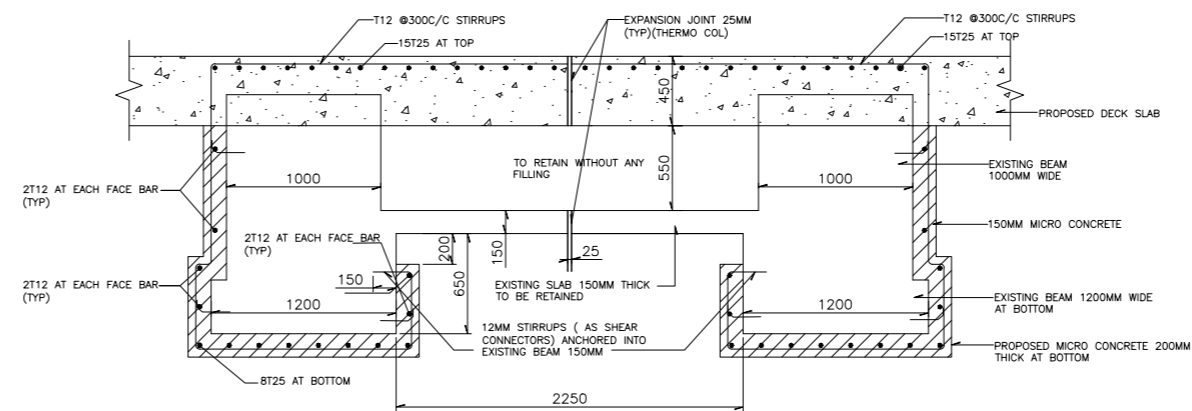
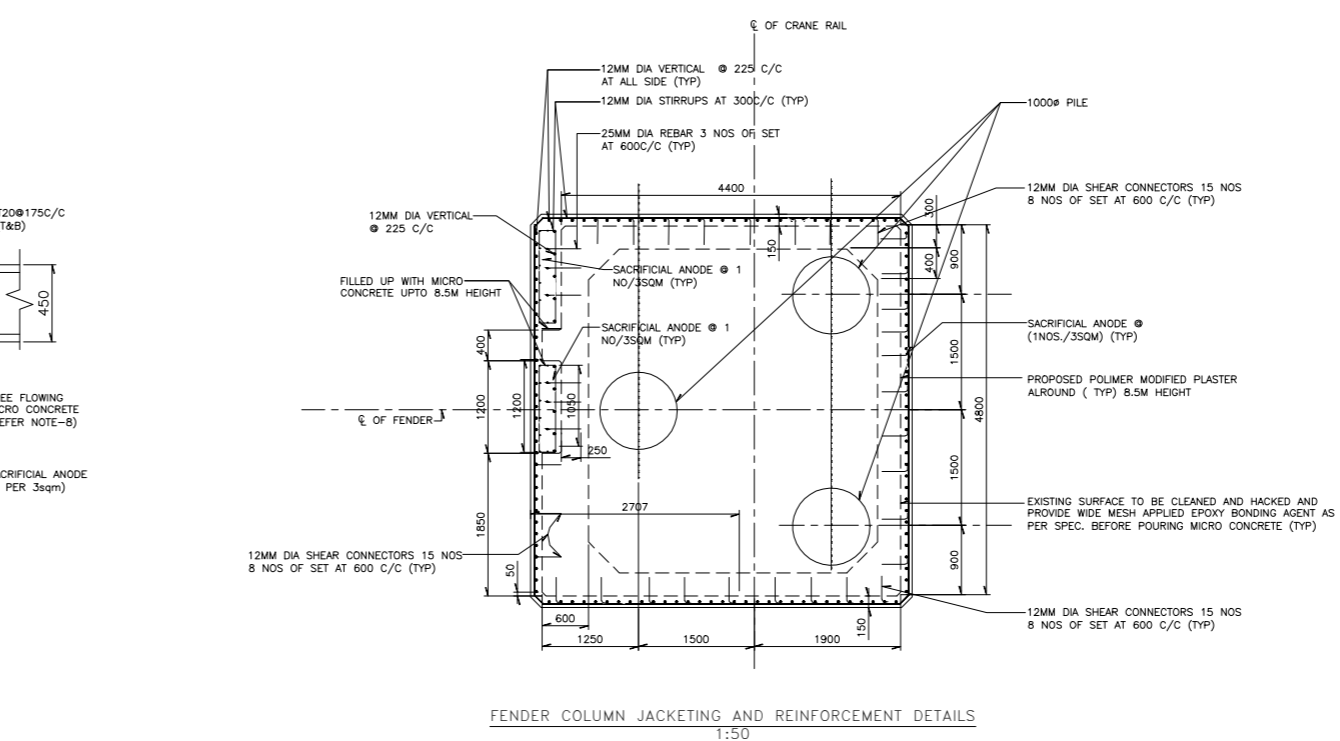


