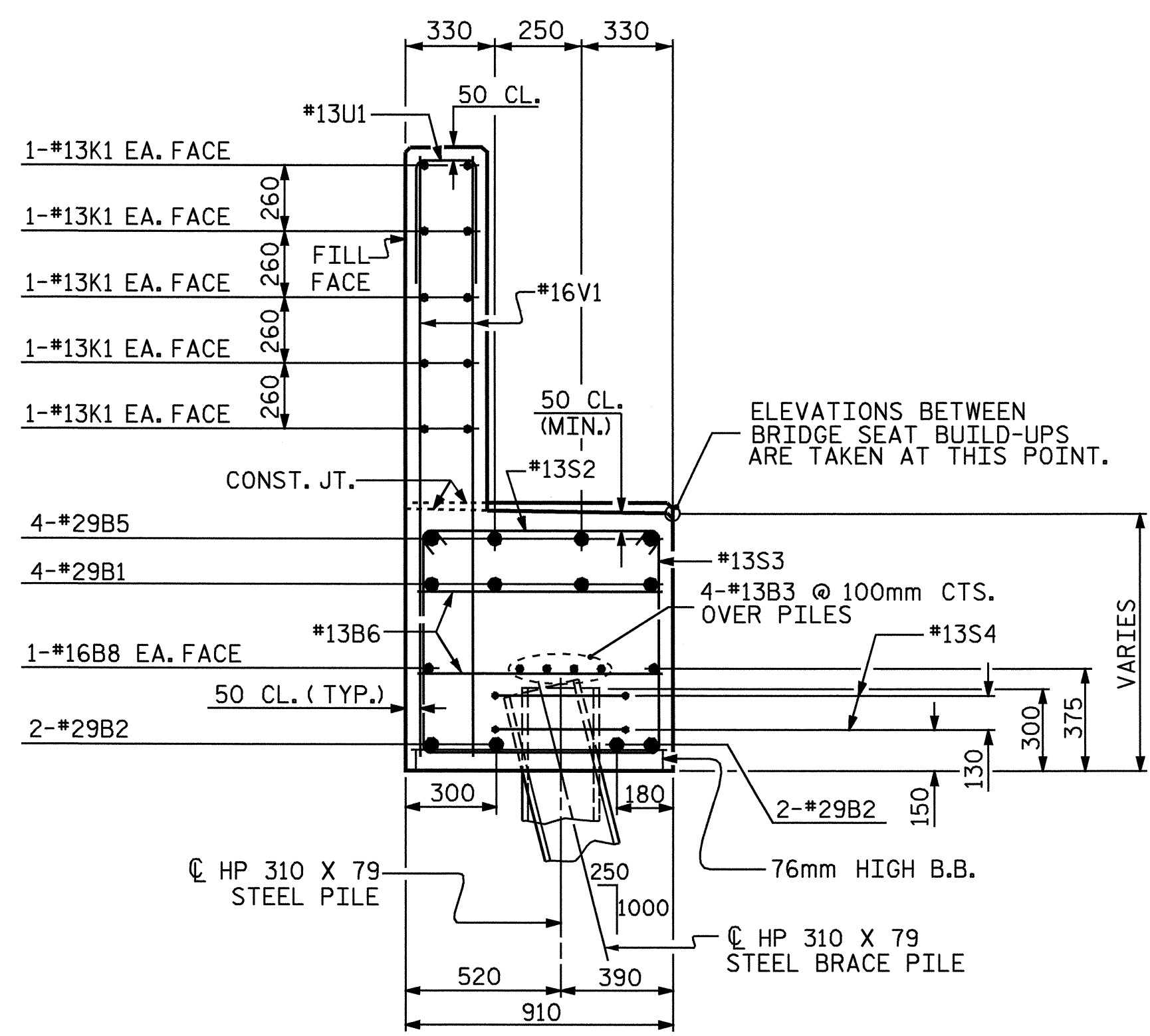
