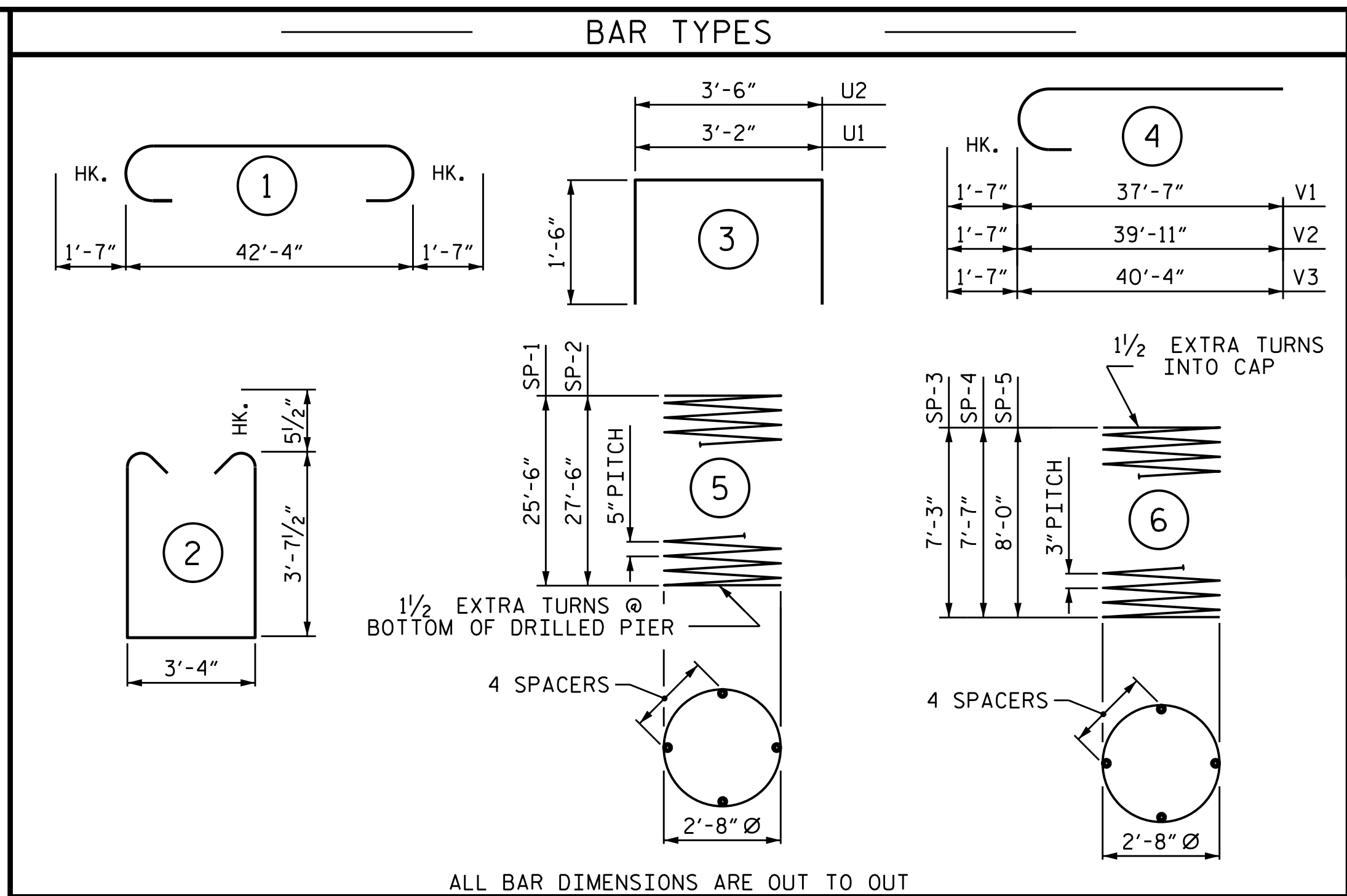


PLAN OF DRILLED PIERS & COLUMNS



BILL OF MATERIAL FOR ONE BENT

| BAR NO. | NO. | SIZE | TYPE | LENGTH | WEIGHT |
|---------|-----|------|------|---------|--------|
| B1 | 10 | #11 | | 45'-6" | 2417 |
| B2 | 14 | #5 | STR | 42'-6" | 621 |
| D1 | 44 | #8 | STR | 2'-3" | 264 |
| S1 | 74 | #5 | 2 | 11'-6" | 888 |
| U1 | 8 | #4 | 3 | 6'-2" | 33 |
| U2 | 8 | #4 | 3 | 6'-6" | 35 |
| V1 | 10 | #11 | 4 | 39'-2" | 2081 |
| V2 | 10 | #11 | 4 | 41'-6" | 2205 |
| V3 | 10 | #11 | 4 | 41'-11" | 2227 |

