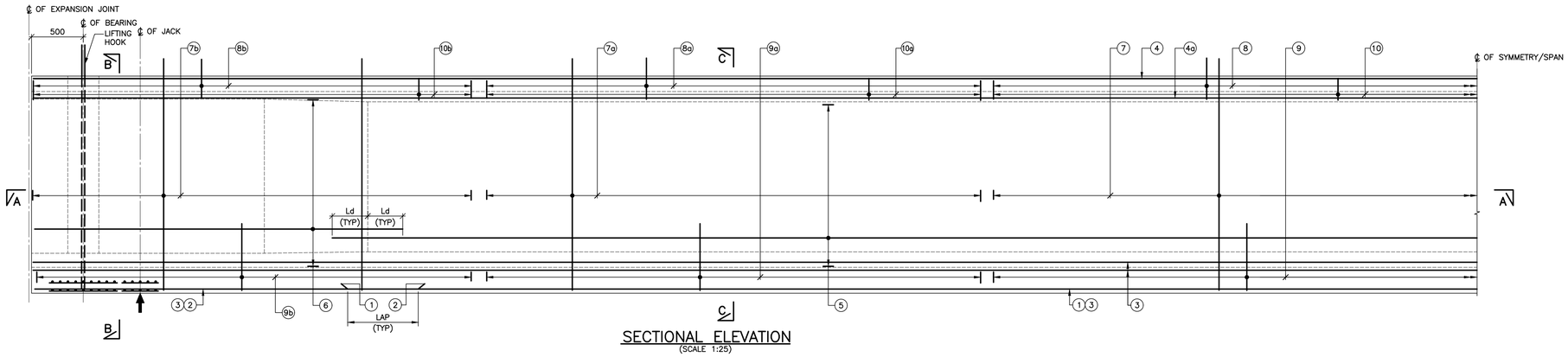
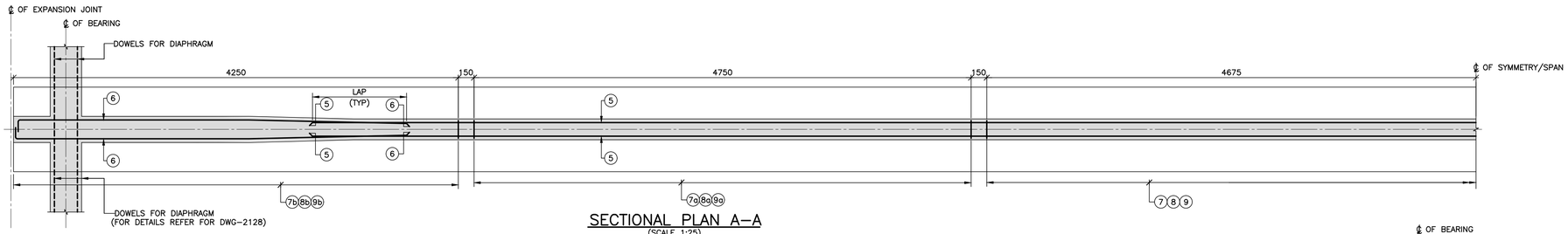


SECTIONAL ELEVATION
(SCALE 1:25)



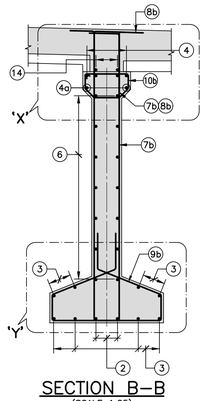
SECTIONAL PLAN A-A
(SCALE 1:25)

NOTES:

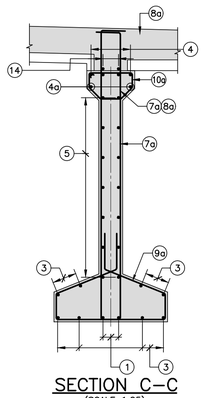
1. ALL DIMENSIONS ARE IN MILLIMETRES. UNLESS OTHERWISE MENTIONED.
2. DIMENSIONS ARE NOT TO BE SCALED, FOLLOW ONLY WRITTEN DIMENSIONS.
3. ALL REINFORCEMENTS SHALL BE Fe-500 CONFORMING TO IS:1786.
4. GRADE OF CONCRETE SHALL BE M60.
5. MINIMUM CLEAR COVER TO ANY REINFORCEMENT SHALL BE 35mm.
6. DEVELOPMENT LENGTH REPRESENTED BY Ld SHALL BE EQUAL TO 41 TIMES THE DIA OF THE BAR.
7. LAP LENGTH SHALL BE EQUAL TO 58 TIMES THE DIA. OF BAR AND NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT A SECTION.
8. ALL LAPS SHALL BE STAGGERED. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY SECTION.
9. ADEQUATE LINKS/SPACER BARS SHALL BE PROVIDED FOR PROPER POSITIONING OF REINFORCEMENT.
10. DOWEL BARS FOR DIAPHRAGM SHALL BE LEFT BEFORE CONCRETING.

