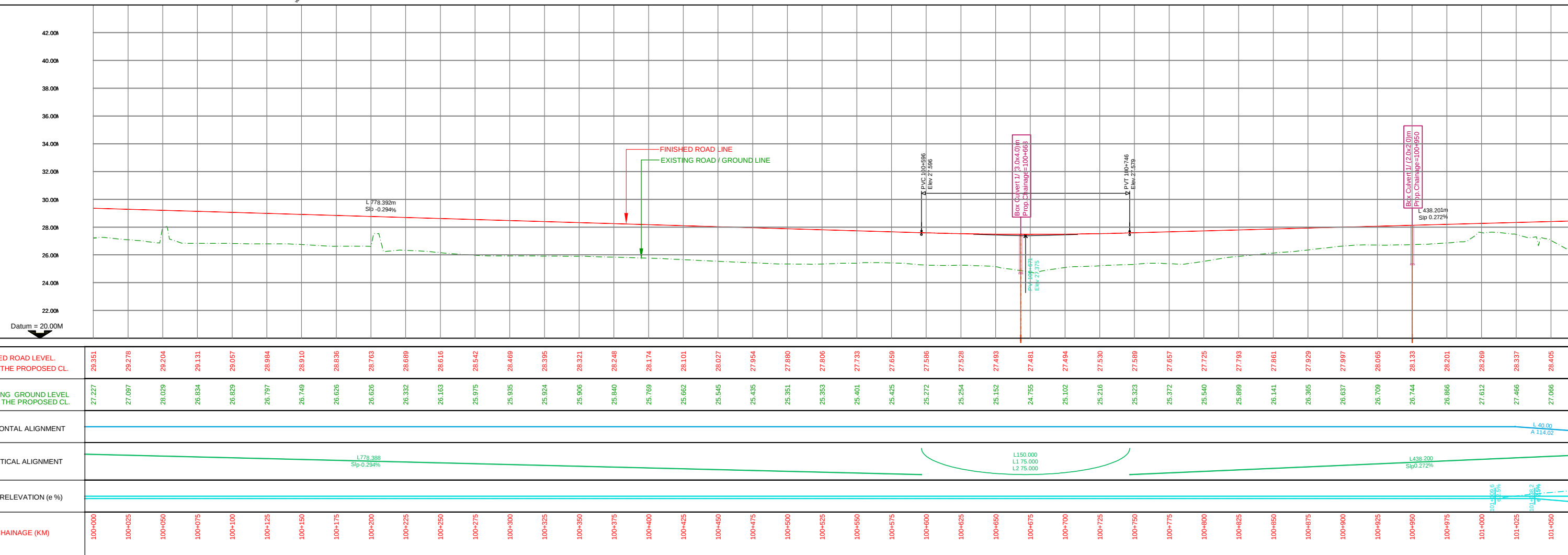
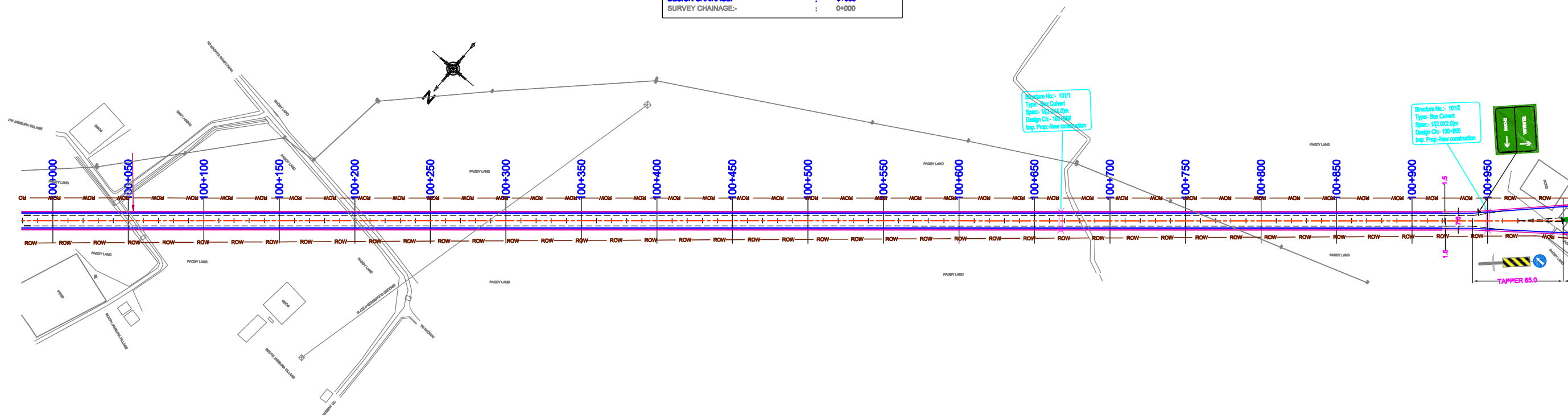
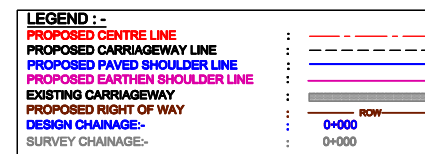
FINISHED ROAD LEVEL, ALONG THE PROPOSED CL.	26.805	26.752	26.698	26.645	26.591	26.538	26.484	26.430	26.377	26.341	26.341	26.380	26.455	26.550	26.645	26.740	26.836	26.931	26.926	26.921	26.916	26.911	26.907	26.902	26.897	26.892	26.797	26.925	30.076	30.251	30.438	30.626	30.814	31.002	31.190	31.378	31.565	31.753	31.925	32.024	32.046	32.046	32.046
EXISTING GROUND LEVEL ALONG THE PROPOSED CL.	27.291	26.960	25.984	26.459	26.638	26.764	26.079	26.006	26.597	28.213	26.977	28.311	28.980	31.062	31.381	30.213	34.306	35.952	35.112	30.981	32.920	36.282	37.363	34.115	30.085	34.305	35.504	30.768	28.394	28.326	28.138	28.239	29.549	29.668	28.448	28.257	28.254	28.372	28.551	28.744	28.776	29.063	27.882
HORIZONTAL ALIGNMENT																																											
VERTICAL ALIGNMENT																																											
SUPERELEVATION (e %)																																											
CHAINAGE (KM)	98+000	98+025	98+050	98+075	98+100	98+125	98+150	98+175	98+200	98+225	98+250	98+275	98+300	98+325	98+350	98+375	98+400	98+425	98+450	98+475	98+500	98+525	98+550	98+575	98+600	98+625	98+650	98+675	98+700	98+725	98+750	98+775	98+800	98+825	98+850	98+875	98+900	98+925	98+950	98+975	99+000	99+025	99+050

R2	Dec 2017	Introducing Innovative Pavement			SCALE: HOR - 1:2000 VER - 1:200	CLIENT: Public Works Department Government of Tripura	National Highways & Infrastructure Development Corporation Ltd.	PLAN & PROFILE Km 98+000 to Km 99+000	CONSULTANT :  CETEST Engineering Consultants 124-A, N.S.C. Bose Road Kolkata - 700092.	Dwg. No.	CET/2015/3580/NH-208/FDPR/PP		
R1	June 2017	Package Wise Division with Conventional Pavement								Revision Mkd. - R3	Sheet No. - 24 of 27		
R0	Jan 2017	Total Project Road with Conventional Pavement			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:-V (Km 75+700 to Km 101+300)			Drawn By.	Design By.	Checked By.	Approved By.
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.						M.Acharya	S.Dey	S.Sadhu	B.Koner
REVISIONS													

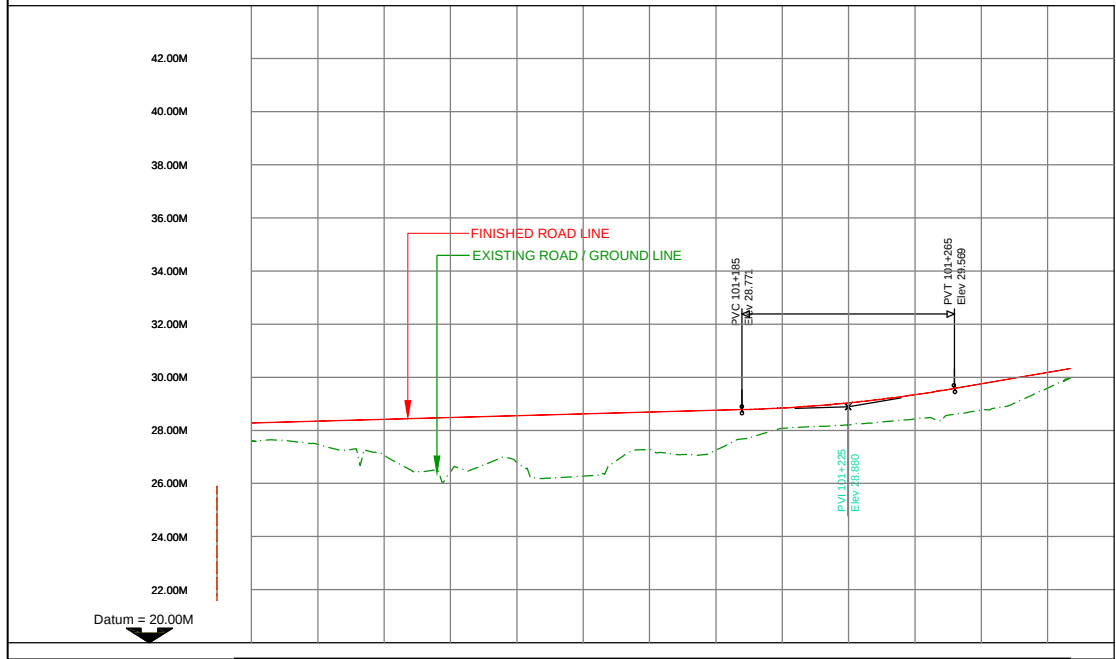


FINISHED ROAD LEVEL ALONG THE PROPOSED CL.	32.046	32.046	32.046	32.046	32.046	32.046	32.039	32.000	31.926	31.843	31.760	31.677	31.593	31.510	31.427	31.343	31.260	31.177	31.094	31.010	30.927	30.844	30.760	30.677	30.594	30.511	30.427	30.344	30.261	30.177	30.096	30.017	29.941	29.866	29.793	29.719	29.646	29.572	29.499	29.425	29.351	29.278	29.204
EXISTING GROUND LEVEL ALONG THE PROPOSED CL.	28.776	29.063	27.882	26.371	28.467	29.447	29.594	29.463	29.425	29.713	29.641	29.981	29.927	29.729	29.288	28.959	28.353	28.298	28.161	28.072	28.104	28.021	28.171	28.111	28.025	27.937	27.907	27.843	27.811	27.865	27.704	27.564	27.468	27.438	27.356	27.244	27.082	27.172	27.143	27.127	27.227	27.097	28.029
HORIZONTAL ALIGNMENT																																											
VERTICAL ALIGNMENT																																											
SUPERELEVATION (e %)																																											
CHAINAGE (KM)	99+000	99+025	99+050	99+075	99+100	99+125	99+150	99+175	99+200	99+225	99+250	99+275	99+300	99+325	99+350	99+375	99+400	99+425	99+450	99+475	99+500	99+525	99+550	99+575	99+600	99+625	99+650	99+675	99+700	99+725	99+750	99+775	99+800	99+825	99+850	99+875	99+900	99+925	99+950	99+975	100+000	100+025	100+050

R2	Dec 2017	Introducing Innovative Pavement			SCALE: HOR - 1:2000 VER - 1:200	CLIENT: Public Works Department Government of Tripura	National Highways & Infrastructure Development Corporation Ltd.	PLAN & PROFILE Km 99+000 to Km 100+000	CONSULTANT : CETEST Engineering Consultants AUTISO 9001, 14001 & OHSAS 18001 Certified Company CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.	Dwg. No.	CET/2015/3580/NH-208/FDPR/PP		
R1	June 2017	Package Wise Division with Conventional Pavement								Revision Mkd. - R3		Sheet No. - 25 of 27	
R0	Jan 2017	Total Project Road with Conventional Pavement			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:-V (Km 75+700 to Km 101+300)		Drawn By.	Design By.	Checked By.	Approved By.
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.						M.Acharya	S.Dey	S.Sadhu	B.Koner
REVISIONS													



