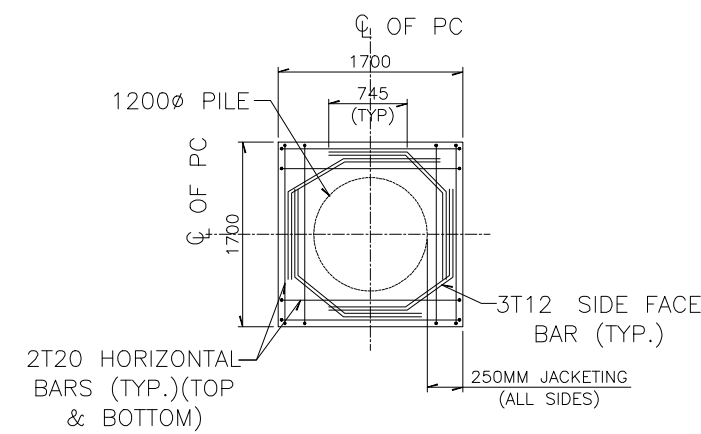
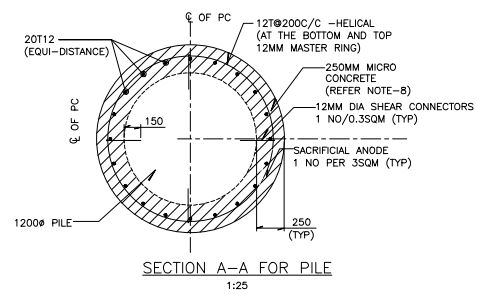
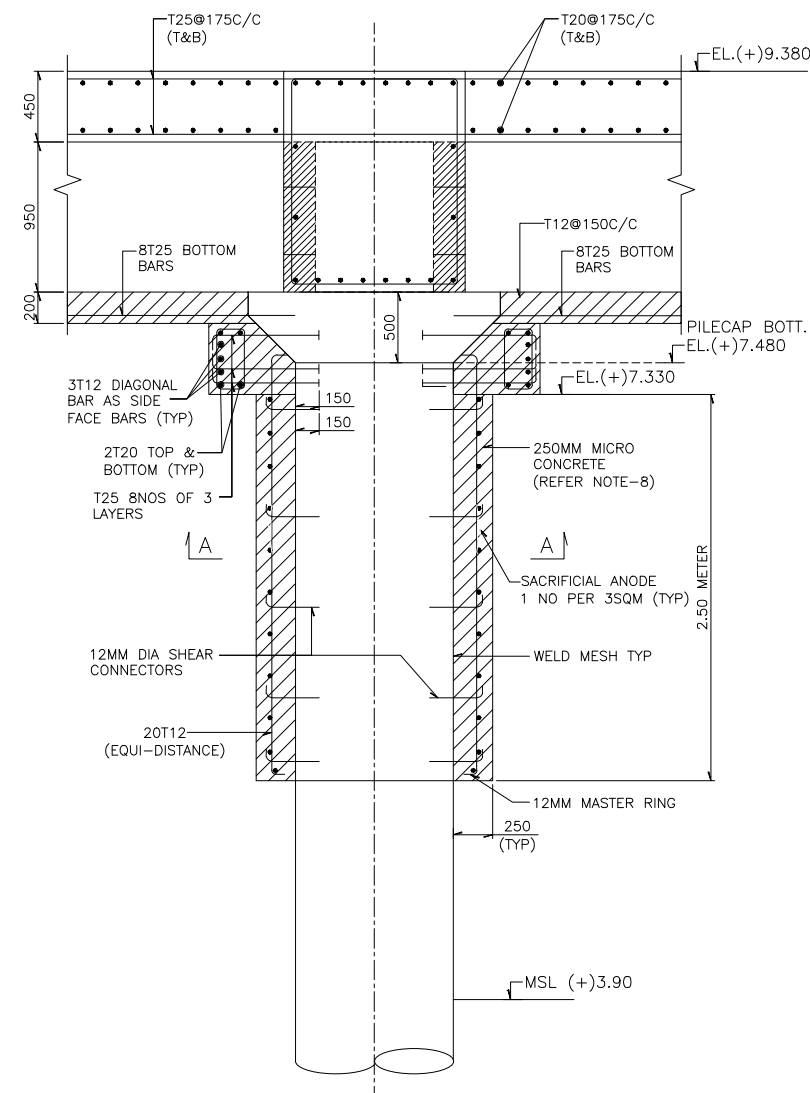


