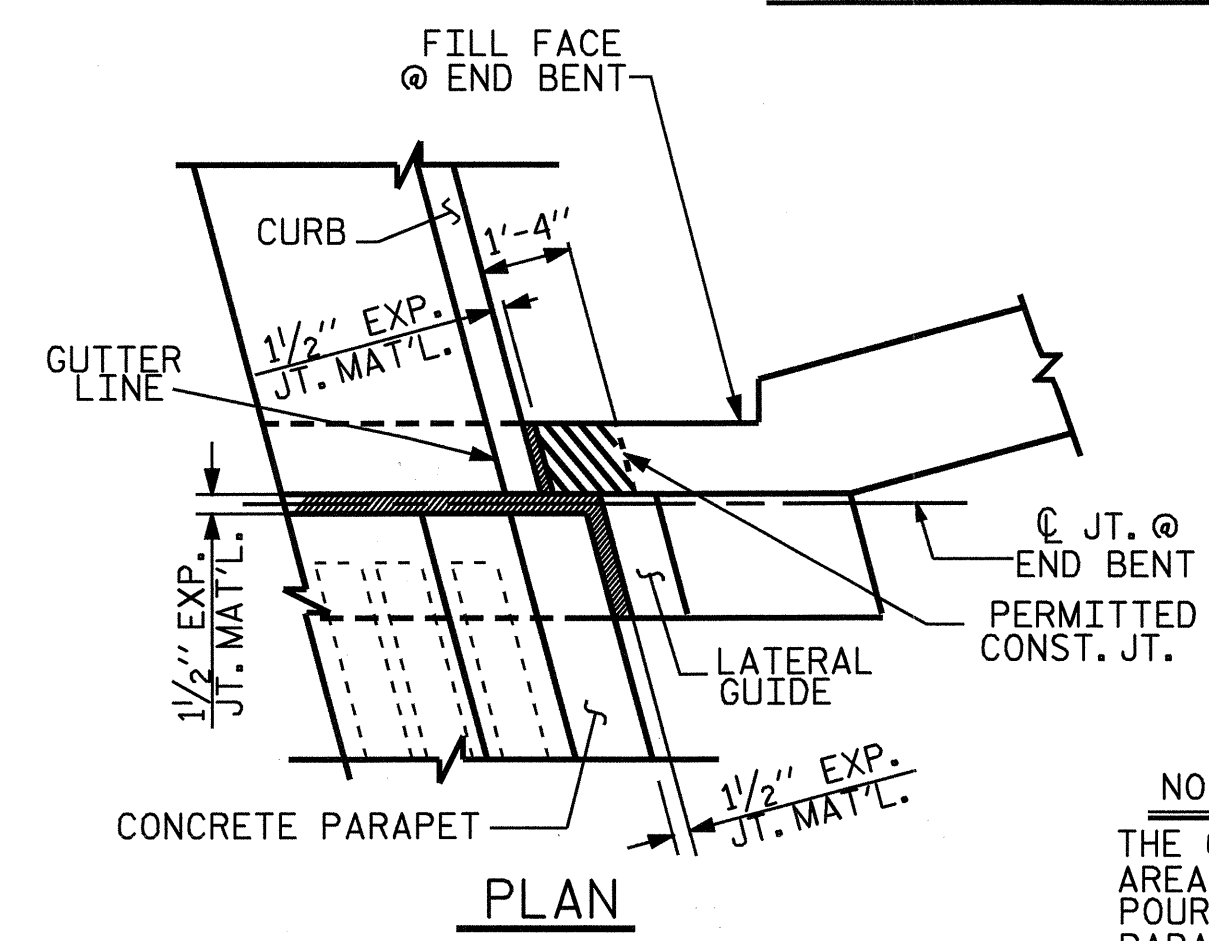
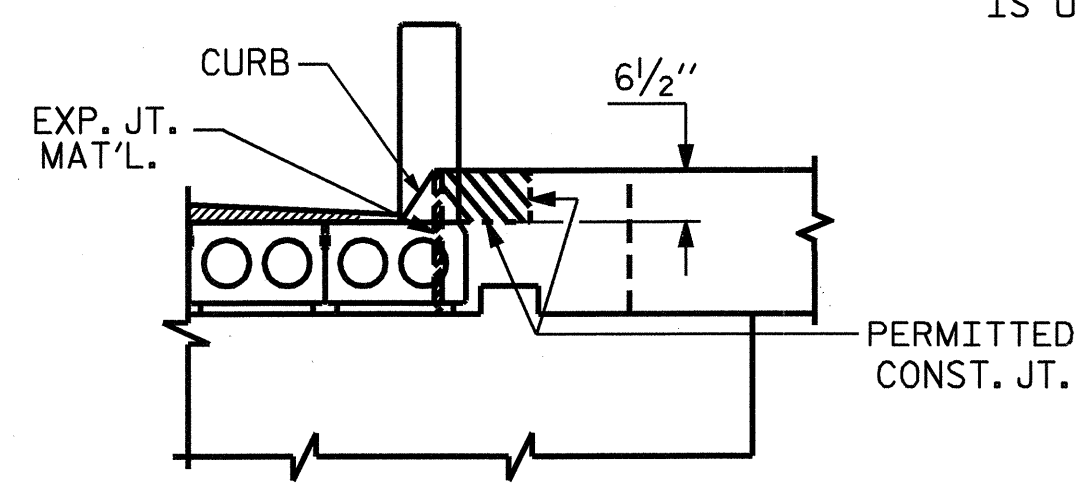