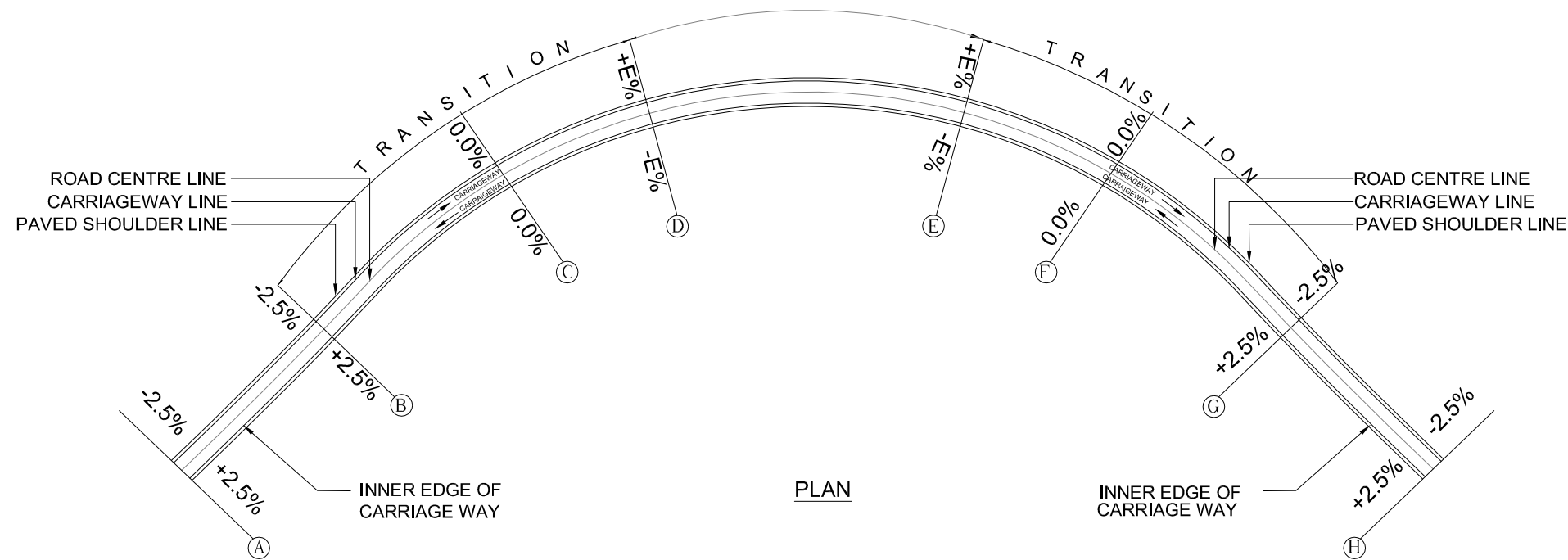
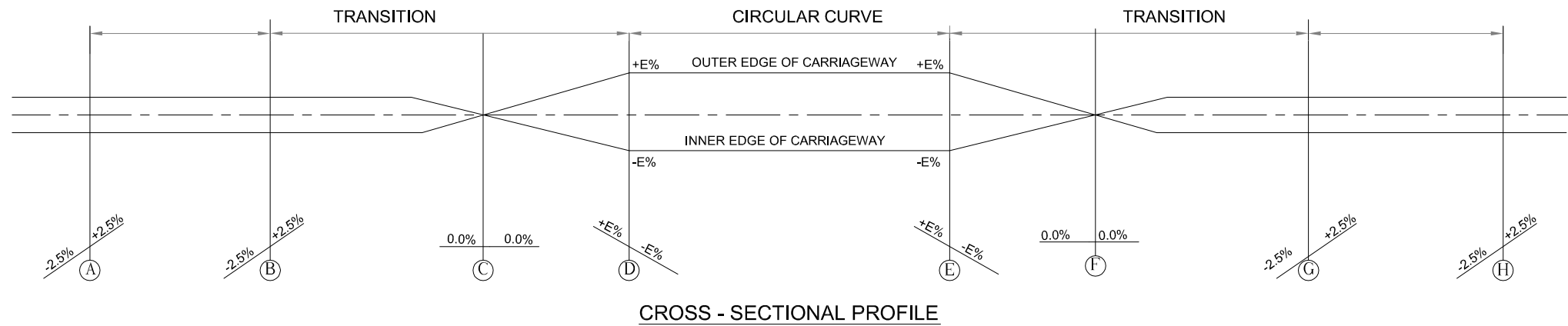
R2	Dec 2017	Introducing Innovative Pavement				SCALE: HOR - 1:2000 VER - 1:200	CLIENT: Public Works Department Government of Tripura	National Highways & Infrastructure Development Corporation Ltd.	PLAN & PROFILE Km 100+000 to Km 101+000	CONSULTANT : CETEST Engineering Consultants AutISO 9001, 14001 & OHSAS 18001 Certified Company CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.	Dwg. No. CET/2015/3580/NH-208/FDPR/PP				
R1	June 2017	Package Wise Division with Conventional Pavement									Revision Mkd. - R3		Sheet No. - 26 of 27		
R0	Jan 2017	Total Project Road with Conventional Pavement									Drawn By.	Design By.	Checked By.	Approved By.	
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.		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:-V (Km 75+700 to Km 101+300)						
REVISIONS												M.Acharya	S.Dey	S.Sadhu	B.Koner



FINISHED ROAD LEVEL, ALONG THE PROPOSED CL.	26.269	26.337	26.405	26.473	26.541	26.609	26.677	26.745	26.834	26.928	26.936	26.748	26.576
EXISTING GROUND LEVEL ALONG THE PROPOSED CL.	27.612	27.466	27.066	26.453	26.778	26.277	27.271	27.263	28.073	28.207	28.431	28.754	28.545
HORIZONTAL ALIGNMENT													
VERTICAL ALIGNMENT													
SUPERELEVATION (e %)													
CHAINAGE (KM)	101+000	101+025	101+050	101+075	101+100	101+125	101+150	101+175	101+200	101+225	101+250	101+275	101+300

R2	Dec 2017	Introducing Innovative Pavement			SCALE: HOR - 1:2000 VER - 1:200	CLIENT: Public Works Department Government of Tripura	National Highways & Infrastructure Development Corporation Ltd.	PLAN & PROFILE Km 101+000 to Km 101+300	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.	Dwg. No. CET/2015/3580/NH-208/FDPR/PP			
R1	June 2017	Package Wise Division with Conventional Pavement								Revision Mkd. - R3		Sheet No. - 27 of 27	
R0	Jan 2017	Total Project Road with Conventional Pavement			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:-V (Km 75+700 to Km 101+300)			Drawn By.	Design By.	Checked By.	Approved B.
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.						M.Acharya	S.Dey	S.Sadhu	B.Koner
REVISIONS													

MISCELLANEOUS DRAWING

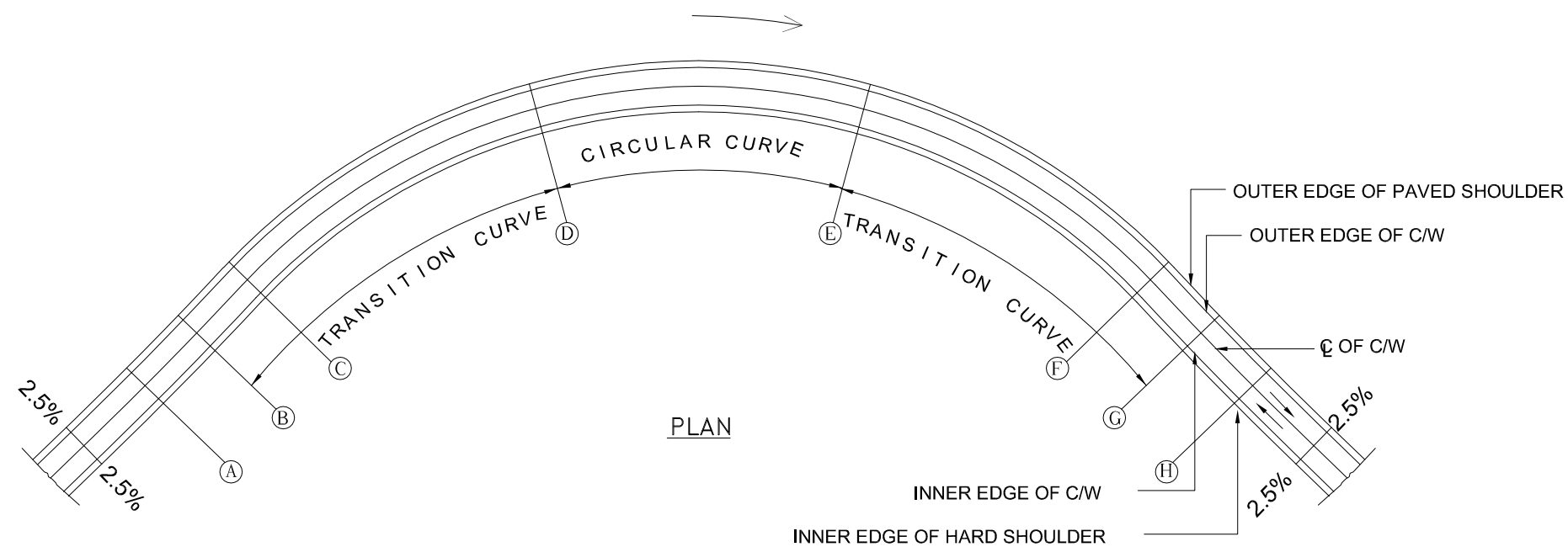
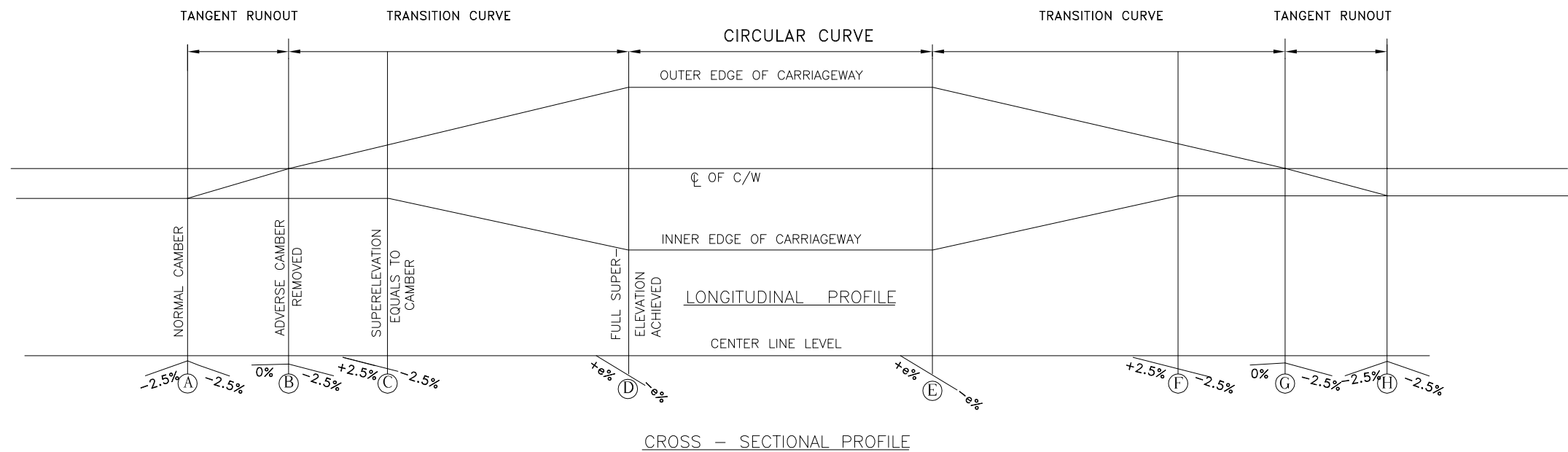


**TYPICAL DETAILS OF SUPERELEVATION ATTAINMENT FOR A SIMPLE CIRCULAR CURVE
(WITH TRANSITION)**

NOTE :-

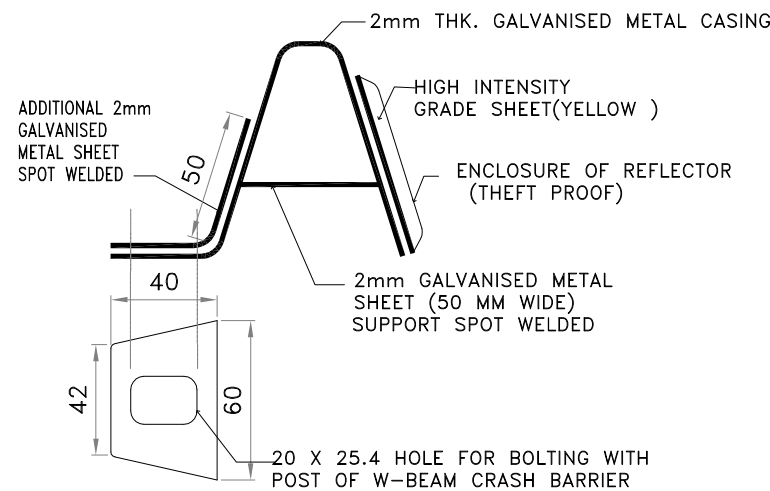
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.

R2	Dec 2017	Introducing Innovative Pavement			SCALE: N.T.S	CLIENT: Public Works Department Government of Tripura	National Highways & Infrastructure Development Corporation Ltd.	DETAILS OF CURVE COMPONENT	CONSULTANT : CETEST Engineering Consultants As ISO 9001, 14001 & OHSAS 18001 Certified Company CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.	Dwg. No. CET/2015/3580/NH-208/FDPR/MISC			
R1	June 2017	Package Wise Division with Conventional Pavement								Revision Mkd. - R3		Sheet No. - 01A	
R0	Jan 2017	Total Project Road with Conventional Pavement								Drawn By.	Design By.	Checked By.	Approved By.
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: JULY ,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:-V				
REVISIONS										M.Acharya	S.Dey	S.Sadhu	B.Koner

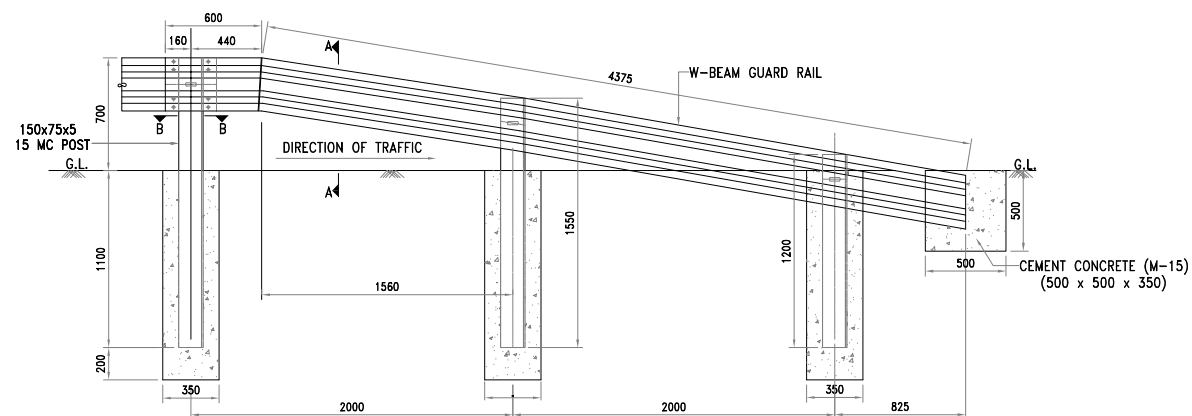


TYPICAL DETAILS OF SUPERELEVATION ATTAINMENT FOR A CIRCULAR CURVE WITH TRANSITIO CURVE
(ROTATION ABOUT CARRIAGEWAY CENTRE LINE FOR THROUGH CUTTING

