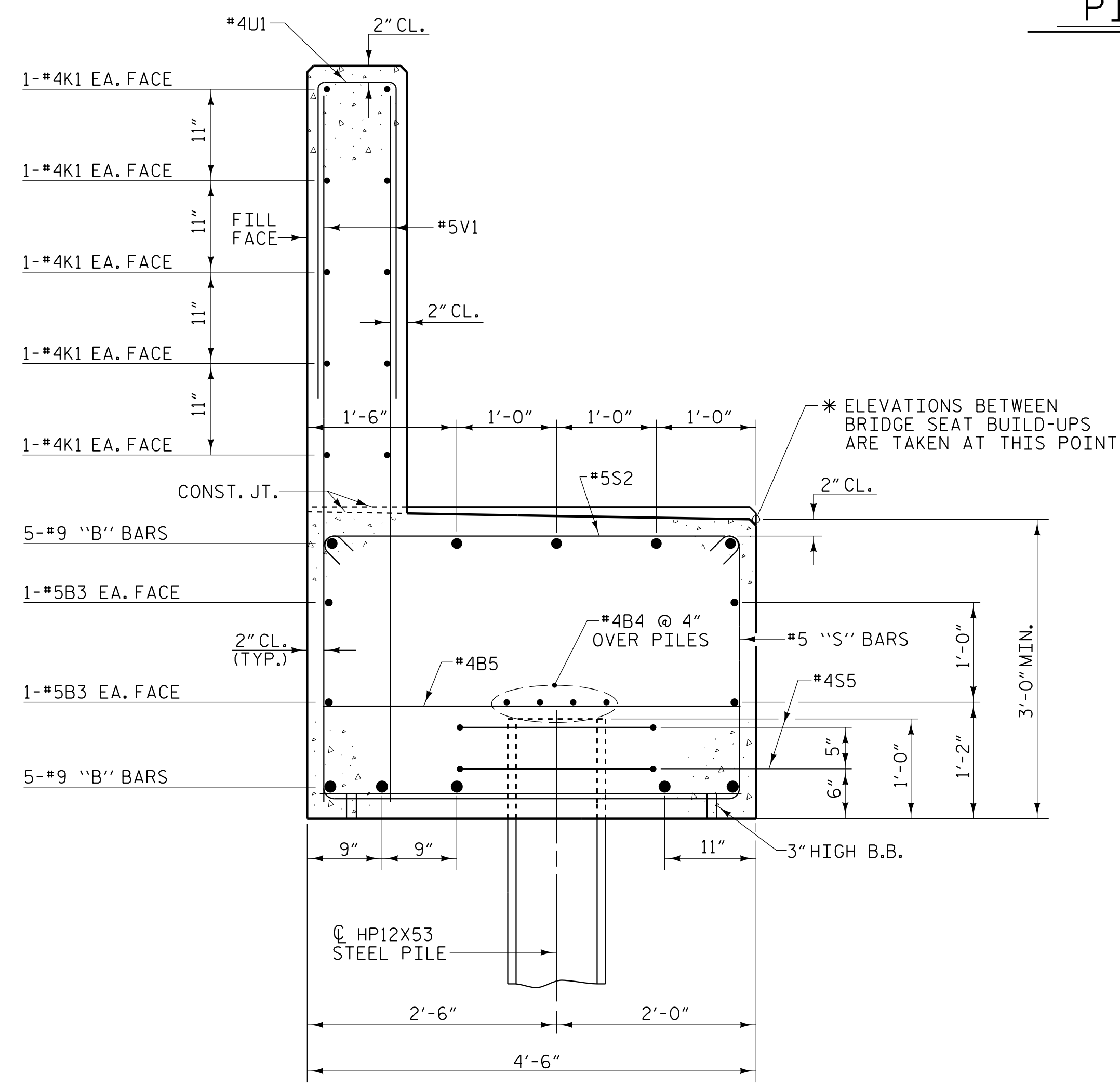
