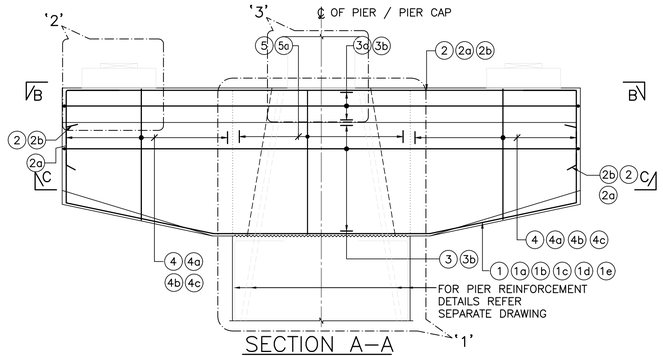
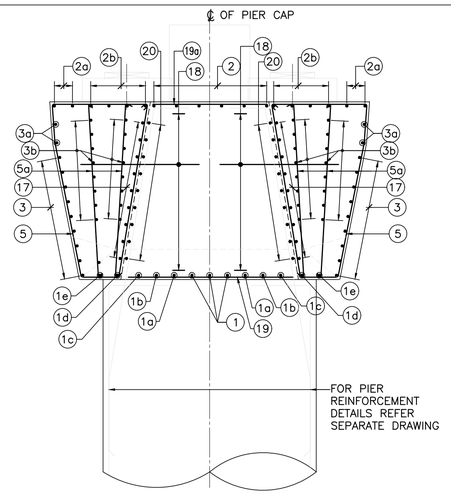


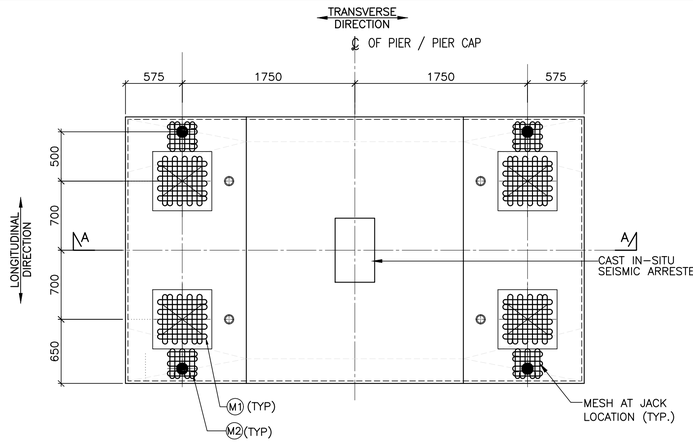
SECTION A–A

(PEDESTAL & ARRESTER REINF. NOT SHOWN FOR CLARITY)
(SCALE 1:30)



SECTION D–D

(SCALE 1:25)



PLAN AT PIER CAP FOR SHOWING MESH REINFORCEMENT ONLY

(SCALE 1:30)

