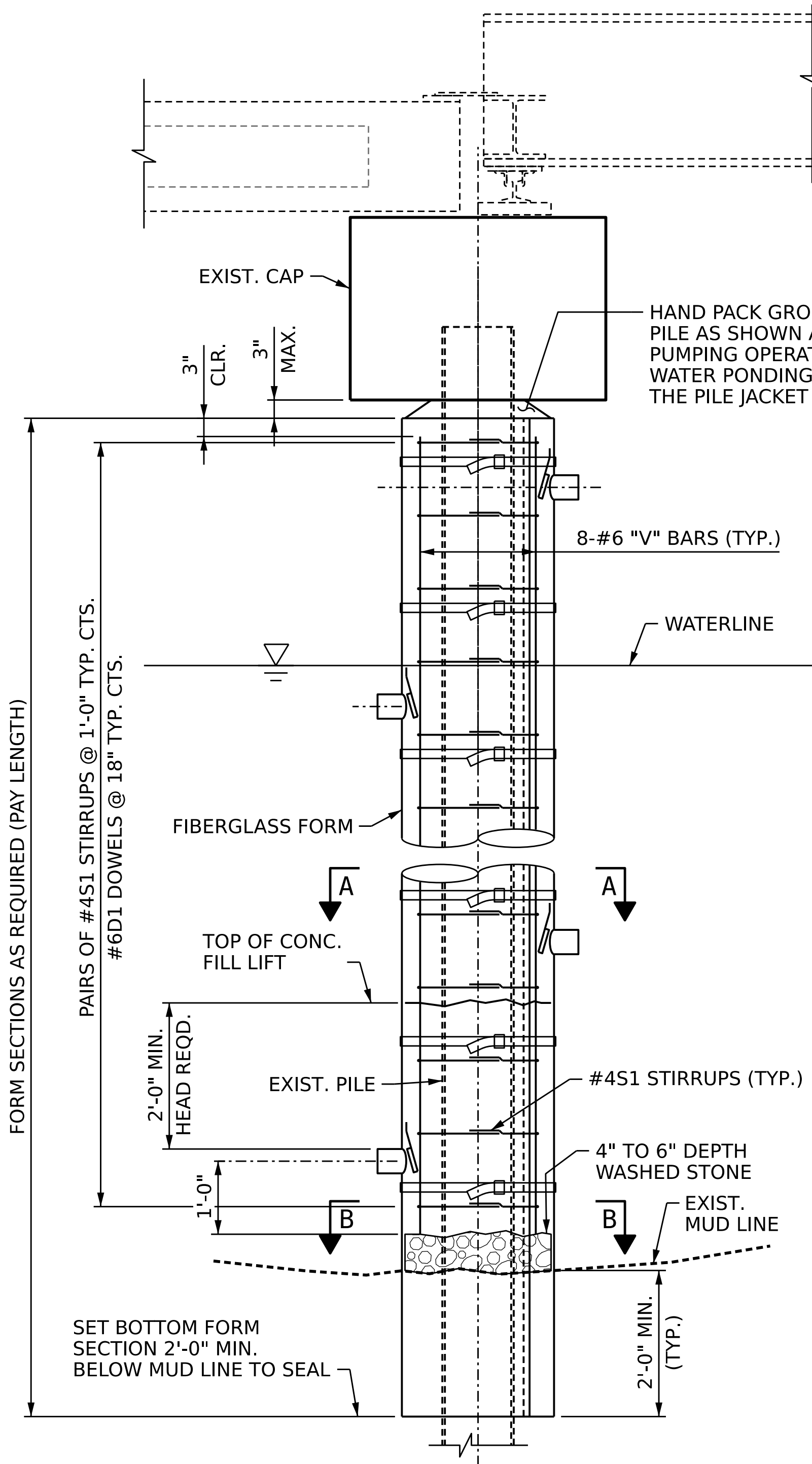
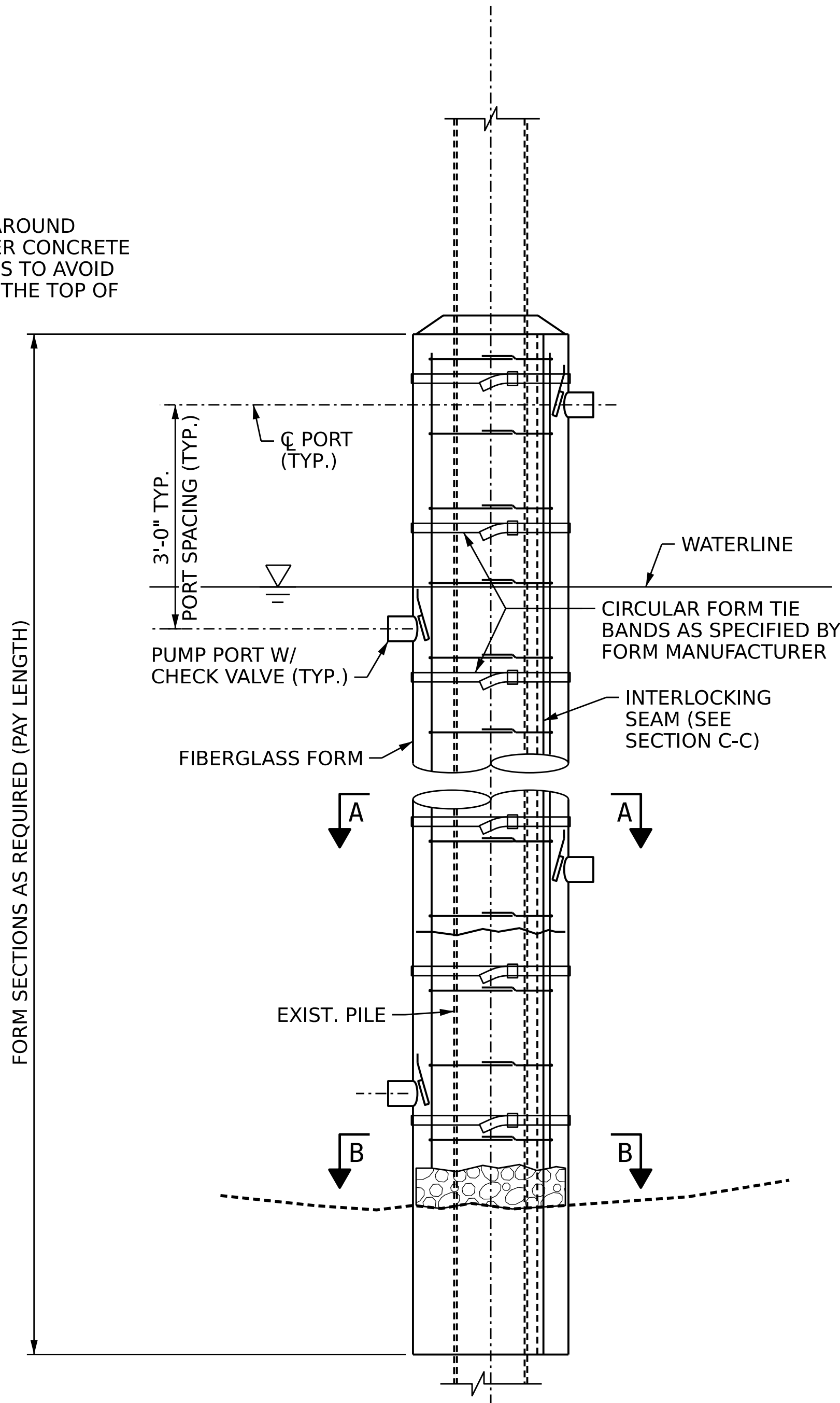




