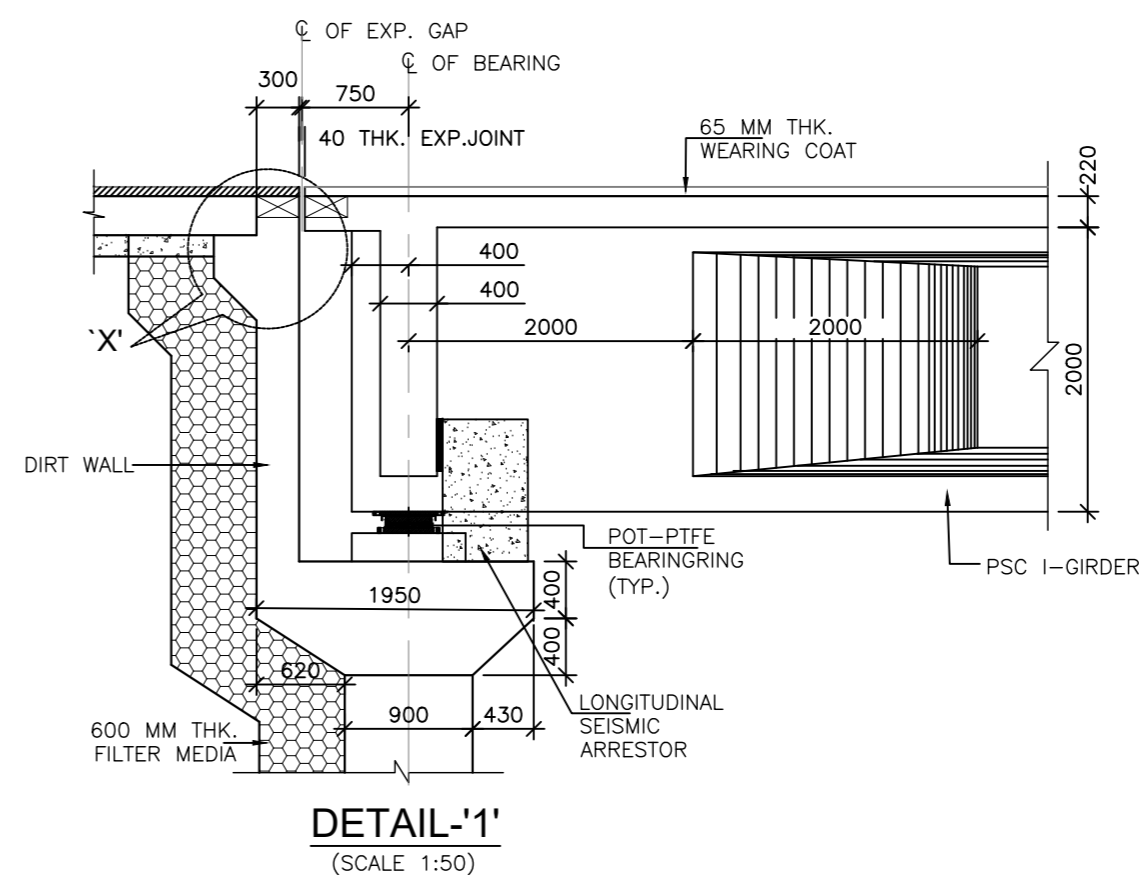

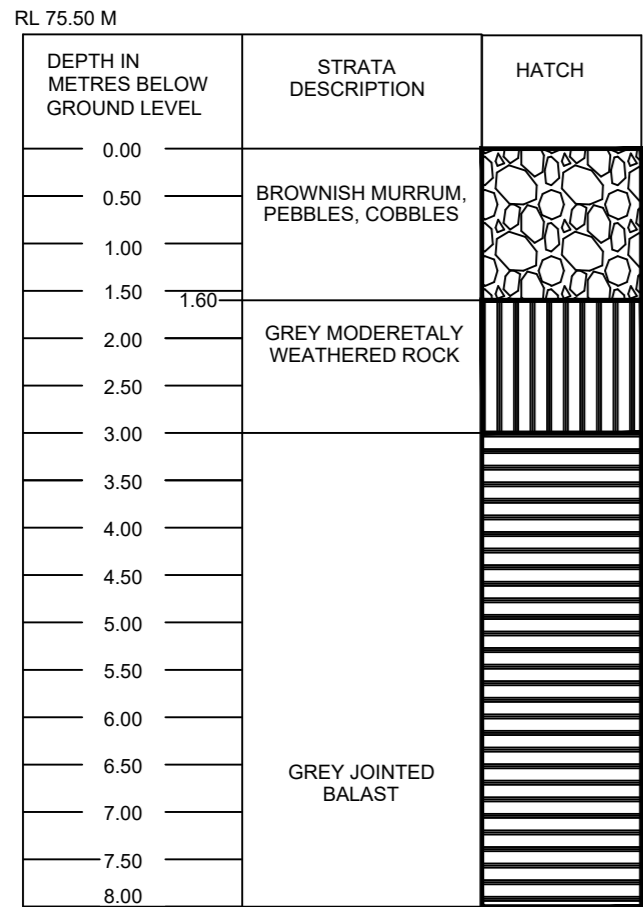