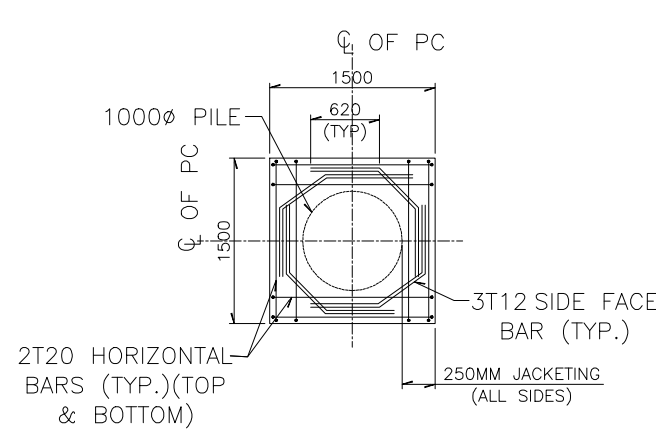
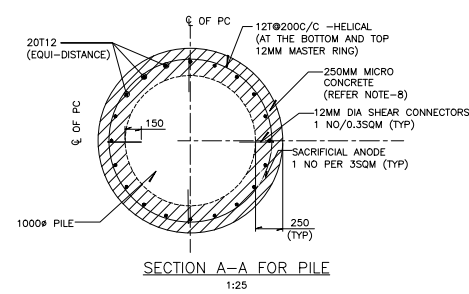
FOR THE PILES WITHOUT PILE CAP
CROSS SECTION FOR NEW PILE CAP
& RETROFITTING OF PILE
(FOR PILE 1200MMØ)
REINFORCEMENT DETAIL
1:25