REINFORCING STEEL (FOR ONE BENT) 10771 LBS.

| | | | | | |
|------|---|----|---|---------|------|
| SP-1 | 1 | * | 5 | 518'-2" | 540 |
| SP-2 | 2 | * | 5 | 559'-4" | 1166 |
| SP-3 | 1 | ** | 6 | 255'-9" | 171 |
| SP-4 | 1 | ** | 6 | 264'-0" | 176 |
| SP-5 | 1 | ** | 6 | 280'-6" | 187 |

SPIRAL COLUMN REINFORCING STEEL (FOR ONE BENT) 2240 LBS.

THE SP-1 & SP-2 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR

**THE SP-3 THRU SP-5 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR

CLASS A CONCRETE BREAKDOWN (FOR ONE BENT)

| | |
|-------------------|-----------|
| POUR #2 (COLUMNS) | 5.7 C.Y. |
| POUR #3 (CAP) | 23.3 C.Y. |

TOTAL CLASS A CONCRETE 29.0 C.Y.

DRILLED PIERS: (FOR ONE BENT)

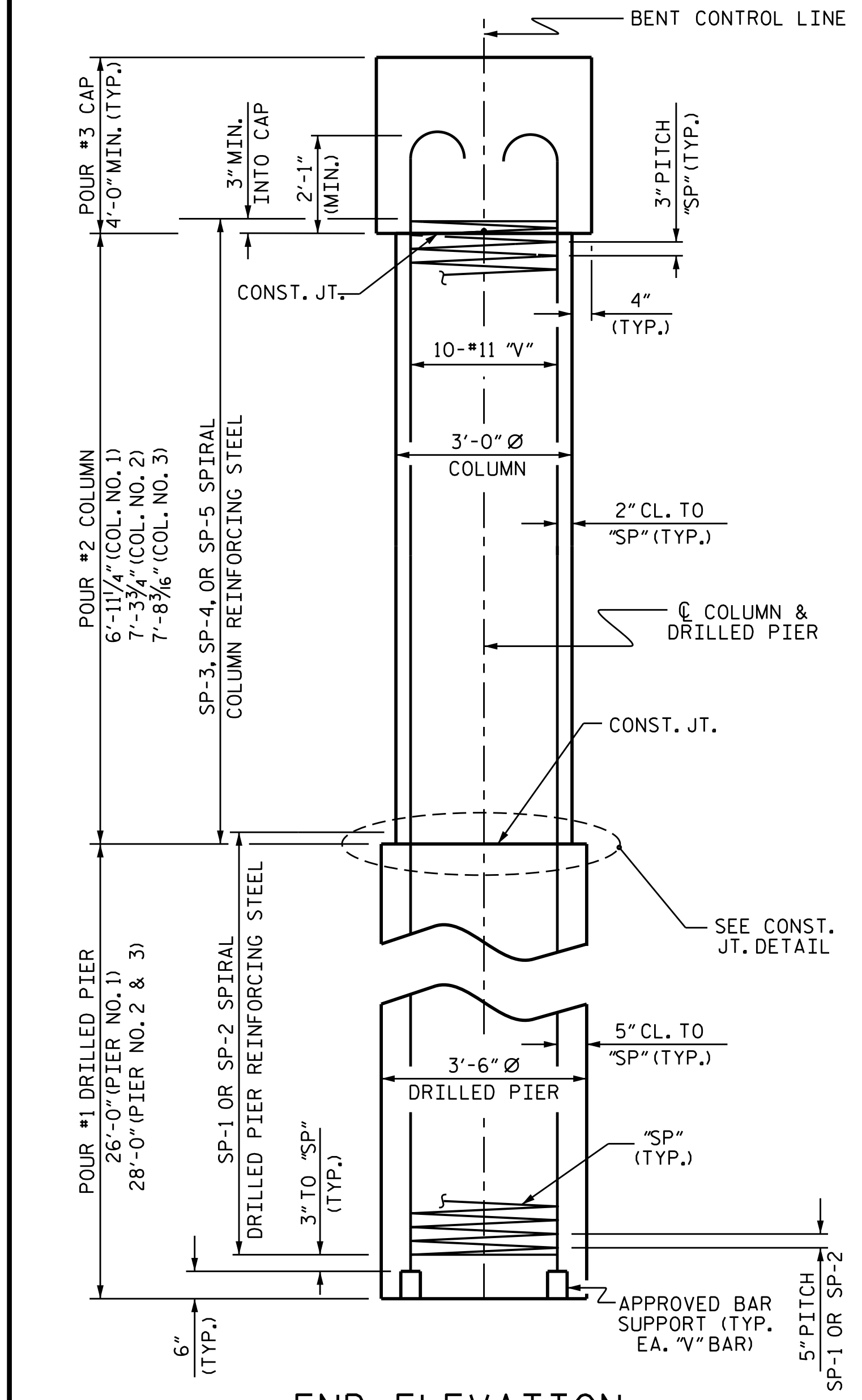
DRILLED PIER CONCRETE POUR #1 (DRILLED PIERS) 29.2 C.Y.

