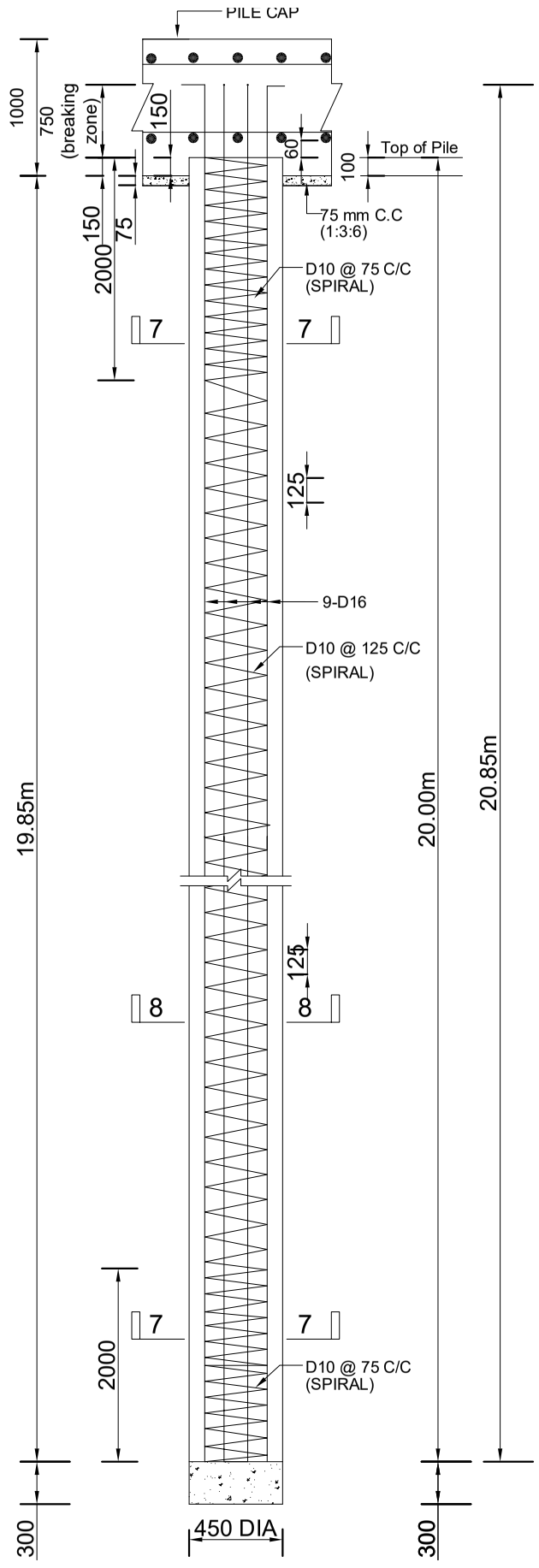
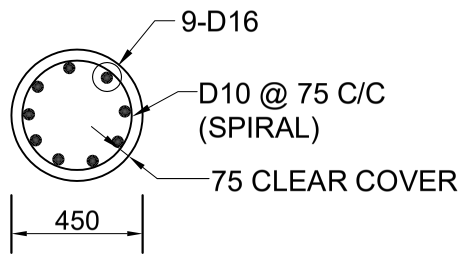
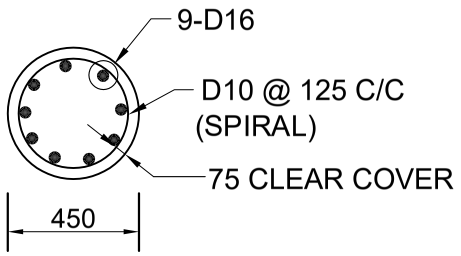


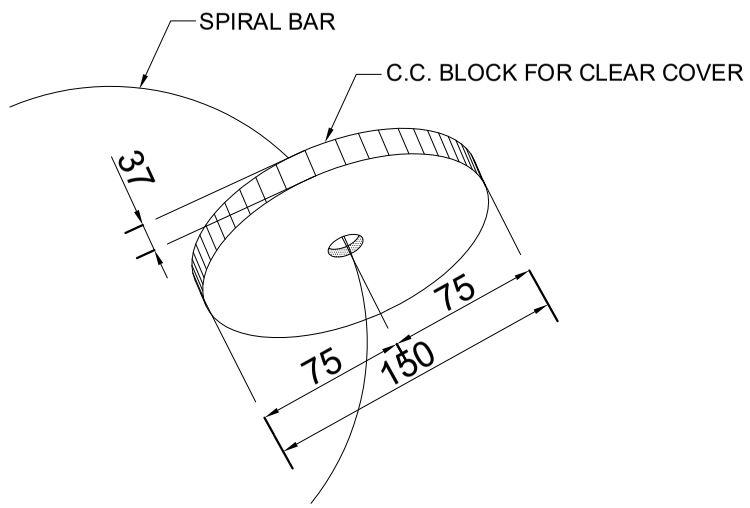
LONG SECTION OF CAST-IN-SITU PILE UNDER EACH ABUTMENT & WING WALL



SECTION 7-7



SECTION 8-8



C.C. BLOCK DETAIL FOR CLEAR COVER

NOTE FOR PILES ONLY :

