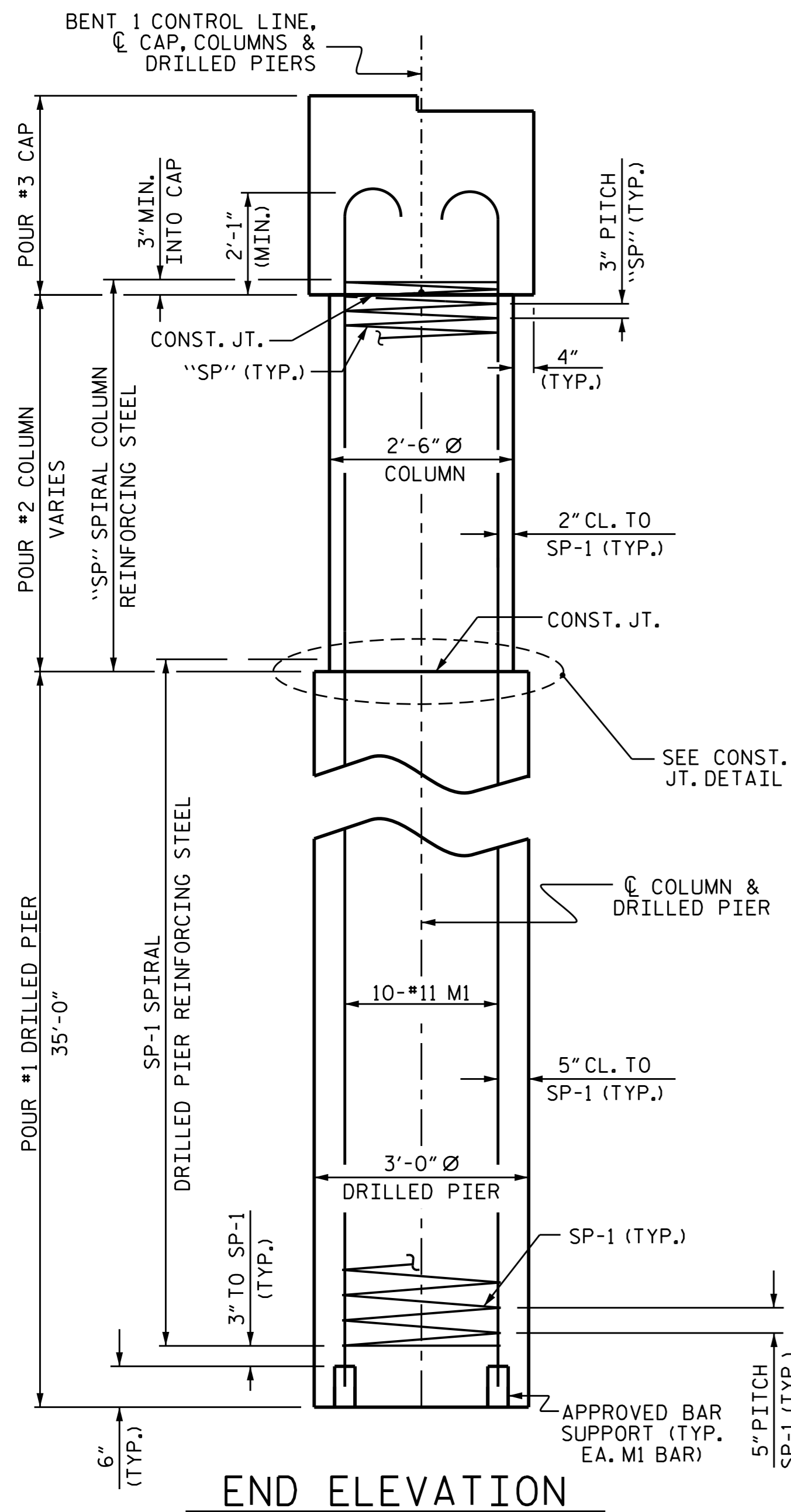
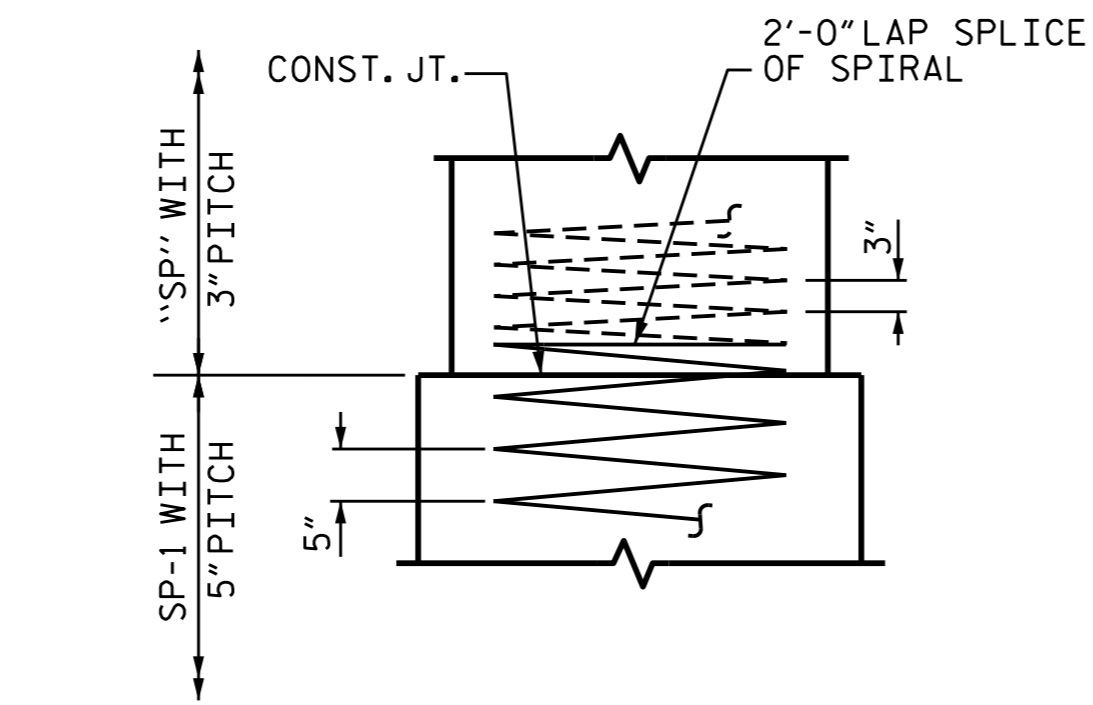