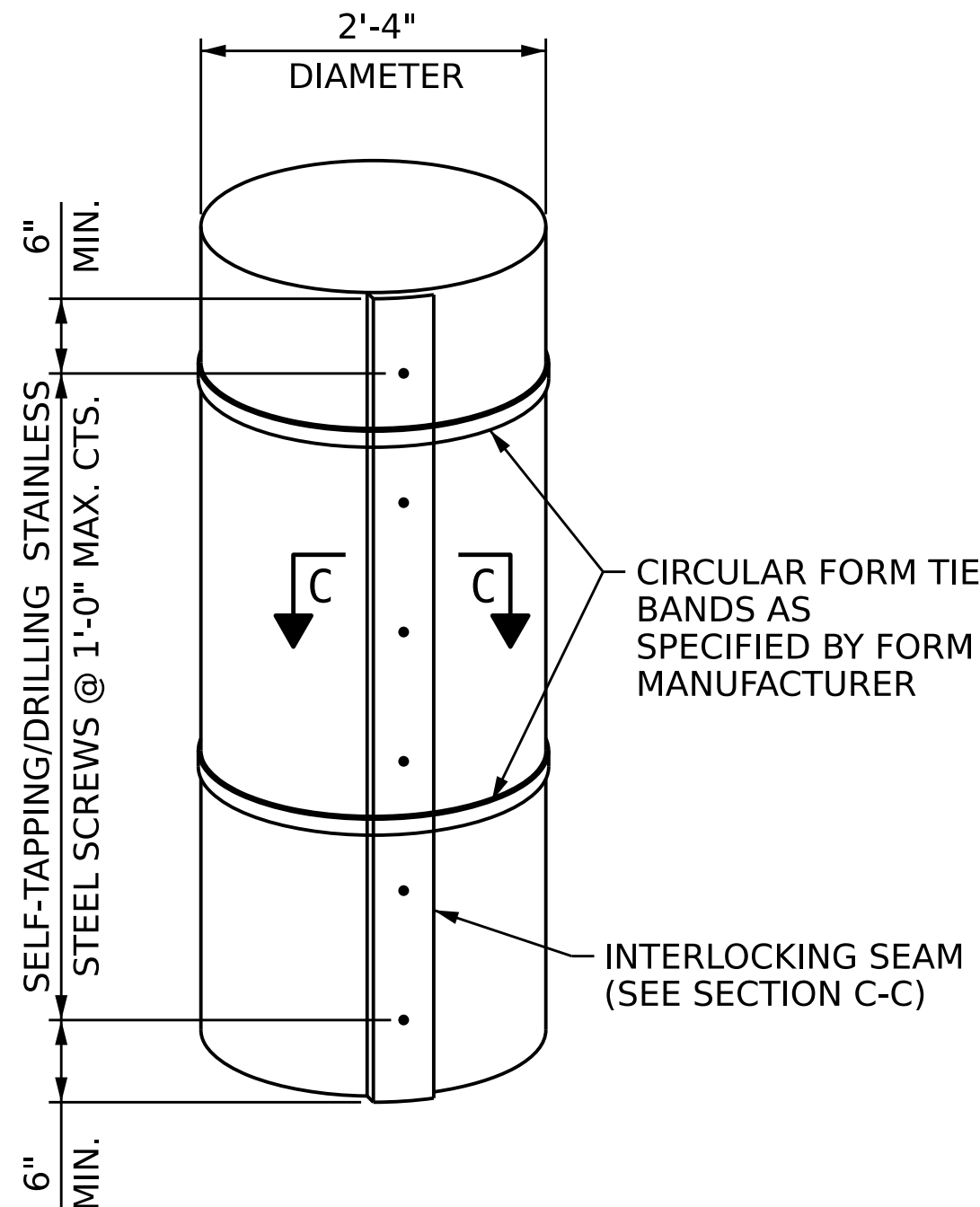
DETAIL AT BENT 2
(FOR CALLOUTS AND DIMENSIONS NOT SHOWN, SEE "DETAIL AT LIFT BENT")