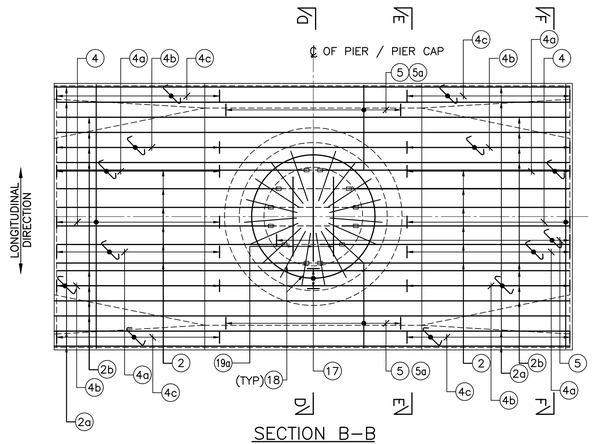
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. DIMENSIONS SHALL NOT BE SCALED FROM THE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. MATERIAL:
   i) CONCRETE
      a) PIER CAP : M50
      b) CAST–IN–SITU STITCH : M50
      c) PEDESTAL : M50
      d) SEISMIC ARRESTER : M50
   ii) REINFORCEMENT
   REINFORCING STEEL SHALL BE Fe500D TMT BARS CONFORMING TO IS:1786–2008
4. CLEAR COVER TO ANY REINFORCEMENT = 50MM.
5. LENGTH OF BARS ARE INDICATIVE AND SHALL BE VERIFIED BY BAR BENDING SCHEDULE.
6. BASIC LAP LENGTH SHALL BE 57 X ø (ø IS DIA. OF BAR),
7. SURFACE OF PIER CAP HOLE SHALL BE ROUGHENED IMMEDIATELY AFTER REMOVAL OF SHUTTERING.
8. NOT MORE THAN 50% OF THE BAR SHALL BE LAPPED AT ANY LOCATION.
9. THE LAP SHALL BE STAGGERED BY A DISTANCE OF 1.3 TIMES LAP LENGTH.
10. IF ANY AMBIGUITY IS FOUND IN DRAWING OR AT SITE REGARDING PIER SHAPE/DIMENSIONS THE SAME SHALL BE BROUGHT TO DESIGNER'S NOTICE BEFORE EXECUTION.
11. NUMBER OF BARS SHALL NOT BE COUNTED, ONLY NUMBER OF BARS AND SPACING PROVIDED IN THE SCHEDULE SHALL BE FOLLOWED

SCHEDULE OF REINFORCEMENT

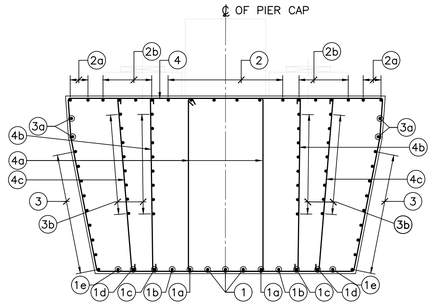
COMPONENTS	BAR MARK	BAR DIA.	SHAPE	TOTAL NOS./ SPACINGS	REMARKS
PIER CAP	①	℄16		3x2 Nos.	BOTTOM BAR (COUPLERS PROVIDED)
	①a	℄16		1X2 NOS.	BOTTOM BAR (COUPLERS PROVIDED)
	①b	℄16		1X2 NOS.	BOTTOM BAR (COUPLERS PROVIDED)
	①c	℄16		1X2 NOS.	BOTTOM BAR (COUPLERS PROVIDED)
	①d	℄16		2 Nos.	BOTTOM BAR
	①e	℄16		2 Nos.	BOTTOM BAR
	②	℄32		6 Nos.	TOP BAR (COUPLERS PROVIDED)
	②a	℄32		2x2 Nos.	TOP BAR
	②b	℄32		2x4 Nos.	TOP BAR
	③	℄16	PLAN	@ 120 c/c	SIDE FACE
	③a	℄16	PLAN	2 NOS.	SIDE FACE
	③b	℄16	PLAN	@ 120 c/c	——
	④	℄12		@ 200 c/c	DEPTH VARIES
	④a	℄10		@ 200 c/c	DEPTH VARIES
	④b	℄10		@ 200 c/c	DEPTH VARIES
	④c	℄10		@ 200 c/c	DEPTH VARIES
	⑤	℄12		@ 200 c/c	WIDTH VARIES
	⑤a	℄12		@ 200 c/c	
	⑥ TO ⑮				NOT USED
	⑯	℄20	VARIES / LAP. / VARIES		TO BE CONNECTED TO BAR MARKED ②
	⑯a	℄16	VARIES / LAP. / VARIES		TO BE CONNECTED TO BAR MARKED ①, ①a, ①b, & ①c
	⑰	℄16	VARIES	@ 150 C/C	
	⑱	℄16	600	@ 200 c/c RADIAL @ 200 c/c VERTICAL	
	⑲	℄10	——	4 Nos.	LENGTH VARIES
	⑲a	℄10	——	3 Nos.	LENGTH VARIES
	⑳	℄12	VARIES	@ 150 C/C	
PEDESTAL	㉑	℄16		14 Nos.	AS SHOWN
	㉒	℄12		@ 125 c/c	
SEISMIC ARRESTER	㉓	℄20		20 Nos.	AS SHOWN
	㉔	℄12		@ 100 c/c	

✳ KINDLY REFER THE LATEST REVISIONS FOR THE REFERENCE DRAWING & DOCUMENTS PROVIDED HERE.