SCHEDULE OF REINFORCEMENT

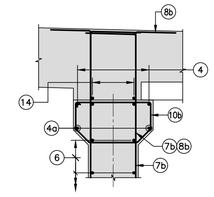
ITEM	BAR MARK	BAR DIA.	SHAPE	TOTAL NOS./ SPACINGS	REMARKS
I GIRDER	①	℄12		2 Nos.	
	②	℄12	400	2x2 Nos.	
	③	℄10		8 Nos.	
	④	℄10		4 Nos.	
	④a	℄10		2 Nos.	
	⑤	℄10		2x7 Nos.	
	⑥	℄10	150	2x7 Nos.	EQUALLY SPACED
	⑦	℄10	300	@ 200 c/c	
	⑦a	℄10	300	@ 150 c/c	
	⑦b	℄12	300 VARIES	@ 150 C/C	
	⑧	℄10	300	@ 200 C/C	
	⑧a	℄10	300	@ 150 c/c	
	⑧b	℄10	300	@ 150 C/C	
	⑨	℄10		@ 200 C/C	
	⑨a	℄10		@ 150 c/c	
	⑨b	℄10		@ 150 C/C	
	⑩	℄8		@ 200 c/c	
	⑩a	℄8		@ 150 c/c	
	⑩b	℄8		@ 150 C/C	
	⑪	℄10	300	2x2 Nos.	
	⑫	℄8		2x4 Nos.	
	⑬	℄8		2x6 Nos.	
	⑭	℄10		2 Nos.	



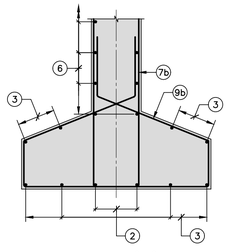
SECTION B-B
(SCALE 1:25)



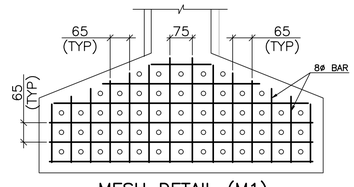
SECTION C-C
(SCALE 1:25)



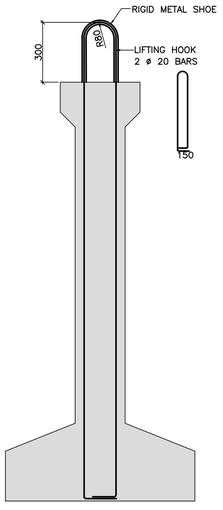
DETAIL-'X'
(SCALE 1:15)



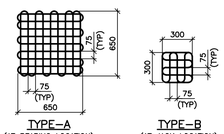
DETAIL-'Y'
(SCALE 1:15)



MESH DETAIL (M1)
(SCALE 1:10)
(FOR LOCATION REFER DRAWING NO.2127)

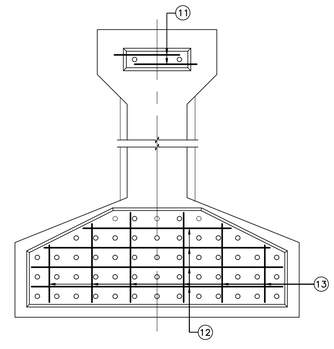


TYPICAL LIFTING HOOK DETAILS
(ONLY LIFTING HOOKS SHOWN FOR CLARITY)
(SCALE 1:15)

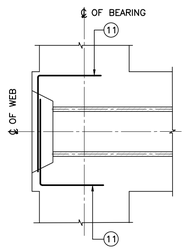


TYPE-A (AT BEARING LOCATION)
TYPE-B (AT JACK LOCATION)

