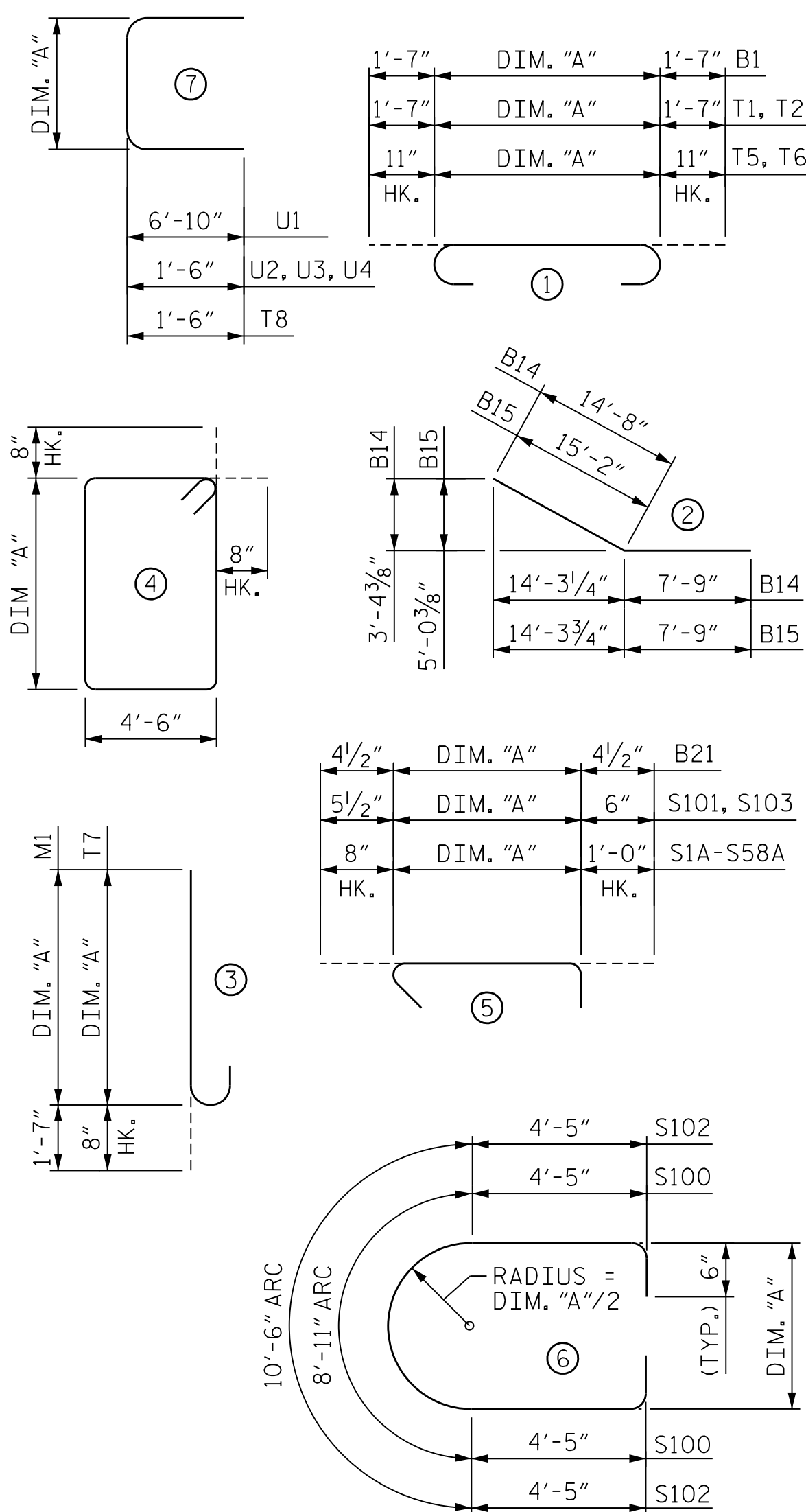


BILL OF MATERIAL - BENT 7

| BAR | NO. | SIZE | TYPE | DIM. "A" | LENGTH | WEIGHT | BAR | NO. | SIZE | TYPE | DIM. "A" | LENGTH | WEIGHT |
|-----|-----|------|------|------------|---------|--------|------|-----|------|------|------------|---------|--------|
| B1 | 12 | #11 | 1 | 41'-6" | 44'-8" | 2,848 | S55 | 4 | #6 | 4 | 7'-5" | 25'-2" | 151 |
| B2 | 18 | #11 | STR. | -- | 40'-10" | 3,905 | S56 | 2 | #6 | 4 | 7'-1" | 24'-6" | 74 |
| B3 | 22 | #8 | STR. | -- | 41'-8" | 2,448 | S57 | 2 | #6 | 4 | 6'-11 1/2" | 24'-3" | 73 |
| B4 | 2 | #8 | STR. | -- | 38'-5" | 205 | S58 | 2 | #6 | 4 | 6'-9 1/2" | 23'-11" | 72 |
| B5 | 2 | #8 | STR. | -- | 35'-9" | 191 | | | | | | | |
| B6 | 2 | #8 | STR. | -- | 33'-2" | 177 | | | | | | | |
| B7 | 2 | #8 | STR. | -- | 30'-6" | 163 | S1A | 2 | #6 | 5 | 6'-10" | 8'-6" | 26 |
| B8 | 2 | #8 | STR. | -- | 27'-11" | 149 | S2A | 2 | #6 | 5 | 6'-11" | 8'-7" | 26 |
| B9 | 2 | #8 | STR. | -- | 25'-3" | 135 | S3A | 2 | #6 | 5 | 7'-1" | 8'-9" | 26 |
| B10 | 2 | #8 | STR. | -- | 22'-7" | 121 | S4A | 4 | #6 | 5 | 7'-4" | 9'-0" | 54 |
| B11 | 2 | #8 | STR. | -- | 20'-0" | 107 | S5A | 2 | #6 | 5 | 7'-6" | 9'-2" | 28 |
| B12 | 2 | #8 | STR. | -- | 17'-3" | 92 | S6A | 2 | #6 | 5 | 7'-8" | 9'-4" | 28 |
| B13 | 2 | #8 | STR. | -- | 14'-7" | 78 | S7A | 2 | #6 | 5 | 7'-9" | 9'-5" | 28 |
| B14 | 12 | #8 | 2 | -- | 22'-5" | 718 | S8A | 2 | #6 | 5 | 7'-11" | 9'-7" | 29 |
| B15 | 12 | #8 | 2 | -- | 22'-11" | 734 | S9A | 2 | #6 | 5 | 8'-0" | 9'-8" | 29 |
| | | | | | | | S10A | 2 | #6 | 5 | 8'-2" | 9'-10" | 30 |
| B20 | 22 | #4 | STR. | -- | 6'-8" | 98 | S11A | 2 | #6 | 5 | 8'-4" | 10'-0" | 30 |
| B21 | 11 | #4 | 5 | 6'-8" | 7'-5" | 54 | S12A | 2 | #6 | 5 | 8'-5" | 10'-1" | 30 |
| | | | | | | | S13A | 2 | #6 | 5 | 8'-7" | 10'-3" | 31 |
| | | | | | | | S14A | 2 | #6 | 5 | 8'-8" | 10'-4" | 31 |
| M1 | 76 | #11 | 3 | 13'-0" | 14'-7" | 5,889 | S15A | 2 | #6 | 5 | 8'-10" | 10'-6" | 32 |
| | | | | | | | S16A | 2 | #6 | 5 | 9'-0" | 10'-8" | 32 |
| S1 | 2 | #6 | 4 | 6'-9 1/2" | 23'-11" | 72 | S17A | 2 | #6 | 5 | 9'-2" | 10'-10" | 33 |
| S2 | 2 | #6 | 4 | 6'-11" | 24'-2" | 73 | S18A | 2 | #6 | 5 | 9'-3" | 10'-11" | 33 |
| S3 | 2 | #6 | 4 | 7'-0 1/2" | 24'-5" | 73 | S19A | 2 | #6 | 5 | 9'-5" | 11'-1" | 33 |