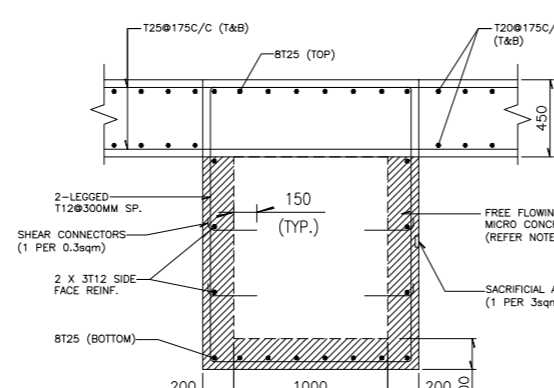
FOR THE PILES WITHOUT PILE CAP
CROSS SECTION FOR NEW PILE CAP & RETROFITTING OF PILE
REINFORCEMENT DETAIL
1:25



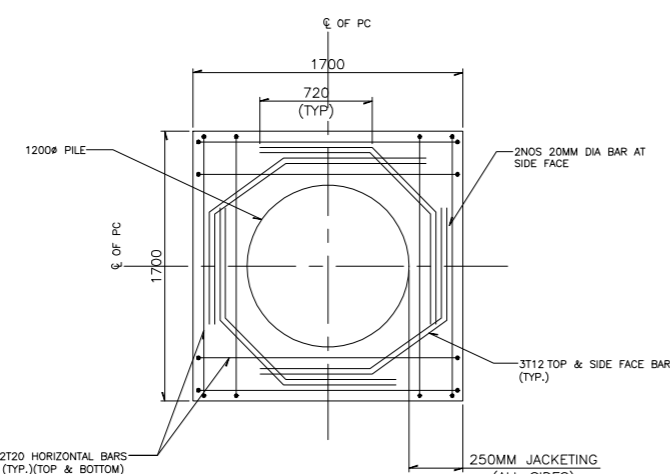
TYPICAL DETAILS OF EXISTING CABLE TRENCH FILLING AT
END OF PANELS (7-1 GRID)
(RETROFITTING)
1:25



FENDER COLUMN JACKETING AND REINFORCEMENT DETAILS
1:50



REINFORCEMENT DETAIL AT BEAM



MUFF DETAIL FOR 1200MM DIA COLUMN

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED AND ALL ELEVATIONS ARE IN METERS WITH RESPECTIVE TO CHART DATUM
2. GRADE OF CONCRETE MIX SHALL BE M-40 CONFIRMING TO IS 456-2000.
3. REINFORCEMENT SHALL BE OF HIGH YIELD STRENGTH DEFORMED BARS OF GRADE FE 500D CONFIRMING TO IS 1786-2007.
4. BAR BENDING SCHEDULE OF ALL REINFORCEMENT SHALL BE PREPARED AT SITE BY THE VENDOR
5. UNLESS OTHERWISE MENTIONED DEVELOPMENT LENGTH SHALL BE TAKEN AS $45 \times$ DIAMETER.
6. NOT MORE THAN 50% OF REINFORCEMENT BARS SHALL BE LAPPED AT A PARTICULAR SECTION.
7. 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
8. EXISTING SURFACE TO BE CLEANED AND HACKED AND PROVIDE GALVANIZED WELD MESH APPLY EPOXY BONDING AGENT AS PER SPEC BEFORE POURING MICRO CONCRETE (TYP)
9. ANCHOR LENGTH 250MM
(DESIGN REQUIREMENT, ANCHOR LENGTH FOR REINFORCEMENT 450MM, HOWEVER, THAT SHALL BE 250MM AT SITE, DUE TO PRACTICAL CONSTRAINTS CLAIMED).
10. STEEL CONNECTOR -1NO. FOR $0.3M^2$ SURFACE AREA OF THE BEAMS, COLUMNS AND PILE CAPS.
11. SACRIFICIAL ANODE -1NO. PER $3M^2$ SURFACE AREA OF BEAMS, COLUMNS, PILE CAPS AND DECK SLAB.
12. ALL REINFORCEMENT SHALL BE CONFIRMING TO IS13920 2016 DUCTILE CODE.

(TYP) ----- TYPICAL
T&B ----- TOP AND BOTTOM
C/C ----- CENTER TO CENTER
THK ----- THICKNESS
EL ----- ELEVATION
TOPC ----- TOP OF PILE CAP
BOPC ----- BOTTOM OF PILE CAP
MSL ----- MEAN SEA LEVEL

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	CHK'D	APP'D
ENGINEERING CONSULTANT					



INDIAN INSTITUTE OF TECHNOLOGY
BOMBAY

CLIENT NAME

DEENDAYAL PORT AUTHORITY
KANDLA, GUJARAT

PROJECT NAME	
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ONAL ASSESSMENT MODIFICATION & STRENGTHENING OF EXISTING CARGO BERTHS 7 TO 10, DPT

TITLE	DETAILED SECTION REINFORCEMENT DRAWING FOR CB-7(PANEL 51 TO 55)
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DRAWN: AS
SCALE: AS S

DWG No.	IITB_DPT_GFC_7003
SHOWN	

REV
R0

R. Balaji