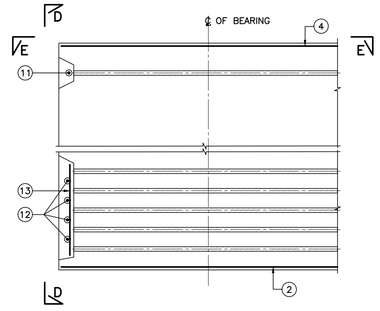
℄8 MESH REINFORCEMENT
(MESH REINFORCEMENT ARE TO BE PROVIDED IN TWO LAYERS, 1ST LAYER 20mm FROM SURFACE & 2ND LAYER 100mm FROM SURFACE)
(SCALE 1:25)



VIEW-D-D
(SCALE 1:10)



VIEW-E-E
(SCALE 1:10)



DETAILS OF RECESS REINF.
(SCALE 1:10)

NOTES :	NOTES :	LEGEND :	REFERENCE DRAWINGS :	REFERENCE DOCUMENTS :	KEY PLAN	STATION BOX KEY PLAN	EMPLOYER :
		BEARING JACKING POSITION JACKING POSITION G — GIRDER EF — EACH FACE	1. 022077-BSRP-CR2-C-VD-GEN-10-2125....GENERAL ARRANGEMENT AND DIMENSIONAL DETAIL OF 28M SPAN SUPER STRUCTURE AT VIADUCT DOUBLE TRACK 2. 022077-BSRP-CR2-C-VD-GEN-10-2127....PRE TENSIONED STRAND DETAILS FOR 28M SPAN SUPERSTRUCTURE AT VIADUCT-DOUBLE TRACK 3. 022077-BSRP-CR2-C-VD-GEN-10-2128....REINFORCEMENT DETAILS OF 28M SPAN SUPER STRUCTURE AT VIADUCT DOUBLE TRACK DECK SLAB AND DIAPHRAGM	1. DOC-BSRP-CR2-EV-DGN-GEN-10-1307	JALAHALLI STATION, KANAKANAGAR STATION, HEBBAL STATION, BENNIGANAHALLI STATION, MATHIKERE STATION, YESHWANTPUR STATION, N		DESIGNATION / NAME / SIGN

REVISIONS		
B	12.12.23	FOR APPROVAL
A	18.09.23	FOR APPROVAL
REV.	DATE	BRIEF DESCRIPTION

CONTRACTOR :
TRANSPORTATION INFRASTRUCTURE IC
EDRC-SPECIAL BRIDGES

DETAILED DESIGN CONSULTANT (DDC) :
STUP Consultants Pvt. Ltd.
JP & Dev Jambotkeshwar Arcade
#68, 4th Floor,
Millers Road, Bengaluru-560052.
Tele: 080-22264444
Email : bangalore@stupsystem.com
www.stupsystem.com

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					
DATE	12.12.2023	12.12.2023	12.12.2023		12.12.2023
NAME	SSG	ADR	SDC		SKS
	PREPARED BY	CHECKED BY	APPROVED BY	APPROVED BY	ISSUED BY

GENERAL CONSULTANTS

CHECKED	NAME	SIGN		REVIEWED DY. PD	PROJECT DIRECTOR
CIVIL & STRUCTURAL			SIGN		
GEO-TECHNICAL			NAME		
			DATE		

EMPLOYER :
RAIL INFRASTRUCTURE DEVELOPMENT COMPANY (KARNATAKA) LIMITED

GENERAL CONSULTANTS :
AECOM egis wsp AECOM-EGIS-WSP

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

DRAWING TITLE : REINFORCEMENT DETAILS OF 28M SPAN SUPERSTRUCTURE AT VIADUCT - DOUBLE TRACK (I GIRDER)

DRAWING NO. : O22077-BSRP-CR2-C-VD-GEN-10-2126

REVISION	DWG STATUS
B	D

SCALE : AS SHOWN
DATE : 18.09.2023
PRELIMINARY DWG (P), DEFINITIVE DWG (D), CONSTRUCTION DWG (C), AS BUILT DWG (B), SHOP DWG (S), MANUFACTURED DWG (M)
SHEET SIZE - A1

12/12/2023 4:18 PM
S:\02 - E&I Production\03 - Mumbai\04 - SH_ENGINS042\CAD\WORKING\VIADUCT\SUPERSTRUCTURE\I-GIRDER\DOUBLE TRACK\28 M\O22077-BSRP-CR2-C-VD-GEN-10-2126_C.dwg