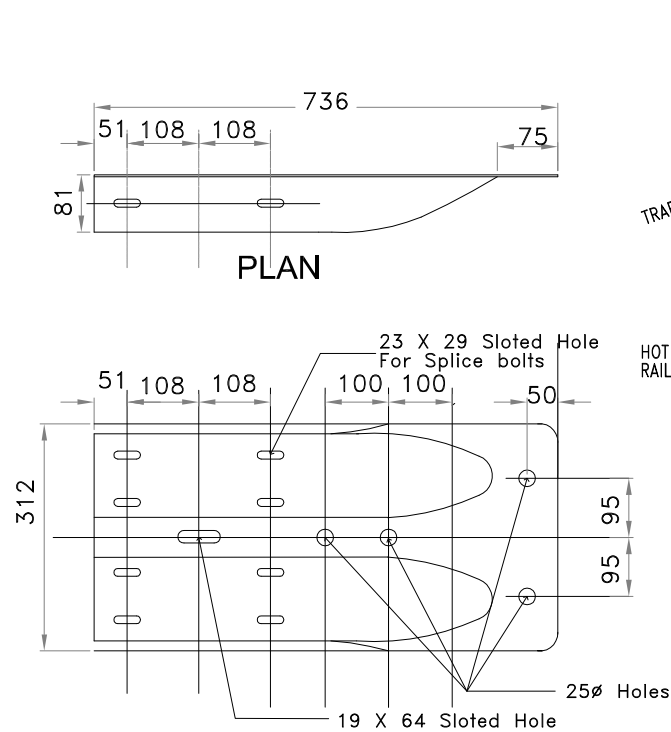
R2	Dec 2017	Introducing Innovative Pavement			SCALE: N.T.S	CLIENT:	Public Works Department Government of Tripura	National Highways & Infrastructure Development Corporation Ltd.	DETAILS OF CURVE COMPONENT	 CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.	Dwg. No.	CET/2015/3580/NH-208/FDPR/MISC			
R1	June 2017	Package Wise Division with Conventional Pavement									Revision Mkd. - R3	Sheet No. - 01B			
R0	Jan 2017	Total Project Road with Conventional Pavement									Drawn By.	Design By.	Checked By.	Approved By.	
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: JULY ,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:-V		M.Acharya	S.Dey	S.Sadhu	B.Koner	
REVISIONS															



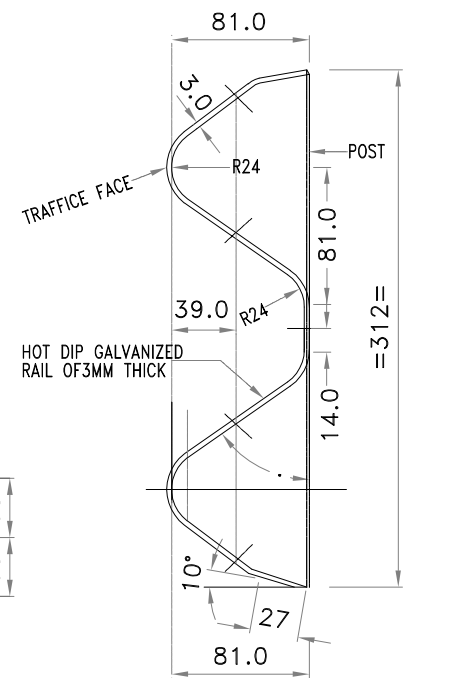
GUARD RAIL REFLECTOR



ELEVATION SHOWING SINGLE SIDED GAURD RAIL SYSTEM - END SIDE ARRANGEMENT



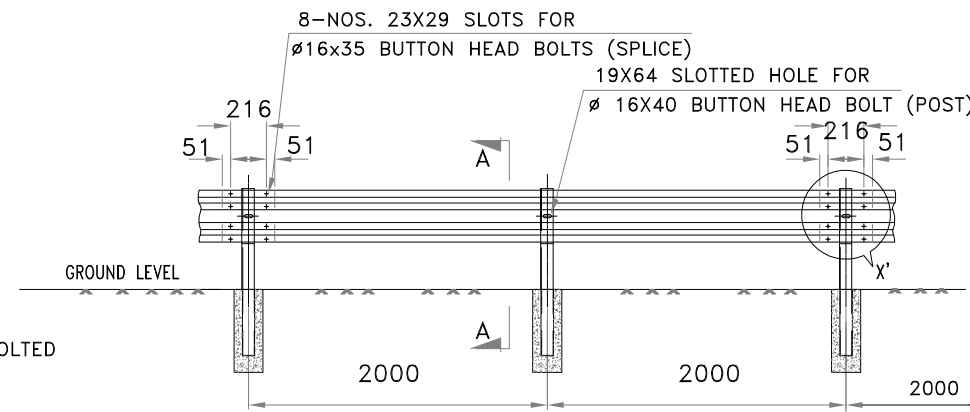
ELEVATION OF W BEAM END SECTION (FLARED)



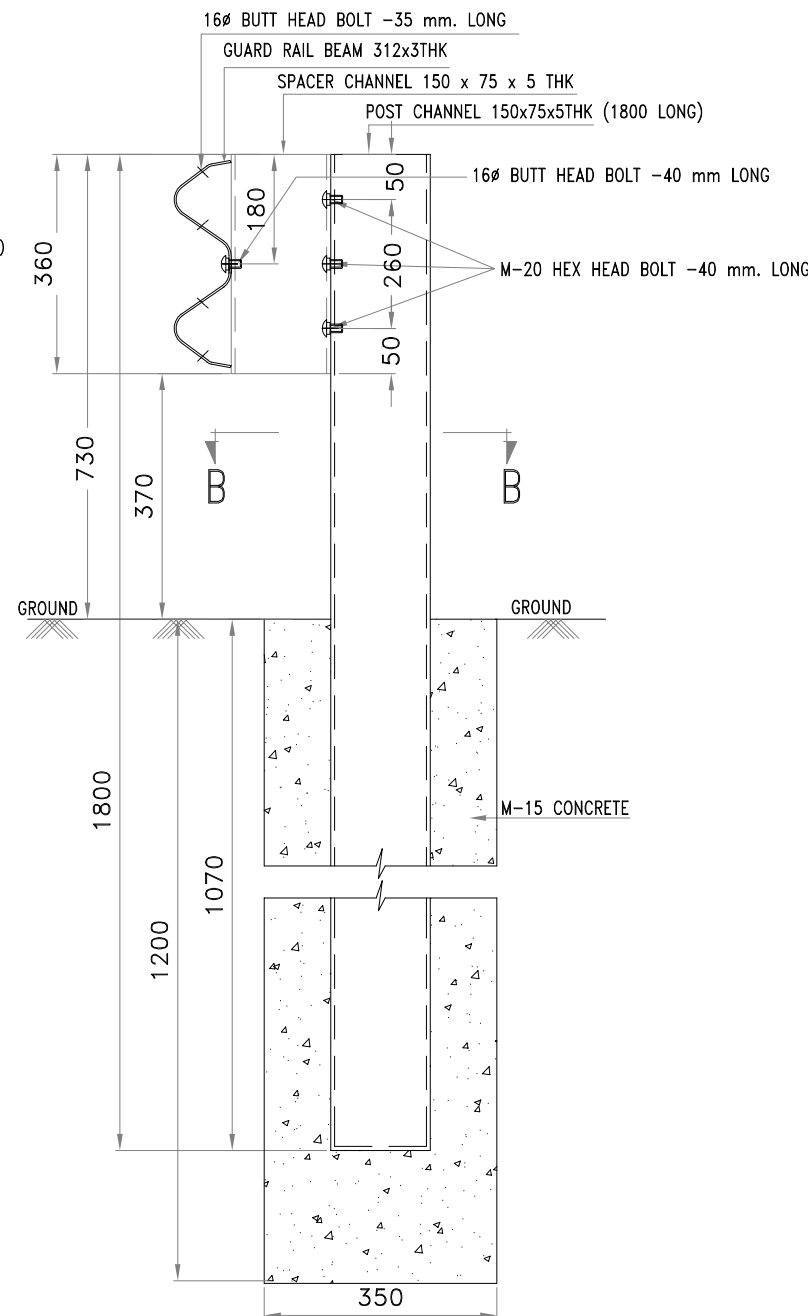
TYPICAL CROSS SECTION OF W-BEAM

SHAPE : Equilateral Trapezium
DIMENSIONS :
FRONT CASING
Top: 95 mm
Bottom: 70 mm
Height: 80 mm
REFLECTIVE PORTION
Top: 70 mm
Bottom: 50 mm
Height: 50 mm

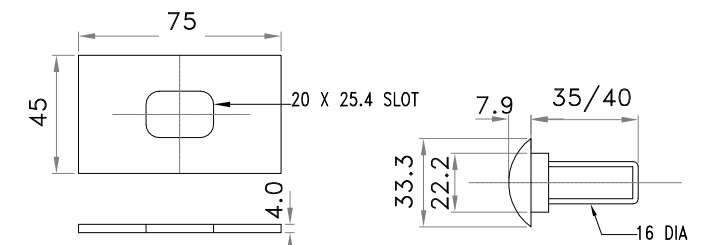
GUARD RAIL REFLECTOR WILL BE BOLTED REPLACING SPLICE WASHER EVERY 10 POSTS INTERVAL



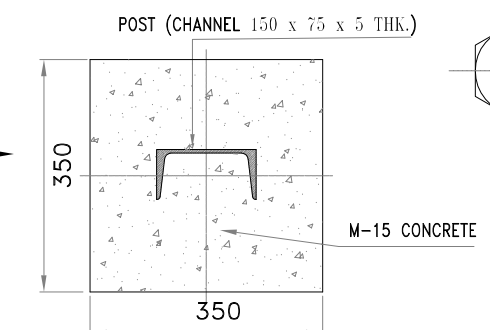
ELEVATION OF SINGLE SIDED GUARD RAIL



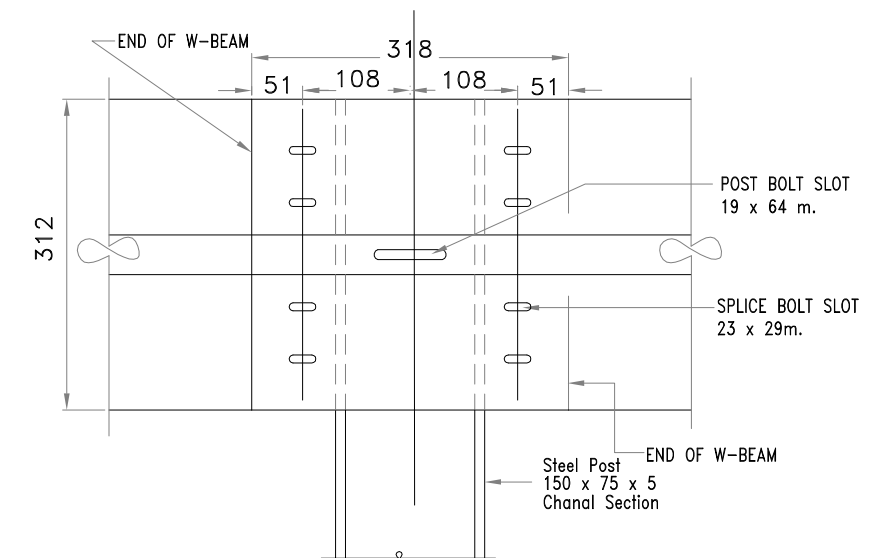
CROSS SECTION A-A



SPLICE WASHER



SECTION 'B-B'

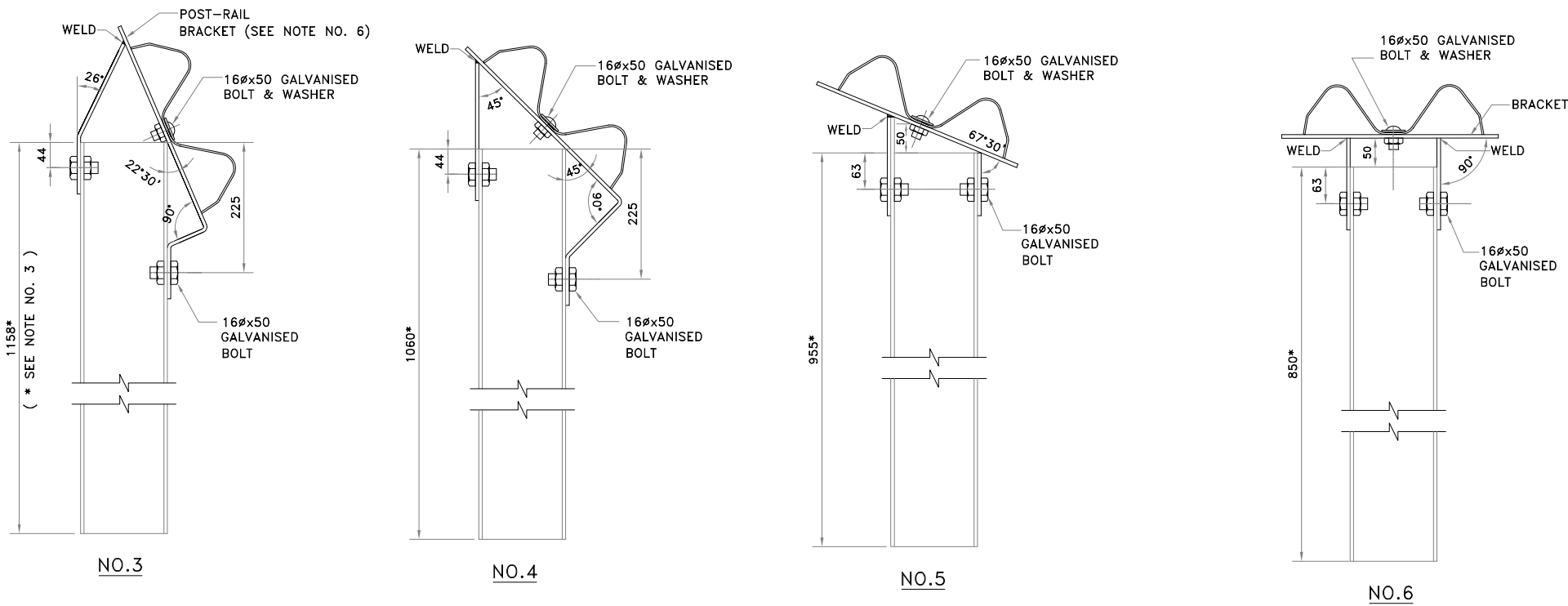


DETAILS OF 'X'

NOTES :