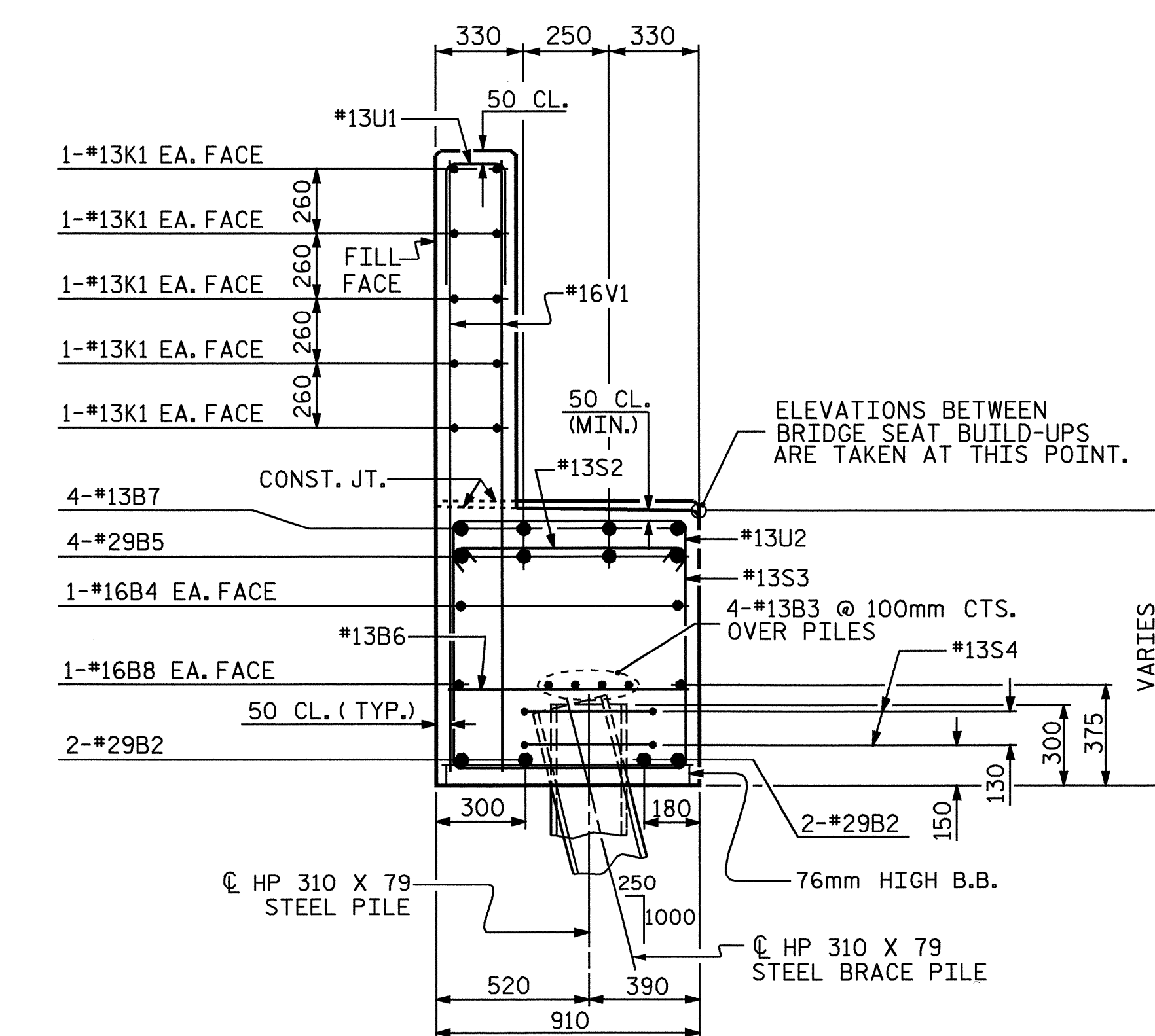


