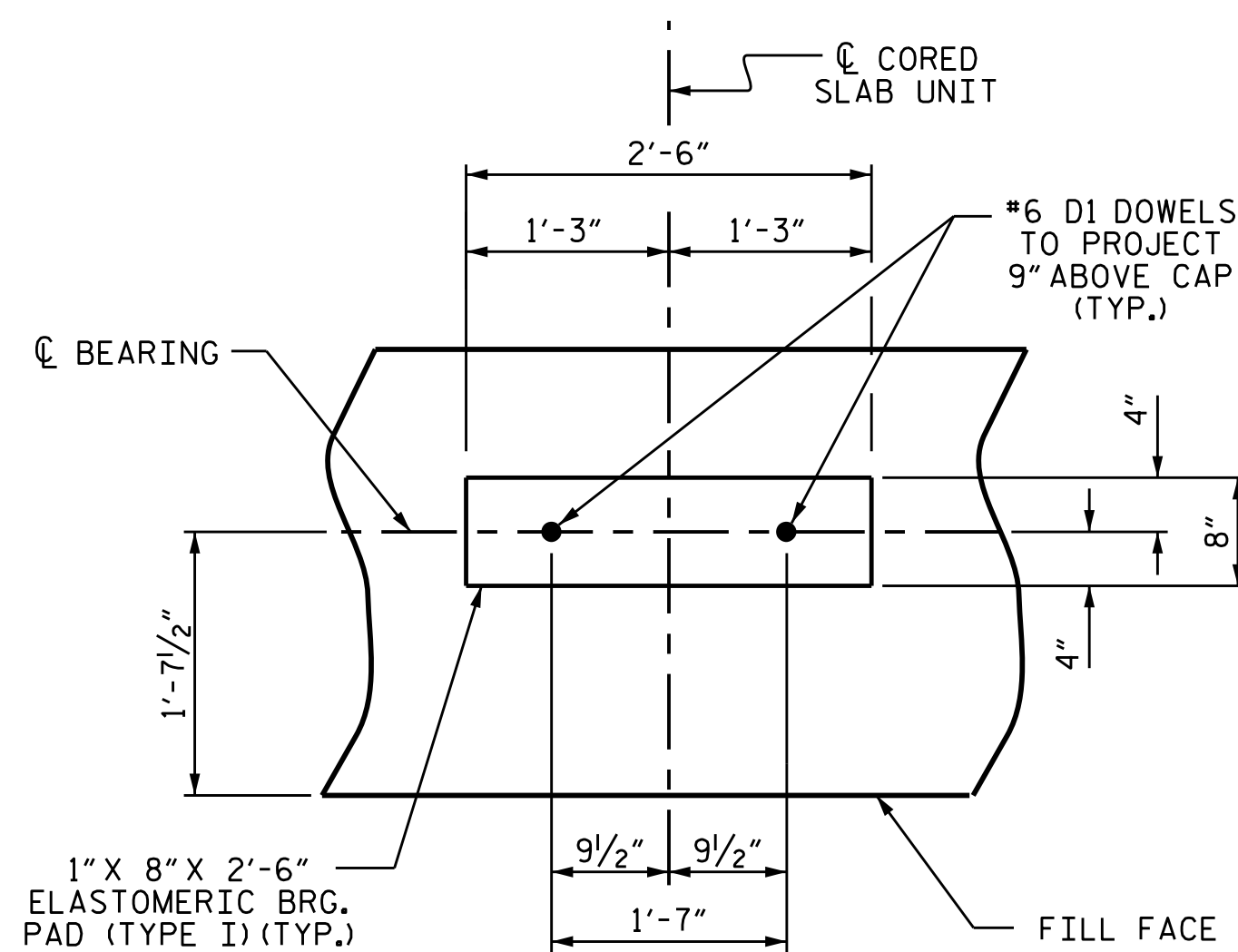


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