| S4 | 4 | #6 | 4 | 7'-4" | 25'-0" | 150 | S20A | 2 | #6 | 5 | 9'-7" | 11'-3" | 34 |
| S5 | 2 | #6 | 4 | 7'-5 1/2" | 25'-3" | 76 | S21A | 2 | #6 | 5 | 9'-8" | 11'-4" | 34 |
| S6 | 2 | #6 | 4 | 7'-7 1/2" | 25'-7" | 77 | S22A | 2 | #6 | 5 | 9'-10" | 11'-6" | 35 |
| S7 | 2 | #6 | 4 | 7'-9" | 25'-10" | 78 | S23A | 2 | #6 | 5 | 9'-11" | 11'-7" | 35 |
| S8 | 2 | #6 | 4 | 7'-10 1/2" | 26'-1" | 78 | S24A | 2 | #6 | 5 | 10'-1" | 11'-9" | 35 |
| S9 | 2 | #6 | 4 | 8'-0" | 26'-4" | 79 | S25A | 2 | #6 | 5 | 10'-2" | 11'-10" | 36 |
| S10 | 2 | #6 | 4 | 8'-2" | 26'-8" | 80 | S26A | 2 | #6 | 5 | 10'-5" | 12'-1" | 36 |
| S11 | 2 | #6 | 4 | 8'-3 1/2" | 26'-11" | 81 | S27A | 2 | #6 | 5 | 10'-6" | 12'-2" | 37 |
| S12 | 2 | #6 | 4 | 8'-5" | 27'-2" | 82 | S28A | 8 | #6 | 5 | 10'-9" | 12'-5" | 149 |
| S13 | 2 | #6 | 4 | 8'-7" | 27'-6" | 83 | S29A | 8 | #6 | 5 | 10'-10" | 12'-6" | 150 |
| S14 | 2 | #6 | 4 | 8'-8 1/2" | 27'-9" | 83 | S30A | 8 | #6 | 5 | 11'-1" | 12'-9" | 153 |
| S15 | 2 | #6 | 4 | 8'-10" | 28'-0" | 84 | S31A | 8 | #6 | 5 | 11'-2" | 12'-10" | 154 |
| S16 | 2 | #6 | 4 | 9'-0" | 28'-4" | 85 | S32A | 2 | #6 | 5 | 11'-0" | 12'-8" | 38 |
| S17 | 2 | #6 | 4 | 9'-1 1/2" | 28'-7" | 86 | S33A | 2 | #6 | 5 | 10'-10" | 12'-6" | 38 |
| S18 | 2 | #6 | 4 | 9'-3" | 28'-10" | 87 | S34A | 2 | #6 | 5 | 10'-8" | 12'-4" | 37 |
| S19 | 2 | #6 | 4 | 9'-5" | 29'-2" | 88 | S35A | 2 | #6 | 5 | 10'-7" | 12'-3" | 37 |
| S20 | 2 | #6 | 4 | 9'-6 1/2" | 29'-5" | 88 | S36A | 2 | #6 | 5 | 10'-5" | 12'-1" | 36 |
| S21 | 2 | #6 | 4 | 9'-8" | 29'-8" | 89 | S37A | 2 | #6 | 5 | 10'-2" | 11'-10" | 36 |
| S22 | 2 | #6 | 4 | 9'-9 1/2" | 29'-11" | 90 | S38A | 2 | #6 | 5 | 10'-1" | 11'-9" | 35 |
| S23 | 2 | #6 | 4 | 9'-11 1/2" | 30'-3" | 91 | S39A | 2 | #6 | 5 | 9'-11" | 11'-7" | 35 |
| S24 | 2 | #6 | 4 | 10'-1" | 30'-6" | 92 | S40A | 2 | #6 | 5 | 9'-9" | 11'-5" | 34 |
| S25 | 2 | #6 | 4 | 10'-2 1/2" | 30'-9" | 92 | S41A | 2 | #6 | 5 | 9'-7" | 11'-3" | 34 |
| S26 | 2 | #6 | 4 | 10'-4 1/2" | 31'-1" | 93 | S42A | 2 | #6 | 5 | 9'-5" | 11'-1" | 33 |
| S27 | 2 | #6 | 4 | 10'-6" | 31'-4" | 94 | S43A | 2 | #6 | 5 | 9'-4" | 11'-0" | 33 |
| S28 | 8 | #6 | 4 | 10'-8 1/2" | 31'-9" | 382 | S44A | 2 | #6 | 5 | 9'-2" | 10'-10" | 33 |
| S29 | 8 | #6 | 4 | 10'-9 1/2" | 31'-11" | 384 | S45A | 2 | #6 | 5 | 8'-11" | 10'-7" | 32 |
