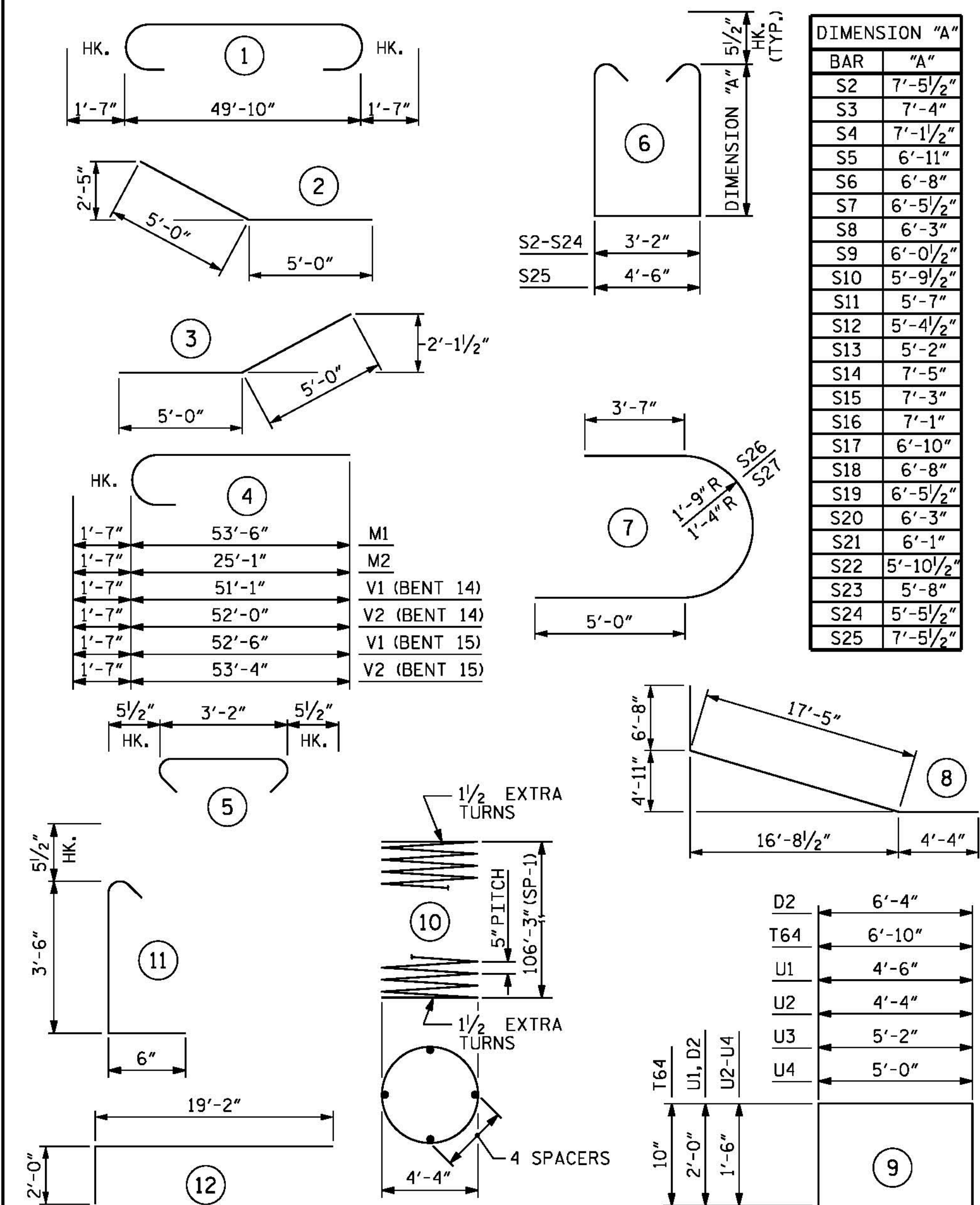


BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.
 * THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN DEFORMED BAR.

BILL OF MATERIAL

BENT 15

| BAR | NUMBER | SIZE | TYPE | LENGTH | WEIGHT | BAR | NUMBER | SIZE | TYPE | LENGTH | WEIGHT | BAR | NUMBER | SIZE | TYPE | LENGTH | WEIGHT |
|-----|--------|------|------|---------|--------|-----|--------|------|------|---------|--------|-----|--------|------|------|---------|--------|
| B1 | 11 | 11 | 1 | 53'-0" | 3097 | T1 | 57 | 9 | STR | 50'-3" | 9738 | T51 | 2 | 6 | STR | 15'-0" | 45 |
| B2 | 11 | 11 | STR | 49'-10" | 2912 | T2 | 38 | 9 | STR | 30'-7" | 3951 | T52 | 2 | 6 | STR | 15'-5" | 46 |
| B3 | 8 | 10 | STR | 40'-4" | 1388 | T3 | 38 | 9 | STR | 28'-0" | 3618 | T53 | 2 | 6 | STR | 15'-9" | 47 |
| B4 | 6 | 10 | STR | 42'-0" | 1084 | T4 | 6 | 9 | STR | 39'-6" | 806 | T54 | 2 | 6 | STR | 16'-2" | 49 |
| B5 | 8 | 10 | 2 | 10'-0" | 344 | T5 | 6 | 9 | STR | 44'-0" | 898 | T55 | 2 | 6 | STR | 16'-7" | 50 |
| B6 | 8 | 10 | 3 | 10'-0" | 344 | T6 | 6 | 9 | STR | 48'-7" | 991 | T56 | 2 | 6 | STR | 17'-0" | 51 |
| B7 | 14 | 7 | STR | 49'-10" | 1426 | T7 | 6 | 9 | STR | 53'-1" | 1083 | T57 | 2 | 6 | STR | 17'-4" | 52 |
| B8 | 2 | 7 | STR | 47'-4" | 193 | T8 | 6 | 9 | STR | 57'-8" | 1176 | T58 | 2 | 6 | STR | 17'-9" | 53 |
| B9 | 2 | 7 | STR | 44'-8" | 183 | T9 | 116 | 9 | STR | 18'-10" | 7428 | T59 | 2 | 6 | STR | 18'-2" | 55 |
| B10 | 44 | 4 | STR | 6'-3" | 184 | T10 | 4 | 9 | STR | 9'-1" | 124 | T60 | 2 | 6 | STR | 18'-6" | 56 |
| B11 | 11 | 4 | STR | 5'-2" | 38 | T11 | 4 | 9 | STR | 9'-6" | 129 | T61 | 20 | 6 | STR | 38'-6" | 1157 |
| B12 | 24 | 4 | STR | 4'-6" | 72 | T12 | 4 | 9 | STR | 9'-11" | 135 | T62 | 44 | 6 | 8 | 28'-5" | 1878 |
| | | | | | | T13 | 4 | 9 | STR | 10'-3" | 139 | T63 | 138 | 5 | STR | 7'-2" | 1032 |
| D1 | 26 | 6 | STR | 39'-4" | 1536 | T14 | 4 | 9 | STR | 10'-8" | 145 | T64 | 320 | 5 | 9 | 8'-6" | 2837 |
| D2 | 48 | 5 | 9 | 10'-4" | 517 | T15 | 4 | 9 | STR | 11'-1" | 151 | | | | | | |
| | | | | | | T16 | 4 | 9 | STR | 11'-6" | 156 | U1 | 50 | 4 | 9 | 8'-6" | 284 |
| M1 | 240 | 11 | 4 | 55'-1" | 70238 | T17 | 4 | 9 | STR | 11'-10" | 161 | U2 | 10 | 4 | 9 | 7'-4" | 49 |
| M2 | 240 | 11 | 4 | 26'-8" | 34003 | T18 | 4 | 9 | STR | 12'-3" | 167 | U3 | 5 | 4 | 9 | 8'-2" | 27 |
| M3 | 720 | 11 | STR | 55'-0" | 210395 | T19 | 4 | 9 | STR | 12'-8" | 172 | U4 | 5 | 4 | 9 | 8'-0" | 27 |
| M4 | 240 | 11 | STR | 28'-7" | 36447 | T20 | 4 | 9 | STR | 13'-0" | 177 | | | | | | |
| | | | | | | T21 | 4 | 9 | STR | 13'-5" | 182 | V1 | 36 | 11 | 4 | 54'-1" | 10344 |
| S1 | 110 | 5 | 5 | 4'-1" | 468 | T22 | 4 | 9 | STR | 13'-10" | 188 | V2 | 36 | 11 | 4 | 54'-11" | 10504 |
| S2 | 66 | 5 | 6 | 19'-0" | 1308 | T23 | 4 | 9 | STR | 14'-3" | 194 | V3 | 64 | 11 | STR | 23'-0" | 7821 |
| S3 | 2 | 5 | 6 | 18'-9" | 39 | T24 | 4 | 9 | STR | 14'-7" | 198 | V4 | 136 | 11 | 12 | 21'-2" | 15294 |
| S4 | 2 | 5 | 6 | 18'-4" | 38 | T25 | 4 | 9 | STR | 15'-0" | 204 | | | | | | |
| S5 | 2 | 5 | 6 | 17'-11" | 37 | T26 | 4 | 9 | STR | 15'-5" | 210 | | | | | | |
| S6 | 2 | 5 | 6 | 17'-5" | 36 | T27 | 4 | 9 | STR | 15'-9" | 214 | | | | | | |
| S7 | 2 | 5 | 6 | 17'-0" | 35 | T28 | 4 | 9 | STR | 16'-2" | 220 | | | | | | |
| S8 | 2 | 5 | 6 | 16'-7" | 35 | T29 | 4 | 9 | STR | 16'-7" | 226 | | | | | | |
| S9 | 2 | 5 | 6 | 16'-2" | 34 | T30 | 4 | 9 | STR | 17'-0" | 231 | | | | | | |
| S10 | 2 | 5 | 6 | 15'-8" | 33 | T31 | 4 | 9 | STR | 17'-4" | 236 | | | | | | |
| S11 | 2 | 5 | 6 | 15'-3" | 32 | T32 | 4 | 9 | STR | 17'-9" | 241 | | | | | | |
| S12 | 2 | 5 | 6 | 14'-10" | 31 | T33 | 4 | 9 | STR | 18'-2" | 247 | | | | | | |
| S13 | 2 | 5 | 6 | 14'-5" | 30 | T34 | 4 | 9 | STR | 18'-6" | 252 | | | | | | |
| S14 | 2 | 5 | 6 | 18'-11" | 39 | T35 | 58 | 6 | STR | 18'-10" | 1641 | | | | | | |
| S15 | 2 | 5 | 6 | 18'-7" | 39 | T36 | 2 | 6 | STR | 9'-1" | 27 | | | | | | |
| S16 | 2 | 5 | 6 | 18'-3" | 38 | T37 | 2 | 6 | STR | 9'-6" | 29 | | | | | | |
| S17 | 2 | 5 | 6 | 17'-9" | 37 | T38 | 2 | 6 | STR | 9'-11" | 30 | | | | | | |
| S18 | 2 | 5 | 6 | 17'-5" | 36 | T39 | 2 | 6 | STR | 10'-3" | 31 | | | | | | |
| S19 | 2 | 5 | 6 | 17'-0" | 35 | T40 | 2 | 6 | STR | 10'-8" | 32 | | | | | | |
| S20 | 2 | 5 | 6 | 16'-7" | 35 | T41 | 2 | 6 | STR | 11'-1" | 33 | | | | | | |
| S21 | 2 | 5 | 6 | 16'-3" | 34 | T42 | 2 | 6 | STR | 11'-6" | 35 | | | | | | |
| S22 | 2 | 5 | 6 | 15'-10" | 33 | T43 | 2 | 6 | STR | 11'-10" | 36 | | | | | | |
| S23 | 2 | 5 | 6 | 15'-5" | 32 | T44 | 2 | 6 | STR | 12'-3" | 37 | | | | | | |
| S24 | 2 | 5 | 6 | 15'-0" | 31 | T45 | 2 | 6 | STR | 12'-8" | 38 | | | | | | |
| S25 | 24 | 5 | 6 | 20'-4" | 509 | T46 | 2 | 6 | STR | 13'-0" | 39 | | | | | | |
| S26 | 404 | 5 | 7 | 14'-1" | 5934 | T47 | 2 | 6 | STR | 13'-5" | 40 | | | | | | |
| S27 | 184 | 5 | 7 | 12'-10" | 2463 | T48 | 2 | 6 | STR | 13'-10" | 42 | | | | | | |
| S28 | 808 | 5 | 11 | 4'-6" | 3757 | T49 | 2 | 6 | STR | 14'-3" | 43 | | | | | | |
| | | | | | | T50 | 2 | 6 | STR | 14'-7" | 44 | | | | | | |

EPOXY COATED REINFORCING STEEL LBS. 467,932

SP-1 10 * 10 3471'-6" 36,208

EPOXY COATED SPIRAL COLUMN REINFORCING STEEL LBS. 36,208

CLASS "AA" CONCRETE BREAKDOWN
 POUR #2 - FOOTING C.Y. 373.2
 POUR #3 - STRUT C.Y. 61.5
 POUR #4 - COLUMNS C.Y. 108.0
 POUR #5 - CAP C.Y. 74.0

CLASS "AA" CONCRETE C.Y. 616.7

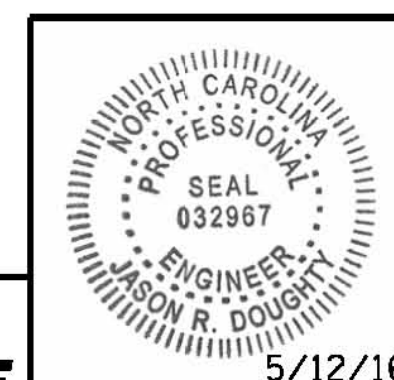
5'-0" Ø DRILLED PIERS QUANTITIES:
 DRILLED PIER LIN. FT. 1,067.4
 POUR 1 - DRILLED PIER C.Y. 776.3
 PERMANENT STEEL CASING FOR 5'-0" Ø DRILLED PIERS LIN. FT. 427.4
 CSL TUBES LIN. FT. 5,412

NOTES

FOR NOTES, SEE SHEET 1 OF 5.

PROJECT NO. B-4929
PENDER COUNTY
 STATION: 38+13.81 -L2-

SHEET 5 OF 5



PARSONS BRINCKERHOFF
 434 FAYETTEVILLE STREET
 SUITE 1500
 RALEIGH, NC 27601
 LICENSE NO. F-0165

DocuSigned by:
 Jason R. Doughty
 00F1C96448274F7

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUBSTRUCTURE
 BENTS 14 AND 15
 BILL OF MATERIALS

| REVISIONS | | | | | | SHEET NO. |
|-----------|-----|-------|-----|-----|-------|------------------|
| NO. | BY: | DATE: | NO. | BY: | DATE: | SHEET NO. |
| 1 | | | 3 | | | TOTAL SHEETS 278 |
| 2 | | | 4 | | | |

DESIGNED BY: E. ULLMER DATE: MAR 2016
 DRAWN BY: M. HOBBS DATE: MAR 2016
 CHECKED BY: B. LOFLIN DATE: MAR 2016
 DESIGN ENGINEER OF RECORD: J. DOUGHTY DATE: MAY 2016

5/10/2016
 400_351_B4929_SMU_IB14_5.dgn