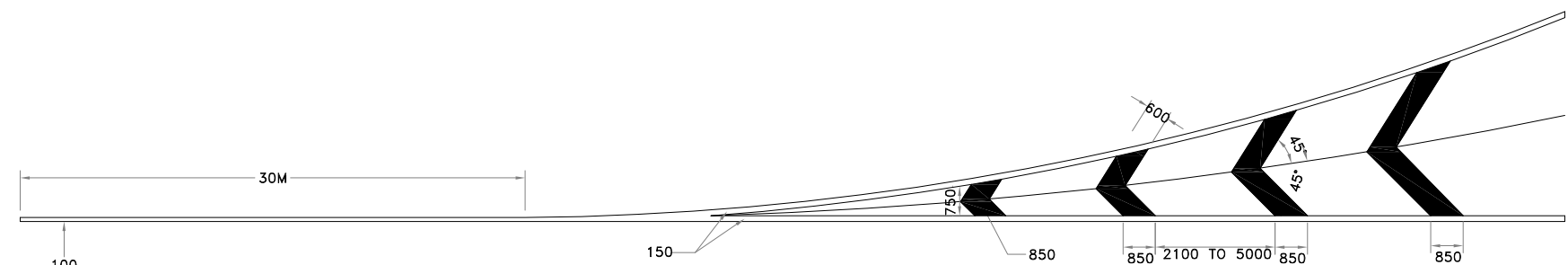
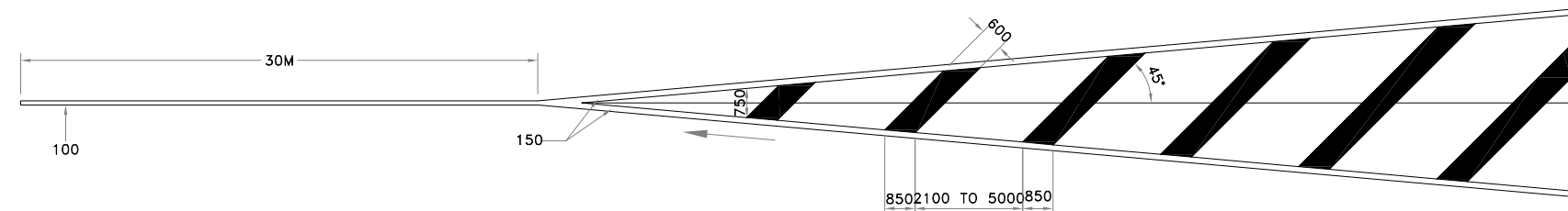
- ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE.
- ALL PUNCHING DIMENSIONS UNLESS OTHERWISE STATED = ±1mm.
- WELDING ELECTRODES SHALL CONFORM TO IS:314.
- FOR GUARD RAIL BEAMS, POSTS & SPACER MATERIAL SHALL CONFORM TO IS:10748, GRADE-II. IS 808, IS 2062
- BOLTS,NUTS & WASHERS SHALL BE ELECTRO GALVANISED.
- GUARD RAIL, POSTS, SPACERS, FOUNDATION BOLTS SHALL BE HOT DIP GALVANISED.
- THE OVER LAPPING OF THE GAURD RAIL BEAM SHALL BE ACHIEVED USING SUITABLE SIZE WASHERS.
- GUARD RAILS ARE TO BE PROVIDED WHEREVER:-
a) HEIGHT OF THE EMBANKMENT IS MORE THAN 3M
b) OUTER SIDE OF SUPERELEVATED SECTION,UNDERPASS,PIER OBSTRUCTION AND BOTH SIDES OF BRIDGE APPROACHES.
- ALL FITTINGS TO CONFORM TO IS : 1367 AND IS : 1364
- W-BEAM GUARDRAIL ARE TO BE FABRICATED AND INSTALLED AS PER SECTION 810 OF MORT&H'S SPECIFICATION FOR METAL BEAM CRASH BARRIER.

R2	Dec 2017	Introducing Innovative Pavement			SCALE: N.T.S	CLIENT: Public Works Department Government of Tripura	National Highways & Infrastructure Development Corporation Ltd.	DETAILS OF W-BEAM METAL CRASH BARRIER	CONSULTANT : CE TESTING COMPANY PVT. LTD.	Dwg. No. CET/2015/3580/NH-208/FDPR/MISC
R1	June 2017	Package Wise Division with Conventional Pavement								Revision Mkd. - R3
R0	Jan 2017	Total Project Road with Conventional Pavement								Sheet No. - 02A
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: JULY, 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:-V	124-A, N.S.C. Bose Road Kolkata - 700092.	Drawn By. Design By. Checked By. Approved By.
REVISIONS										M.Acharya S.Dey S.Sadhu B.Koner

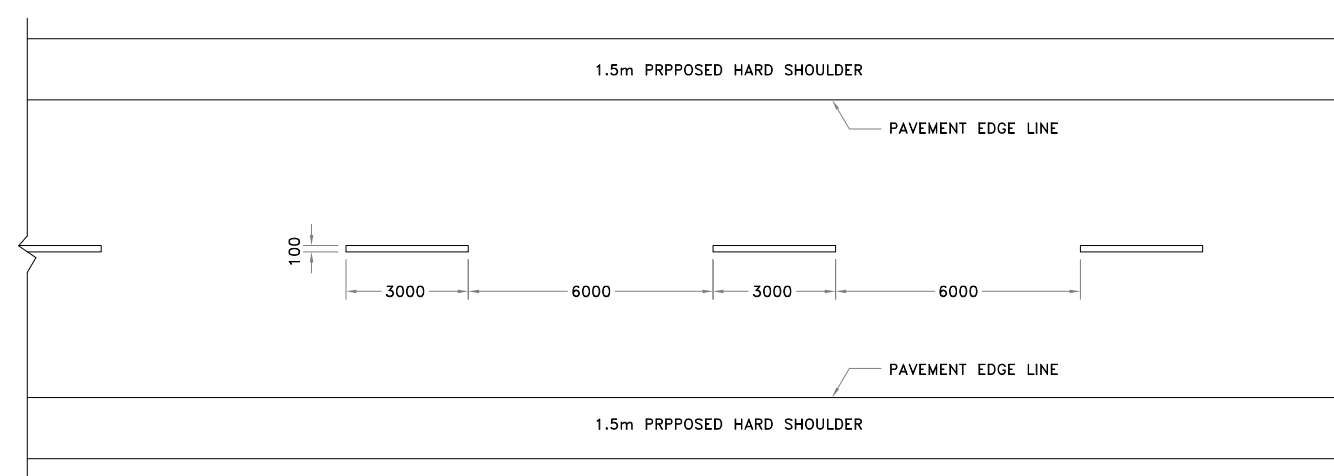


1. THE APPROACH ELEMENT SHALL BE TWISTED TO HORIZONTAL AND SECURED TO THE POSTS, AS SHOWN, WITH THE END SECTION TIP BURIED.
2. PLACE DELINEATOR POST ADJACENT TO THE BEGINNING OF THE APPROACH ELEMENT.
3. THE HEIGHT OF POST NOS. 3,4,5 & 6. IS INDICATIVE ONLY. THIS SHALL BE ADJUSTED TO PRODUCE A STRAIGHT LINE AT THE CENTRE OF RAIL.
4. THE APPROACH END ELEMENT SHALL BE TANGENT TO THE NORMAL GUARD RAIL LINE.
5. FOR POST, RAIL & TRAILING END ELEMENT DETAILS SEE SEPARATE DRAWING.
6. THE POST-RAIL BRACKET SHALL BE 178 MM WIDE AND HAVE A 25 MM OVERHANG ON EACH SIDE OF THE GUARD RAIL.
7. MANUFACTURERS ARE TO VERIFY DIMENSIONS BEFORE INSTALLATION AND MAKE ADJUSTMENTS, IF NECESSARY, WITH APPROVAL OF ENGINEERS.

R2	Dec 2017	Introducing Innovative Pavement			SCALE: N.T.S	CLIENT: Public Works Department Government of Tripura	National Highways & Infrastructure Development Corporation Ltd.	DETAILS OF W-BEAM METAL CRASH BARRIER	CONSULTANT : CETEST Engineering Consultants ISO 9001, 14001 & OHSAS 18001 Certified Company CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.	Dwg. No. CET/2015/3580/NH-208/FDPR/MISC			
R1	June 2017	Package Wise Division with Conventional Pavement								Revision Mkd. - R3		Sheet No. - 02B	
R0	Jan 2017	Total Project Road with Conventional Pavement								Drawn By.	Design By.	Checked By.	Approved By.
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: JULY ,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:-V					
REVISIONS													



DETAILS OF DIAGONAL AND CHEVRON MARINGS

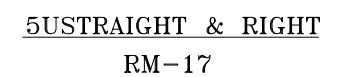
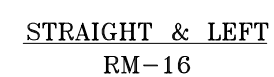
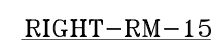
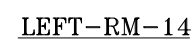


CENTERLINE MARKING FOR A TWO LANE ROAD WITH EARTHEN SHOULDER

NOTE:

1: ALL DIMENSIONS ARE IN MM.
2: ALL DIMENSIONS SHOULD FOLLOW RELEVANT
IRC CODE NO. IRC :35-1997

R2	Dec 2017	Introducing Innovative Pavement			SCALE: N.T.S	CLIENT: Public Works Department Government of Tripura	National Highways & Infrastructure Development Corporation Ltd.	PAVEMENT MARKING	CONSULTANT :  CETEST Engineering Consultants AN ISO 9001, 14001 & OHSAS 18001 Certified Company	CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.	Dwg. No. CET/2015/3580/NH-208/FDPR/MISC			
R1	June 2017	Package Wise Division with Conventional Pavement									Revision Mkd. - R3		Sheet No. - 03A	
R0	Jan 2017	Total Project Road with Conventional Pavement									Drawn By.	Design By.	Checked By.	Approved By
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: JULY ,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(Q)	ROAD NAME: Kailashahar to Teliamura Section of NH-208	Package:-V			M.Acharya	S.Dey	S.Sadhu	B.Koner
REVISIONS														

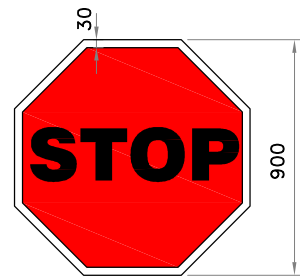


SCALE=1:60



1: ALL DIMENSIONS ARE IN MM.
2: ALL DIMENSIONS SHOULD
IRC CODE NO. IRC :35-1997

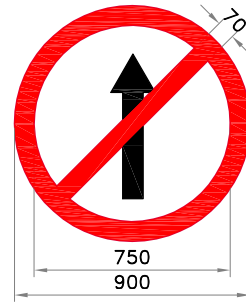
R2	Dec 2017	Introducing Innovative Pavement			SCALE: AS SHOWN	CLIENT: Public Works Department Government of Tripura	National Highways & Infrastructure Development Corporation Ltd.	PAVEMENT MARKING	CONSULTANT :  CETEST Engineering Consultants AutISO 9001, 14001 & OHSAS18001 Certified Company	CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.	Dwg. No. CET/2015/3580/NH-208/FDPR/MISC			
R1	June 2017	Package Wise Division with Conventional Pavement									Revision Mkd. - R3		Sheet No. - 03B	
R0	Jan 2017	Total Project Road with Conventional Pavement			DATE: JULY ,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(Q)	ROAD NAME: Kailashahar to Teliamura Section of NH-208	Package:-V			Drawn By.	Design By.	Checked By.	Approved By
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.							M.Acharya	S.Dey	S.Sadhu	B.Koner
REVISIONS														



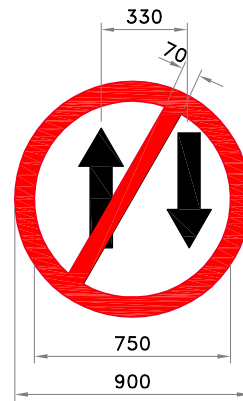
MS - 1
STOP SIGNAL



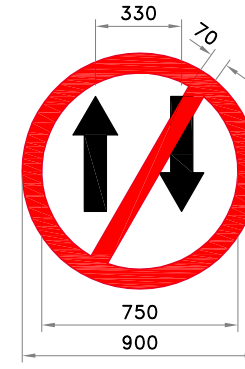
MS - 2
GIVE WAY SIGN



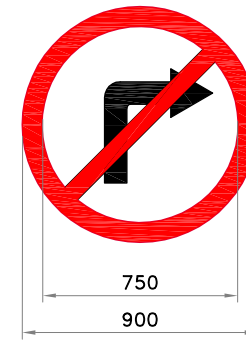
MS - 3
NO ENTRY



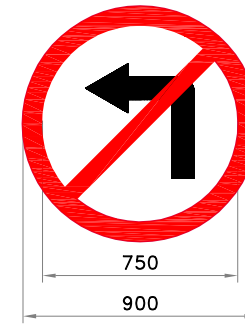
MS - 4
ONE WAY SIGNS



MS - 5



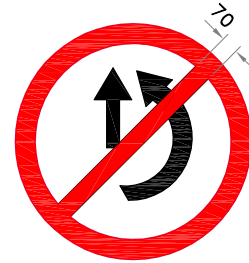
MS - 6
RIGHT TURN PROHIBITED



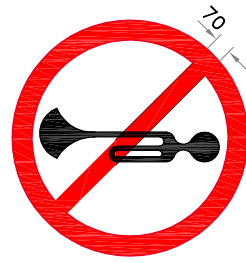
MS - 7
LEFT TURN PROHIBITED



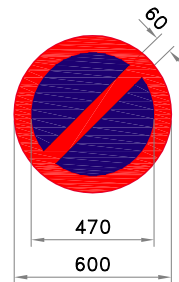
MS - 8
U - TURN PROHIBITED



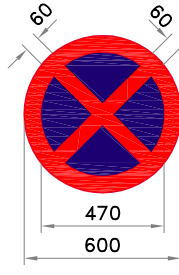
MS - 9
OVERTAKING PROHIBITED



MS - 10
HORN PROHIBITED



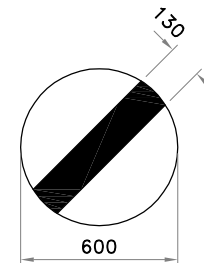
MS - 11
NO PARKING



MS - 12
NO STOPPING
OR STANDING



MS - 13
SPEED LIMIT



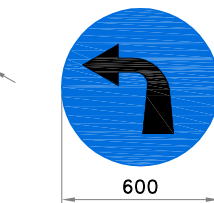
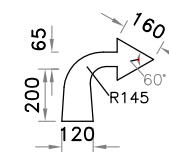
MS - 14
RESTRICTION END



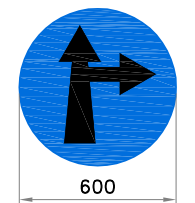
MS - 15
COMPULSORY
KEEP LEFT



MS - 16
COMPULSORY TURN
RIGHT AHEAD



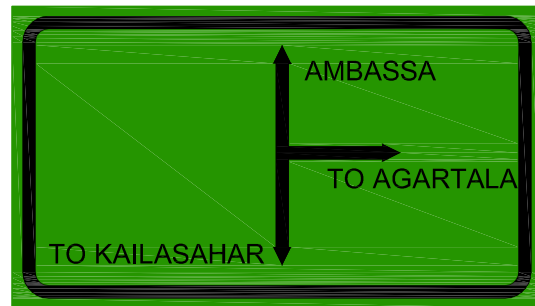
MS - 16
COMPULSORY TURN
LEFT AHEAD



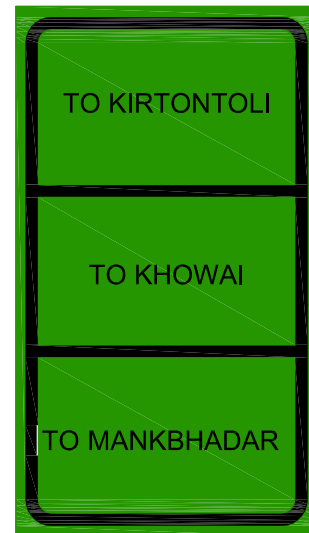
MS - 17
COMPULSORY AHEAD
OR TURN RIGHT



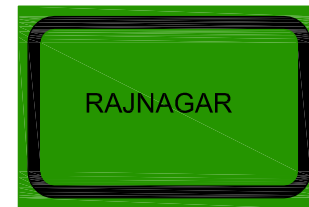
MS - 19
COMPULSORY AHEAD
OR TURN LEFT



IS - 1
ADVANCE DIRECTION SIGN



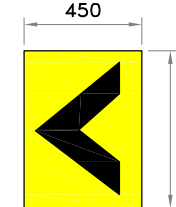
IS - 2
REASSURANCE SIGN



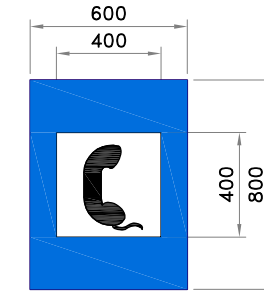
IS - 3
PLACE IDENTIFICATION SIGN



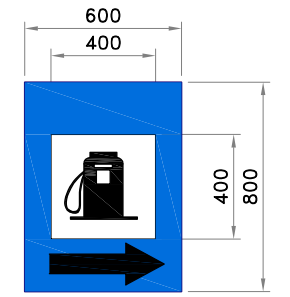
IS - 4
PLACE IDENTIFICATION SIGN



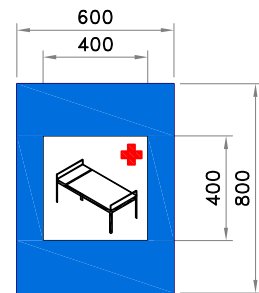
CHEVRON SIGN



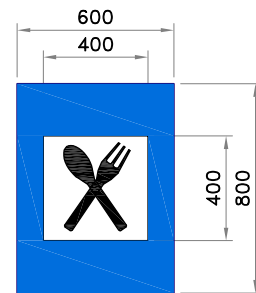
IS - 5
PUBLIC TELEPHONE



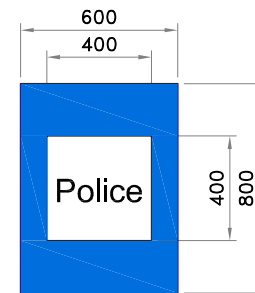
IS - 6
FILLING STATION



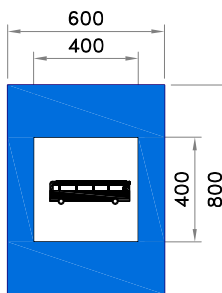
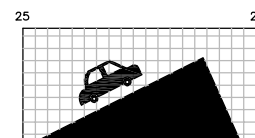
IS - 7
HOSPITAL



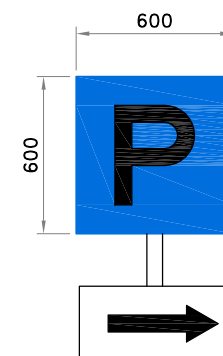
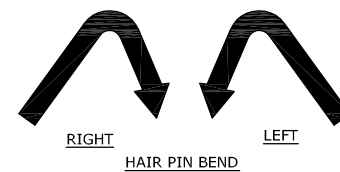
IS - 8
EATING PLACE



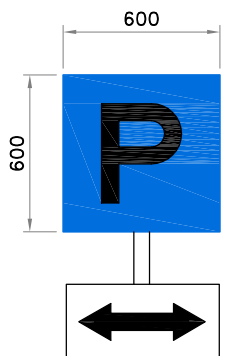
IS - 9
POLICE STATION



IS - 11
BUS STOP



IS - 12
PARKING THIS SIDE

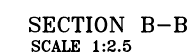
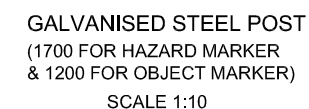
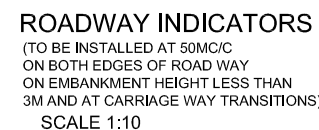
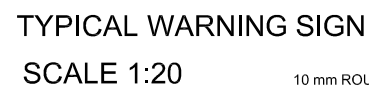


IS - 13
PARKING BOTH SIDE

NOTE:

- ALL DIMENSIONS ARE IN MM UNLESS AND OTHERWISE SPECIFIED.
- FOR DETAILS OF ROAD SIGN REFER IRC: 67-2012.

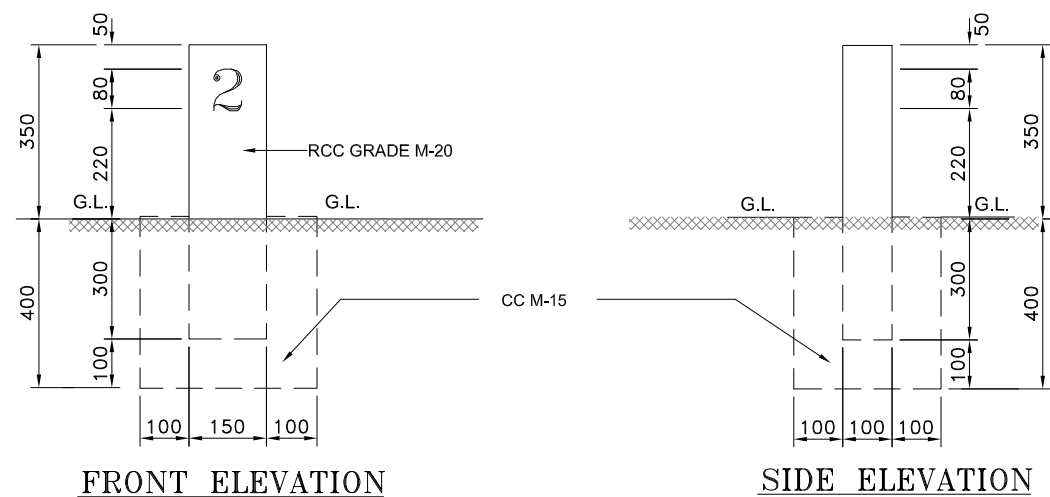
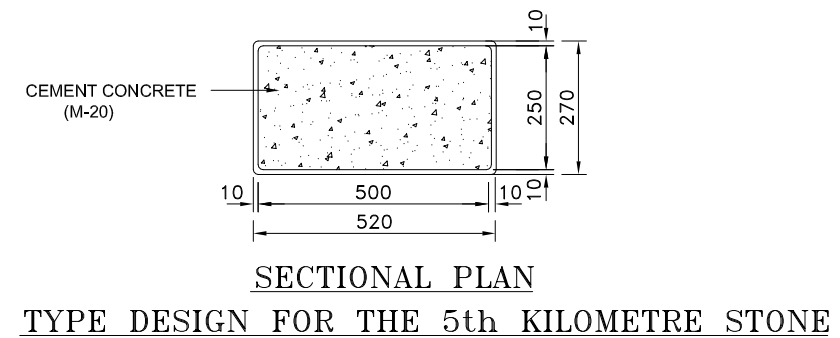
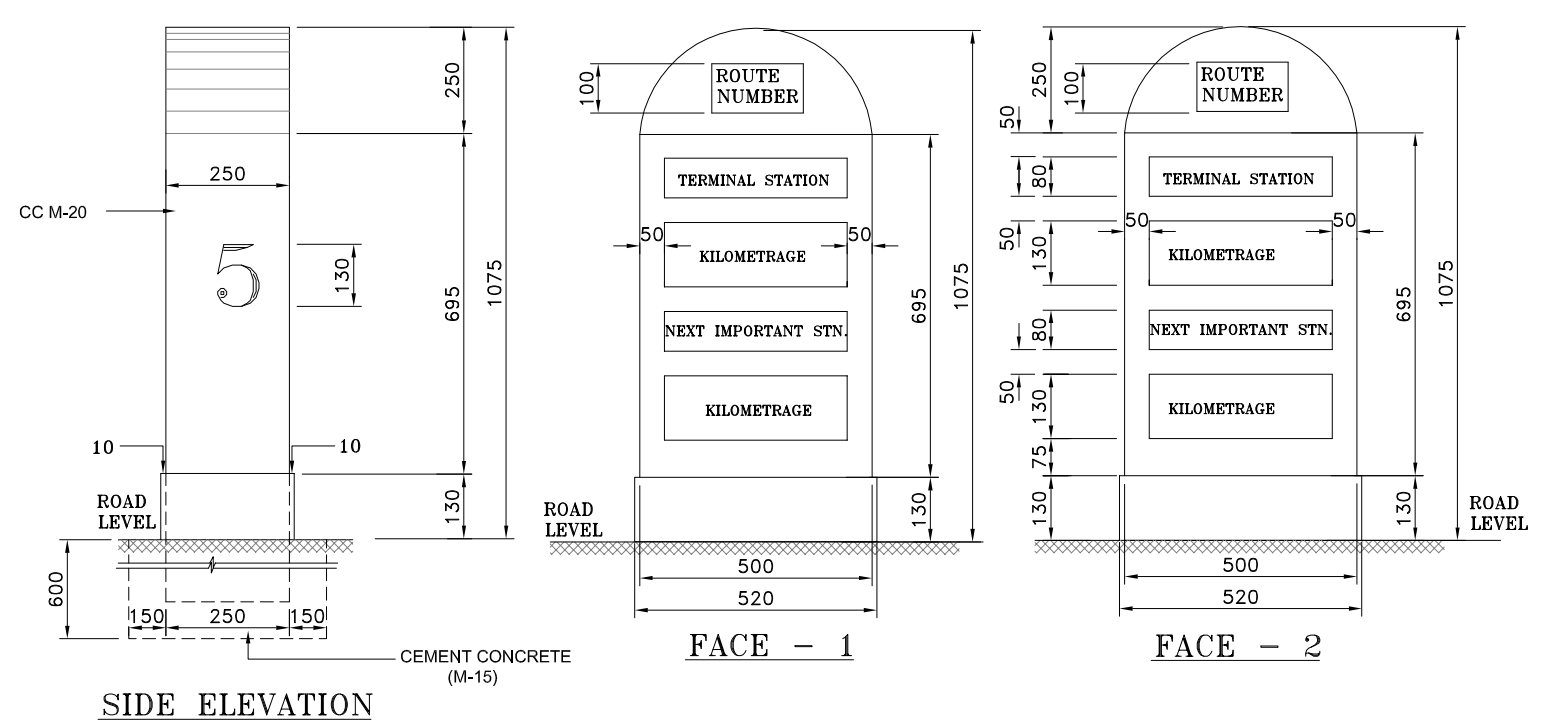
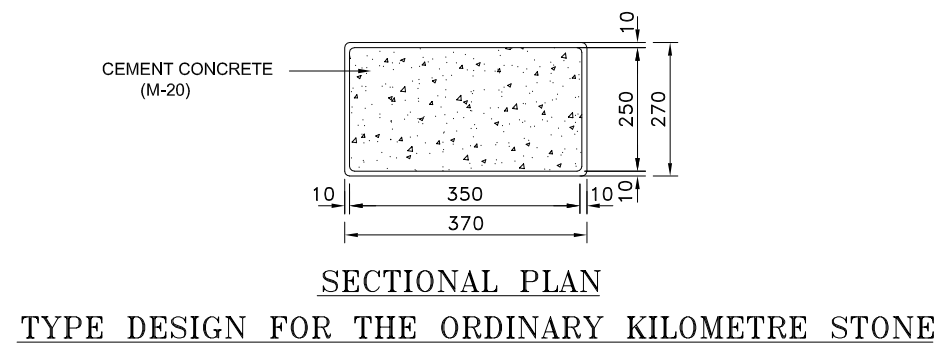
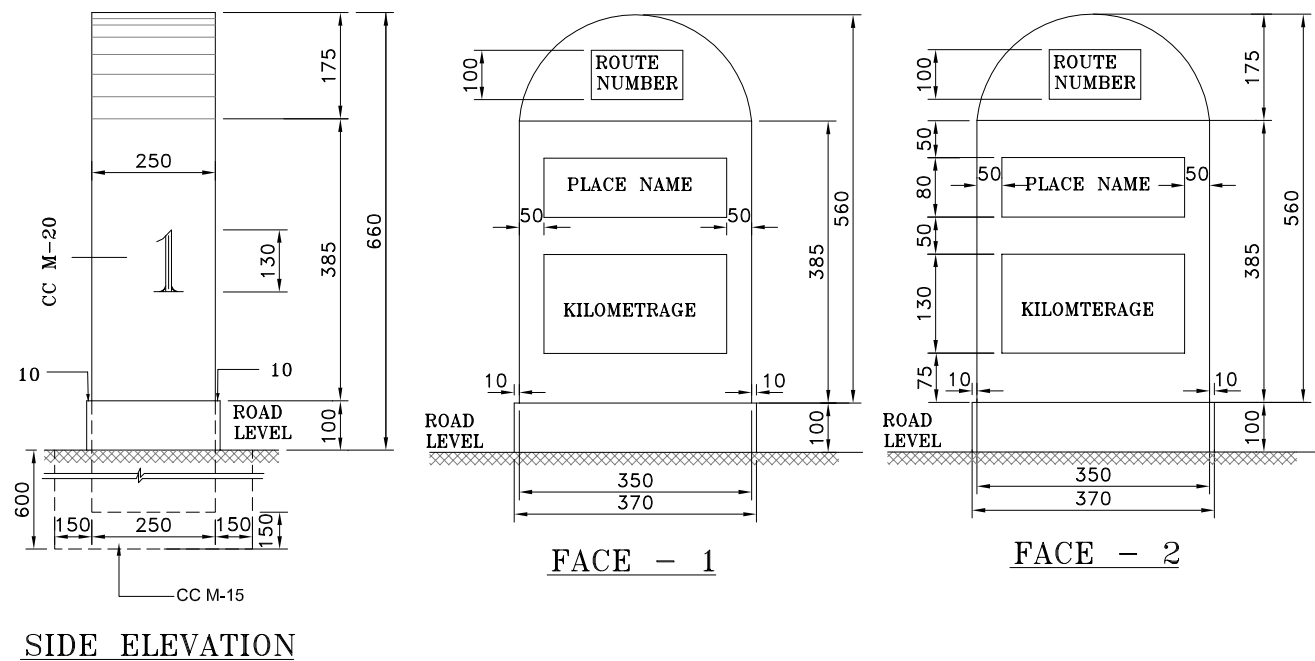
R2	Dec 2017	Introducing Innovative Pavement			SCALE: N.T.S	CLIENT: Public Works Department Government of Tripura	National Highways & Infrastructure Development Corporation Ltd.	TYPICAL DETAILS OF ROAD SIGNS	CONSULTANT : CETEST Engineering Consultants	Dwg. No. CET/2015/3580/NH-208/FDPR/MISC
R1	June 2017	Package Wise Division with Conventional Pavement							CE TESTING COMPANY PVT. LTD.	Revision Mkd. - R3
R0	Jan 2017	Total Project Road with Conventional Pavement							124-A, N.S.C. Bose Road Kolkata - 700092.	Sheet No. - 04A
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: JULY, 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-V		Drawn By.
REVISIONS										Design By.
										Checked By.
										Approved By.
										M.Acharya
										S.Dey
										S.Sadhu
										B.Koner