| S30 | 8 | #6 | 4 | 11'-1" | 32'-6" | 391 | S46A | 2 | #6 | 5 | 8'-10" | 10'-6" | 32 |
| S31 | 8 | #6 | 4 | 11'-2" | 32'-8" | 393 | S47A | 2 | #6 | 5 | 8'-8" | 10'-4" | 31 |
| S32 | 2 | #6 | 4 | 11'-0" | 32'-4" | 97 | S48A | 2 | #6 | 5 | 8'-6" | 10'-2" | 31 |
| S33 | 2 | #6 | 4 | 10'-10" | 32'-0" | 96 | S49A | 2 | #6 | 5 | 8'-4" | 10'-0" | 30 |
| S34 | 2 | #6 | 4 | 10'-8" | 31'-8" | 95 | S50A | 2 | #6 | 5 | 8'-2" | 9'-10" | 30 |
| S35 | 2 | #6 | 4 | 10'-6 1/2" | 31'-5" | 94 | S51A | 2 | #6 | 5 | 8'-1" | 9'-9" | 29 |
| S36 | 2 | #6 | 4 | 10'-4 1/2" | 31'-1" | 93 | S52A | 2 | #6 | 5 | 7'-11" | 9'-7" | 29 |
| S37 | 2 | #6 | 4 | 10'-2 1/2" | 30'-9" | 92 | S53A | 2 | #6 | 5 | 7'-9" | 9'-5" | 28 |
| S38 | 2 | #6 | 4 | 10'-0 1/2" | 30'-5" | 91 | S54A | 2 | #6 | 5 | 7'-7" | 9'-3" | 28 |
| S39 | 2 | #6 | 4 | 9'-11" | 30'-2" | 91 | S55A | 4 | #6 | 5 | 7'-5" | 9'-1" | 55 |
| S40 | 2 | #6 | 4 | 9'-9" | 29'-10" | 90 | S56A | 2 | #6 | 5 | 7'-1" | 8'-9" | 26 |
| S41 | 2 | #6 | 4 | 9'-7" | 29'-6" | 89 | S57A | 2 | #6 | 5 | 7'-0" | 8'-8" | 26 |
| S42 | 2 | #6 | 4 | 9'-5 1/2" | 29'-3" | 88 | S58A | 2 | #6 | 5 | 6'-10" | 8'-6" | 26 |
| S43 | 2 | #6 | 4 | 9'-3 1/2" | 28'-11" | 87 | | | | | | | |
| S44 | 2 | #6 | 4 | 9'-1 1/2" | 28'-7" | 86 | S100 | 86 | #5 | 6 | 5'-8" | 18'-9" | 1,682 |
| S45 | 2 | #6 | 4 | 8'-11 1/2" | 28'-3" | 85 | S101 | 129 | #5 | 5 | 5'-8" | 6'-8" | 897 |
| S46 | 2 | #6 | 4 | 8'-10" | 28'-0" | 84 | S102 | 82 | #5 | 6 | 6'-8" | 20'-4" | 1,739 |
| S47 | 2 | #6 | 4 | 8'-8" | 27'-8" | 83 | S103 | 123 | #5 | 5 | 6'-8" | 7'-8" | 984 |
| S48 | 2 | #6 | 4 | 8'-6" | 27'-4" | 82 | | | | | | | |
| S49 | 2 | #6 | 4 | 8'-4" | 27'-0" | 81 | T1 | 55 | #11 | 1 | 32'-6" | 35'-8" | 10,422 |
| S50 | 2 | #6 | 4 | 8'-2 1/2" | 26'-9" | 80 | T2 | 65 | #11 | 1 | 27'-6" | 30'-8" | 10,591 |
| S51 | 2 | #6 | 4 | 8'-0 1/2" | 26'-5" | 79 | T3 | 20 | #5 | STR. | -- | 32'-6" | 678 |
| S52 | 2 | #6 | 4 | 7'-10 1/2" | 26'-1" | 78 | T4 | 20 | #5 | STR. | -- | 27'-6" | 574 |
| S53 | 2 | #6 | 4 | 7'-8 1/2" | 25'-9" | 77 | T5 | 30 | #8 | 1 | 32'-6" | 34'-4" | 2,750 |
| S54 | 2 | #6 | 4 | 7'-7" | 25'-6" | 77 | T6 | 36 | #8 | 1 | 27'-6" | 29'-4" | 2,820 |
| | | | | | | | Δ T7 | 32 | #6 | 3 | 3'-11" | 4'-7" | 220 |
| | | | | | | | T8 | 240 | #5 | 7 | 5'-8" | 8'-8" | 2,169 |

BAR TYPES

ALL BAR DIMENSIONS ARE OUT TO OUT



SUMMARY OF QUANTITIES - BENT 7

| REINFORCING STEEL | LBS. | 81,642 |
|---|------|--------|
| CLASS AA CONCRETE: | | |
| POUR #1 - FOOTING | C.Y. | 239.6 |
| POUR #2 - COLUMN | C.Y. | 60.4 |
| POUR #3 - COLUMN | C.Y. | 42.9 |
| POUR #4 - CAP | C.Y. | 108.2 |
| TOTAL | C.Y. | 451.1 |
| HP 14x73 STEEL PILES | NO. | 40 |
| | LF | 2,800 |
| PILE DRIVING EQUIPMENT SETUP FOR HP 14X73 STEEL PILES | EA. | 40 |

NOTE

SEE SHEET 1 OF 5 FOR NOTES.

PROJECT NO. U-2579AB
FORSYTH COUNTY
 STATION: 60+66.06 -Y15FLYAC-

SHEET 5 OF 5

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUBSTRUCTURE BENT 7 BILL OF MATERIALS



Dominic A. Colletti 10/15/2021

REVISIONS

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

SHEET NO.
S04-127
TOTAL SHEETS
144



DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

PLOT DRIVER: NCDOT.pdf_color_eng-50dpi
 USER: PETERSON DATE: 10/14/2021
 FILE: ...SUBSTR

DES BY: B. PETERSON DATE: 10/19 DWG BY: B. PETERSON DATE: 10/19
 DES CHK: S. NIFONG DATE: 10/19 CHK BY: M. WERNER DATE: 10/19