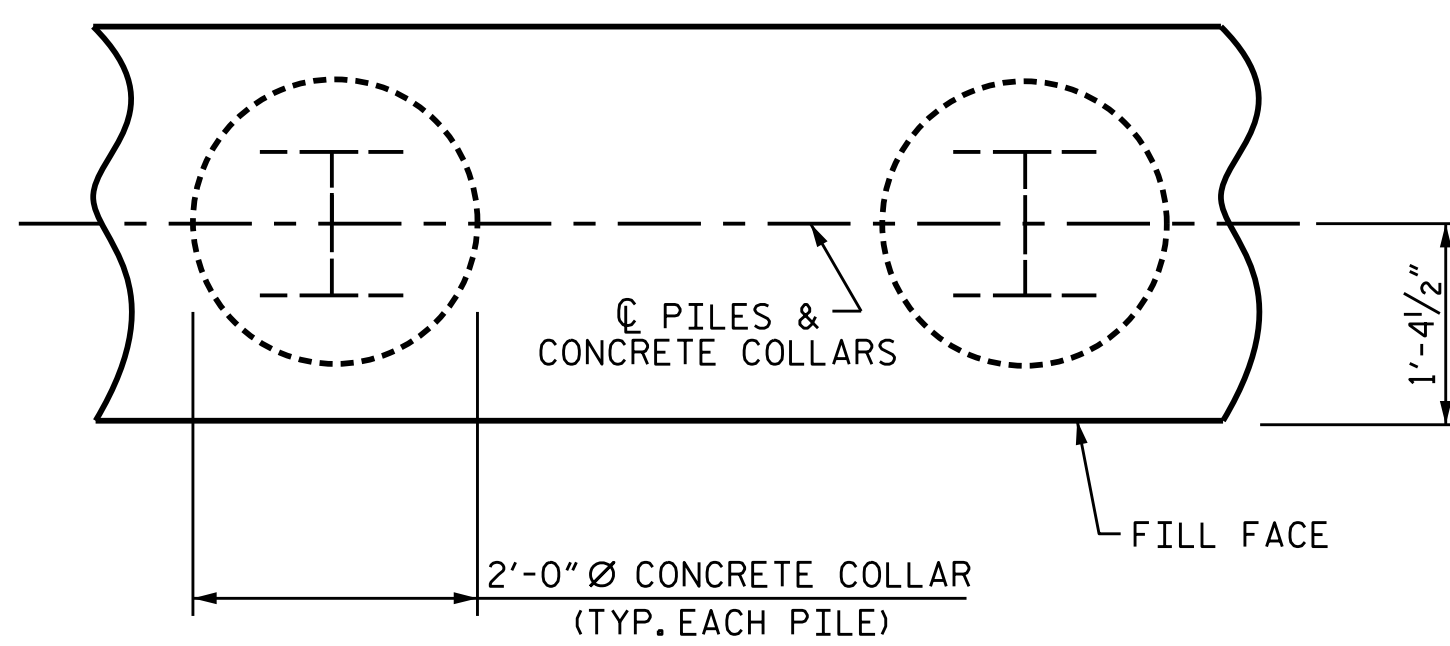
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR EFFECTIVENESS.

NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

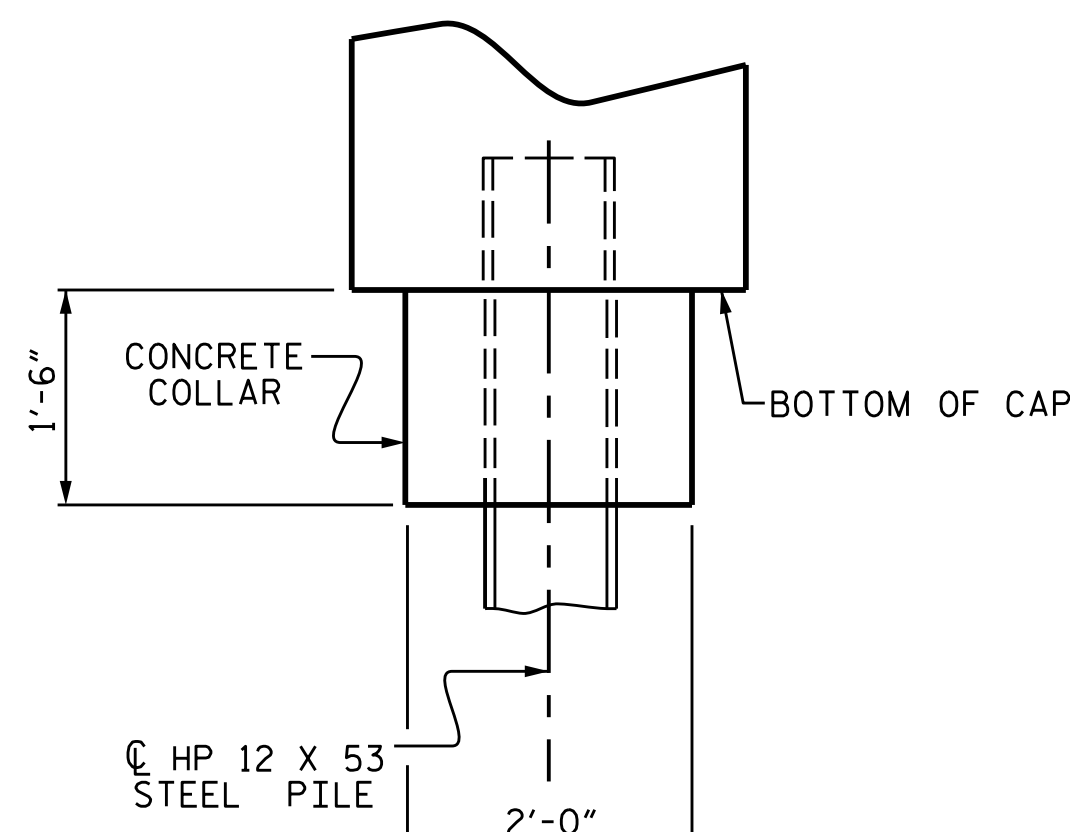
TEMPORARY DRAINAGE AT END BENT



DETAIL "A"