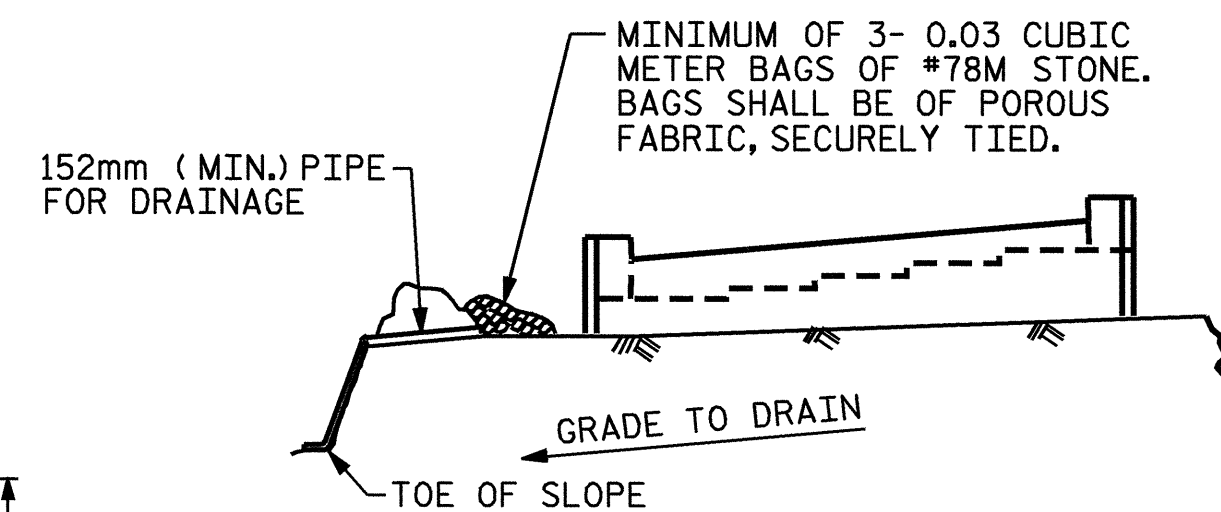
SECTION A-A



SECTION B-B



SECTION C-C



MINIMUM OF 3- 0.03 CUBIC METER BAGS OF #78M STONE. BAGS SHALL BE OF POROUS FABRIC, SECURELY TIED.