FRP PILE JACKET DETAILS

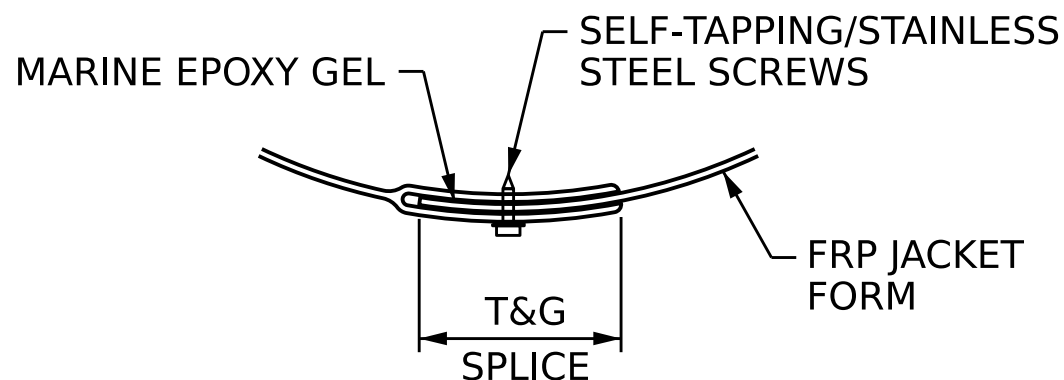
(STEEL PILE REPAIRS NOT SHOWN)



DETAIL AT LIFT BENT
(FOR CALLOUTS AND DIMENSIONS NOT SHOWN, SEE "DETAIL AT BENT BENT 2")