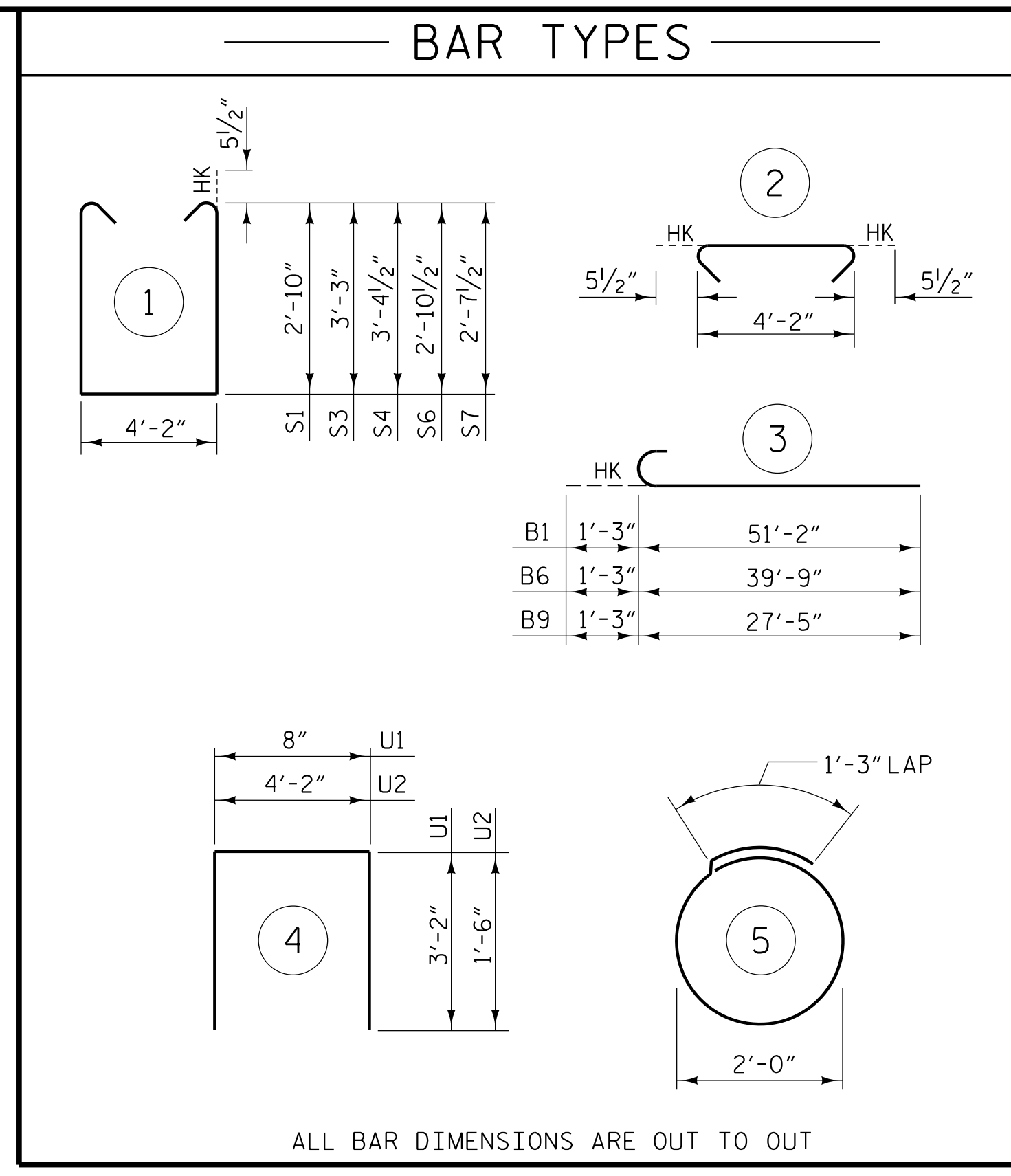