152mm (MIN.) PIPE FOR DRAINAGE

GRADE TO DRAIN

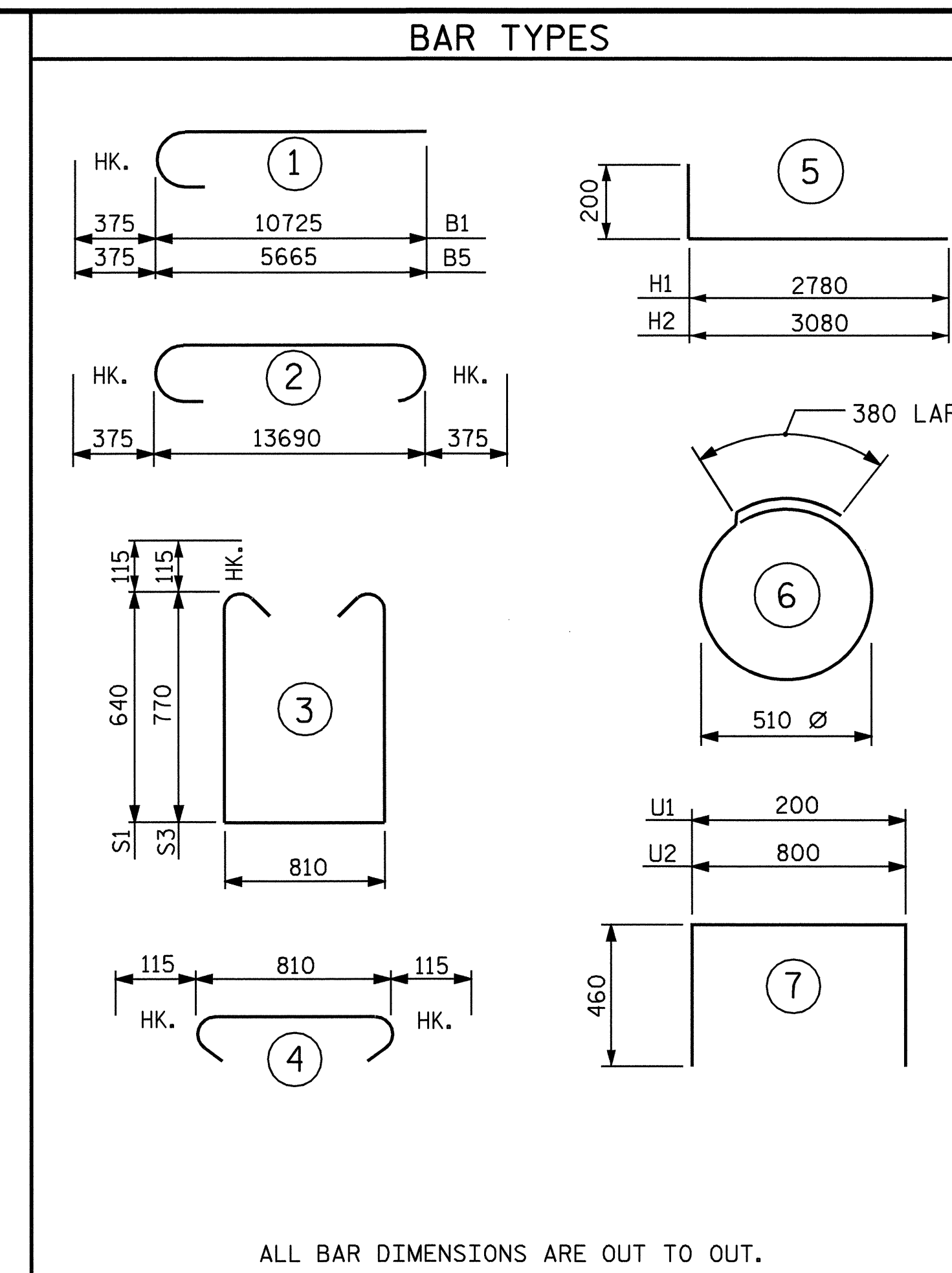
TOE OF SLOPE

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.