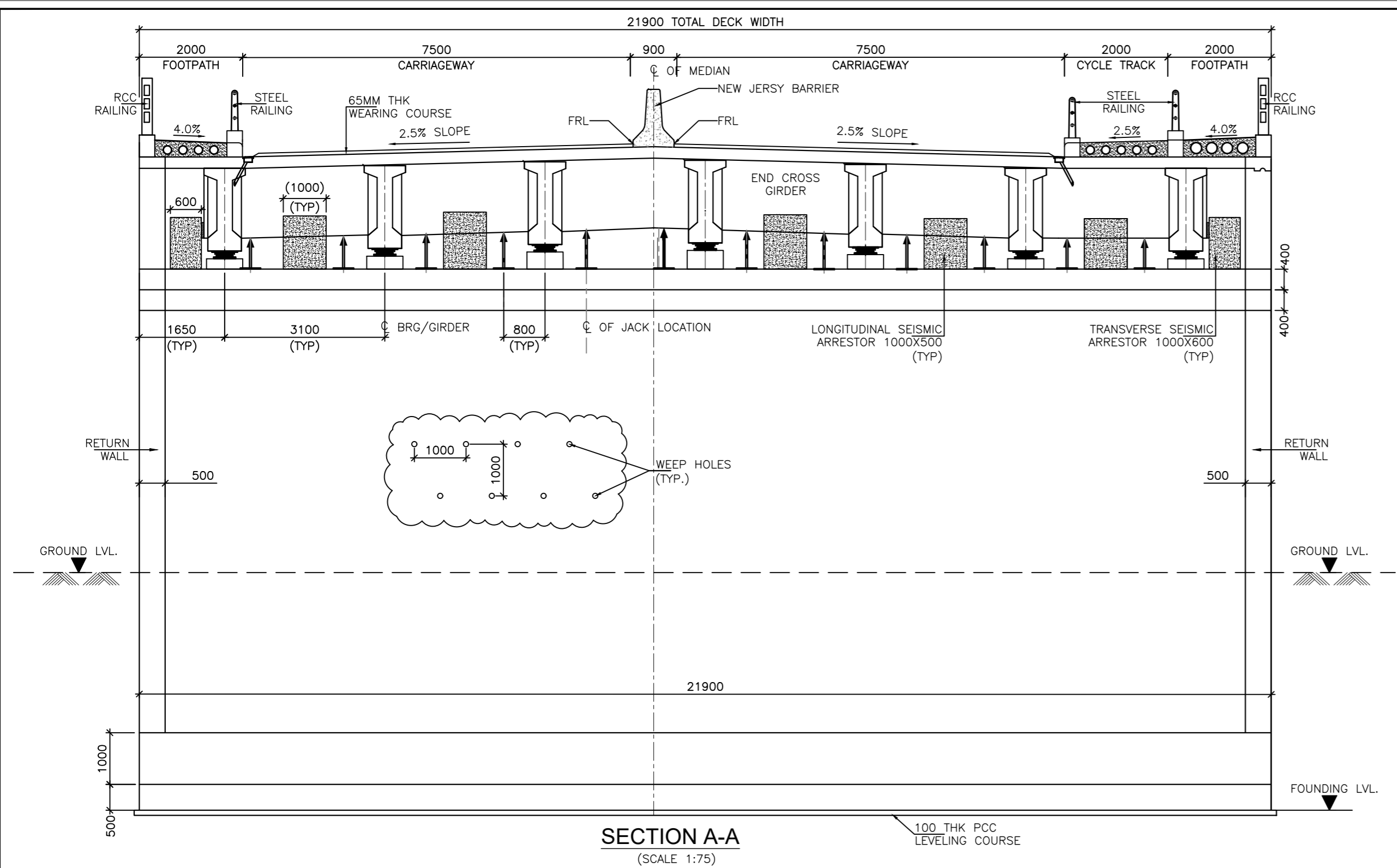
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