

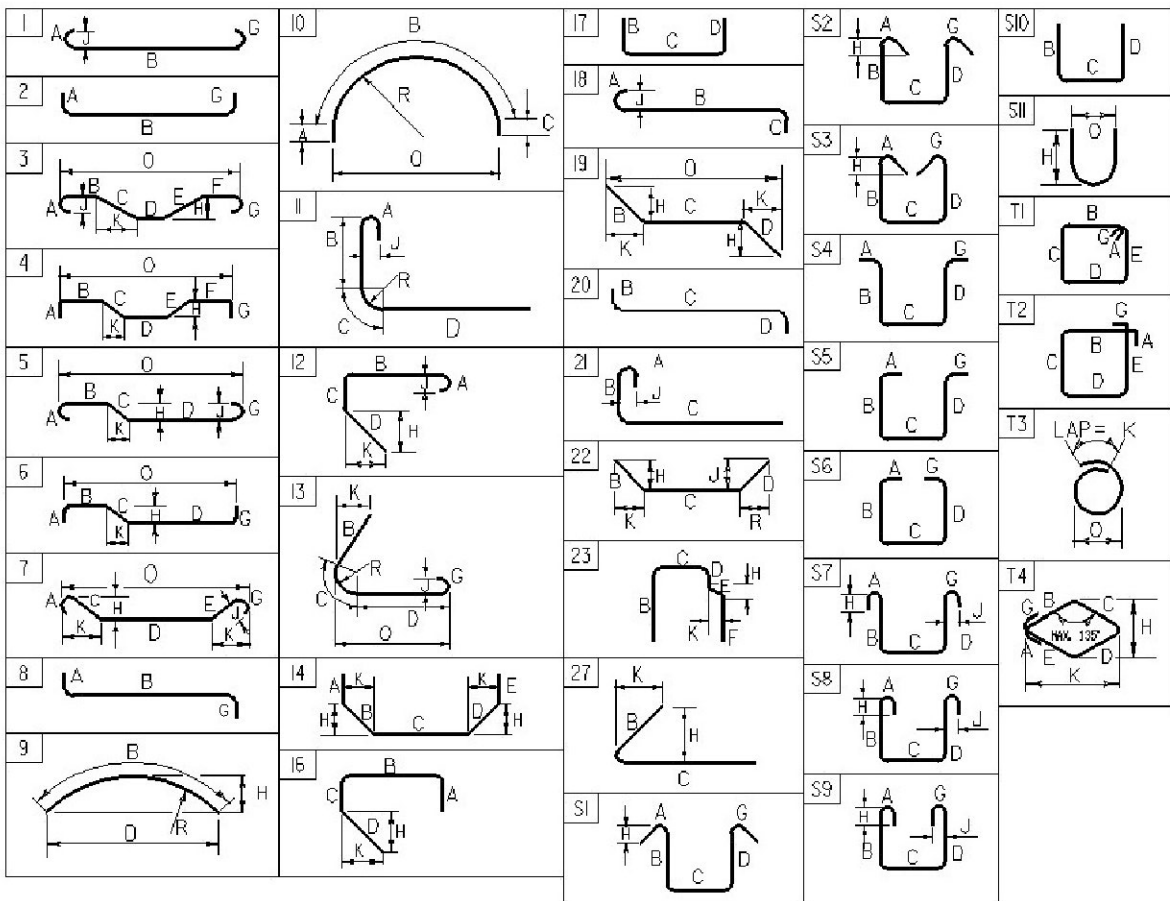
STATE OF VERMONT  
AGENCY OF TRANSPORTATION