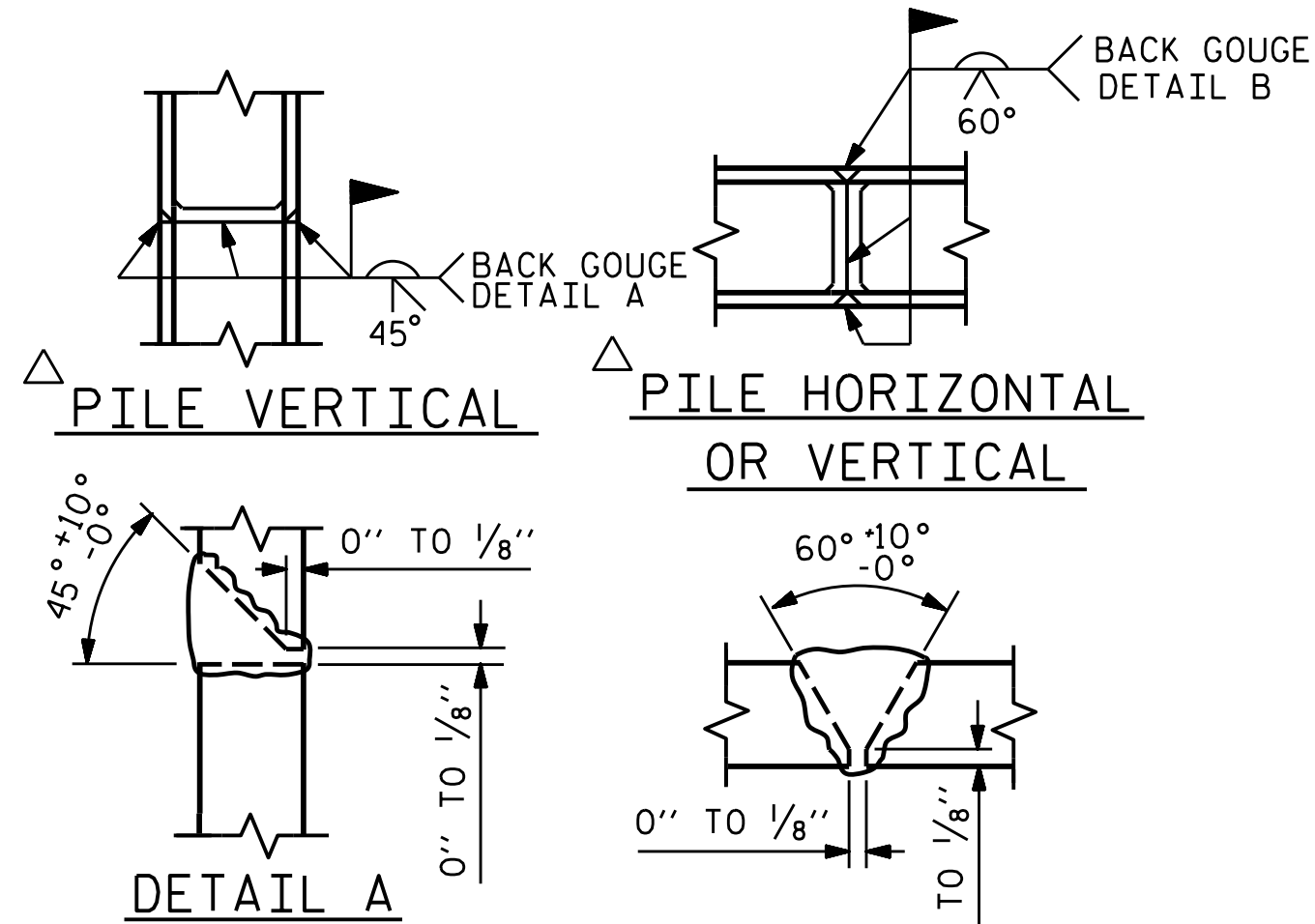


PLAN



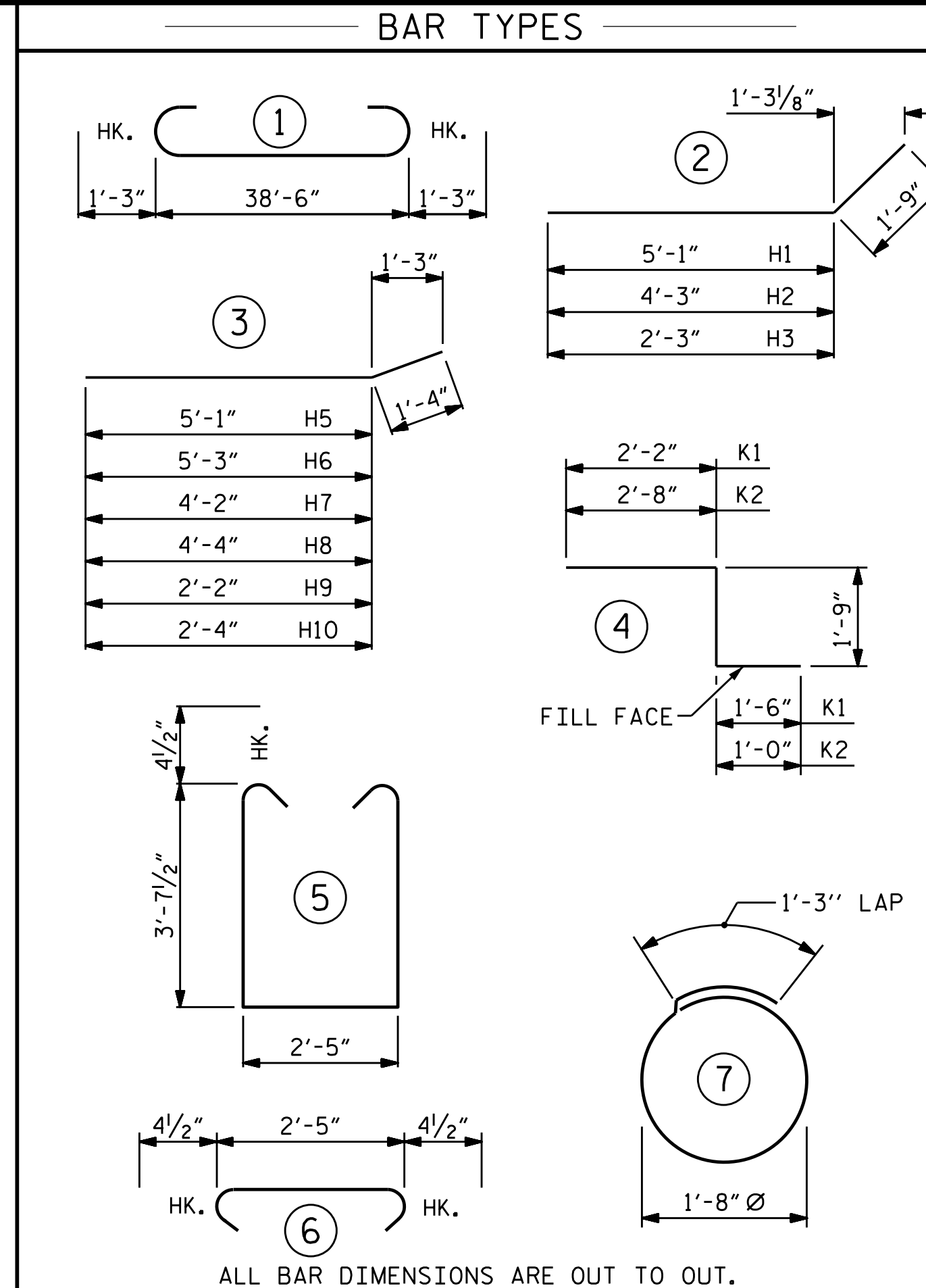
ELEVATION

CORROSION PROTECTION FOR STEEL PILES DETAIL



POSITION OF PILE DURING WELDING.

PILE SPLICE DETAILS



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

END BENT No. 1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#9		41'-0"	1115
B2	28	#4	STR	20'-7"	385
B3	10	#4	STR	2'-5"	16
D1	22	#6	STR	1'-6"	50
H1	12	#4	2	6'-10"	55
H2	2	#4	2	6'-0"	8
H3	2	#4	2	4'-0"	5
H4	4	#4	STR	5'-6"	15
H5	6	#4	3	6'-5"	26
H6	6	#4	3	6'-7"	26
H7	1	#4	3	5'-6"	4
H8	1	#4	3	5'-8"	4
H9	1	#4	3	3'-6"	2
H10	1	#4	3	3'-8"	2
K1	6	#4	4	5'-5"	22
K2	6	#4	4	5'-5"	22
S1	50	#4	5	10'-5"	348
S2	50	#4	6	3'-2"	106
S3	28	#4	7	6'-6"	122
V1	29	#4	STR	6'-2"	119
V2	4	#4	STR	6'-0"	16
V3	4	#4	STR	5'-8"	15
V4	4	#4	STR	5'-2"	14
V5	4	#4	STR	4'-8"	12
V6	4	#4	STR	4'-2"	11
V7	4	#4	STR	3'-8"	10

REINFORCING STEEL 2530 LBS.

CLASS A CONCRETE BREAKDOWN

POUR #1	CAP, LOWER PART OF WINGS & COLLARS	19.5 C.Y.
POUR #2	UPPER PART OF WINGS	1.7 C.Y.
TOTAL	CLASS A CONCRETE	21.2 C.Y.

HP 12 X 53 STEEL PILES

NO: 7 LIN. FT. = 125

PILE EXCAVATION

PILE EXCAVATION IN SOIL	60 LIN. FT.
PILE EXCAVATION NOT IN SOIL	35 LIN. FT.
ARCHITECTURAL CONC. SURFACE TREATMENT	250 SQ. FT.

PROJECT NO. B-5118

WATAUGA COUNTY

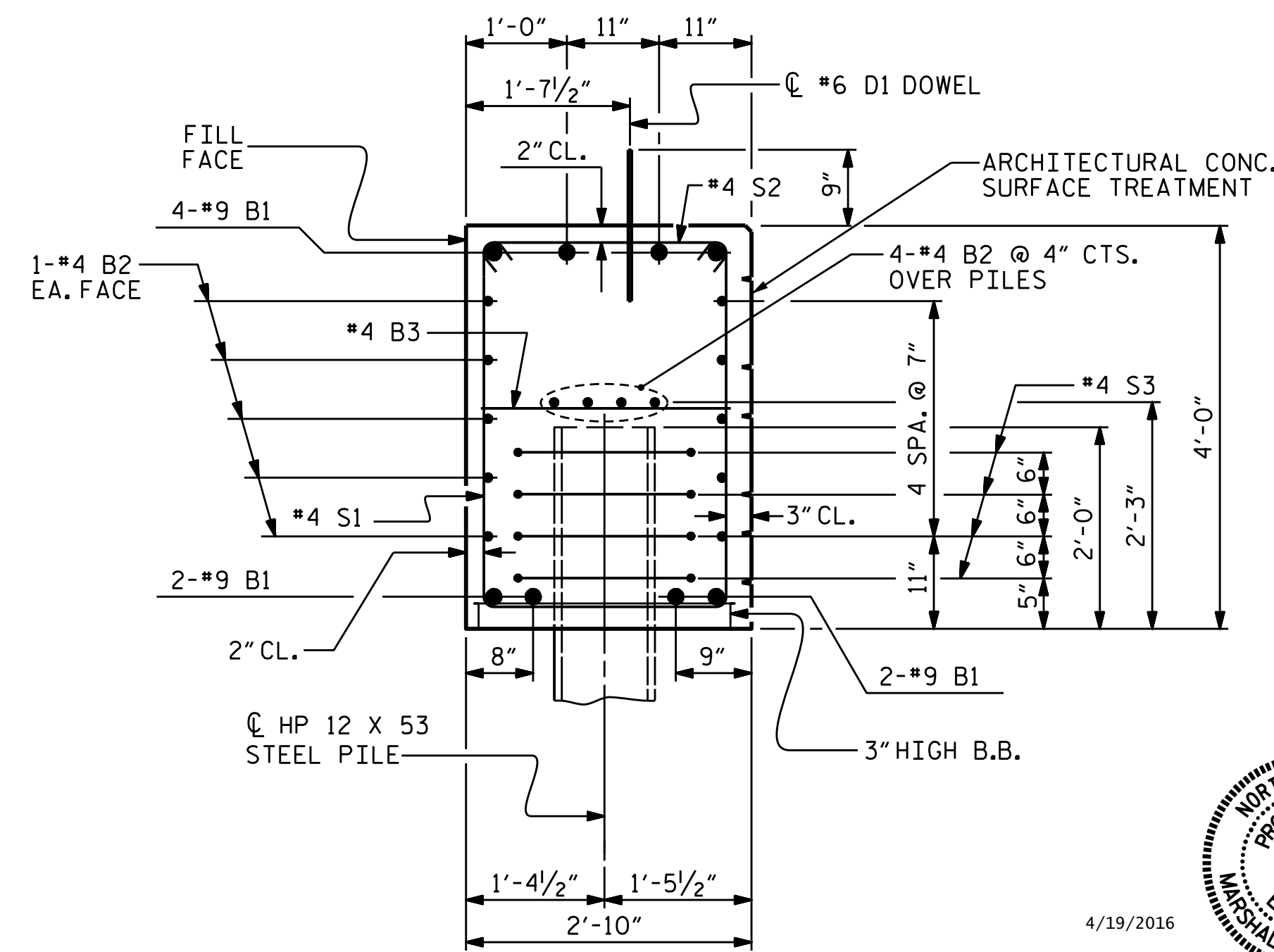
STATION: 11+91.00 -L-

SHEET 3 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

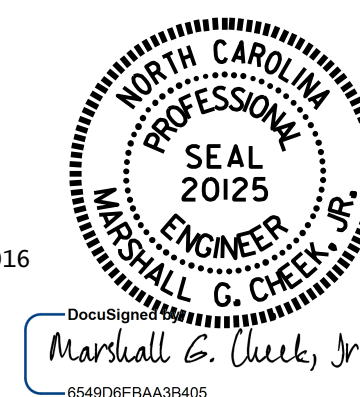
SUBSTRUCTURE

END BENT No. 1
DETAILS



SECTION A-A

(CONCRETE COLLAR NOT SHOWN FOR CLARITY. SEE "CORROSION PROTECTION FOR STEEL PILES DETAIL.")



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO. S-13
TOTAL SHEETS 20

DRAWN BY: W.J. HARRIS DATE: 2/16
CHECKED BY: B.N. GRADY DATE: 2/16
DESIGN ENGINEER OF RECORD: W.J. HARRIS DATE: 4/16