1. ULTIMATE COMPRESSIVE STRENGHT OF CONCRETE , f 'c= 22 N/ sq. mm.
2. SUGGESTIVE MIXING RATIO SHALL BE 1:1.5:3 WITH SHINGLES (ITEM CODENO. 44-120-20).
3. ALL REINFORCEMENT FOR PILES SHALL BE DEFORMED BAR OF 400 N/ sq. mm.
4. THE MINIMUM LENGTH FOR BREAKING PILE HEAD IS 750 mm.
5. PILE HEAD SHALL BE BROKEN CAREFULLY SO THAT NO FRACTURE CAN BE DEVELOPED AT MAIN PORTION OF PILE. PILE HEAD BROKEN PERIOD AFTER 28 DAYS FROM CASTING.
6. CLEAR COVER TO STEEL REINFORCEMENT FOR PILE SHALL BE 75 mm.
7. ALL PILES SHALL BE CONSTRUCTED VERTICAL.
8. SPOT WELDING AT CONTACT POINT OF THE SPIRAL BINDERS MUST BE DONE AS PER ITEM CODE NO. 44-150.
9. LAPPING LENGTH OF VERTICAL REINFORCEMENT SHALL BE 40 TIMES THE BAR DIAMETERS FOR WELDING
10. DURING CASTING OF CONCRETE, TRIMEE PIPE SHOULD BE AT LEAST 0.6 m WITHIN THE CONCRETE. THE LENGTH OF TRIMEE PIPE SHOULD BE SAME AS LENGTH OF BORING PIPE.
11. NO PILE SHALL BE BORED WITHIN 3000 mm C/C DISTANCE BEFORE 24 HOURS OF CASTING OF A PARTICULAR PILE.
12. CONCERNED EXECUTIVE ENGINEER, SUB-DIVISIONAL ENGINEER AND OTHER CONCERNED OFFICERS SHALL STRICTLY SUPERVISE THE CAST-IN-SITU PILE CONSTRUCTION AND ENSURE THAT THE WORKS ARE CARRIED OUT AS PER SPECIFICATION INCLUDING DIAMETER AND LENGTH OF PILES.
13. STATIC LOAD TEST UPTO 450 KN OF TEST LOAD FOR ABUTMENT PORTION SHALL BE PERFORMED FOR AT LEAST 1 (ONE) PILE IN EACH ABUTMENT AND TEST RESULT SHALL BE SENT TO THE DESIGN CIRCLE.
14. STILL PICTURES OF LOAD TEST APPARTUS AND EACH LOAD EMPLACEMENT INCLUDING DIAL GAUGE READING WITH DATE TIME STAMP AS WELL AS VIDEO OF ACTUAL LOADING SEQUENCE WITH TIME STAMP SHALL BE SENT TO THE DESIGN CIRCLE.
15. REINFORCING BAR SHALL BE SUPPORTED IN ITS PROPER POSITION BY USE OF MORTER BLOCKS, SUPPORTS OR BY OTHER APPROVED MEANS.
16. THE TOP LEVEL OF PILE HEAD SHOULD BE PROJECTED INTO THE PILE CAP NOT LESS THAN 150MM AND ALL DAMAGED PILE MATERIAL ARE TO BE REMOVED.
17. AFTER BREAKING OF PILE HEADS, EXPOSED REINFORCEMENT SHALL BE PROVIDED INTO THE PILE CAP.
18. THE CONCRETE SHALL BE PLACED BY 200 mm DIA TREMIE PIPE FROM THE BOTTOM OF THE HOLE TO DISPLACE WATER. THE TREMIE DISCHARGE SHALL BE KEPT WELL INTO THE CONCRETE AND CAREFULLY WITHDRAWN AS THE CONCRETE IS PLACED.

BANGLADESH WATER DEVELOPMENT BOARD

Office of the Superintending Engineer
Design Circle-8

Design of R.C.C Bridge Over Kalisankorpur khal in C/W Rehabilitation o Madhumoti-Nabaganga Sub-Projec and Re-excavation/Dredging of Nabang River to Revival and Conservation of Environmental Balance in Lohagora Upazila of Narail District under Narail O&M Division, BWDB Narail.

Details of Cast-in-situ Piles with reinforcement & Notes for Pile

DESIGNED BY :	RECOMMENDED BY :
CHECKED BY :	APPROVED BY :

Scale: Not To Scale