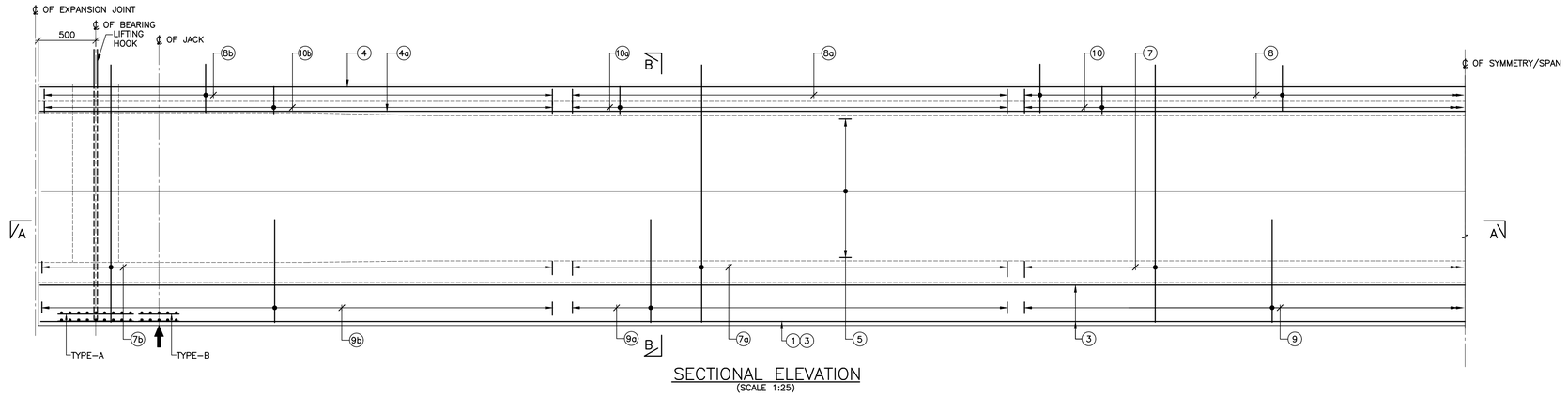
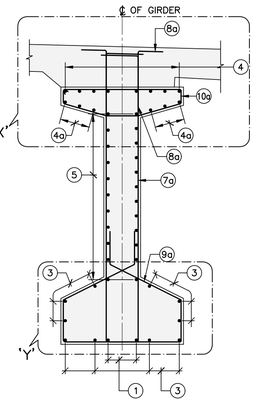
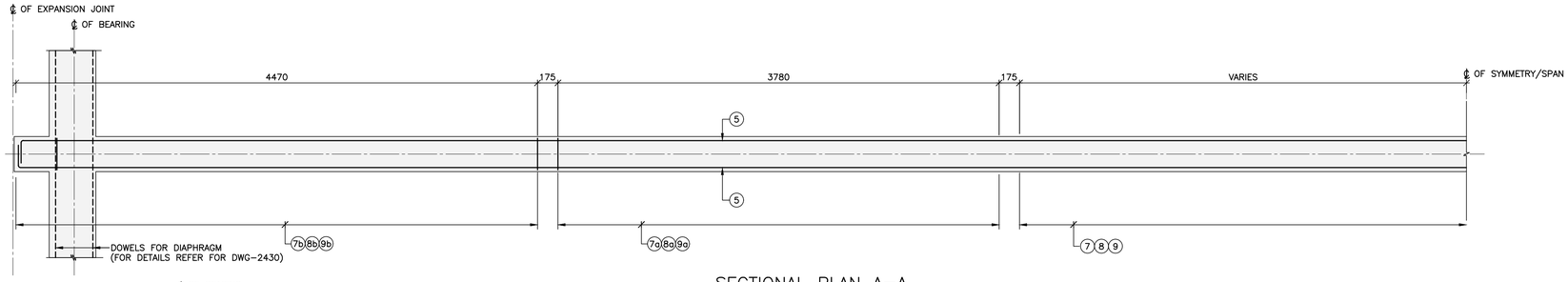


SECTIONAL ELEVATION
(SCALE 1:25)



SECTION B–B
(SCALE 1:25)



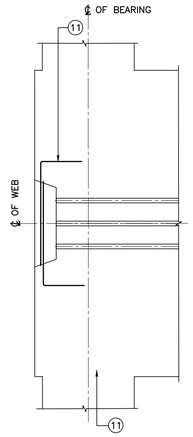
SECTIONAL PLAN A–A
(SCALE 1:25)