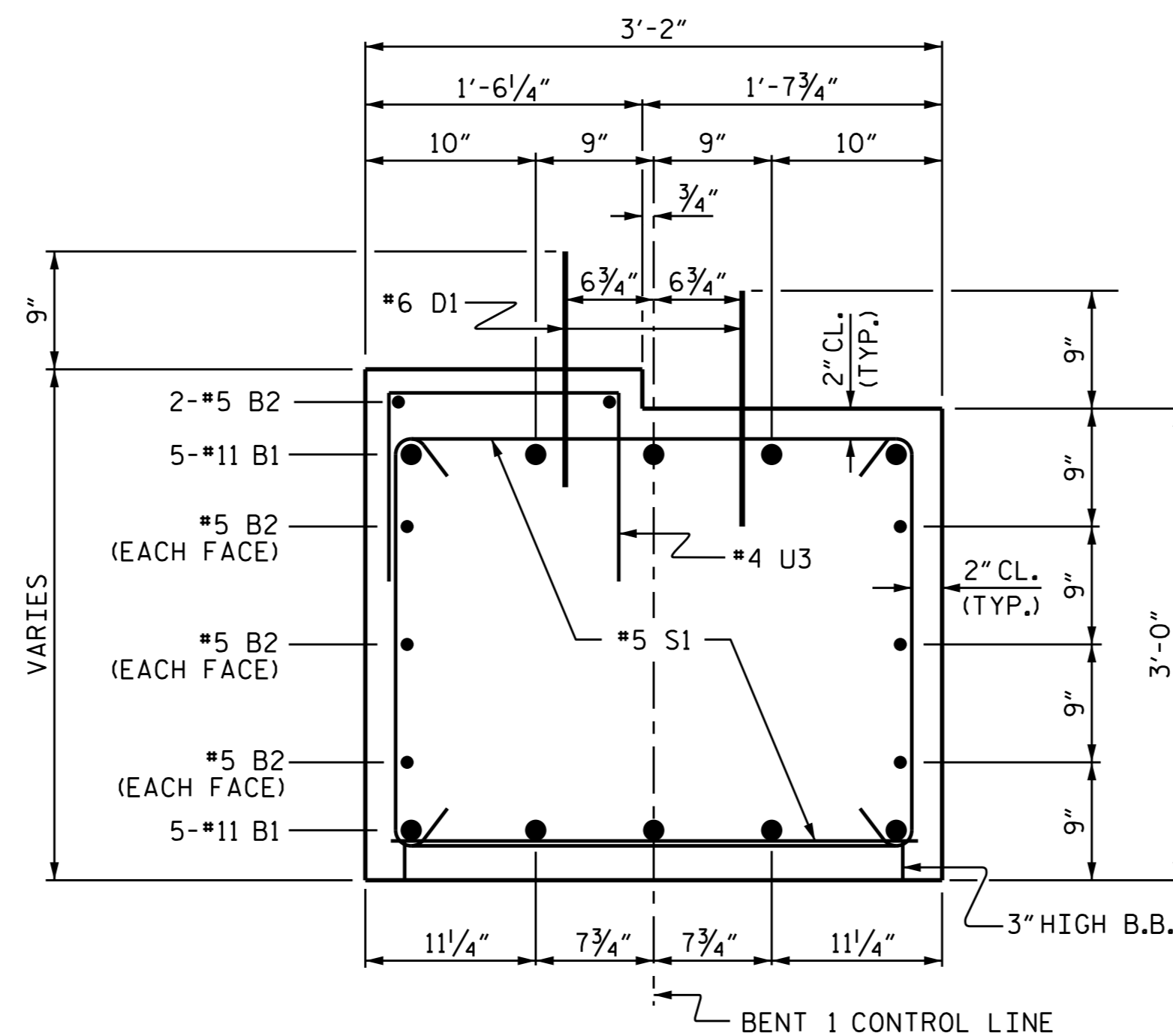
PLAN OF DRILLED PIERS & COLUMNS



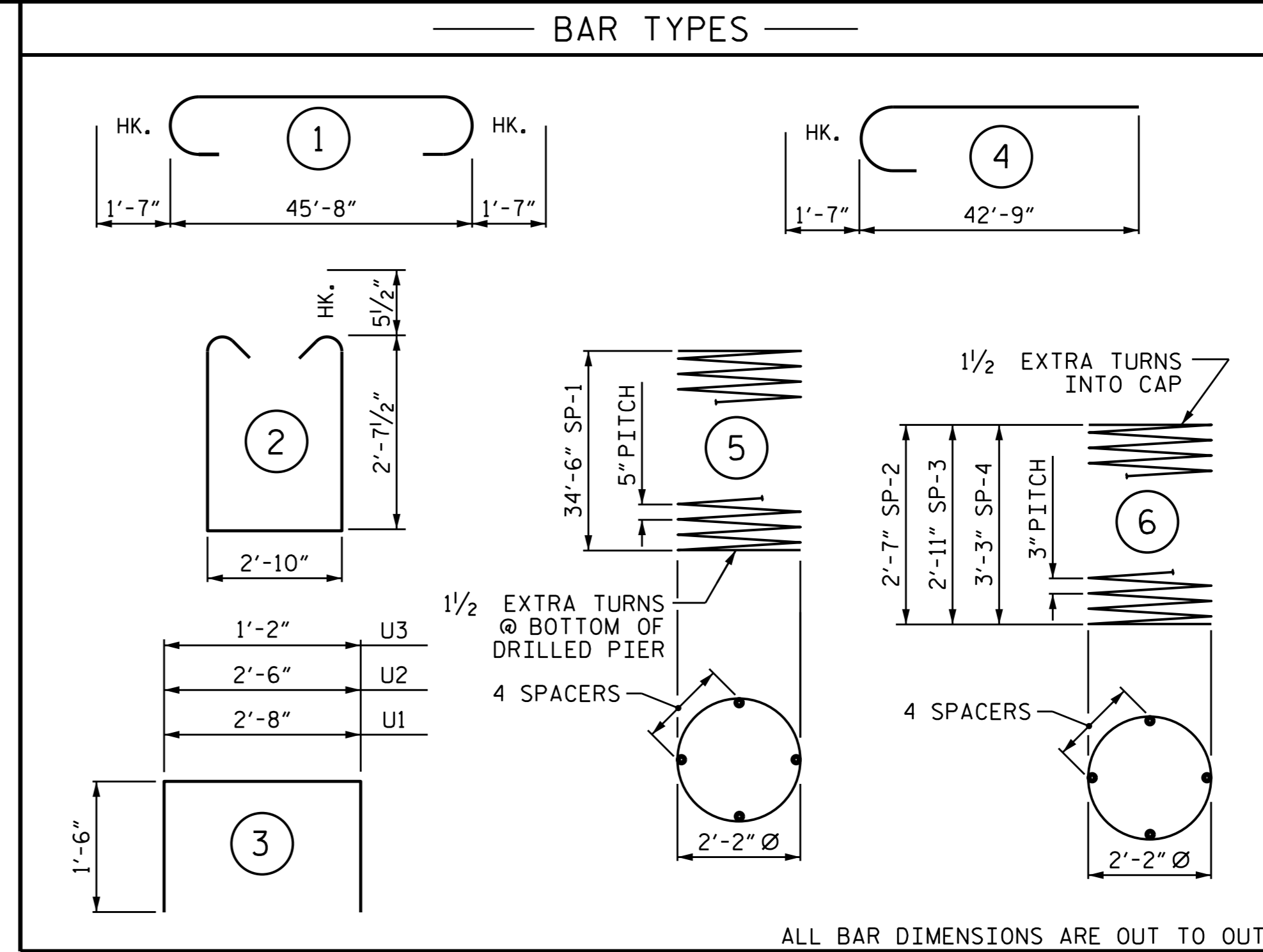
END ELEVATION



CONSTRUCTION JOINT DETAIL



SECTION THRU CAP



ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL

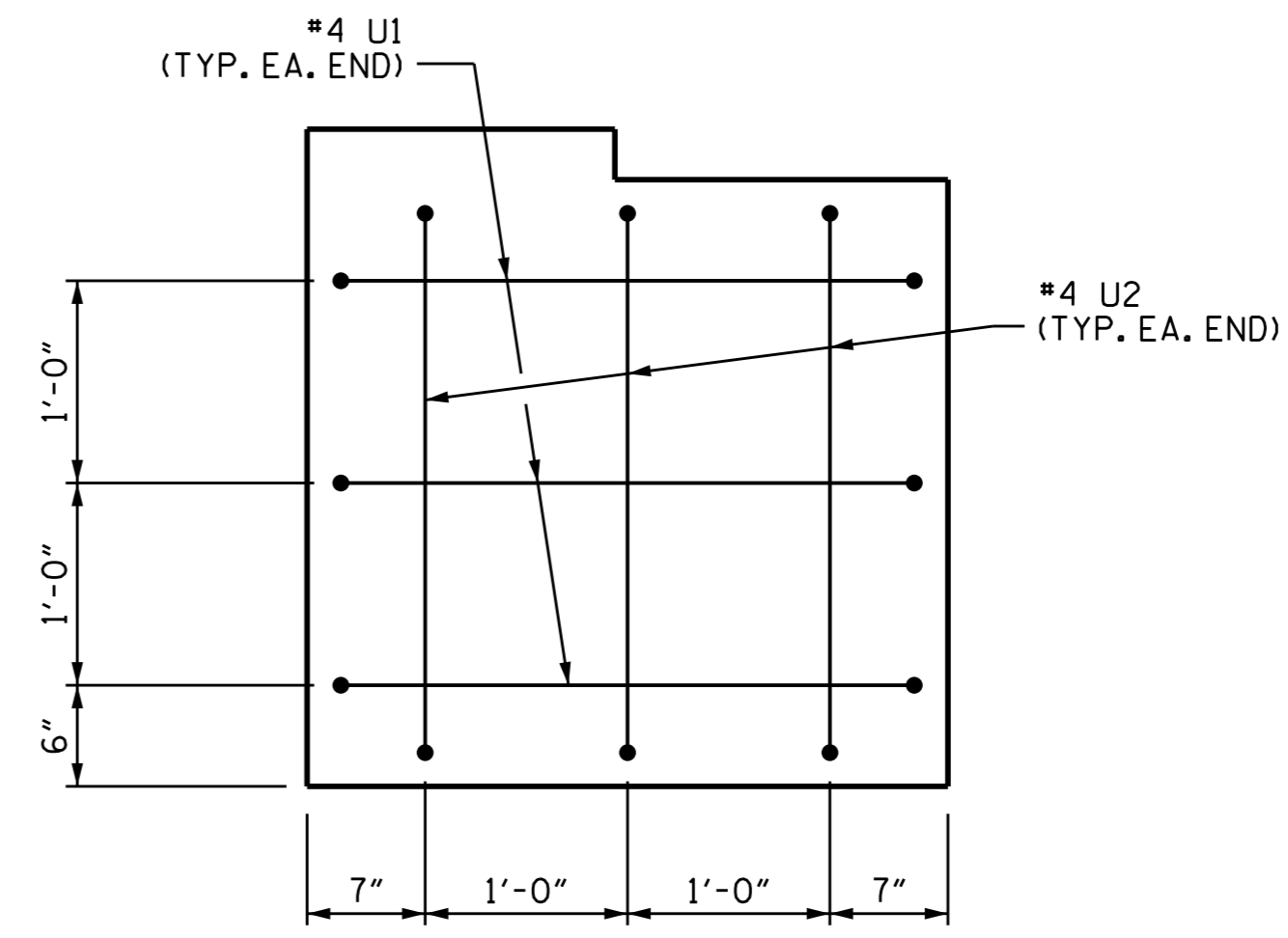
| BENT 1 | | | | | |
|--------|-----|------|------|---------|--------|
| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
| B1 | 10 | #11 | 1 | 48'-10" | 2595 |
| B2 | 8 | #5 | STR | 45'-10" | 382 |
| D1 | 48 | #6 | STR | 1'-6" | 108 |
| M1 | 30 | #11 | 4 | 44'-4" | 7066 |
| S1 | 78 | #5 | 2 | 9'-0" | 732 |
| U1 | 6 | #4 | 3 | 5'-8" | 23 |
| U2 | 6 | #4 | 3 | 5'-6" | 22 |
| U3 | 31 | #4 | 3 | 4'-2" | 86 |

