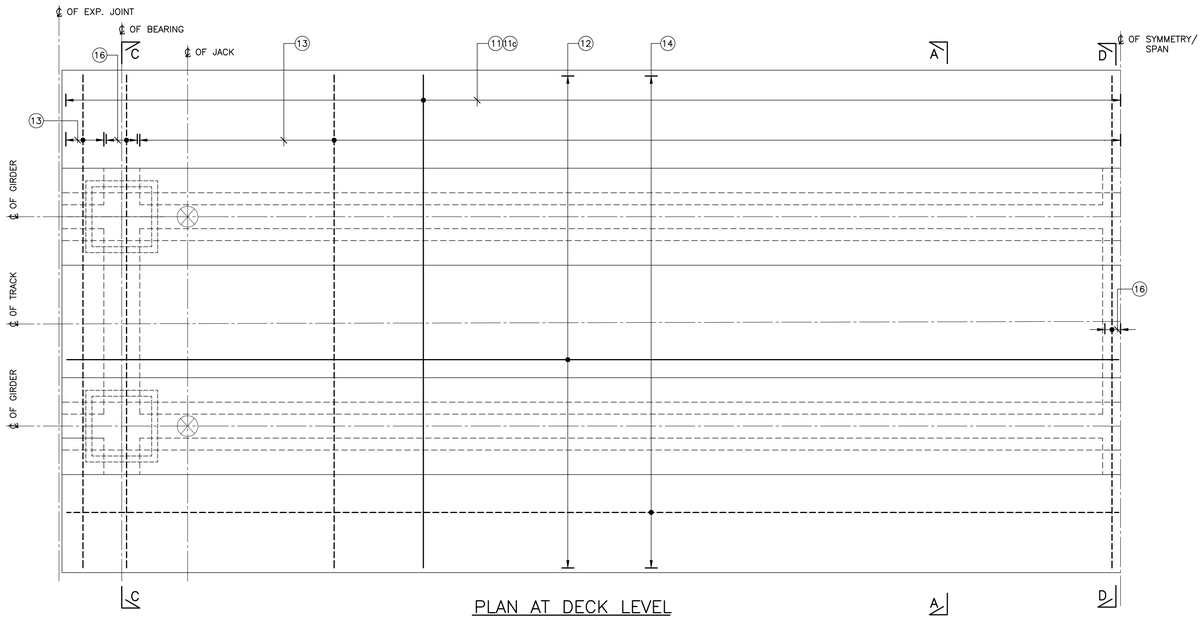


PLAN AT DECK LEVEL
(SCALE 1:25)

SCHEDULE OF REINFORCEMENT

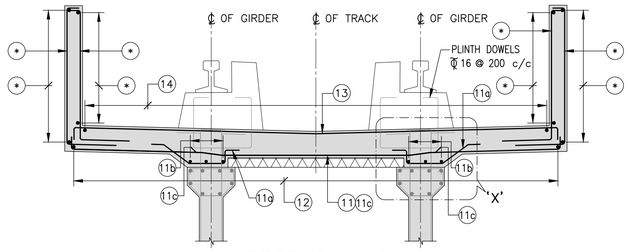
ITEM	BAR MARK	BAR DIA.	SHAPE	TOTAL NOS./ SPACINGS	REMARKS
DECK SLAB	11	℄12	100 — 100	@ 150 c/c	BOTTOM
	11a	℄10	100 / 100	@ 100 c/c	HAUNCH R/F
	11b	℄10		3x2 NOS.	HAUNCH R/F
	11c	℄10	2000	@ 150 c/c	BOTTOM
	12	℄10	100 — 100	@ 200 c/c	BOTTOM
	13	℄12	100 — 100	@ 100 c/c	TOP
	13a				NOT USED
	14	℄10	100 — 100	@ 200 c/c	TOP
DIAPHRAGM	15	℄12	LAP (TYP)	@ 100 c/c	
	15a	℄12	100 — 100	@ 100 c/c	
	16	℄20	100 — 100	4 Nos.	TOP
	17	℄12		@ 100 c/c	
	17a	℄12		2x2 NOS.	PER GIRDER
	17b	℄12		2x2 NOS.	
	17c	℄12		@ 100 c/c	
	17d	℄12		2 NOS.	
	18				NOT USED
	18a	℄16	1650 / 1650 / 750	3 NOS.	

NOTES:

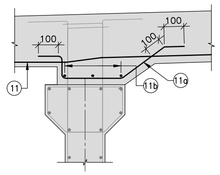
1. ALL DIMENSIONS ARE IN MILLIMETRES. UNLESS OTHERWISE MENTIONED.
2. DIMENSIONS ARE NOT TO BE SCALED, FOLLOW ONLY WRITTEN DIMENSIONS.
3. ALL REINFORCEMENTS SHALL BE Fe–500 CONFORMING TO IS:1786.
4. GRADE OF CONCRETE SHALL BE M40.
5. MINIMUM CLEAR COVER TO ANY REINFORCEMENT SHALL BE 40mm.
6. DEVELOPMENT 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. FAR FACE BARS SHOWN THUS ——————————
    NEAR FACE BARS SHOWN THUS - - - - - - - - - - - - - - - - - -
11. DOWEL BARS FOR RAIL PLINTH , PARAPET WALL AND OHE MAST PEDESTAL SHALL BE LEFT BEFORE CONCRETING.