NOTES:–

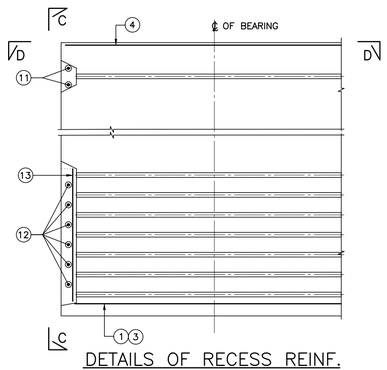
1. ALL DIMENSIONS ARE IN MILLIMETRES. UNLESS OTHERWISE MENTIONED.
2. DIMENSIONS ARE NOT TO BE SCALED, FOLLOW ONLY WRITTEN DIMENSIONS.
3. ALL REINFORCEMENTS SHALL BE Fe–500 CONFORMING TO IS:1786.
4. GRADE OF CONCRETE SHALL BE M60.
5. MINIMUM CLEAR COVER TO ANY REINFORCEMENT SHALL BE 35mm.
6. DEVELOPMENT 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

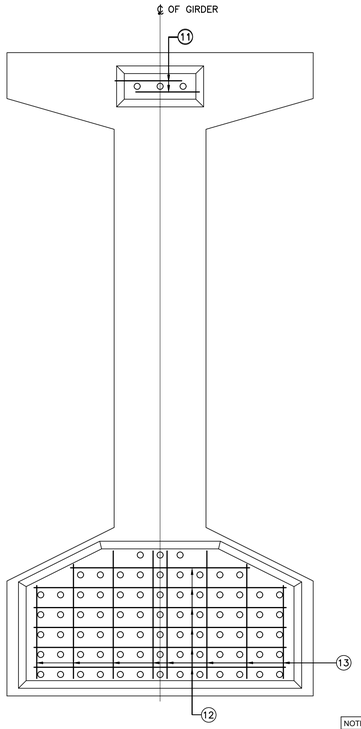
ITEM	BAR MARK	BAR DIA.	SHAPE	TOTAL NOS./ SPACINGS	REMARKS
I GIRDER	1	ϕ12		2 Nos.	
	2				NOT USED
	3	ϕ10		10 Nos.	
	4	ϕ10		8 Nos.	
	4a	ϕ10		6 Nos.	
	5	ϕ10		2x7 Nos.	
	6				NOT USED
	7	ϕ10	300	@ 300 c/c	
	7a	ϕ12	300	@ 250 c/c	
	7b	ϕ12	300	@ 175 C/C	
	8	ϕ10	300	@ 300 c/c	
	8a	ϕ10	300	@ 250 c/c	
	8b	ϕ10	300	@ 175 C/C	
	9	ϕ10		@ 300 c/c	
	9a	ϕ10		@ 250 c/c	
	9b	ϕ10		@ 175 C/C	
	10	ϕ10		@ 300 c/c	
	10a	ϕ10		@ 250 c/c	
	10b	ϕ10		@ 175 C/C	
	11	ϕ10	300	2x2 Nos.	
	12	ϕ10		2x6 Nos.	
	13	ϕ10		2x8 Nos.	



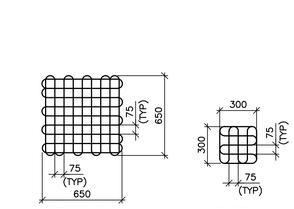
VIEW–D–D
(SCALE 1:10)



DETAILS OF RECESS REINF.
(SCALE 1:10)



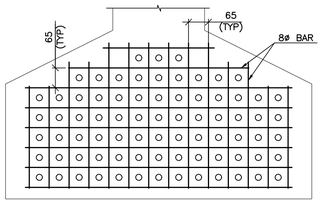
VIEW–C–C
(SCALE 1:10)



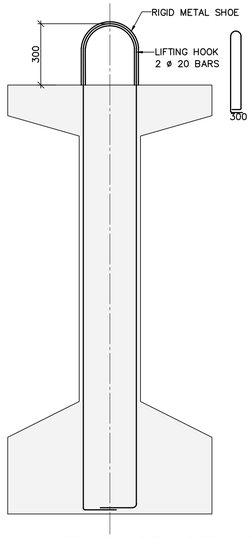
TYPE–A
(AT BEARING LOCATION)

TYPE–B
(AT JACK LOCATION)