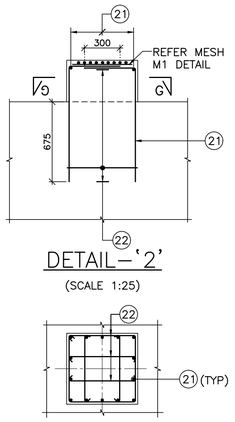
SECTION B–B

(PEDESTAL & ARRESTER REINF. NOT SHOWN FOR CLARITY)
(SCALE 1:30)



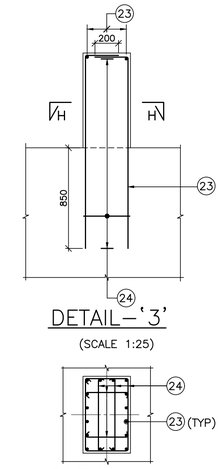
SECTION E–E

(BAR MARK ⑤ NOT SHOWN FOR CLARITY)
(SCALE 1:25)



DETAIL–'2'

(SCALE 1:25)



DETAIL–'3'

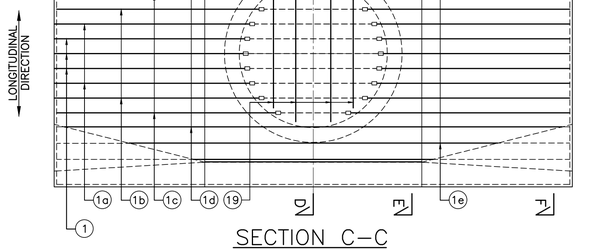
(SCALE 1:25)

SECTION G–G

(SCALE 1:25)

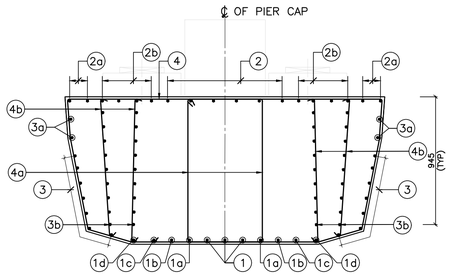
SECTION H–H

(SCALE 1:25)



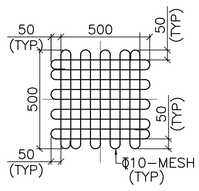
SECTION C–C

(SCALE 1:30)



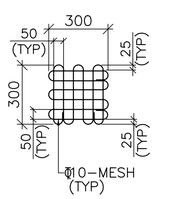
SECTION F–F

(BAR MARK ⑤ NOT SHOWN FOR CLARITY)
(SCALE 1:25)



BAR MARK (M1)

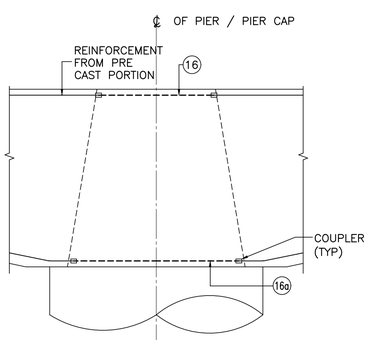
(SCALE 1:15)



BAR MARK (M2)

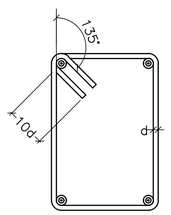
(SCALE 1:15)

(IN TWO LAYERS ONE AT 20MM FROM TOP & ANOTHER AT 100MM FROM TOP)



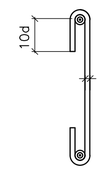
DETAIL–'1'