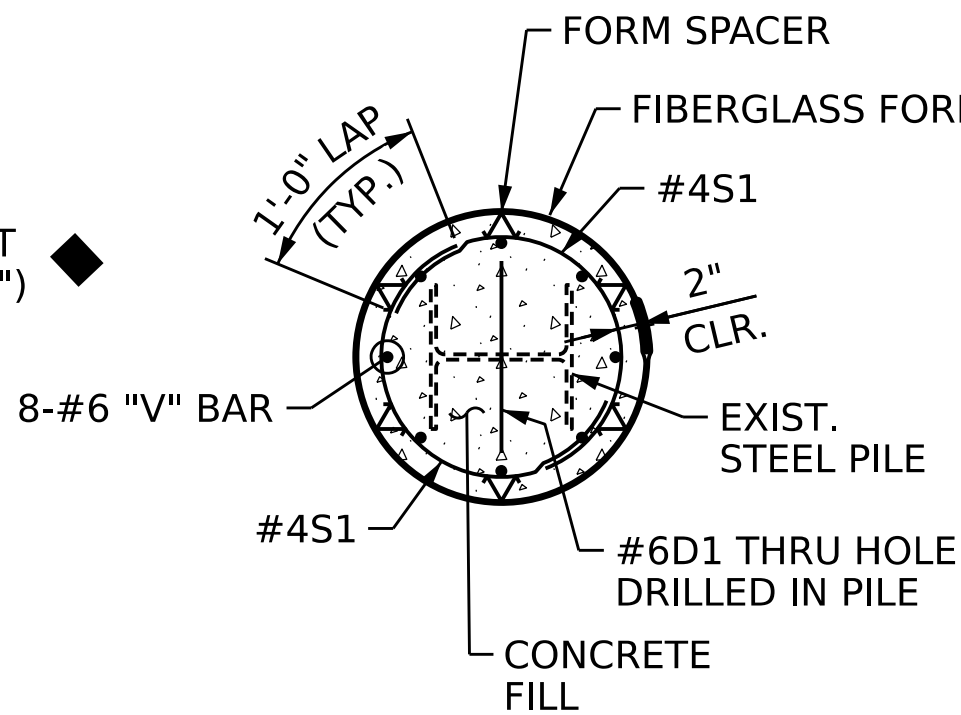


FRP PILE JACKET FORM

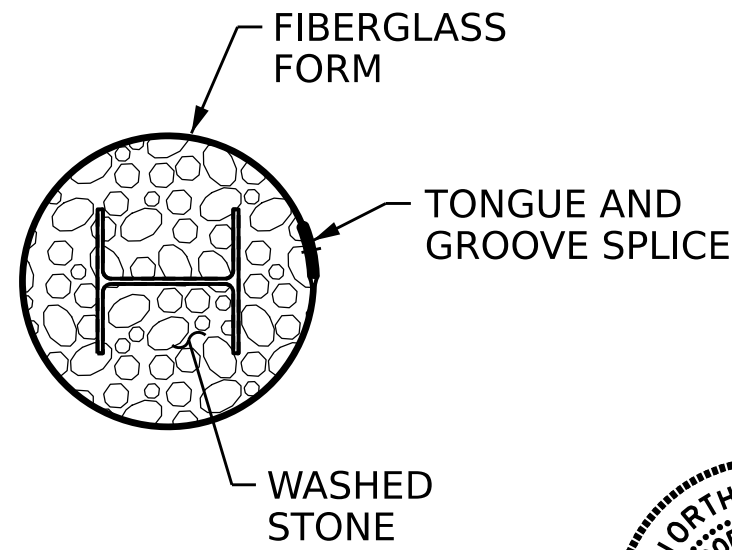


SECTION C-C

INTERLOCKING SEAM DETAIL



SECTION A-A



SECTION B-B

JACKET NOTES

FOR PILE JACKETS, SEE SPECIAL PROVISIONS.

CONCRETE AND REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 AND SHALL BE EPOXY COATED IN ACCORDANCE WITH ASTM A775.

SURFACES OF PILES TO BE ENCASED IN CONCRETE SHALL BE CLEANED AS DESCRIBED IN SPECIAL PROVISIONS. CLEANING MUST BE DONE IMMEDIATELY BEFORE FORMS ARE INSTALLED.

SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL SHOWING ALL FASTENING DETAILS, STANDOFFS, FORMS AND ANY OTHER DEVICES NECESSARY TO SECURE THE FORMS SO THAT CONCRETE MAY BE PLACED IN A CONTINUOUS OPERATION COMPLETELY ENCAPSULATING THE PILES.

FORMS FOR JACKET SHALL BE INSTALLED IN ACCORDANCE WITH APPROVED SHOP DRAWINGS. BOTTOM SEAL SHALL BE WATER TIGHT.

DETAILS OF PUMP PORTS WITH CHECK VALVE SHALL BE DETERMINED BY SUPPLIER.

CONCRETE AT THE TOP OF THE JACKET SHALL BE DOMED TO PREVENT PONDING. THE INTERFACE OF THE PILE AND THE CONCRETE AT THIS LOCATION SHALL BE SEALED WITH AN APPROVED SEALANT.

REPAIR SEQUENCE

- REMOVE LOOSE RUST AND MARINE GROWTH FROM THE EXISTING STEEL PILE TO OBTAIN A CLEAN, SOUND SURFACE PRIOR TO PERFORMING STEEL REPAIRS AND PILE JACKETING. USING APPROVED MECHANICAL MEANS OR HIGH-PRESSURE WATER BLASTING.
- COMPLETE STEEL PILE REPAIRS AS SHOWN ON OTHER SHEETS.
- DETERMINE FIBERGLASS JACKET FORM HEIGHT. MINIMUM HEIGHT IS 2 FT ABOVE AND BELOW CLEAN, SOUND AND CONTAMINANT-FREE SURFACES.
- BUILD THE REINFORCING BAR CAGE BY PLACING THE #4 STIRRUPS AND VERTICAL REINFORCING STEEL AROUND THE PILE IN ACCORDANCE WITH THE DETAILS.
- INSTALL FORM SPACERS TO INSURE ADEQUATE CONCRETE COVER AT ALL PARTS OF THE SLEEVE.
- INSTALL THE FIBERGLASS JACKET FORMS. THE FIBERGLASS JACKET FORMS SHALL COMPLETELY ENCIRCLE THE PILES TO PROVIDE THE CONCRETE COVER AND CLEARANCES AS SHOWN IN SECTION A-A. THE FIBERGLASS JACKET FORMS SHALL BE SIZED TO INCLUDE AN OVERLAPPING FULL HEIGHT INTERLOCKING SEAM. SEE "PILE JACKET JOINT DETAIL".
- INSERT CONCRETE PUMP HOSE THRU TOP OF JACKET AND EXTEND TO JUST ABOVE THE BOTTOM OF THE FIBERGLASS JACKET FORM. PUMP CONCRETE INTO FORM TO THE DESIRED FILL ELEVATION. IF SITE CONDITIONS PROHIBIT INSERTING PUMP HOSE THRU TOP OF JACKET, THEN INSTALL PUMP PORTS ALONG HEIGHT OF JACKET AS REQUIRED AND PLACE CONCRETE AS SHOWN IN THE DETAILS.
- INSTALL PUMP PORTS IN JACKET AS REQUIRED FOR UNDERWATER APPLICATIONS. PORTS SHOULD HAVE A CHECK VALVE TO PREVENT BACK FLOW OF CONCRETE ONCE PUMP NOZZLE IS REMOVED. FOR CONCRETE PLACEMENTS GREATER THAN 5 FT HIGH USE MULTIPLE PORTS SPACED 3 FT VERTICALLY AND ALTERNATING 180 DEGREES FROM PREVIOUS PORT. A MINIMUM OF 2 FT OF CONCRETE HEAD IS NEEDED ABOVE PORT PRIOR TO CHANGING PORTS.

PROJECT NO. **15BPR.164**
BEAUFORT COUNTY
TERMINAL: **BAYVIEW**

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

FRP PILE JACKET DETAILS

REVISIONS						SHEET NO. S2-07
NO.	BY:	DATE:	NO.	BY:	DATE:	
1	--	--	3	--	--	TOTAL SHEETS
2	--	--	4	--	--	34



DAVID KNICKERBOCKER

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UNLESS ALL SIGNATURES COMPLETED



HDR Engineering, Inc. of the Carolinas
555 Fayetteville St., Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

DES BY: B. BINOWSKI DATE: 11/2025
DES CHK: D. KNICKERBOCKER DATE: 11/2025
DWG BY: B. PETERSON DATE: 11/2025
CHK BY: D. KNICKERBOCKER DATE: 11/2025