REINFORCING STEEL SCHEDULE

| ITEM         | EACH | SIZE | LENGTH  | MARK   | TYPE | A      | B      | C     | D     | E | F | G      | H | J      | K | R | O | ITEM | EACH | SIZE | LENGTH | MARK | TYPE | A | B | C | D | E | F | G | H | J | K | R | O |
|--------------|------|------|---------|--------|------|--------|--------|-------|-------|---|---|--------|---|--------|---|---|---|------|------|------|--------|------|------|---|---|---|---|---|---|---|---|---|---|---|---|
| SLAB         |      |      |         |        |      |        |        |       |       |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
| #            | 15   | 5    | 40'-1"  | ES501  | 2    | 0'-10" | 38'-5" |       |       |   |   | 0'-10" |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 80   | 5    | 10'-4"  | ES502  | 58   | 0'-10" | 1'-4"  | 6'-0" | 1'-4" |   |   | 0'-10" |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 20   | 5    | 6'-10"  | ES503  | 2    | 0'-10" | 6'-0"  |       |       |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 2    | 5    | 23'-4"  | ES504  | STR  | 23'-4" |        |       |       |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 40   | 6    | 23'-4"  | ES601  | STR  | 23'-4" |        |       |       |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
| #            | 37   | 6    | 6'-0"   | ES602  | STR  | 6'-0"  |        |       |       |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
| #            | 49   | 10   | 41'-8"  | ES1001 | 1    | 1'-10" | 38'-5" |       |       |   |   | 1'-5"  |   | 1'-1"  |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
| ABUTMENT #1  |      |      |         |        |      |        |        |       |       |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
| #            | 7    | 5    | 34'-1"  | 1EA501 | STR  | 34'-1" |        |       |       |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 15   | 5    | 34'-1"  | 1A501  | STR  | 34'-1" |        |       |       |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
| # ▲          | 106  | 7    | 11'-4"  | 1A701  | 2    | 2'-7"  | 8'-9"  |       |       |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
| WING WALL #1 |      |      |         |        |      |        |        |       |       |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 12   | 5    | 8'-9"   | 1W501  | STR  | 8'-9"  |        |       |       |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 12   | 5    | 5'-11"  | 1W502  | S10  |        | 2'-2"  | 1'-7" | 2'-2" |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 10   | 5    | 9'-11"  | 1W503  | 27   |        | 7'-9"  | 2'-2" |       |   |   | 7'-6"  |   | 2'-0"  |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 10   | 5    | 12'-10" | 1W504  | 27   |        | 8'-1"  | 4'-9" |       |   |   | 7'-10" |   | 2'-1"  |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 10   | 5    | 6'-11"  | 1W505  | 27   |        | 2'-2"  | 4'-9" |       |   |   | 2'-1"  |   | 0'-7"  |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
| WING WALL #2 |      |      |         |        |      |        |        |       |       |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 12   | 5    | 8'-6"   | 2W501  | STR  | 8'-6"  |        |       |       |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 12   | 5    | 5'-11"  | 2W502  | S10  |        | 2'-2"  | 1'-7" | 2'-2" |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 10   | 5    | 9'-10"  | 2W503  | 22   |        | 7'-8"  | 2'-2" |       |   |   | 7'-5"  |   | 2'-0"  |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 10   | 5    | 11'-8"  | 2W504  | 22   |        | 7'-1"  | 4'-7" |       |   |   | 6'-10" |   | 1'-10" |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 10   | 5    | 6'-9"   | 2W505  | 22   |        | 2'-2"  | 4'-7" |       |   |   | 2'-1"  |   | 0'-7"  |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
| ABUTMENT #2  |      |      |         |        |      |        |        |       |       |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
| #            | 7    | 5    | 32'-9"  | 2EA501 | STR  | 32'-9" |        |       |       |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
| #            | 17   | 5    | 32'-9"  | 2A501  | STR  | 32'-9" |        |       |       |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
| # ▲          | 102  | 7    | 12'-1"  | 2A701  | 2    | 2'-7"  | 9'-6"  |       |       |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
| WING WALL #3 |      |      |         |        |      |        |        |       |       |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 12   | 5    | 9'-6"   | 3W501  | STR  | 9'-6"  |        |       |       |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 12   | 5    | 5'-11"  | 3W502  | S10  |        | 2'-2"  | 1'-7" | 2'-2" |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 11   | 5    | 9'-8"   | 3W503  | 22   |        | 7'-6"  | 2'-2" |       |   |   | 7'-4"  |   | 1'-3"  |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 11   | 5    | 11'-4"  | 3W504  | 22   |        | 7'-2"  | 4'-2" |       |   |   | 7'-0"  |   | 1'-3"  |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 11   | 5    | 6'-4"   | 3W505  | 22   |        | 2'-2"  | 4'-2" |       |   |   | 2'-1"  |   | 0'-5"  |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
| WING WALL #4 |      |      |         |        |      |        |        |       |       |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 12   | 5    | 9'-6"   | 4W501  | STR  | 9'-6"  |        |       |       |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 12   | 5    | 5'-11"  | 4W502  | S10  |        | 2'-2"  | 1'-7" | 2'-2" |   |   |        |   |        |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 11   | 5    | 9'-8"   | 4W503  | 27   |        | 7'-6"  | 2'-2" |       |   |   | 7'-5"  |   | 0'-8"  |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 11   | 5    | 11'-11" | 4W504  | 27   |        | 7'-8"  | 4'-3" |       |   |   | 7'-7"  |   | 0'-8"  |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|              | 11   | 5    | 6'-5"   | 4W505  | 27   |        | 2'-2"  | 4'-3" |       |   |   | 2'-1"  |   | 0'-2"  |   |   |   |      |      |      |        |      |      |   |   |   |   |   |   |   |   |   |   |   |   |

~ NOTES ~

- UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M31 (ASTM A 915-51). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
- FOR TYPICAL BENDING DETAILS, RECOMMENDED P/N DIAMETER "D" OF BENDS AND HOOKS, AND OTHER STANDARD PRACTICE, SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".
- BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
- ALL DIMENSIONS ARE CUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
- "J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
- "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
- WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
- ▲ DENOTES BARS TO BE CUT IN FIELD.
- ⊕ DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
- △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
- E IN BAR MARK PREFIX DENOTES EPOXY COATED REINFORCING STEEL.



| ASTM STANDARD<br>REINFORCING BARS |                              |                                                        |                          |                     |
|-----------------------------------|------------------------------|--------------------------------------------------------|--------------------------|---------------------|
| BAR SIZE<br>DESIGNATION           | WEIGHT<br>POUNDS<br>PER FOOT | NOMINAL DIMENSIONS ROUND SECTION<br>DIAMETER<br>INCHES | AREA<br>SQUARE<br>INCHES | PERIMETER<br>INCHES |
| #3                                | 0.376                        | 0.375                                                  | 0.11                     | 1.178               |
| #4                                | 0.668                        | 0.500                                                  | 0.20                     | 1.571               |
| #5                                | 1.043                        | 0.625                                                  | 0.31                     | 1.963               |
| #6                                | 1.502                        | 0.750                                                  | 0.44                     | 2.356               |
| #7                                | 2.044                        | 0.875                                                  | 0.60                     | 2.749               |
| #8                                | 2.670                        | 1.000                                                  | 0.79                     | 3.142               |
| #9                                | 3.400                        | 1.128                                                  | 1.00                     | 3.544               |
| #10                               | 4.303                        | 1.270                                                  | 1.27                     | 3.990               |
| #11                               | 5.313                        | 1.410                                                  | 1.56                     | 4.430               |
| #14                               | 7.65                         | 1.693                                                  | 2.25                     | 5.32                |
| #18                               | 13.60                        | 2.257                                                  | 4.00                     | 7.09                |

PROJECT NAME: MENDON  
PROJECT NUMBER: BRO 1443 (43)  
FILE NAME: s09j272rns.dgn PLOT DATE: 9/30/2010  
PROJECT MANAGER: K. HIGGINS DRAWN BY: J. GRIFFIN  
DESIGNED BY: G. LAROCHE CHECKED BY: J. SALVATORI  
REINFORCING STEEL SCHEDULE SHEET SHEET 19 OF 33