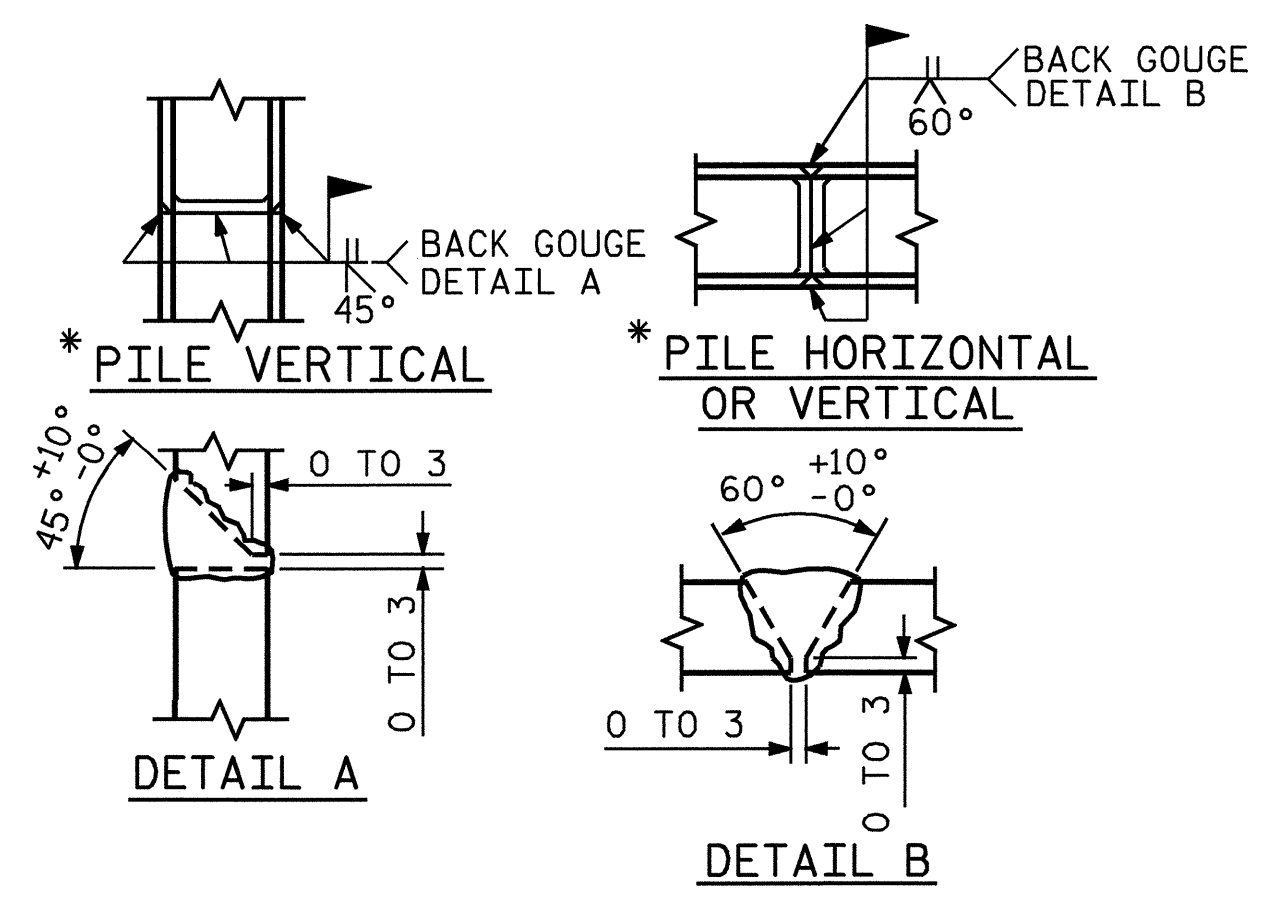
TEMPORARY DRAINAGE AT END BENT



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

| END BENT #1 | | | | | |
|----------------------------------|-----|----|-----|--------|---------------------|
| BAR | NUM | SZ | TYP | LENGTH | WEIGHT |
| B1 | 4 | 29 | 1 | 11100 | 225 |
| B2 | 4 | 29 | 2 | 14440 | 292 |
| B3 | 8 | 13 | STR | 7220 | 57 |
| B4 | 2 | 16 | STR | 3940 | 12 |
| B5 | 4 | 29 | 1 | 6040 | 122 |
| B6 | 15 | 13 | STR | 800 | 12 |
| B7 | 8 | 13 | STR | 900 | 7 |
| B8 | 2 | 16 | STR | 13700 | 43 |
| H1 | 20 | 16 | 5 | 2980 | 92 |
| H2 | 22 | 16 | 5 | 3280 | 112 |
| K1 | 20 | 13 | STR | 7220 | 144 |
| K2 | 8 | 16 | STR | 880 | 11 |
| S1 | 47 | 13 | 3 | 2320 | 108 |
| S2 | 80 | 13 | 4 | 1040 | 83 |
| S3 | 33 | 13 | 3 | 2580 | 85 |
| S4 | 14 | 13 | 6 | 1980 | 28 |
| U1 | 40 | 13 | 7 | 1120 | 45 |
| U2 | 6 | 13 | 7 | 1720 | 10 |
| V1 | 80 | 16 | STR | 1860 | 231 |
| V2 | 28 | 16 | STR | 2220 | 96 |
| V3 | 30 | 16 | STR | 2440 | 114 |
| REINFORCING STEEL | | | | | KG. 1,929 |
| CLASS A CONCRETE BREAKDOWN | | | | | |
| POUR #1 (CAP & LOWER WINGS) | | | | | 12.1 m ³ |
| POUR #2 (BACKWALL & UPPER WINGS) | | | | | 8.1 m ³ |
| TOTAL | | | | | 20.2 m ³ |
| HP 310 X 79 STEEL PILES | | | | | |
| NO. 7 | | | | | METERS 140.7 |



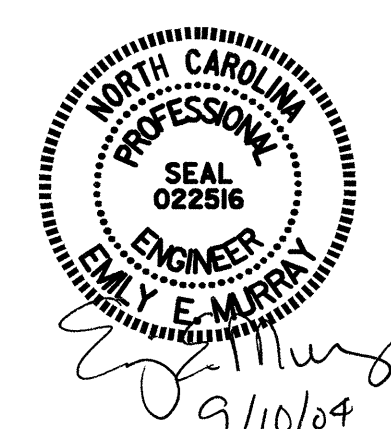
PILE SPLICE DETAILS

* POSITION OF PILE DURING WELDING.

PROJECT NO. R-2206C
 LINCOLN-CATAWBA COUNTY
 STATION: 256+91.000 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUBSTRUCTURE
 END BENT #1
 LEFT LANE



| REVISIONS | | | | | SHEET NO. |
|-----------|-----|-------|-----|-----|-----------|
| NO. | BY: | DATE: | NO. | BY: | DATE: |
| 1 | | | 3 | | |
| 2 | | | 4 | | |

DRAWN BY : M. M. PARSONS DATE : 2/10/04
 CHECKED BY : C. MILLER DATE : 3-04

03-SEP-2004 14:26
 W:\sq\adq\r2206c\Str*Il\mparsons\r2206c_sb_ed_ll.dgn
 derutcher