01. ALL DIMENSIONS ARE IN MM, AND LEVELS IN METERS, UNLESS OTHERWISE SPECIFIED.

02. SIGNS SHOULD CONFORM TO IRC:67 - 2012 TO SECTION 801 OF MORT & H SPECIFICATION FOR ROAD AND BRIDGEWORKS(5TH. REV)

R2	Dec 2017	Introducing Innovative Pavement			SCALE: N.T.S	CLIENT: Public Works Department Government of Tripura	National Highways & Infrastructure Development Corporation Ltd.	TYPICAL DETAILS OF ROAD SIGNS	CONSULTANT :  CE TESTING COMPANY PVT. LTD. An ISO 9001, 14001 & CHSAS 18001 Certified Company 124-A, N.S.C. Bose Road Kolkata - 700092.	Dwg. No.	CET/2015/3580/NH-208/FDPR/MISC		
R1	June 2017	Package Wise Division with Conventional Pavement								Revision Mkd. - R3	Sheet No. - 04C		
R0	Jan 2017	Total Project Road with Conventional Pavement								Drawn By.	Design By.	Checked By.	Approved By
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: JULY ,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:-V			M.Acharya	S.Dey	S.Sadhu	B.Koner
REVISIONS													

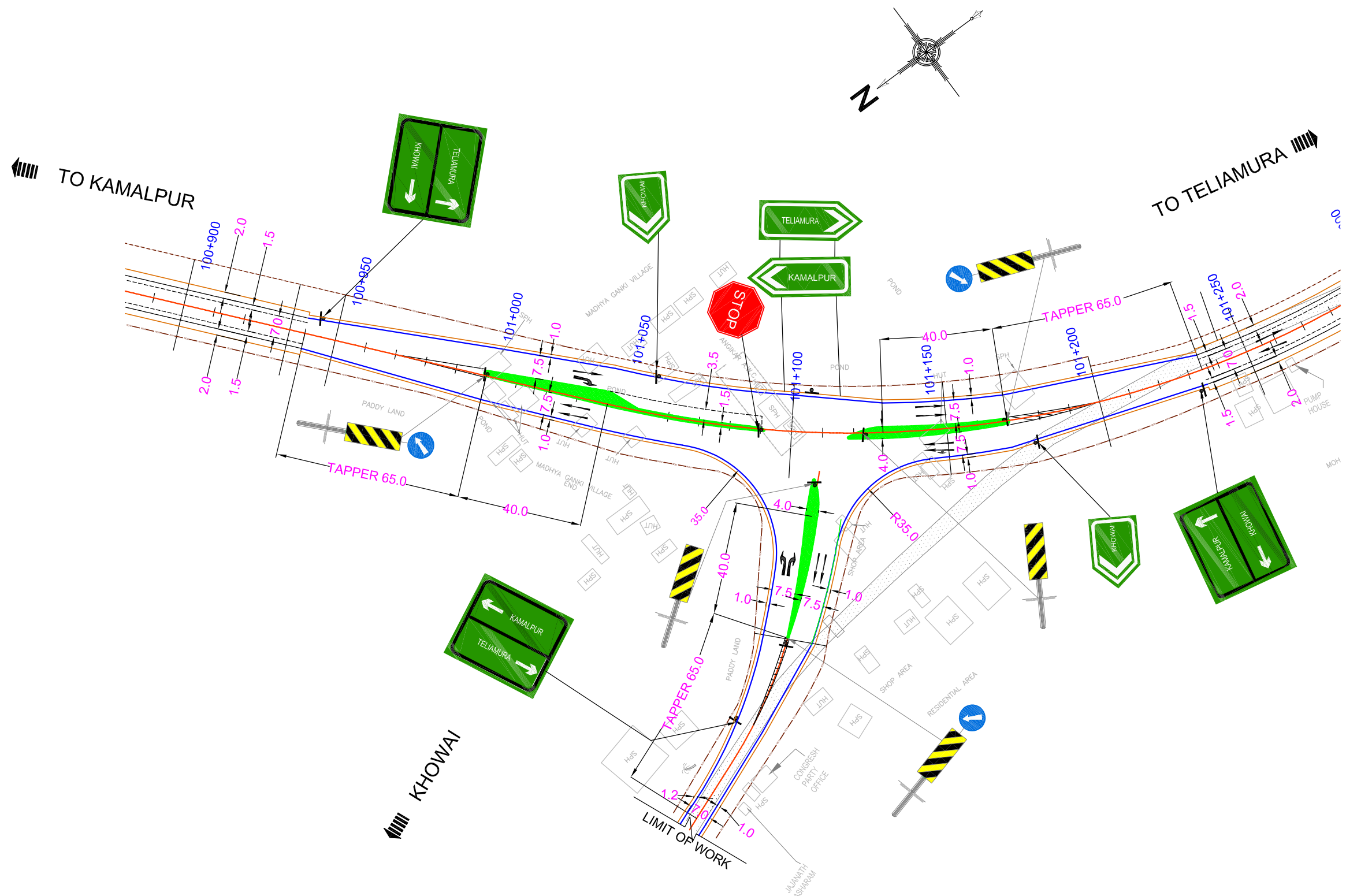


TYPE DESIGN FOR 200 - METRE STONES

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
2. FOR DETAILS OF KILOMETER STONE AND 5th KILOMETER STONE REFER IRC:8-1980
3. FOR DETAILS OF 200M STONE REFER IRC:26-1967.

R2	Dec 2017	Introducing Innovative Pavement			SCALE: N.T.S	CLIENT: Public Works Department Government of Tripura	National Highways & Infrastructure Development Corporation Ltd.	DETAILS OF ROAD FURNITURE	CONSULTANT : CETEST Engineering Consultants	CE TESTING COMPANY PVT. LTD.	Dwg. No. CET/2015/3580/NH-208/FDPR/MISC
R1	June 2017	Package Wise Division with Conventional Pavement								124-A, N.S.C. Bose Road	Revision Mkd. - R3
R0	Jan 2017	Total Project Road with Conventional Pavement								Kolkata - 700092.	Sheet No. - 05
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: JULY ,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:-V			Drawn By.
REVISIONS											Design By.
											Checked By.
											Approved By.
											M.Acharya
											S.Dey
											S.Sadhu
											B.Koner



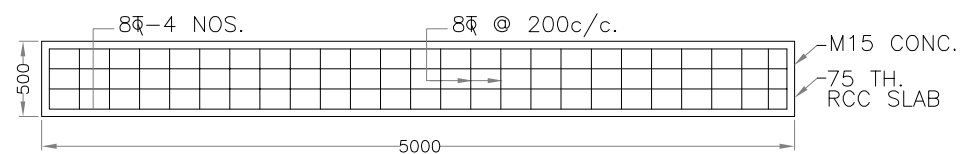
R2	Dec 2017	Introducing Innovative Pavement			SCALE: VER - 1:1000	CLIENT: Public Works Department Government of Tripura	National Highways & Infrastructure Development Corporation Ltd.	MAJOR INTERSECTION AT KM 101+110	CONSULTANT : CETEST Engineering Consultants An ISO 9001, 14001 & OHSAS 18001 Certified Company CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.	Dwg. No. CET/2015/3580/NH-208/FDPR/MJ			
R1	June 2017	Package Wise Division with Conventional Pavement								Revision Mkd. - R3		Sheet No. - 05 of 06	
R0	Jan 2017	Total Project Road with Conventional Pavement			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:-V			Drawn By.	Design By.	Checked By.	Approved By.
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.						M.Acharya	S.Dey	S.Sadhu	B.Koner
REVISIONS													



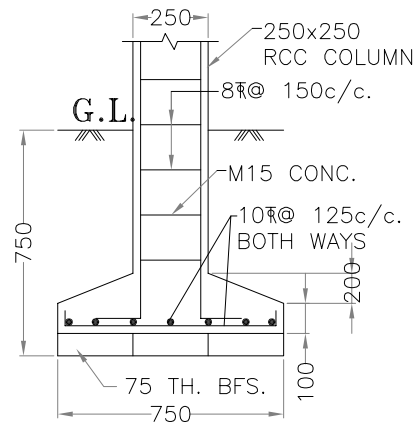
SL.NO	CHAINAGE(KM)	SIDE
7.	71+400	Both
8.	87+485	Both
9.	95+710	Both

1. ALL DIMENSIONS ARE IN Meter, UNLESS OTHERWISE MENTIONED.
2. THIS DRAWING REFER TO IRC SP-73,2015.

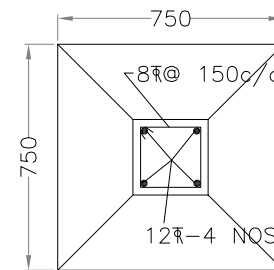
R2	Dec 2017	Introducing Innovative Pavement			SCALE: N.T.S	CLIENT: Public Works Department Government of Tripura	National Highways & Infrastructure Development Corporation Ltd.	DETAILS OF BUS BAY	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.	Dwg. No.	CET/2015/3580/NH-208/FDPR/MISC		
R1	June 2017	Package Wise Division with Conventional Pavement								Revision Mkd. - R3	Sheet No. - 07		
R0	Jan 2017	Total Project Road with Conventional Pavement								Drawn By.	Design By.	Checked By.	Approved By.
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: JULY ,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					
REVISIONS													



SEATING BENCH REINFORCEMENT DETAIL

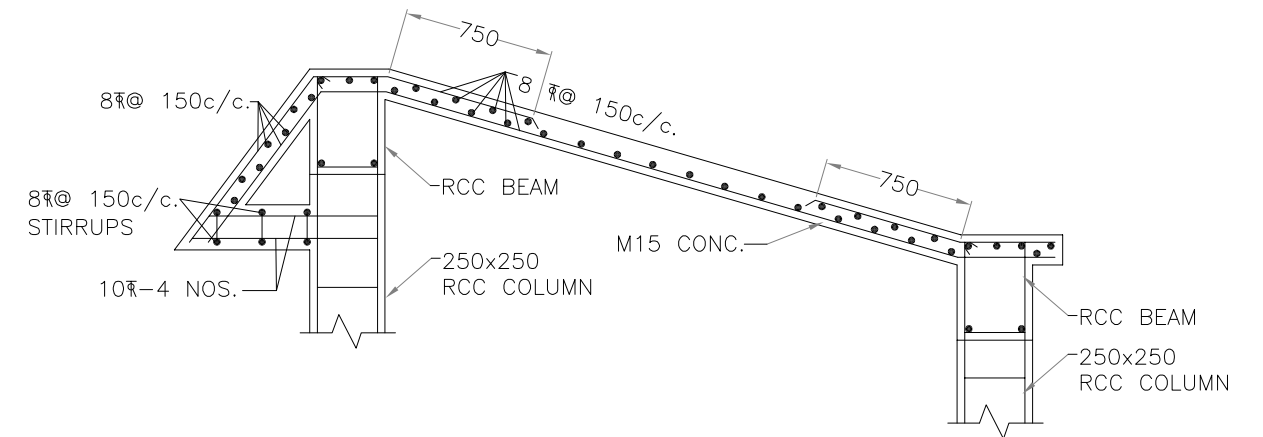


SECTION

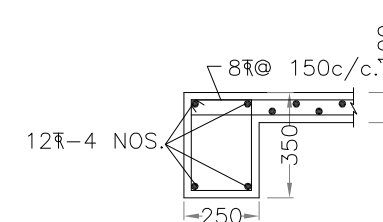


PLAN

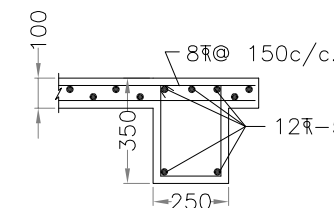
COLUMN FOUNDATION DETAILS



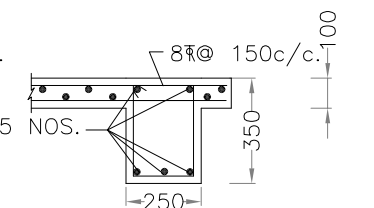
ROOF SLAB REINFORCEMENT DETAIL



2.0M BEAM SECTION

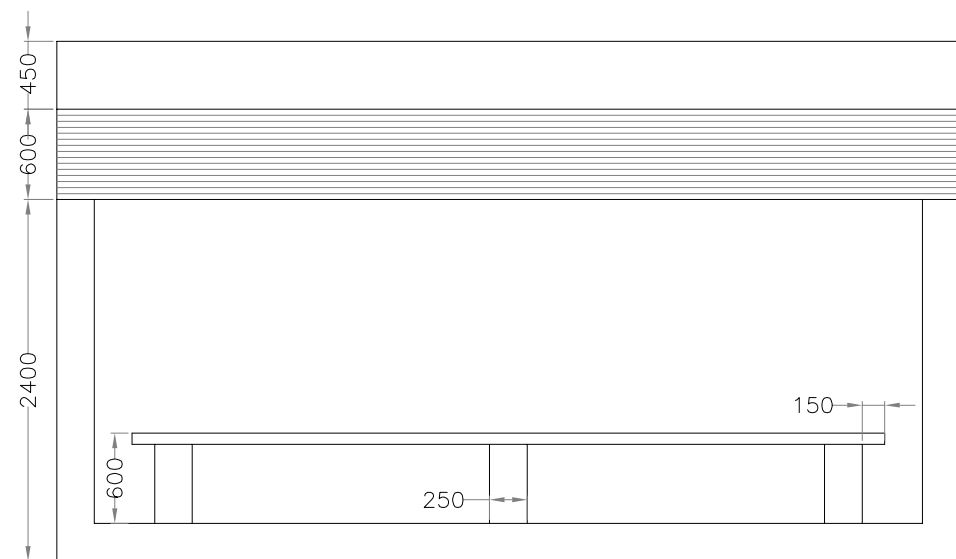


END SECTION

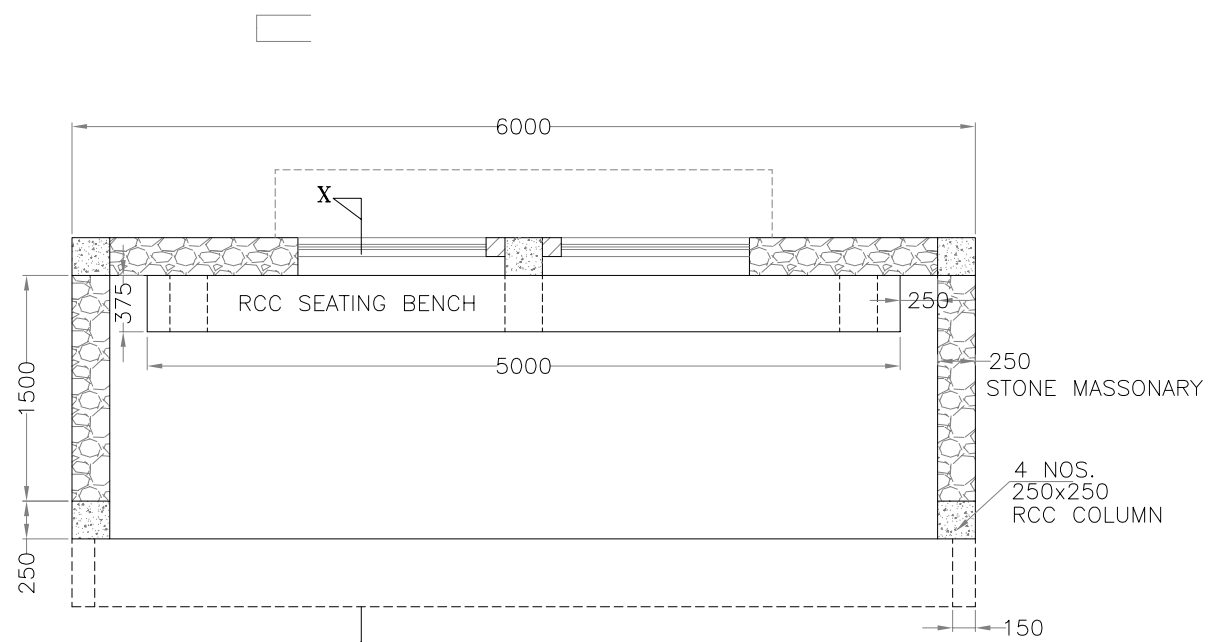


MID SPAN SECTION

3.0M BEAM SECTIONS

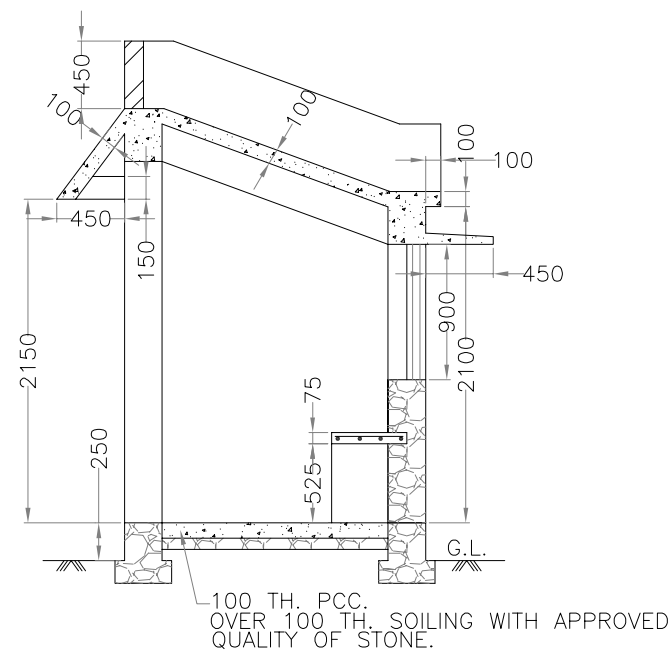


FRONT ELEVATION



PLAN

PASSENGER SHELTER



SECTION X-X

NOTE :

MATERIAL

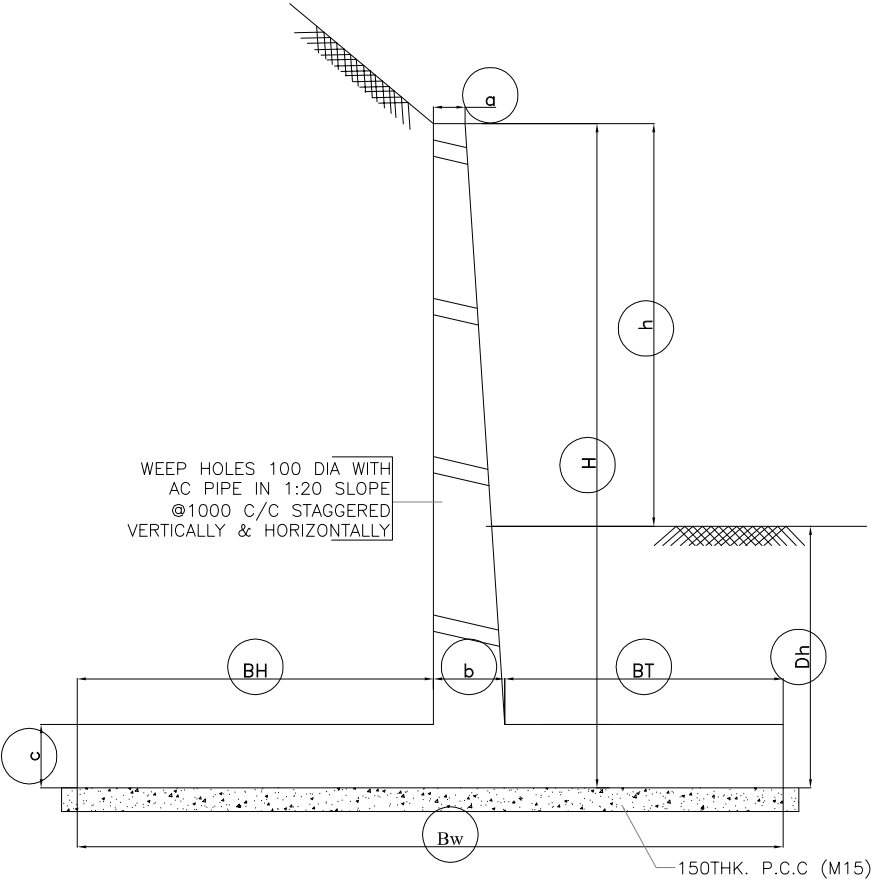
- a) CONCRETE : i) M-20 FOR FOUNDATION, COLUMNS, BEAMS & SLABS.
ii) M-15 OR 1:3:6 FOR LEVELING COURSE (P.C.C.)
- b) STEEL : CONFORMING TO IS:1786
- c) CONCRETE MORTAR : i) 1:3 (1 CEMENT : 3 SAND) FOR STONE MASONRY.
ii) 1:6 (1 CEMENT : 6 SAND) FOR WALL PLASTER.

ALL DIMENSIONS ARE IN MILIMETER.

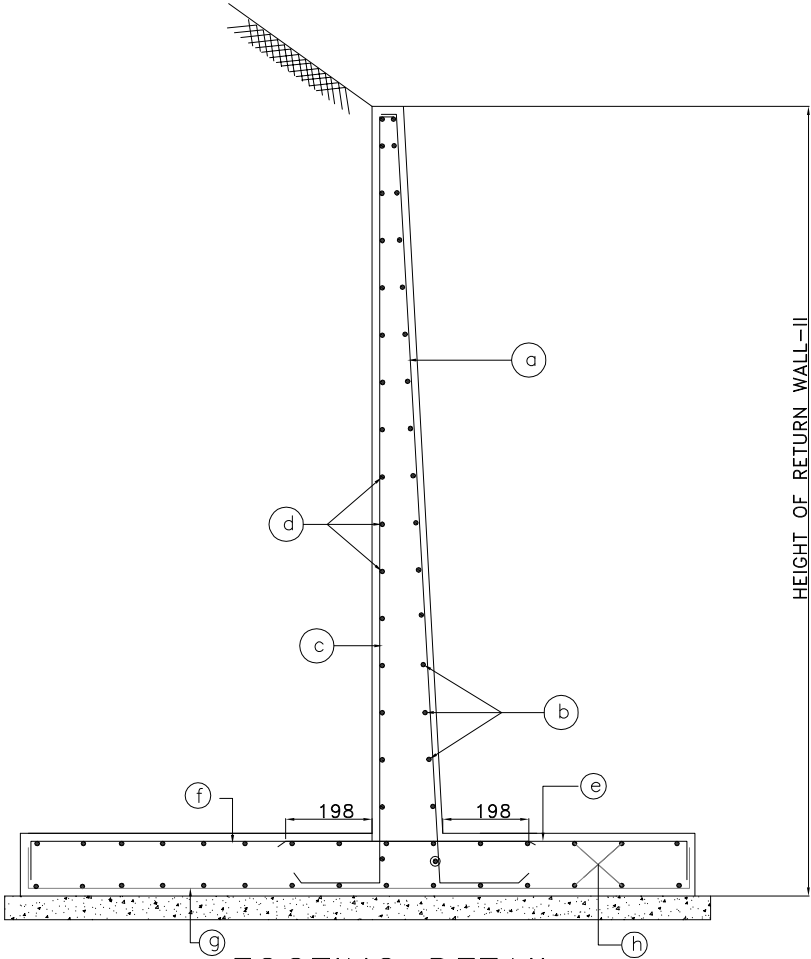
R2	Dec 2017	Introducing Innovative Pavement			SCALE: N.T.S	CLIENT: Public Works Department Government of Tripura	National Highways & Infrastructure Development Corporation Ltd.	PLAN, ELEVATION, SECTION, SLAB, BEAM, & FOUNDATION REINFORCEMENT DETAILS OF TYPICAL PASSENGER SHELTER	CONSULTANT : CETEST Engineering Consultants	Dwg. No. CET/2015/3580/NH-208/FDPR/MISC
R1	June 2017	Package Wise Division with Conventional Pavement							CE TESTING COMPANY PVT. LTD.	Revision Mkd. - R3
R0	Jan 2017	Total Project Road with Conventional Pavement							124-A, N.S.C. Bose Road Kolkata - 700092.	Sheet No. - 08
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: JULY, 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-V		Drawn By. M.Acharya
REVISIONS										Design By. S.Dey
										Checked By. S.Sadhu
										Approved By. B.Koner

RETAINING WALL DESIGN

	Height of Retaining wall (h) (m)	2	3	4	5	
1	Total Height (H) (m)	3	4	5	7	
2	Depth of Embankment (D _h) (m)	1	1	1	2	
3	Base Width (B _w) (m)	2.5	3.3	4.15	5.3	
4	Toe Width (B _T) (m)	0.6	1.1	1.5	1.85	
5	Heel Width (B _H) (m)	1.65	1.85	2.2	2.8	
6	Toe Thickness (m) (i)At Tip (e)	0.25	0.3	0.4	0.65	
7	Heel Thickness (m) (i)At Tip (c)	0.25	0.3	0.4	0.65	
8	Stem Thickness (m) (i)At Top (a)	0.2	0.2	0.2	0.25	
	(ii)At Junction (b)	0.25	0.35	0.45	0.65	
9	R/F - Toe Slab (m)	(i)Top	16 ϕ @ 200mm c/c	16 ϕ @ 150mm c/c	16 ϕ @ 100mm c/c 20	20 ϕ @ 125mm c/c
		(ii)Bottom	12 ϕ @ 200mm c/c	16 ϕ @ 200mm c/c	16 ϕ @ 150mm c/c 16	16 ϕ @ 125mm c/c
		(iii)Distribution	10 ϕ @ 200mm c/c	10 ϕ @ 200mm c/c	10 ϕ @ 200mm c/c 10	10 ϕ @ 150mm c/c
10	R/F - Heel Slab (m)	(i)Top	16 ϕ @ 200mm c/c	16 ϕ @ 150mm c/c	16 ϕ @ 100mm c/c 20	20 ϕ @ 125mm c/c
		(ii)Bottom	12 ϕ @ 200mm c/c	16 ϕ @ 200mm c/c	16 ϕ @ 150mm c/c 16	16 ϕ @ 125mm c/c
		(iii)Distribution	10 ϕ @ 200mm c/c	10 ϕ @ 200mm c/c	10 ϕ @ 200mm c/c 10	10 ϕ @ 150mm c/c
11	R/F - Stem (m)	(i)Earthen side Bottom	16 ϕ @ 150mm c/c	16 ϕ @ 100mm c/c	20 ϕ @ 100mm c/c 25	25 ϕ @ 100mm c/c
		(ii)Earthen side Top	16ϕ @ 150mm c/c	16 ϕ @ 200mm c/c	20 ϕ @ 200mm c/c 25	25 ϕ @ 200mm c/c
		(iii)Curtailment Ht. from bottom of foundation	-	2.3	3.4	4.5
		(iv)Opposite to earthen side	12ϕ @ 150mm c/c	12 ϕ @ 200mm c/c	16 ϕ @ 200mm c/c	20 ϕ @ 200mm c/c
		(v)Distribution	10 ϕ @ 200mm c/c	12 ϕ @ 200mm c/c	12 ϕ @ 125mm c/c	16 ϕ @ 150mm c/c
13	Total concrete volume(For 1m length) (m³)	1.24	2.01	3.16	6.30	
14	Total weight of R/F(For 1m length) (kg)	137.03	228.61	440.59	904.86	
15	Total weight of R/F / Total concrete volume (kg/m³)	110	114	140	144	



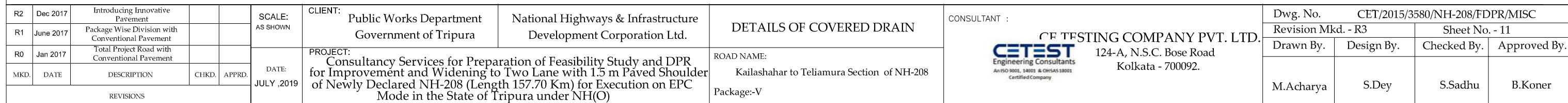
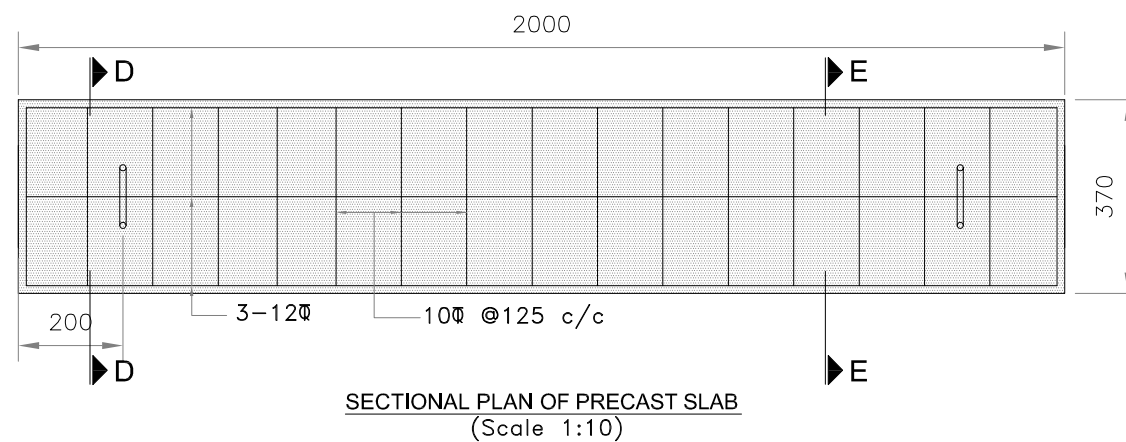
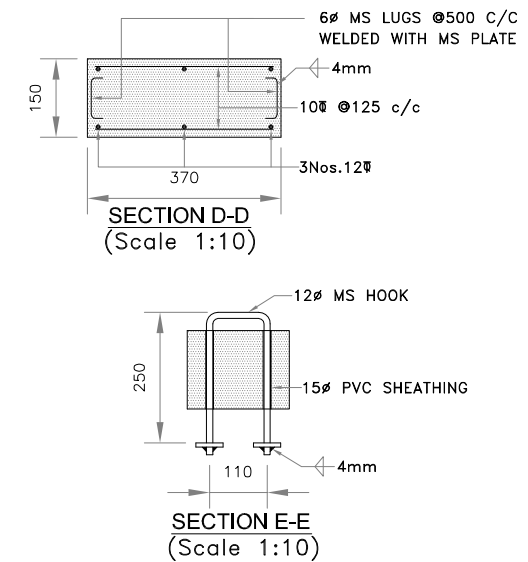
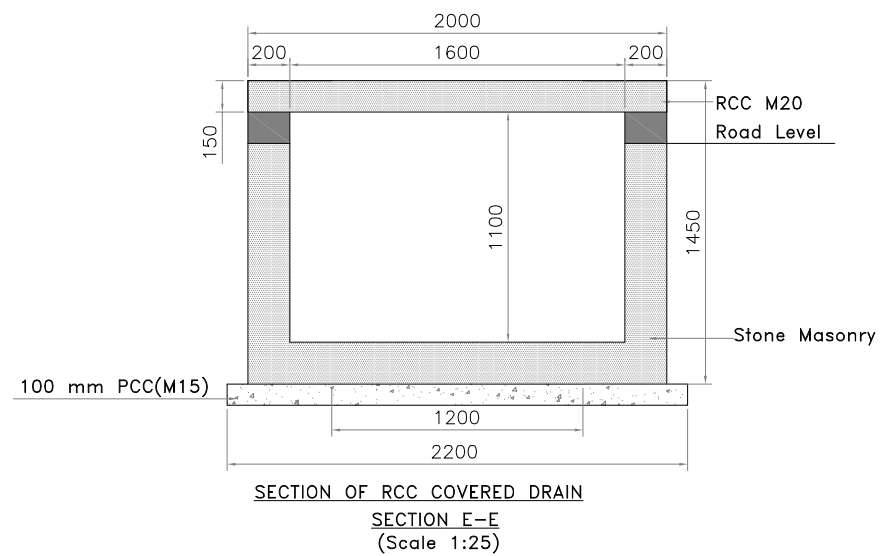
TYPICAL SECTION

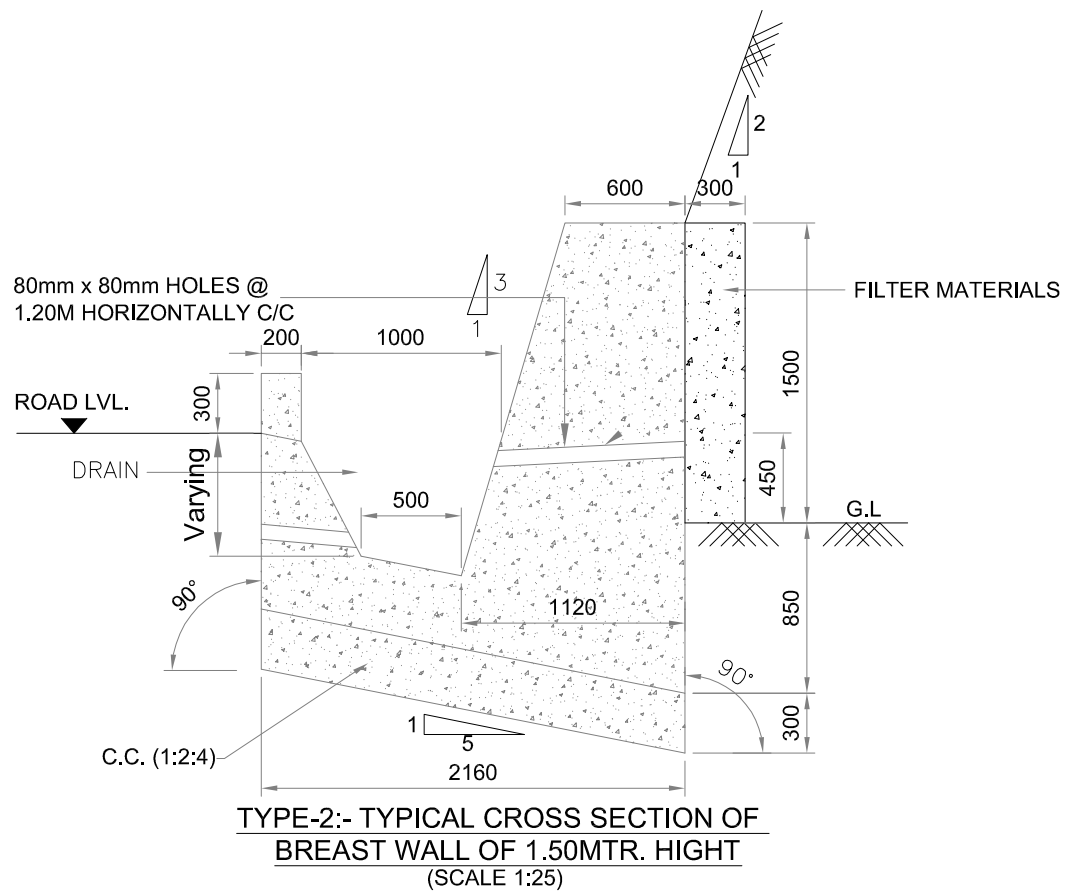
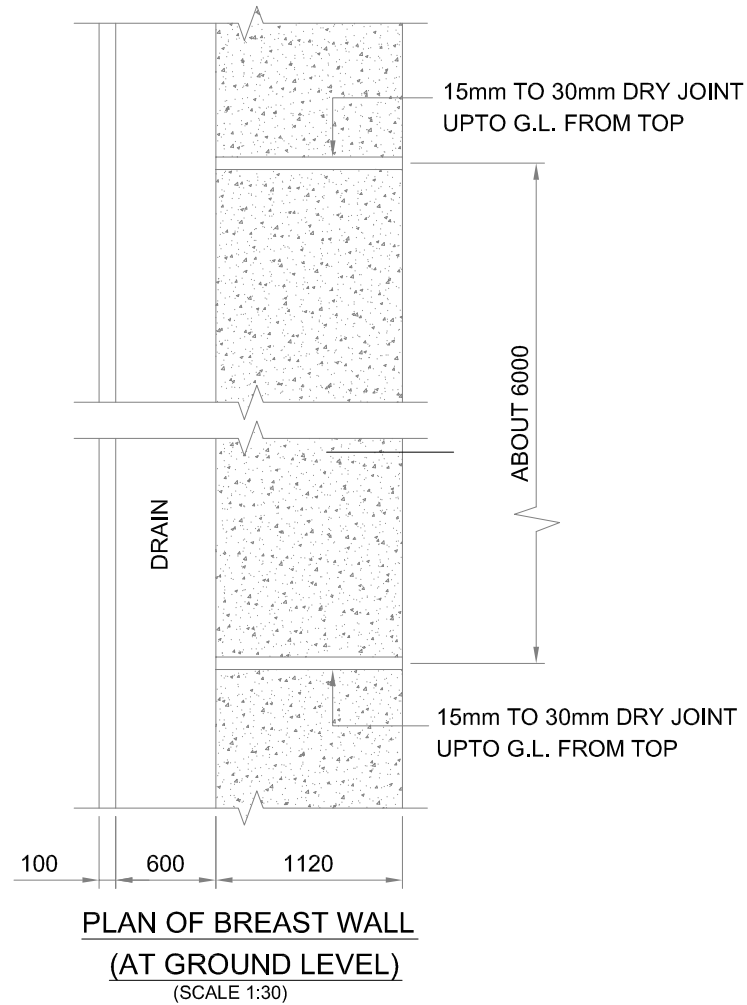
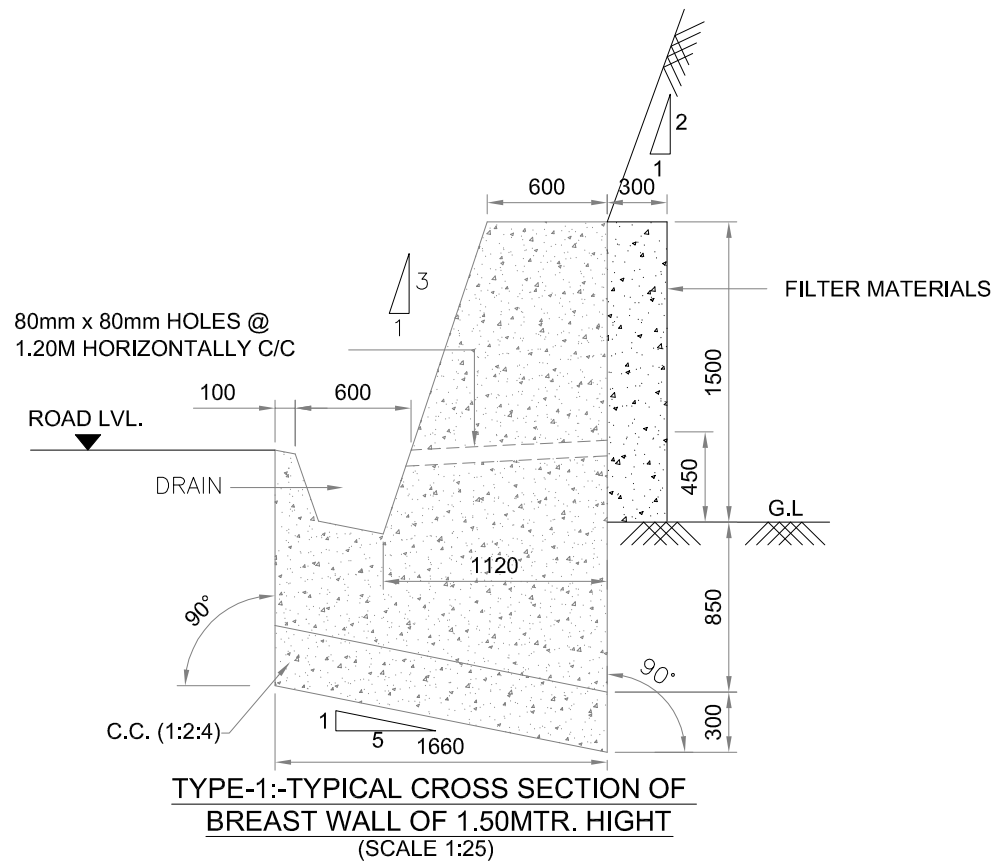


FOOTING DETAIL
TYPICAL REINFORCEMENT DETAIL

- NOTES:—
1. MORTH SPECIFICATIONS FOR ROAD AND BRIDGE WORKS TO BE FOLLOWED FOR CONSTRUCTION
 2. ALL STRUCTURAL CONCRETE : M25
 3. ALL MAT CONCRETE/LEVELLING COURSE : M15
 4. REINFORCING STEEL :TMT BARS OF GRADE Fe—500 CONFORMING TO IS:1786
 5. ALL REINFORCING STEEL SHALL HAVE 40 CLEAN COVER
 6. UNLESS NOTED OTHERWISE

R2	Dec 2017	Introducing Innovative Pavement			SCALE: N.T.S	CLIENT: Public Works Department Government of Tripura	National Highways & Infrastructure Development Corporation Ltd.	RETAINING WALL DETAILS	CONSULTANT : CE TESTING COMPANY PVT. LTD. An ISO 9001, 14001 & OHSAS 18003 Certified Company 124-A, N.S.C. Bose Road Kolkata - 700092.	Dwg. No.	CET/2015/3580/NH-208/FDPR/MISC		
R1	June 2017	Package Wise Division with Conventional Pavement								Revision Mkd. - R3	Sheet No. - 10		
R0	Jan 2017	Total Project Road with Conventional Pavement			DATE: JULY, 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:-V		Drawn By.	Design By.	Checked By.	Approved By.
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.						M.Acharya	S.Dey	S.Sadhu	B.Koner
REVISIONS													





- NOTES :-
1. ALL DIMENSIONS ARE IN mm, UNLESS NOTED OTHERWISE.
 2. ON THE RETAINING WALL SIDE THERE SHALL BE NO FOOTPATH AND DRAIN.
 3. FOR OTHER DETAILS REFER IRC:SP:48 HILL ROAD MANUAL.

R2	Dec 2017	Introducing Innovative Pavement			SCALE: AS SHOWN	CLIENT: Public Works Department Government of Tripura	National Highways & Infrastructure Development Corporation Ltd.	DETAILS OF BREAST WALL	CONSULTANT : CETEST Engineering Consultants 124-A, N.S.C. Bose Road Kolkata - 700092.	Dwg. No. CET/2015/3580/NH-208/FDPR/MISC
R1	June 2017	Package Wise Division with Conventional Pavement								Revision Mkd. - R3
R0	Jan 2017	Total Project Road with Conventional Pavement								Sheet No. - 13
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: JULY, 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:-V		Drawn By. M.Acharya
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