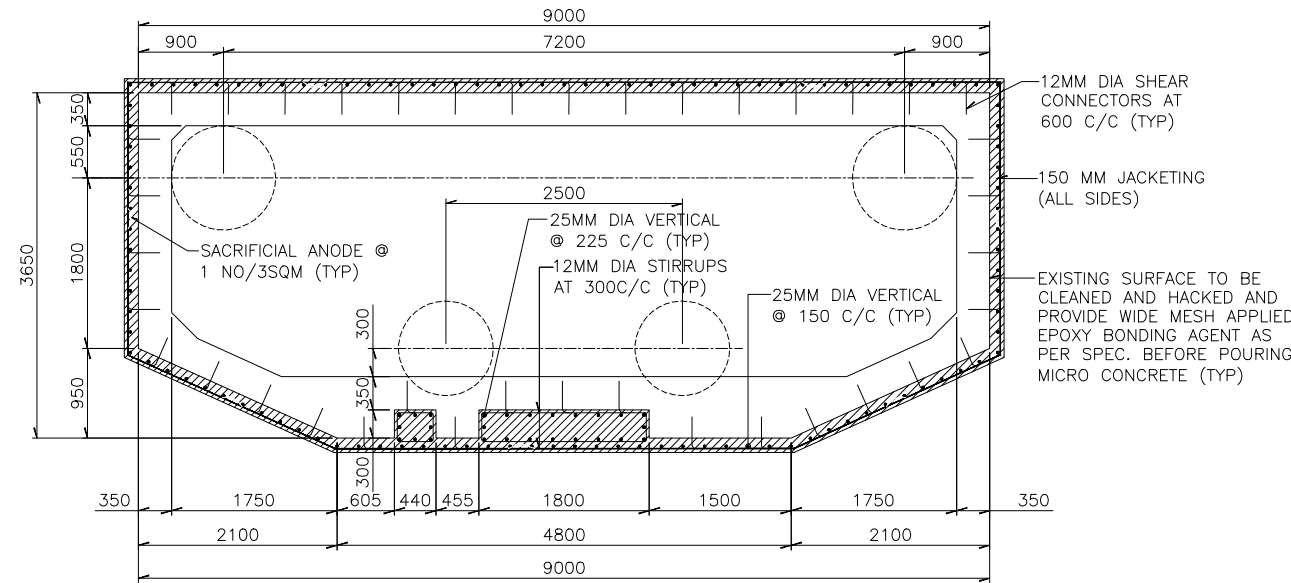
MUFF DETAIL FOR
1200MM DIA COLUMN
1:50



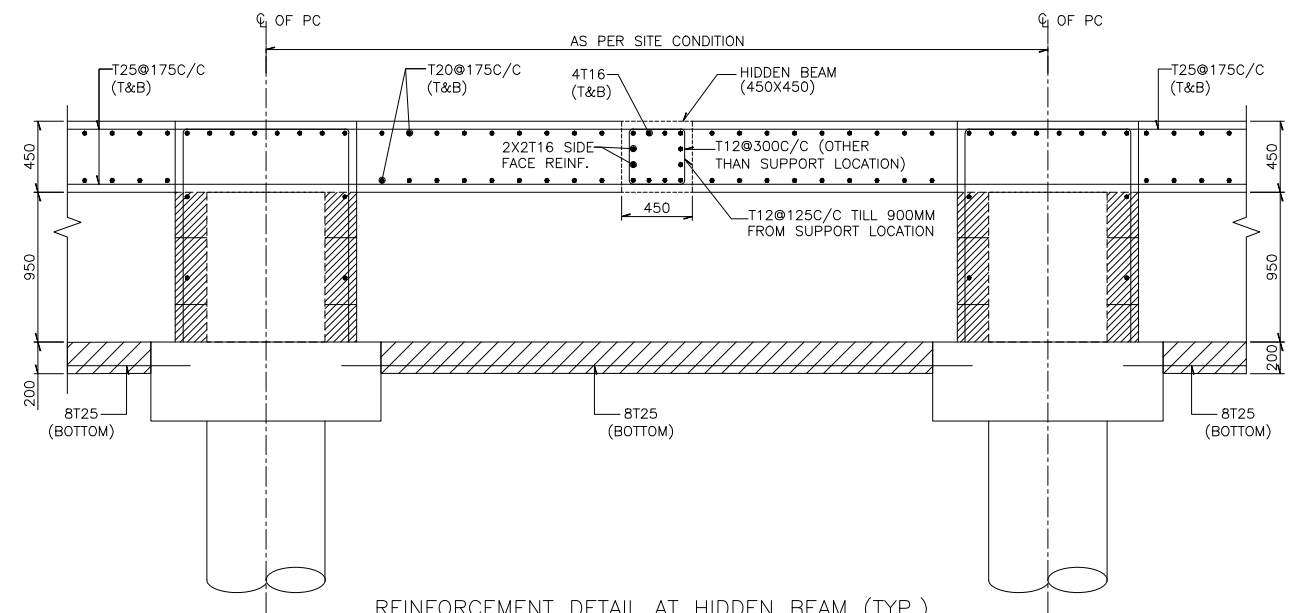
FOR THE PILES WITHOUT PILE CAP
CROSS SECTION FOR NEW PILE CAP
& RETROFITTING OF PILE
(FOR PILE 1000MMØ)
REINFORCEMENT DETAIL
1:25



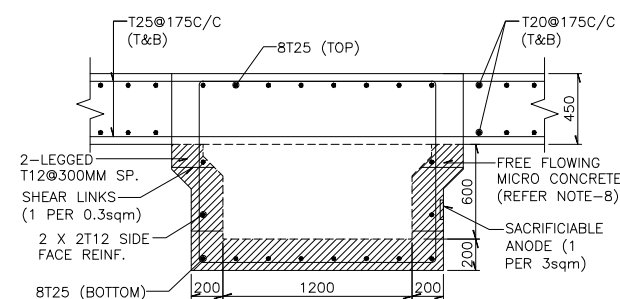
MUFF DETAIL FOR
1000MM DIA COLUMN
1:50



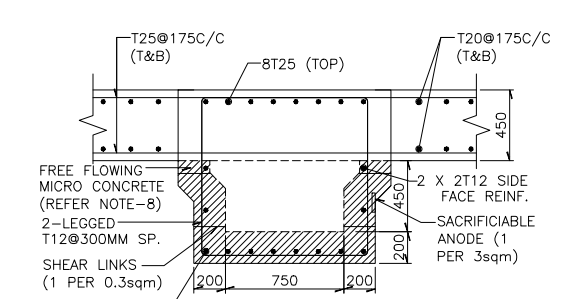
FENDER COLUMN REINFORCEMENT DETAIL
1:50



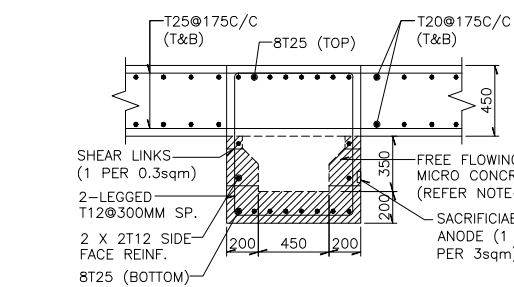
REINFORCEMENT DETAIL AT HIDDEN BEAM (TYP.)
(REINFORCEMENT MAY BE ADJUSTED ACCORDING
TO SITE CONDITION)
1:25