△ POSITION OF PILE DURING WELDING.

PILE SPlice DETAILS



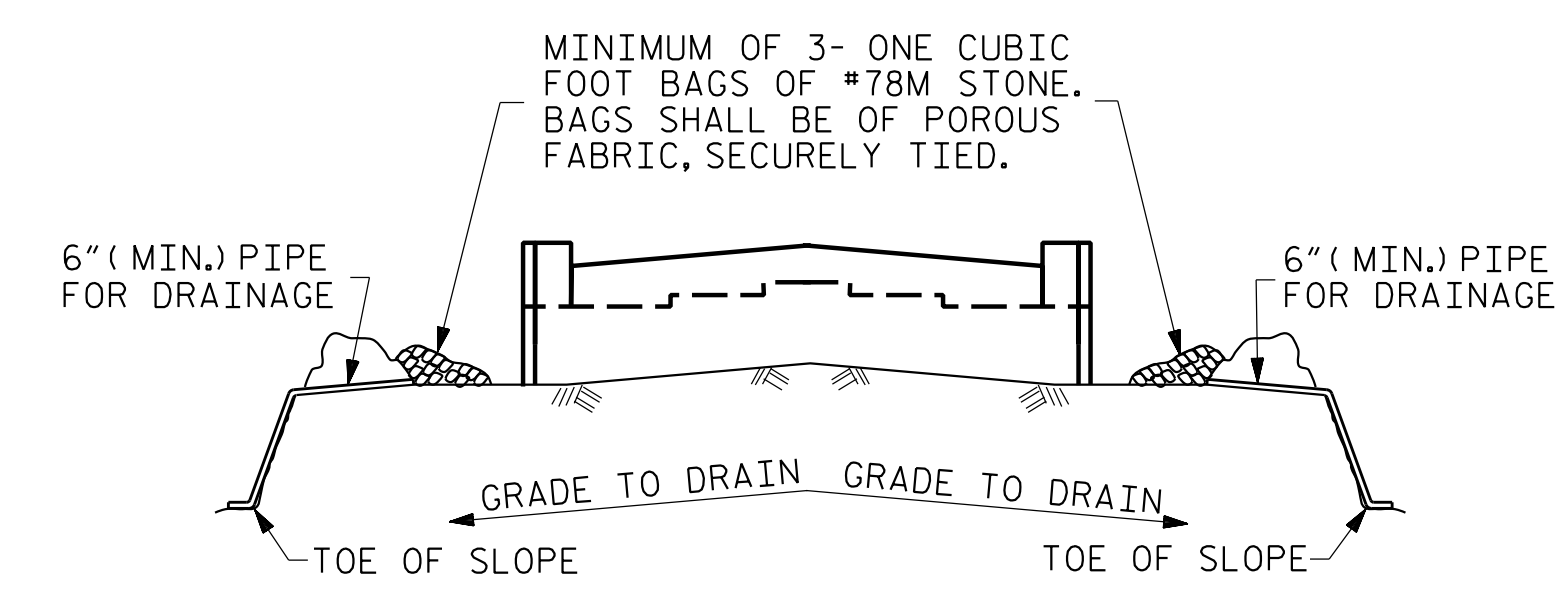
SECTION A-A



ALL BAR DIMENSIONS ARE OUT TO OUT

| BILL OF MATERIAL | | | | | |
|------------------|-----|------|------|---------|--------|
| END BENT 1 | | | | | |
| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
| B1 | 10 | #9 | 3 | 52'-5" | 1782 |
| B2 | 5 | #9 | STR | 54'-2" | 921 |
| B3 | 12 | #5 | STR | 51'-1" | 639 |
| B4 | 24 | #4 | STR | 26'-7" | 426 |
| B5 | 37 | #4 | STR | 4'-2" | 103 |
| B6 | 5 | #9 | 3 | 41'-0" | 697 |
| B7 | 5 | #9 | STR | 18'-4" | 312 |
| B8 | 5 | #9 | STR | 54'-7" | 928 |
| B9 | 5 | #9 | 3 | 28'-8" | 487 |
| B10 | 5 | #9 | STR | 31'-3" | 531 |
| B11 | 10 | #4 | STR | 2'-10" | 19 |
| B12 | 5 | #4 | STR | 28'-9" | 96 |
| B13 | 5 | #4 | STR | 12'-9" | 43 |
| H1 | 4 | #4 | STR | 4'-1" | 11 |
| H2 | 4 | #4 | STR | 4'-3" | 11 |
| S1 | 54 | #5 | 1 | 10'-9" | 605 |
| S2 | 247 | #5 | 2 | 5'-1" | 1310 |
| S3 | 21 | #5 | 1 | 11'-7" | 254 |
| S4 | 96 | #5 | 1 | 11'-10" | 1185 |
| S5 | 36 | #4 | 5 | 7'-7" | 182 |
| S6 | 43 | #5 | 1 | 10'-10" | 486 |
| S7 | 33 | #5 | 1 | 10'-4" | 356 |
| U1 | 138 | #4 | 4 | 7'-0" | 645 |
| U2 | 25 | #4 | 4 | 7'-2" | 120 |
| V1 | 138 | #5 | STR | 7'-1" | 1020 |

| | |
|--|----------------|
| TOTAL REINFORCING STEEL | 13169 lbs. |
| CLASS "A" CONCRETE - CU. YARDS | |
| POUR 1 - CAP (LT.) | 40.2 cu. yds. |
| POUR 2 - CAP (RT.) | 47.0 cu. yds. |
| POUR 3 - BACKWALL | 25.5 cu. yds. |
| TOTAL | 112.7 cu. yds. |
| HP12X53 STEEL PILES | |
| 18 PILES REQUIRED - LIN. FEET | 1350 |
| PILE DRIVING EQUIPMENT SETUP FOR HP12X53 STEEL PILES | 18 EA. |
| PILE REDRIVES | 9 EA. |



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

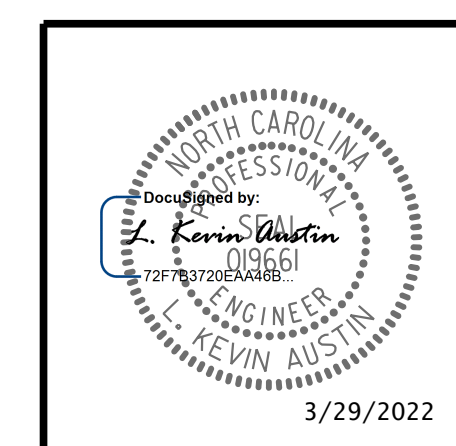
3/27/2022 5:28:07 PM G:\Project\2004\2040652\28\CLIENT\Structures\U2519BB_SMU.E3_250452.dgn

DRAWN BY : M. D. METZGER DATE : 2/22
 CHECKED BY : L. K. AUSTIN DATE : 2/22
 DESIGN ENGINEER OF RECORD: L. K. AUSTIN DATE : 2/22

PLANS PREPARED BY:

NV5

NV5 ENGINEERS & CONSULTANTS, INC.
 3300 REGENCY PARKWAY, SUITE 100
 CARY, NC 27518
 P: 919.851.1912 www.NV5.com
 NC License # F-1333
 Formerly CAVI Engineers & Consultants



PROJECT NO. U-2519BB
CUMBERLAND COUNTY
 STATION: 80+65.32 -Y17- POT

SHEET 3 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUBSTRUCTURE
 END BENT 1

| REVISIONS | | | | | | SHEET NO. |
|-----------|-----|-------|-----|-----|-------|--------------|
| NO. | BY: | DATE: | NO. | BY: | DATE: | S-30 |
| 1 | | | 3 | | | TOTAL SHEETS |
| 2 | | | 4 | | | 41 |

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

3/29/2022