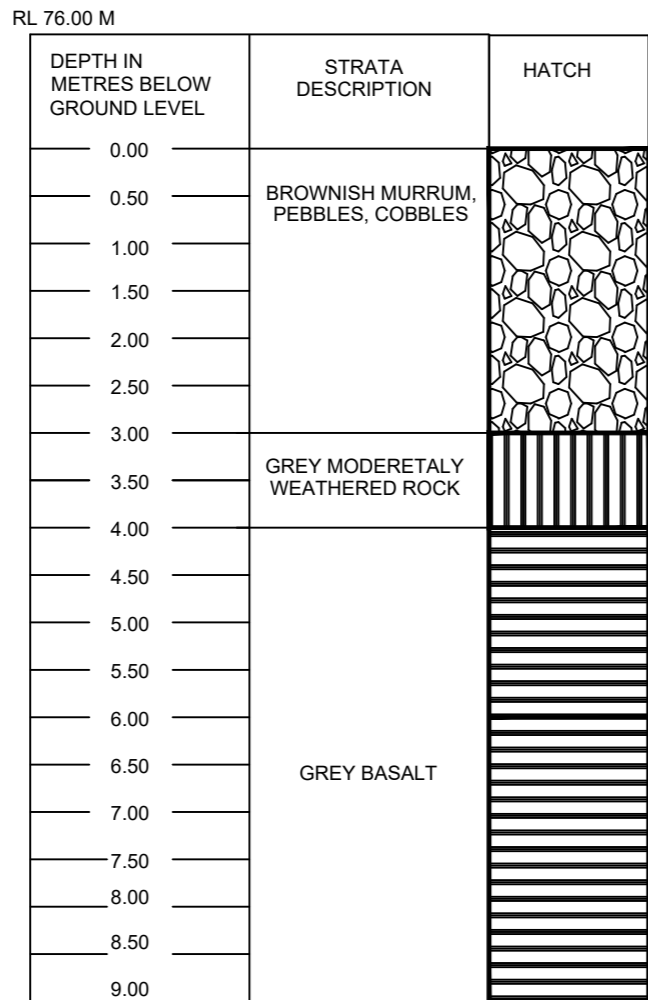
BH-1	X = 318152.000	Y = 2032908.000
BH-2	X = 318136.000	Y = 2032909.000