('B' TYPE COUPLER SHALL ONLY BE USED)
(SCALE 1:25)



TYPICAL DETAIL OF HOOK IN CLOSED TIES

(d–DIAMETER OF BAR)
(SCALE 1:15)



TYPICAL DETAIL OF HOOK FOR LINKS

(d–DIAMETER OF LINKS)
(SCALE 1:15)

GOOD FOR CONSTRUCTION

NOTES :

LEGEND :

REFERENCE DRAWINGS :
O22077-BSRP-CR2-C-VD-GEN-20-1291

REFERENCE DOCUMENTS :
DOC-BSRP-CR2-EV-DGN-20-1171

KEY PLAN

STATION BOX KEY PLAN

REVISIONS		
1	15/11/24	FOR CONSTRUCTION
0	11/07/24	FOR CONSTRUCTION
C	06/03/24	REVISED AS PER GC COMMENTS
B	19/02/24	REVISED AS PER GC COMMENTS
A	28/11/23	FOR APPROVAL
REV	DATE	BRIEF DESCRIPTION

CONTRACTOR :
TRANSPORTATION INFRASTRUCTURE IC
EDRC-SPECIAL BRIDGES

DETAILED DESIGN CONSULTANT (DDC) :
STUP Consultants Pvt. Ltd.
JP & Devi Jambulieshwar Arcade
No. 1, 1st Floor,
Millers Road, Bengaluru-560052.
Tel.: 080-2298 9560
Email : bangalore@asystem.com
www.stupconsultants.com

L&T CONSTRUCTION
EDRC-SPECIAL BRIDGES - TIC

PROOF CONSULTANT (PC) :
Indian Institute of Technology Madras
IIT P.O., Chennai
600 036 INDIA

QUALITY ASSURANCE
The responsibility of control, check and verification of accuracy, correctness, completeness, integration and full compliance of Contract provisions in respect of design analysis and drawing rests with Design & Build Contractor.

	DDC		PC	Contractor
SIGN	Logana gamani dan M	Venkatesha S S.	Partha Chakraborty	MEHER PRASAD Maharashtra Metro Rail Corporation Ltd.
DATE	15/11/2024	15/11/2024	15/11/2024	15/11/2024
NAME	LN	SSV	PC	KVM
	PREPARED BY	CHECKED BY	APPROVED BY	APPROVED BY/ ISSUED BY

GENERAL CONSULTANTS

	CHECKED & APPROVED		COUNTER SIGN	
	NAME	SIGN	PROJECT DIRECTOR	K RIDE
CIVIL:GAD			SIGN	
CIVIL:ALIGNMENT			NAME	
CIVIL:STRUCTURAL			DATE	
CIVIL:GEOTECH				

	DESIGNATION	SIGN	DATE
CIVIL:GAD			
CIVIL:ALIGNMENT			
CIVIL:STRUCTURAL	GM/CIVIL/DESIGN		

EMPLOYER :
RAIL INFRASTRUCTURE DEVELOPMENT COMPANY (KARNATAKA) LIMITED
K RIDE

GENERAL CONSULTANTS :
AECOM egis AECOM-EGIS-WSP

PROJECT : BENGALURU SUBURBAN RAILWAY PROJECT (BSRP)
K-RIDE CORRIDOR - 2

DRAWING TITLE : REINFORCEMENT DETAILS OF SINGLE TRACK PRECAST RCC PIER CAP (U-GIRDER 31m-31m STANDARD SPAN)

DRAWING NO. : O22077-BSRP-CR2-C-VD-GEN-30-1292 (SHEET 1 OF 2)
REVISION : 1
DWG STATUS : C
SCALE : AS SHOWN
DATE : 11/07/2024
PRELIMINARY DWG (P), DEFINITIVE DWG (D), CONSTRUCTION DWG (C), AS BUILT DWG (B), SHOP DWG (S), MANUFACTURED DWG (M)
SHEET SIZE - A1

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15-11-2024 19:31:38