REFERENCE DRAWINGS :

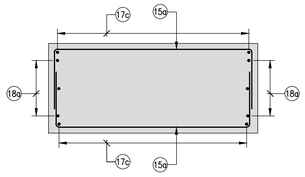
1. O22077–BSRP–CR2–C–VD–GEN–20–2419..... GENERAL ARRANGEMENT FOR 17.75M STRAIGHT SPAN SUPERSTRUCTURE AT MATHIKERE STATION FOR CR2 FOR P160 TO P161 & P162 TO P163 (UP & DOWN TRACK)– SINGLE TRACK
2. O22077–BSRP–CR2–C–VD–GEN–20–2420..... REINFORCEMENT DETAILS OF 17.75M STRAIGHT SPAN SUPERSTRUCTURE AT MATHIKERE STATION FOR CR2 FOR P160 TO P161 & P162 TO P163 (UP & DOWN TRACK)– SINGLE TRACK
3. O22077–BSRP–CR2–C–VD–GEN–20–2421..... PRE TENSIONED STRAND DETAILS FOR 17.75M STRAIGHT SPAN SUPERSTRUCTURE AT MATHIKERE STATION FOR CR2 FOR P160 TO P161 & P162 TO P163 (UP & DOWN TRACK)– SINGLE TRACK
4. O22077–BSRP–CR2–C–VD–GEN–20–2391..... MISCELLANEOUS DETAIL DRAWING FOR PRETENSION I GIRDER SUPERSTRUCTURE



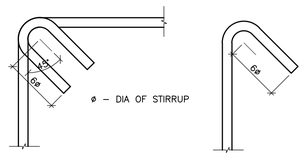
SECTION A–A
(* REFER MISCELLANEOUS DETAILS DRAWING FOR PRETENSION I–GIRDER)
(SCALE 1:30)



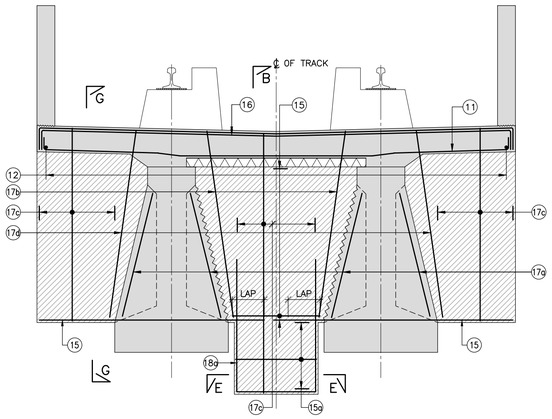
DETAIL–'X'
(SCALE 1:15)



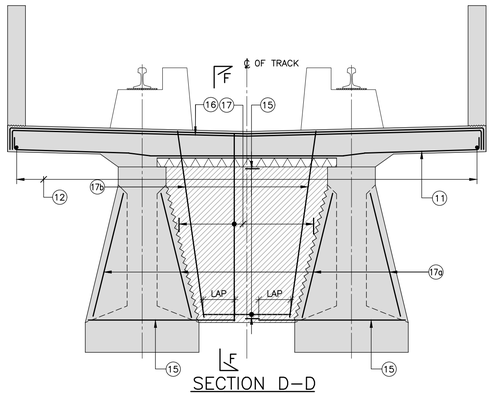
SECTION E–E
(SCALE 1:10)



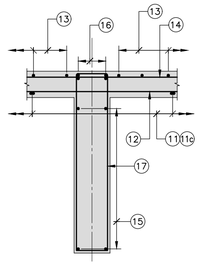
STANDARD STIRRUP AND LINK DETAIL
(SCALE 1:5)



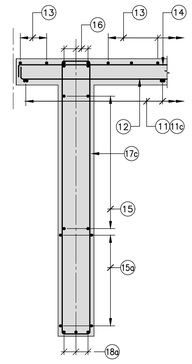
SECTION C–C
(SCALE 1:25)



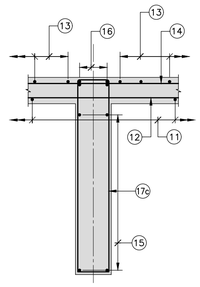
SECTION D–D
(SCALE 1:25)



SECTION F–F
(SCALE 1:25)



SECTION B–B
(SCALE 1:25)



SECTION G–G
(SCALE 1:25)

NOTES :	NOTES :	LEGEND :	REFERENCE DRAWINGS :	REFERENCE DOCUMENTS :	KEY PLAN	STATION BOX KEY PLAN	EMPLOYER :
		⊠ — BEARING ⊗ — JACKING POSITION ↑ — JACKING POSITION G — GIRDER		1. DOC–BSRP–CR2–EV–DGN–GEN–20–1360	JALAHALLI STATION, KANAKANAGAR STATION, HEBBAL STATION, BENNIGANAHALLI STATION, MATHIKERE STATION, VESHWANTPUR STATION, N		DESIGNATION / NAME / SIGN

REVISIONS		
a	01.07.24	FOR APPROVAL
REV	DATE	BRIEF DESCRIPTION

CONTRACTOR : TRANSPORTATION INFRASTRUCTURE IC EDRC-SPECIAL BRIDGES

DETAILED DESIGN CONSULTANT (DDC) : STUP Consultants Pvt. Ltd. #1 & 2nd Jambukeshwar Arcade 3rd Cross, Miller's Road, Bengaluru-560052 Tel : 080-2286 9560 Email : bengaluru@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	01.07.2024	01.07.2024	01.07.2024		28.06.2024
NAME	HSS	ADR	SDC		KVM
	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 17.75M STRAIGHT SPAN SUPERSTRUCTURE AT MATHIKERE STATION FOR CR2 FOR P160 TO P161 & P162 TO P163 (UP & DOWN TRACK)- SINGLE TRACK (DECK SLAB AND DIAPHRAGM)

DRAWING NO. : O22077-BSRP-CR2-C-VD-GEN-20-2422 | REVISION : a | DWG STATUS : D

SCALE : AS SHOWN | DATE : 28.06.2024

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