



PIER C/C DISTANCE BETWEEN PIERS (L)

PIER	L(M)
BPP2	17.473
BPP3	17.767
BPP4	17.961
BPP5	18.199
BPP6	18.352
BPP7	18.563
BPP8	18.609
BPP9	18.630
BPP10	18.650

PORTAL BEAM LENGTH

PIER	L1(M)	L2(M)	L3(M)
BPP2	6.100	10.073	6.100
BPP3	6.100	10.367	6.100
BPP4	6.100	10.561	6.100
BPP5	6.100	10.799	6.100
BPP6	6.100	10.952	6.100
BPP7	6.100	11.163	6.100
BPP8	6.100	11.209	6.100
BPP9	6.100	11.230	6.100
BPP10	6.100	11.250	6.100

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS, LEVELS ARE IN METERS UNLESS OTHERWISE.
- DIMENSIONS SHALL NOT BE SCALED FROM THE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
- REINFORCEMENT STEEL SHALL BE HYSD BARS OF GRADE Fe500 FOR ALL R.C WORKS. DURABILITY REQUIREMENTS FOR CORROSION CONTROL SHALL BE AS PER IRC:112-2011 AS PER TENDER.
- IF ANY AMBIGUITY IS FOUND IN DRAWINGS OR AT SITE, THE SAME SHALL BE BROUGHT TO DESIGNER'S/ENGINEER'S NOTICE BEFORE EXECUTION.
- GRADE OF CONCRETE SHALL BE M50.
- MINIMUM CLEAR COVER TO ANY REINFORCEMENT SHALL BE 50MM FOR PORTAL BEAM.
- DEVELOPMENT LENGTH SHALL BE AS GIVEN BELOW :

GRADE OF CONCRETE	M35	M50
DEVELOPMENT LENGTH	46φ	41φ

WHERE φ IS THE DIA. OF BAR.
- FOR DEVELOPMENT LENGTH CALCULATION OF BUNDLE BAR, EQUIVALENT BAR DIA = φ SHALL BE USED. WHERE, φ=DIA (MM) OF BAR IN BUNDLE & n=NO OF BARS IN BUNDLE.
- BENDING OF REINFORCEMENT SHALL CONFIRM TO IS:2502 LATEST REVISION.

REFERENCE DRAWINGS:- (LATEST REVISION)

- 022077-BSRP-CR2-C-VD-01-10-1301_SH-1 TO 7.....GENERAL ARRANGEMENT DRAWING OF BENNIGANAHALLI STATION (ELEVATED)
- 022077-BSRP-CR2-C-VD-01-20-1328_SH-1 & 2...DIMENSIONAL DETAILS OF SUBSTRUCTURE FOUNDATION AND REINFORCEMENT OF PILE FOR PORTAL PIERS BPP2 & BPP10 AT BENNIGANAHALLI STATION (ELEVATED)
- 022077-BSRP-CR2-C-VD-01-20-1330_SH-1 & 2...DIMENSIONAL DETAILS OF SUBSTRUCTURE FOUNDATION AND REINFORCEMENT OF PILE FOR PORTAL PIERS BPP3 & BPP8 AT BENNIGANAHALLI STATION (ELEVATED)
- 022077-BSRP-CR2-C-VD-01-20-1331_SH-1 & 2...DIMENSIONAL DETAILS OF SUBSTRUCTURE FOUNDATION AND REINFORCEMENT OF PILE FOR PORTAL PIERS BPP2 & BPP10 AT BENNIGANAHALLI STATION (ELEVATED)
- 022077-BSRP-CR2-C-VD-01-20-1335...REINFORCEMENT DETAILS OF PILECAP AND PIER FOR PORTAL PIERS BPP3 & BPP8 AT BENNIGANAHALLI STATION (ELEVATED)
- 022077-BSRP-CR2-C-VD-01-20-1336...REINFORCEMENT DETAILS OF PILECAP AND PIER FOR PORTAL PIERS BPP4 TO BPP7 AT BENNIGANAHALLI STATION (ELEVATED)
- 022077-BSRP-CR2-C-VD-01-20-1599-CONSTRUCTION SEQUENCE OF CAST IN-SITU PORTAL BEAM OF BENNIGANAHALLI STATION
- 022077-BSRP-CR2-C-VD-01-20-1664-TYPICAL DETAILS OF DRAINAGE SCHEME OF PORTAL PIER AT BENNIGANAHALLI STATION (ELEVATED)

- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETERS LEVELS ARE IN METERS UNLESS SPECIFIED OTHERWISE. FOLLOW FIGURED DIMENSIONS ONLY.
 - ESCALATORS AND LIFT PITS DETAILS TO BE DESIGNED/VERIFIED AS PER VENDOR'S SPECIFICATIONS AND NOT IN OUR SCOPE.
 - ESCALATOR WITH ITS HOSTING DETAILS & HOSTING HOLES SHALL BE AS PER VENDOR REQUIREMENTS AND NOT IN OUR SCOPE.

LEGEND :

EJ : EXPANSION JOINT

REFERENCE DRAWINGS :

1. DOC-BSRP-CR2-EV-DGN-01-20-1608

REV	DATE	DESCRIPTION
A	12/01/2024	FOR APPROVAL
B	17/02/2025	REVISED AS PER GC LETTER NO. 3942
C	04/03/2025	REVISED AS PER GC LETTER 4066

CONTRACTOR	TRANSPORTATION INFRASTRUCTURE IC EDRC-SPECIAL BRIDGES
DETAILED DESIGN CONSULTANT (DDC)	Indian Institute of Technology Madras IIT P.O., Chennai 600 036 INDIA
PROOF CONSULTANT (PC)	L&T CONSTRUCTION EDRC-SPECIAL BRIDGES - TIC

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.
GENERAL CONSULTANTS	CIVIL/GAD CIVIL/ALIGNMENT CIVIL/STRUCTURAL CIVIL/GEOTECH
CHECKED & APPROVED	NAME SIGN
COUNTER SIGN	PROJECT DIRECTOR
DESIGNATION	SIGN
DATE	DATE

EMPLOYER :	RAIL INFRASTRUCTURE DEVELOPMENT COMPANY (KARNATAKA) LIMITED
GENERAL CONSULTANTS :	AECOM egis WSP AECOM-EGIS-WSP
KEY PLAN	JALAHALLI STATION BENNIGANAHALLI STATION MATHIKERE STATION YESHWANTHUR STATION
STATION BOX KEY PLAN	BENNIGANAHALLI STATION

PROJECT :	BENGALURU SUBURBAN RAILWAY PROJECT (BSRP) K-RIDE CORRIDOR - 2
DRAWING TITLE :	GENERAL ARRANGEMENT & REINFORCEMENT DETAILS OF PORTAL BEAM FOR PORTAL PIER BPP2, BPP3, BPP4, BPP5, BPP6, BPP7, BPP8, BPP9, BPP10
DRAWING NO. :	022077-BSRP-CR2-C-VD-01-20-1338
SCALE :	AS SHOWN
PRELIMINARY DWG (P), DEFINITIVE DWG (D), CONSTRUCTION DWG (C), AS BUILT DWG (B), SHOP DWG (S), MANUFACTURED DWG (M)	SHEET-1 OF 4

REVISION	DWG STATUS
C	D
DATE : 04/03/2025	SHEET SIZE : A1