END ELEVATION



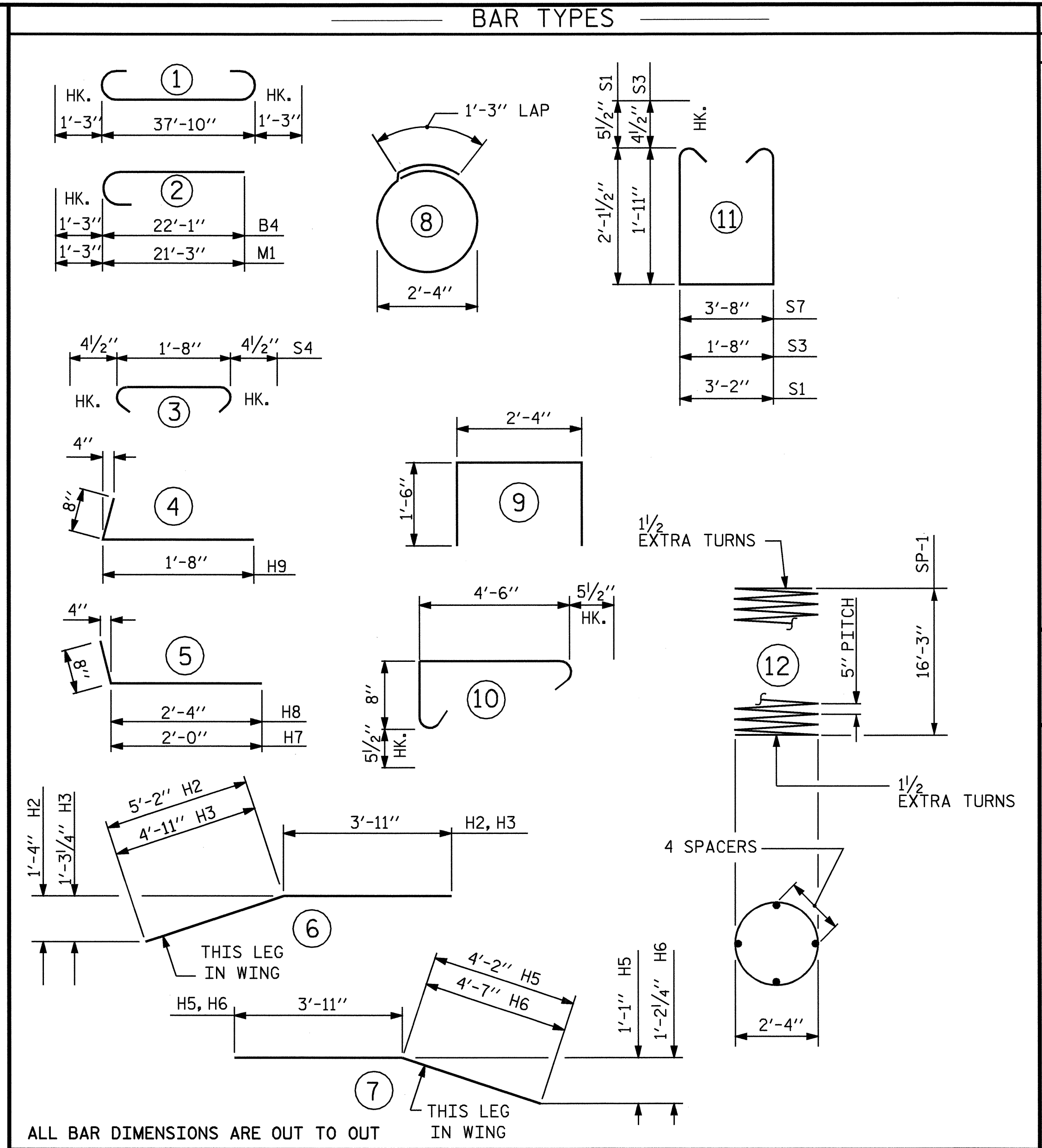
PLAN



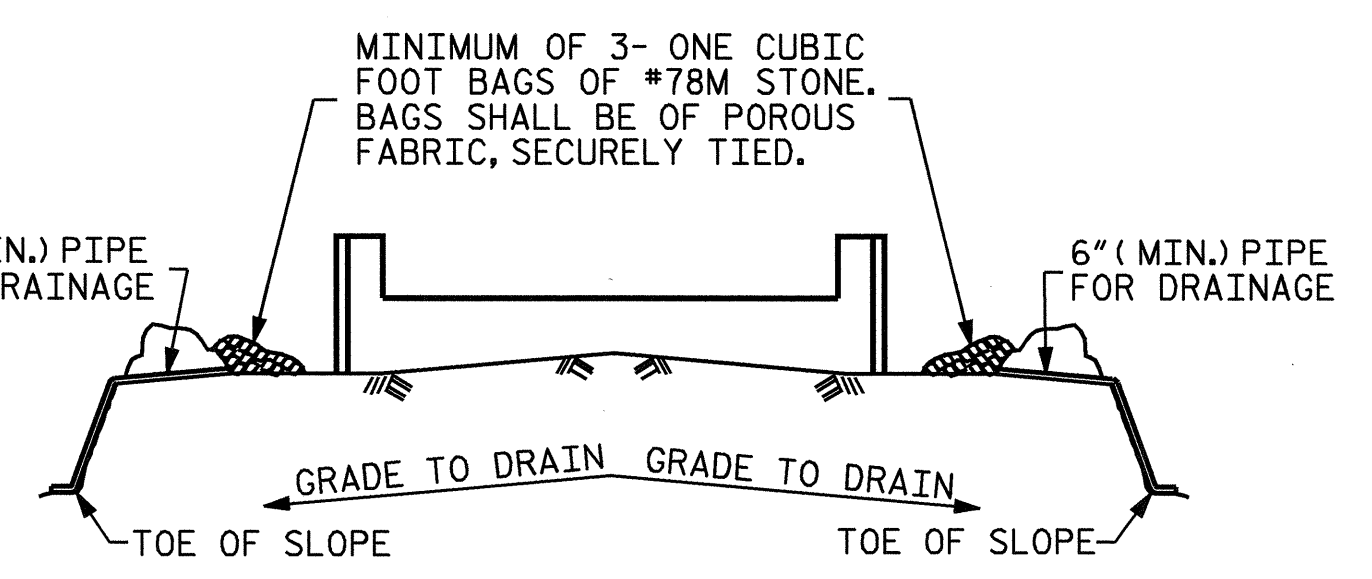
ELEVATION

BLOCKOUT IN WING WALL

NOTE
THE CONCRETE IN THE SHADED AREA OF THE WING SHALL BE POURED AFTER THE CONCRETE PARAPET IS CAST IF SLIP FORMING IS USED.



ALL BAR DIMENSIONS ARE OUT TO OUT

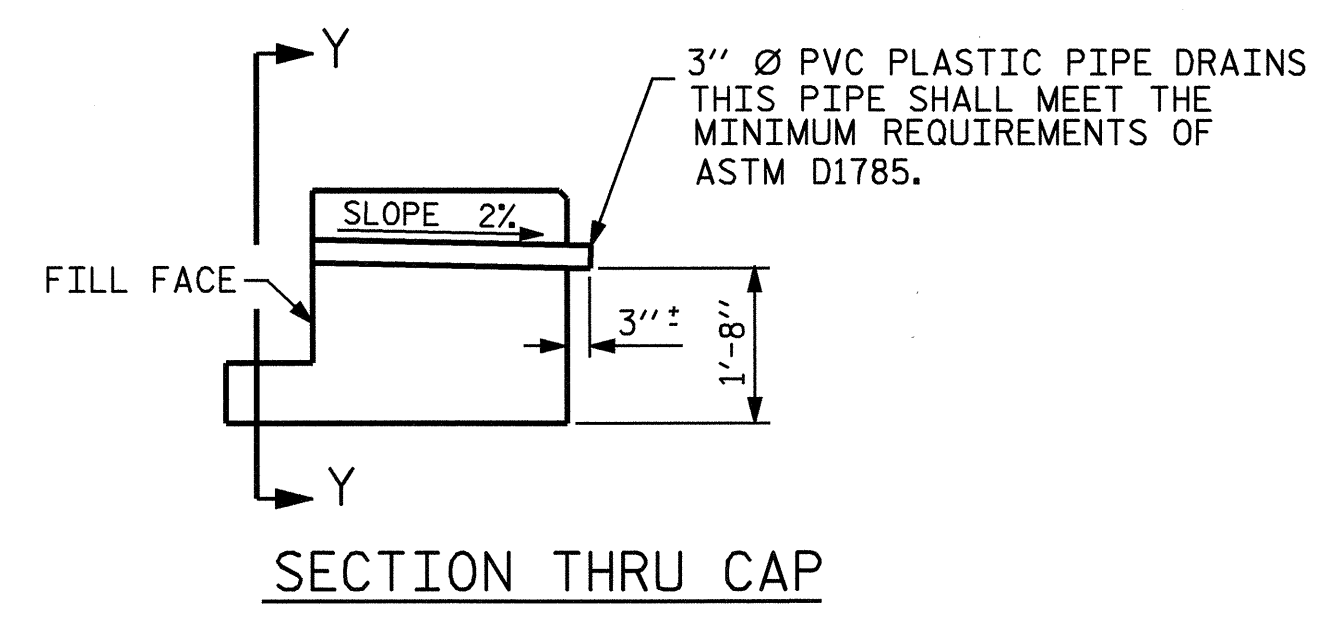


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

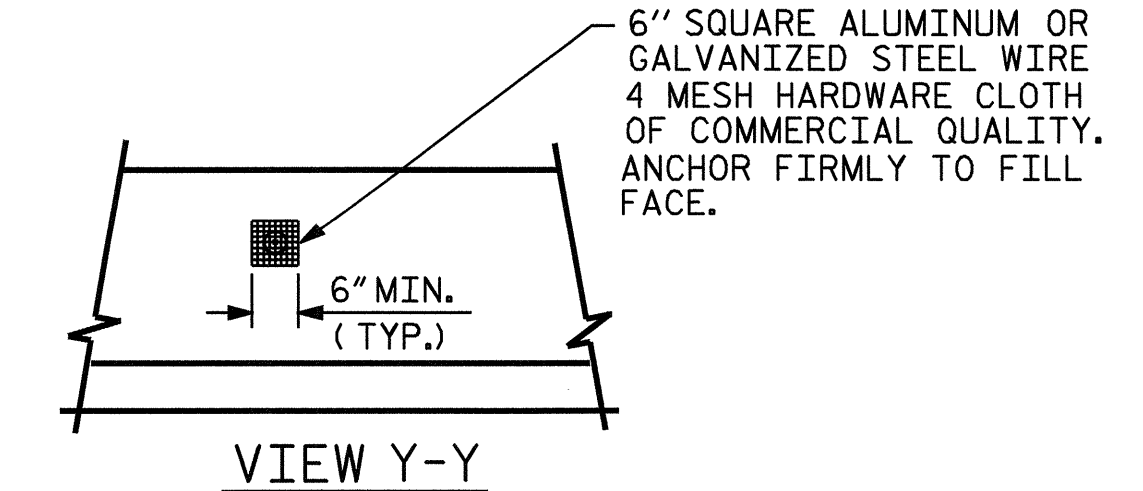
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR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



SECTION THRU CAP



VIEW Y-Y

NOTE: NO SEPARATE PAYMENT WILL BE MADE FOR FURNISHING AND INSTALLING THE PVC PLASTIC PIPE DRAINS, HARDWARE CLOTH AND FASTENERS. THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