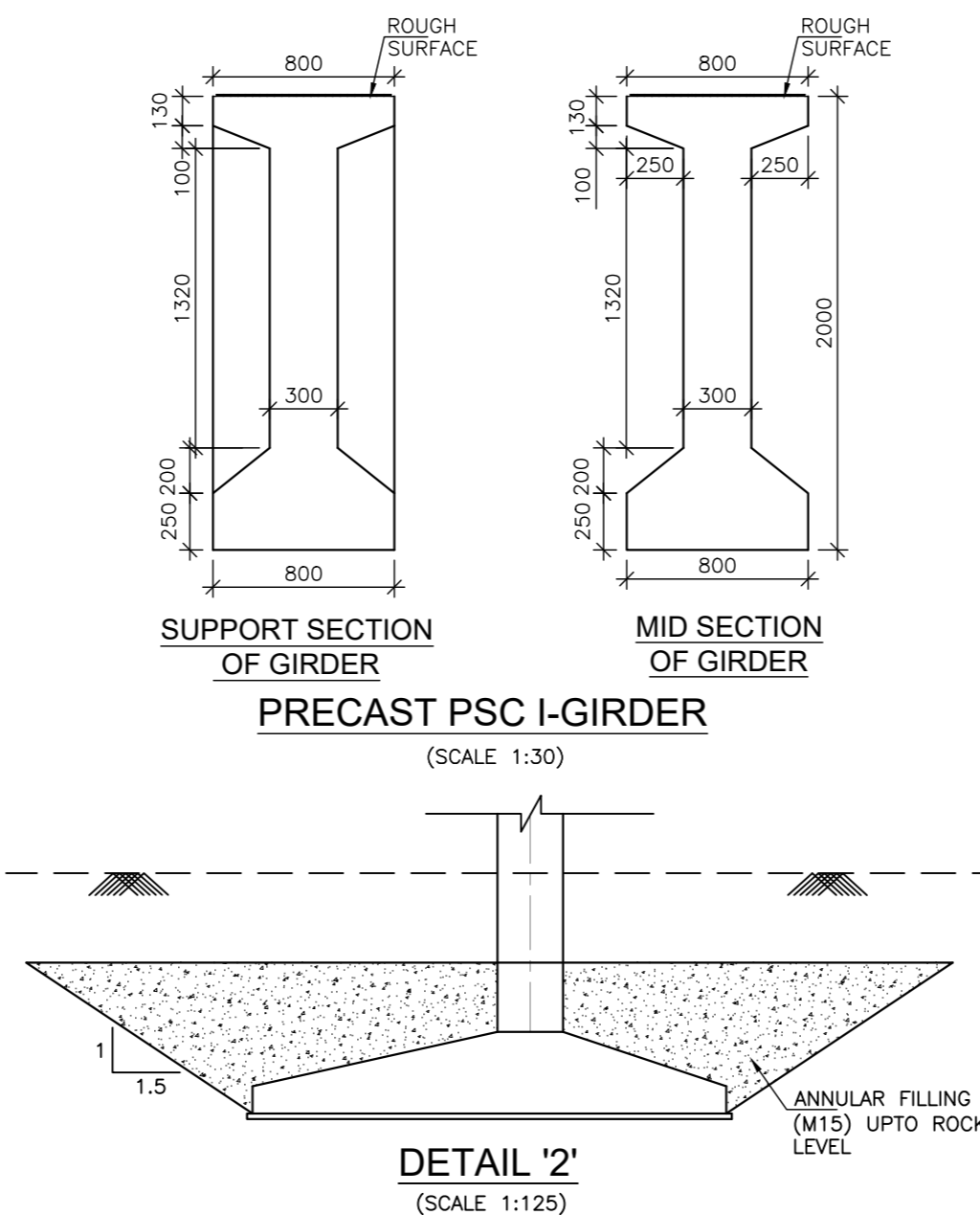
 AURIC <small>ARCHITECTURAL URBAN & REGIONAL CONSULTANTS</small>	CLIENT MAHARASHTRA INDUSTRIAL TOWNSHIP LTD (MITL)	
PROJECT DESIGN, CONSTRUCTION, TESTING, COMMISSIONING AND OPERATION & MAINTENANCE OF INFRASTRUCTURE WORKS AT DIGHI PORT INDUSTRIAL AREA (DPIA)- PHASE 1 UNDER DELHI MUMBAI INDUSTRIAL CORRIDOR (DMIC) ON EPC BASIS		
TITLE GENERAL ARRANGEMENT DRAWING OF MINOR BRIDGE AT CH. 0+044 (BR-7/ROAD NO. CR-5)		
PROJECT CODE: DI1628	STATUS: ISSUED FOR TENDER	DATE: 18.12.2024
SHEET NO. (S1.1 OF 2)	SCALE: NTS	DWG. SIZE: A2
DRAWING NO.:		REV. NO.: R0



BH-01



BH-02



NOTES:-

- ALL DIMENSIONS ARE IN MILLIMETERS, LEVELS ARE IN METERS UNLESS OTHERWISE MENTIONED.
- NO DIMENSION SHALL BE MEASURED FROM THE DRAWINGS. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
- LOCATION OF THE STRUCTURE IS THE CHAINAGE AT THE CENTER LINE OF THE PROPOSED STRUCTURE.
- THE REINFORCEMENT SHALL BE HYSD. BARS OF (GRADE DESIGNATION Fe 500D) CONFORMING TO IS 1786-2008.
- STRUCTURE IS DESIGN FOR FOLLOWING VEHICULAR LOADS:
 - CLASS-A, ONE, TWO LANE WITH FOOTPATH + CYCLE TRACK.
 - ONE LANE OF CLASS 70R + FOOTPATH +CYCLE TRACK.
- STRIP SEAL TYPE EXPANSION JOINT SHALL BE PROVIDED OVER FULL WIDTH OF DECK.
- CONCRETE SHALL BE DESIGN MIX WITH A MINIMUM 28 DAYS CHARACTERISTIC CUBE STRENGTH FOR DIFFERENT ELEMENTS AS FOLLOWS:
 - PRECAST PSC I-GIRDER - M45
 - RCC SLAB & DIAPHRAGM - M40
 - RCC SUBSTRUCTURE & FOUNDATION - M35
 - CRASH BARRIER - M40
 - PCC LEVELING COURSE - M15
 - APPROACH SLAB - M35
 - PEDESTAL - M40
- CLEAR COVER TO OUTER STEEL SHALL BE AS FOLLOWS:-
 - SUPERSTRUCTURE - 45MM
 - FOUNDATION - 75MMSUBSTRUCTURE ABUTMENT:-
 - EARTH FACE - 75MM
 - NON EARTH FACE - 50MMRETURN WALL:-
 - EARTH FACE - 75MM
 - NON EARTH FACE - 45MM
 - CRASH BARRIER - 45MM
- CONSTRUCTION METHODOLOGY FOR SUPERSTRUCTURE SHALL BE AS UNDER:-
 - COMPLETION OF CASTING GIRDER.
 - ERECTION OF PRECAST GIRDER IN POSITION RESTING ON BEARING.
 - ERECTION OF STAGING AND SHUTTERING SUPPORTED FROM LAUNCHED GIRDER CASTING OF DECK SLAB AND CROSS DIAPHRAGM.
 - LAYING OF SIDL AFTER 30 DAYS OF CASTING OF DECK SLAB.
- BITUMINOUS CONCRETE 40mm THICK OVERLAID WITH 25mm THICK MASTIC ASPHALT SHALL BE PROVIDED AS PER SECTION 2700 OF MORTH SPECIFICATIONS.
- MINIMUM REQUIRED SOIL BEARING CAPACITY AND SBC AS PER GEOTECHNICAL REPORT AT FOUNDATION LEVEL ARE AS BELOW:-

Sr No.	LOCATION	REQUIRED SBC(t/m²)	SBC AS PER GEOTECHNICAL(t/m²)
1	ABUTMENT A1	30	50
2	ABUTMENT A2	30	50

- THE REQUIRED SBC SHALL BE ENSURE AT SITE BEFORE EXECUTION USING PLATE LOAD TEST OR CONE PENETRATION (CPT) TEST.
- THE DESIGN AND DETAILED IS CARRIED OUT WITH FOLLOWING ASSUMPTION AS PER CLAUSE 4.2 OF IRC 112-2020.
 - EXECUTION WILL BE CARRIED OUT BY PERSONAL HAVING APPROPRIATE QUALIFICATION, SKILL AND EXPERIENCE.
 - ADEQUATE SUPERVISION AND QUALITY CONTROL WILL BE PROVIDED DURING ALL STAGES OF CONSTRUCTION.
 - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT HIGHWAY DRAWING. ALL THE LEVEL, CHAINAGE, CROSS SLOPE SKEW ANGLE, SHALL BE VERIFIED FORM RELEVANT HIGHWAY DRAWING BEFORE EXECUTION.
 - EXPOSURE CONDITION IS SEVERE.
 - LAYING, COMPACTION AND EXTENT OF BACK FILL BEHIND SIDE WALL SHALL CONFIRM TO SPECIFICATION IN APPENDIX : 6 OF IRC : 78-2014.
 - THIS STRUCTURE LIES IN SEISMIC ZONE IV.
 - BACK FILLING BEHIND WALLS/ABUTMENT SHALL CONSISTS OF SELECTED EARTH CONFORMING TO APPENDIX 6 OF IRC:78-2017 HAVING PROPERTIES $C=0$, $\phi \geq 30^\circ$, $\delta = 20^\circ$, $\gamma_d = 2.0 \text{ t/m}^3$
 - 600MM THICK FILTER MEDIA SHALL BE PROVIDED BEHIND SOLID ABUTMENT WALLS AND RETURN/RETAINING WALL.
 - ALL SOLID WALLS OF PCC/RCC/MASONRY TYPE, RETAINING THE EARTH SHALL HAVE WEEP HOLES STARTING 150MM ABOVE THE GROUND LEVEL AND SPACED 1000MM HORIZONTALLY AND VERTICALLY IN STAGGERED MANNER.
 - STRUCTURE SHOWN IN GAD ARE BASED ON PRELIMINARY DESIGN AND SAME MAY CHANGE DURING DETAIL DESIGN.
 - FOR DETAIL OF APPROACH SLAB, DRAINAGE SYSTEM, CRASH BARRIER, RETAINING WALL ETC. REFER SEPARATE DRAWING.

HYDROLOGICAL DETAILS:-


HFL	76.499 m
DISCHARGE	75.477 CUMecs
DESIGN VELOCITY	2.23 M/s
LBL	75.00 M
SCOUR LEVEL ABUTMENT	ROCK LEVEL

LEGEND:-

FX	-	FIXED
FR	-	FREE
BRG	-	BEARING
TYP	-	TYPICAL
LVL	-	LEVEL

- NOTE
- ALL DIMENSIONS ARE TO BE READ NOT TO BE MEASURED.
 - ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE NOTED.

FOR TENDER

CLIENT	<div><div>MAHARASHTRA INDUSTRIAL TOWNSHIP LTD (MITL)</div></div>		
PROJECT	DESIGN, CONSTRUCTION, TESTING, COMMISSIONING AND OPERATION & MAINTENANCE OF INFRASTRUCTURE WORKS AT DIGHI PORT INDUSTRIAL AREA (DPIA)- PHASE 1 UNDER DELHI MUMBAI INDUSTRIAL CORRIDOR (DMIC) ON EPC BASIS		
TITLE	GENERAL ARRANGEMENT DRAWING OF MINOR BRIDGE AT CH. 0+044 (BR-7 ROAD NO. CR-5)		
PROJECT CODE: D11628	STATUS: ISSUED FOR TENDER	DATE: 18.12.2024	
SHEET NO. (84 2 OF 2)	SCALE: NTS	DWG SIZE: A2	REV NO: R0
DRAWING NO:	MITL-DPIA-PKG1-RD-88		