3'-6" Ø DRILLED PIER NOT IN SOIL 18 LIN. FT.

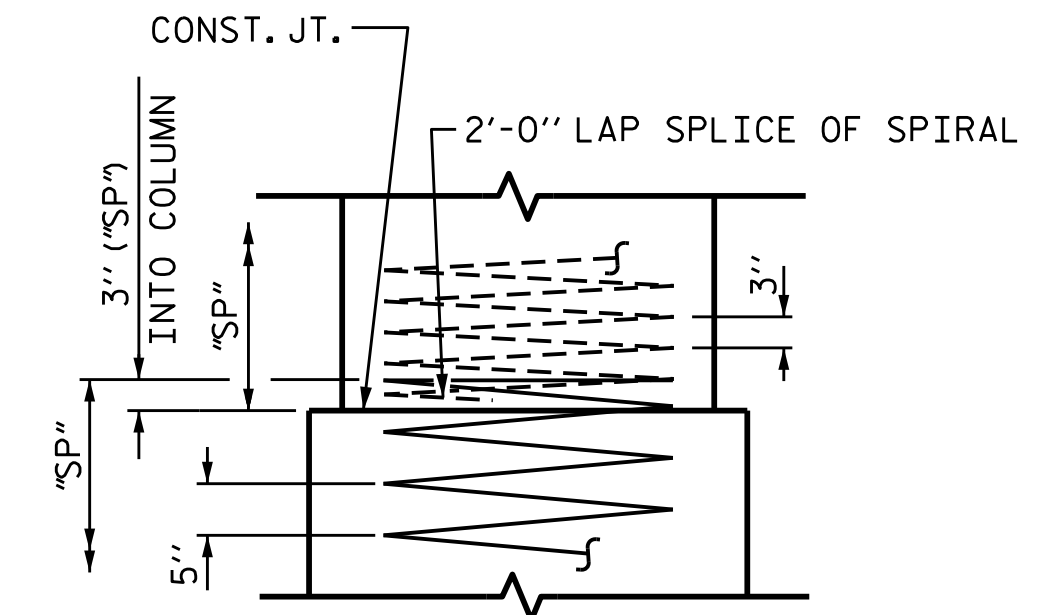
3'-6" Ø DRILLED PIER IN SOIL 64 LIN. FT.

SPT TESTING 3 EA.