| | |
|---------------------------------|---------------------|
| REINFORCING STEEL | 11,015 LBS. |
| SP-1 | 3 * 5 564'-5" 1,766 |
| SP-2 | 1 ** 6 82'-0" 59 |
| SP-3 | 1 ** 6 95'-3" 68 |
| SP-4 | 1 ** 6 102'-0" 72 |
| SPIRAL COLUMN REINFORCING STEEL | 1,965 LBS. |

* THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR
 ** THE "SP" SPIRAL COLUMN REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR

| CLASS A CONCRETE BREAKDOWN | |
|-------------------------------|------------------|
| POUR #2 (COLUMNS) | 1.4 C.Y. |
| POUR #3 (CAP) | 17.3 C.Y. |
| TOTAL CLASS A CONCRETE | 18.7 C.Y. |

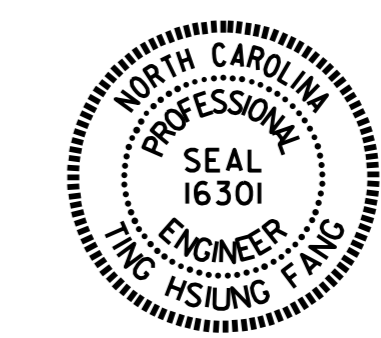
| DRILLED PIERS: | |
|---|---------------|
| DRILLED PIER CONCRETE | |
| POUR #1 (DRILLED PIERS) | 27.5 C.Y. |
| 3'-0" Ø DRILLED PIER NOT IN SOIL | 22.0 LIN. FT. |
| 3'-0" Ø DRILLED PIER IN SOIL | 83.0 LIN. FT. |
| PERMANENT STEEL CASING FOR 3'-0" Ø DRILLED PIER | 57.0 LIN. FT. |
| CSL TUBES | 438 LIN. FT. |



END OF CAP VIEW
TYPICAL BOTH ENDS

PROJECT NO. B-4461
 CHATHAM COUNTY
 STATION: 19+12.00 -L-

SHEET 2 OF 2



DocuSigned by: Ting Fang 4/11/2016
 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

| STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH | | | | | |
|--|-----|-------|-----|-----|-------|
| SUBSTRUCTURE | | | | | |
| BENT 1 | | | | | |
| REVISIONS | | | | | |
| NO. | BY: | DATE: | NO. | BY: | DATE: |
| 1 | | | 3 | | |
| 2 | | | 4 | | |

| SHEET NO. | |
|-----------|-----------------|
| S-19 | TOTAL SHEETS 23 |

ASSEMBLED BY : S. WANCE DATE : 7/09/13
 CHECKED BY : W. F. PARKER DATE : 09/15
 DRAWN BY : DGE 3/10
 CHECKED BY : MKT 3/10
 REV. 11/14 MAA/TMG