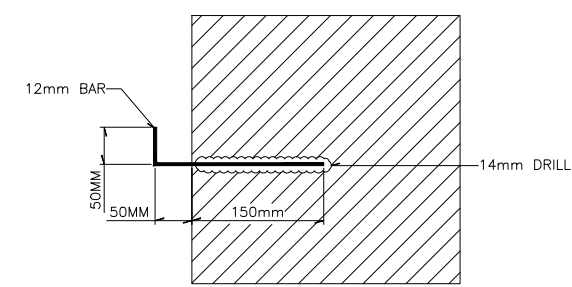
REINFORCEMENT DETAIL AT CRANE BEAM-B1
(REINFORCEMENT MAY BE ADJUSTED ACCORDING
TO SITE CONDITION)
1:25



REINFORCEMENT DETAIL AT MAIN BEAM-B2/B3
(REINFORCEMENT MAY BE ADJUSTED ACCORDING
TO SITE CONDITION)
1:25



REINFORCEMENT DETAIL AT SECONDARY BEAM-B4
(REINFORCEMENT MAY BE ADJUSTED ACCORDING
TO SITE CONDITION)
1:25



POSITIONING OF SHEAR
CONNECTORS
(PER 0.3M²)
1:25

LEGEND:—



- (TYP) _____ TYPICAL
T&B _____ TOP AND BOTTOM
C/C _____ CENTER TO CENTER
THK _____ THICKNESS
EL _____ ELEVATION
TOC _____ TOP OF CONCRETE
TOPC _____ TOP OF PILE CAP
BOPC _____ BOTTOM OF PILE CAP
MSL _____ MEAN SEA LEVEL
TOP _____ TOP OF POLYMER
CB _____ CRANE BEAM
LB _____ LONGITUDINAL BEAM
TB _____ TRANSVERSE BEAM

NOTES:

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED AND ALL ELEVATIONS ARE IN METERS WITH RESPECTIVE TO CHART DATUM
- GRADE OF CONCRETE MIX SHALL BE M-40 CONFIRMING TO IS 456-2000.
- REINFORCEMENT SHALL BE OF HIGH YIELD STRENGTH DEFORMED BARS OF GRADE FE 500D CONFIRMING TO IS 1786-2007.
- BAR BENDING SCHEDULE OF ALL REINFORCEMENT SHALL BE PREPARED AT SITE BY THE VENDOR
- UNLESS OTHERWISE MENTIONED DEVELOPMENT LENGTH SHALL BE TAKEN AS 45 X DIAMETER.
- NOT MORE THAN 50% OF REINFORCEMENT BARS SHALL BE LAPPED AT A PARTICULAR SECTION.
- CLEAR COVER TO ALL REINFORCEMENT (INCLUDING LINKS) IN VARIOUS RCC ELEMENTS SHALL BE TAKEN FOLLOWS
A. PILE CAP = 75MM
B. OTHER RCC MEMBERS = 50MM
C. FENDER COLUMN = 75MM
- EXISTING SURFACE TO BE CLEANED AND HACKED AND PROVIDE GALVANIZED WELD MESH APPLY EPOXY BONDING AGENT AS PER SPEC BEFORE POURING MICRO CONCRETE (TYP)
ANCHOR LENGTH 250MM
(DESIGN REQUIREMENT, ANCHOR LENGTH FOR REINFORCEMENT 450MM, HOWEVER, THAT SHALL BE 250MM AT SITE, DUE TO PRACTICAL CONSTRAINTS CLAIMED).
- SHEAR CONNECTOR -1NO. FOR 0.3M² SURFACE AREA OF THE BEAMS, COLUMNS AND PILE CAPS.
- SACRIFICIAL ANODE -1NO. PER 3M² SURFACE AREA OF BEAMS, COLUMNS, PILE CAPS AND DECK SLAB.
- ALL REINFORCEMENT SHALL BE CONFIRMING TO IS13920- 2016 DUCTILE CODE.

NOTE:

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH OLD DRAWINGS OF EXISTING STRUCTURE AND CONFIRM THE SAME WITH SITE CONDITION BEFORE THE START OF WORK.

| REV. | DATE | DESCRIPTION | DESIGN | CHKD | APPD |
|-------------------------|---|-------------|--------|------|------|
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| ENGINEERING CONSULTANT: |  INDIAN INSTITUTE OF TECHNOLOGY BOMBAY | | | | |
| CLIENT NAME: |  DEENDAYAL PORT AUTHORITY KANDLA, GUJARAT | | | | |
| PROJECT NAME: | CONDITIONAL ASSESSMENT MODIFICATION & STRENGTHENING OF EXISTING CARGO BERTHS 7 TO 10, DPT | | | | |
| TITLE: | DETAILED SECTION REINFORCEMENT DRAWING FOR CB-10 (PANEL NO. 77 TO 85) | | | | |
| DRAWN: AS | DRAWING NO. | REVISION | | | |
| SCALE: AS SHOWN | IITB_DPT_GFC_10003 | | | | - |