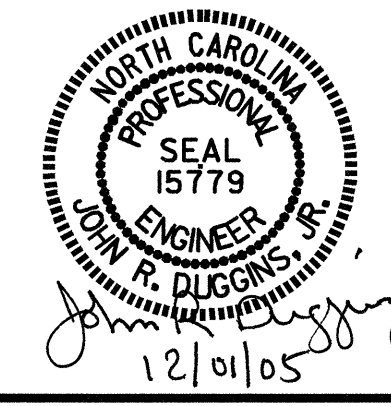
PIPE DRAIN DETAILS

BAR TYPES

BILL OF MATERIAL

| END BENT #1 | | | | | | |
|---------------------------|------|------|--------|--------|------------------------------|---|
| BAR NO. | SIZE | TYPE | LENGTH | WEIGHT | CLASS "A" CONCRETE BREAKDOWN | |
| B1 | 5 | 9 | 1 | 40'-4" | 686 | POUR 2 (CAP) 15.0 C.Y. |
| B2 | 8 | 4 | STR | 20'-2" | 108 | |
| B3 | 3 | 5 | STR | 38'-5" | 120 | |
| B4 | 10 | 9 | 2 | 23'-4" | 793 | |
| B5 | 6 | 4 | STR | 1'-8" | 7 | |
| D1 | 18 | 6 | STR | 1'-6" | 41 | POUR 3 (WINGS) 2.5 C.Y. POUR 4 (LATERAL GUIDES) 0.1 C.Y. |
| H1 | 5 | 4 | STR | 6'-0" | 20 | |
| H2 | 2 | 4 | 6 | 9'-1" | 12 | |
| H3 | 2 | 4 | 6 | 8'-10" | 18 | |
| H4 | 5 | 4 | STR | 4'-9" | 16 | CLASS "A" CONCRETE TOTAL 17.6 C.Y. |
| H5 | 2 | 4 | 7 | 8'-1" | 11 | |
| H6 | 3 | 4 | 7 | 8'-6" | 17 | |
| H7 | 3 | 4 | 5 | 2'-8" | 5 | |
| H8 | 3 | 4 | 5 | 3'-0" | 6 | |
| H9 | 3 | 4 | 4 | 2'-4" | 5 | |
| M1 | 48 | 9 | 2 | 22'-6" | 3672 | |
| S1 | 28 | 5 | 11 | 8'-4" | 243 | |
| S2 | 39 | 5 | 10 | 6'-1" | 247 | |
| S3 | 11 | 4 | 11 | 6'-3" | 46 | |
| S4 | 11 | 4 | 3 | 2'-5" | 18 | |
| S5 | 4 | 4 | 9 | 5'-4" | 14 | |
| S6 | 20 | 5 | 8 | 8'-7" | 179 | |
| S7 | 2 | 5 | 11 | 8'-10" | 18 | |
| V1 | 11 | 4 | STR | 4'-6" | 33 | CLASS "A" CONCRETE BREAKDOWN POUR 1 DRILLED PIERS 17.5 C.Y. |
| V2 | 12 | 4 | STR | 4'-5" | 35 | |
| REINFORCING STEEL | | | | LBS. | 6370 | 3'-0" Ø DRILLED PIER IN SOIL TOTAL LENGTH 45.00 LIN. FT. |
| SPIRAL REINFORCING STEEL | | | | LBS. | 1258 | 3'-0" Ø DRILLED PIER NOT IN SOIL TOTAL LENGTH 22.00 LIN. FT. |
| TOTAL SPIRAL REINF. STEEL | | | | LBS. | 1258 | 3'-0" Ø PERMANENT STEEL CASING 36.80 LIN. FT. |
| | | | | | 1 EA. | CROSSHOLE SONIC LOGGING |
| | | | | | 1 EA. | SID INSPECTION |
| | | | | | 308.0 LIN. FT. | CSL TUBES |
| | | | | | 709 SQ. FT. | 12" STEEL SHEET PILES |

** THE SP - SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR.



| REVISIONS | | | | | | SHEET NO. |
|-----------|-----|-------|-----|-----|-------|-----------------|
| NO. | BY: | DATE: | NO. | BY: | DATE: | S-15 |
| 1 | | | 3 | | | TOTAL SHEETS 22 |
| 2 | | | 4 | | | |