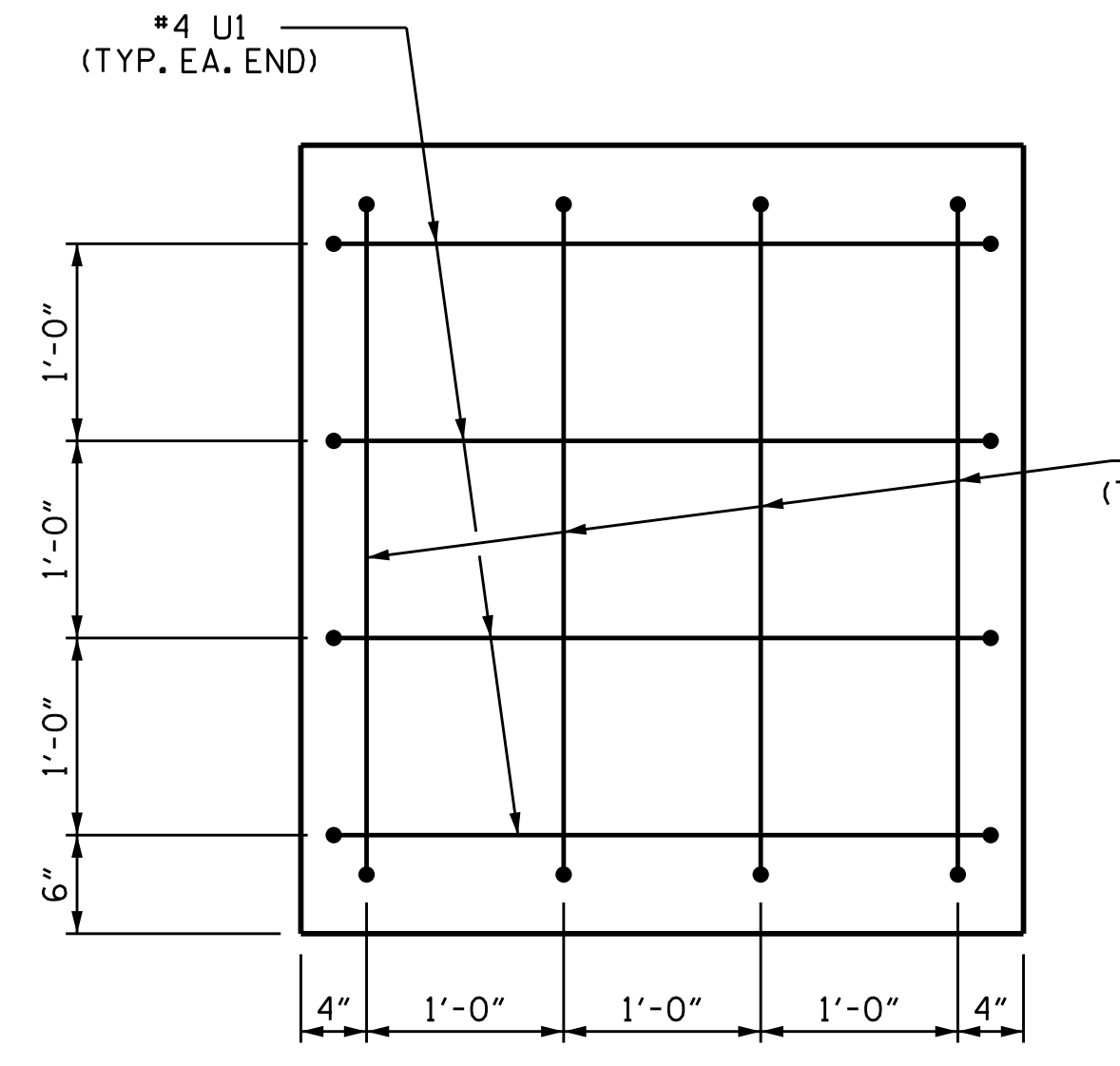
CSL TUBES 346 LIN. FT.