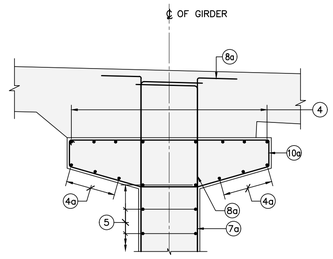
ϕ8 MESH REINFORCEMENT
(MESH REINFORCEMENT ARE TO BE PROVIDED IN TWO LAYERS, 1ST LAYER 20mm FROM SURFACE & 2ND LAYER 100mm FROM SURFACE)
(SCALE 1:25)



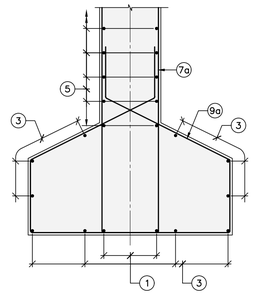
MESH DETAIL (M1)
(FOR LOCATION REFER DRAWING NO.2429)
(SCALE 1:10)



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



DETAIL–'X'
(SCALE 1:15)



DETAIL–'Y'
(SCALE 1:15)

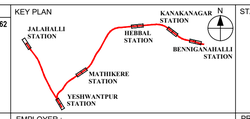
NOTES :	NOTES :
1. ALL DIMENSIONS ARE IN MILLIMETERS LEVELS ARE IN METERS UNLESS SPECIFIED OTHERWISE. 2. FOLLOW FIGURED DIMENSIONS ONLY. 3. SUITABLE PROVISION TO BE MADE FOR ANCHORING OHE MAST. 4. GROUTING SHOULD BE DONE SOON AFTER STRESSING OF THE STRANDS WITH NEAT CEMENT GROUT (WITH APPROVED ADMIXTURES IF REQUIRED) AS PER SPECIFICATION. 5. CONCRETE GRADES FOR ALL SUPERSTRUCTURE COMPONENTS – GIRDER–M60 DECK SLAB AND DIAPHRAGM–M40 PARAPET–M40	

LEGEND :
- BEARING
- JACKING POSITION
- JACKING POSITION
- G — GIRDER
- EF — EACH FACE

REFERENCE DRAWINGS :

022077–BSRP–CR2–C–VD–GEN–20–2427...	GENERAL ARRANGEMENT DETAILS OF 24M CURVED SPAN (R=871M) SUPERSTRUCTURE AT VIADUCT FOR CR2 FOR C2P10–1 TO C4P10–2–DOUBLE TRACK
022077–BSRP–CR2–C–VD–GEN–20–2429....	PRE TENSIONED STRAND DETAILS FOR 24M CURVED SPAN (R=871M) SUPERSTRUCTURE AT VIADUCT FOR CR2 FOR C2P10–1 TO C2P10–2–DOUBLE TRACK
022077–BSRP–CR2–C–VD–GEN–20–2430....	REINFORCEMENT DETAILS OF 24M CURVED SPAN (R=871M) SUPERSTRUCTURE AT VIADUCT FOR CR2 FOR C2P10–1 TO C2P10–2–DOUBLE TRACK (DECK SLAB AND DIAPHRAGM)

REFERENCE DOCUMENTS :
1. DOC–BSRP–CR2–EV–DGN–GEN–20–1362

KEY PLAN


STATION BOX KEY PLAN

EMPLOYER :

DESIGNATION	NAME	SIGN

REVISIONS

REV	DATE	BRIEF DESCRIPTION
a	25.06.24	FOR APPROVAL

CONTRACTOR :
TRANSPORTATION INFRASTRUCTURE IC
EDRC-SPECIAL BRIDGES

DETAILED DESIGN CONSULTANT (DDC) :
STUP Consultants Pvt. Ltd.
JP & Devi Jambukeshwar Arcade
No. 32, 1st Floor,
Millers Road, Bengaluru-560052.
Tel: 080-2286 9560
Email : bangalore@easystem.com
www.easystem.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	25.06.2024	25.06.2024	25.06.2024		25.06.2024
NAME	AK	BYM	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

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

DRAWING TITLE : REINFORCEMENT DETAILS OF 24M CURVED SPAN (R=871M) SUPERSTRUCTURE AT VIADUCT FOR CR2 FOR C2P10-1 TO C2P10-2 - DOUBLE TRACK

DRAWING NO. : O22077-BSRP-CR2-C-VD-GEN-20-2428

REVISION	DWG STATUS
a	D

SCALE : AS SHOWN | DATE : 25.06.2024

PRELIMINARY DWG (P), DEFINITIVE DWG (D), CONSTRUCTION DWG (C), AS BUILT DWG (B), SHOP DWG (S), MANUFACTURED DWG (M) | SHEET SIZE - A1

25/06/2024 4:42 PM

O22077-BSRP-CR2-C-VD-GEN-20-2428_a.dwg