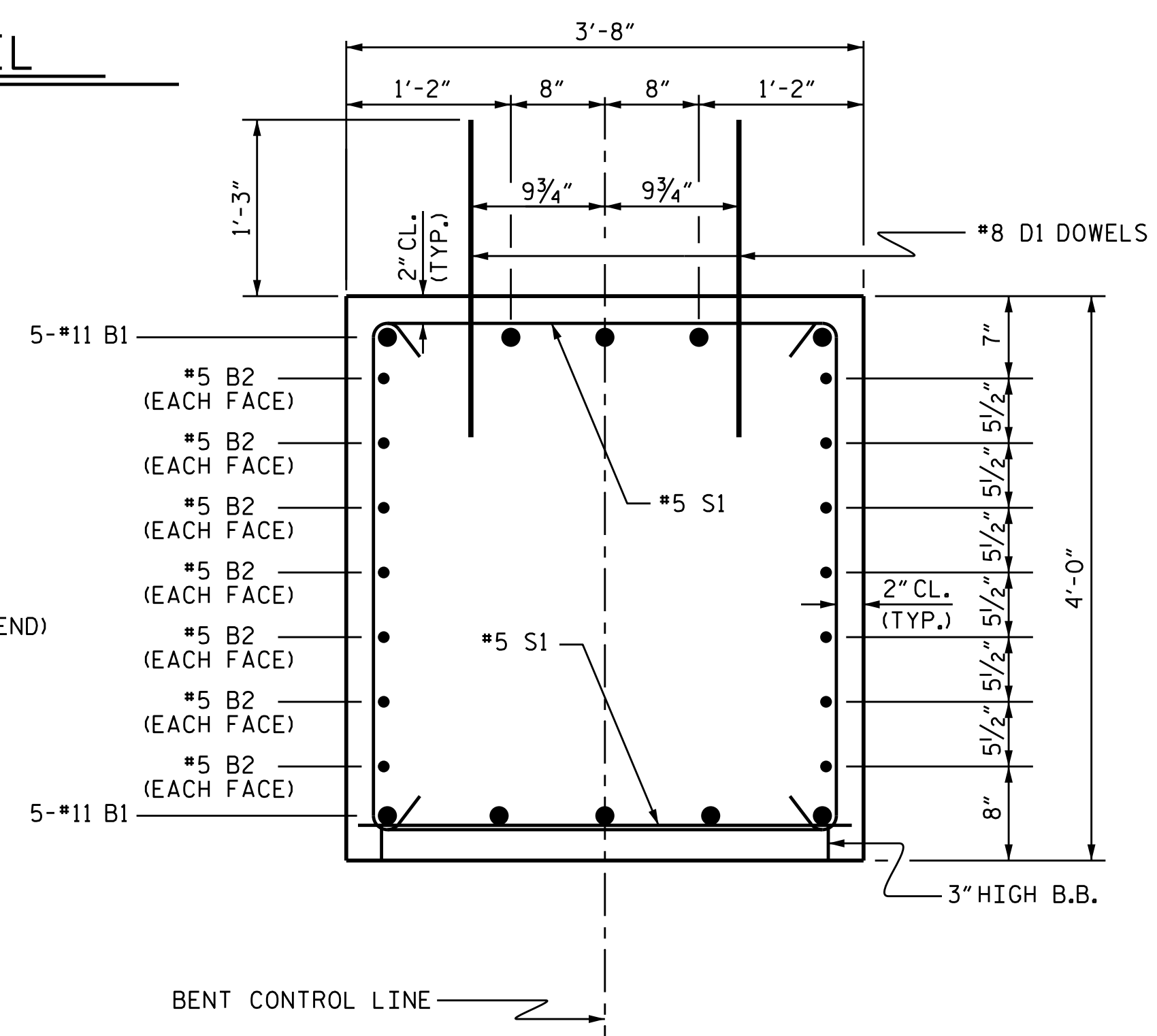
END ELEVATION



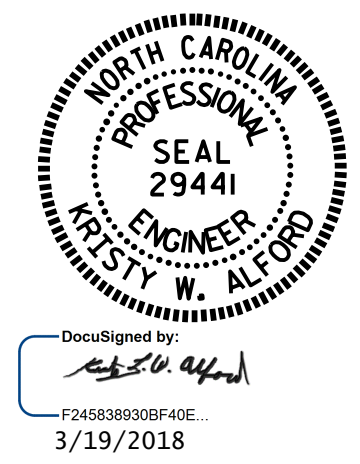
CONSTRUCTION JOINT DETAIL



END OF CAP VIEW (TYPICAL BOTH ENDS)



SECTION THRU CAP



PROJECT NO. B-5320
 GRANVILLE COUNTY
 STATION: 15+98.00 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUBSTRUCTURE
 BENT No. 2

| REVISIONS | | | | | | SHEET NO. | |
|-----------|-----|-------|-----|-----|-------|--------------|----|
| NO. | BY: | DATE: | NO. | BY: | DATE: | S-24 | |
| 1 | | | 3 | | | TOTAL SHEETS | 26 |
| 2 | | | 4 | | | | |

DRAWN BY: S. N. MEGAHED DATE: 01/2018
 CHECKED BY: R. L. CHESSON DATE: 01/2018
 DESIGN ENGINEER OF RECORD: R. L. CHESSON DATE: 01/2018

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED