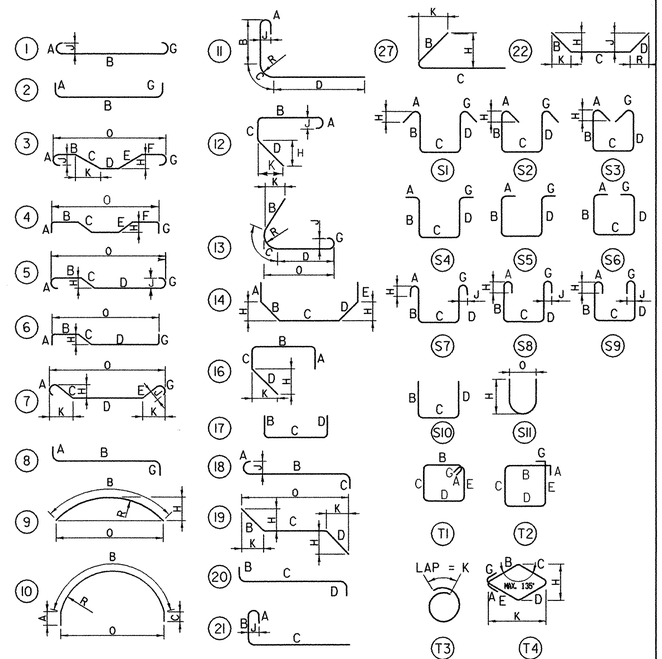
| ITEM | NO. PIECES | SIZE | LENGTH | MARK | TYPE | A | B | C | D | E | F | G | H | J | K | R | O |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **SLAB** | | | | | | | | | | | | | | |
| 1 | 207 | 5 | 31'-0" | ES501 | STR | | | | | | | | | | | | |
| 2 | 71 | 5 | 29'-0" | ES502△ | STR | | | | | | | | | | | | |
| 3 | 38 | 5 | 21'-0" | ES503△ | STR | | | | | | | | | | | | |
| 4 | 234 | 5 | 4'-10" | ES504 | S5 | 0'-6" | 1'-4" | 0'-10" | 1'-4" | | | 0'-10" | | | | | |
| 5 | 8 | 5 | 23'-1" | ES505 | STR | | | | | | | | | | | | |
| 6 | 12 | 5 | 23'-1" | ES506 | STR | | | | | | | | | | | | |
| 7 | 28 | 5 | 9'-2" | ES508 | S5 | 0'-10" | 3'-5" | 0'-8" | 3'-5" | | | 0'-10" | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | 282 | 6 | 23'-1" | ES601 | STR | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| | | | **PIER** | | | | | | | | | | | | | | |
| 14 | 10 | 5 | 17'-0" | EP501△ | STR | | | | | | | | | | | | |
| 15 | 8 | 5 | 3'-5" | EP502 | 14 | | 1'-5" | 2'-0" | | | | | 1'-0" | | | | |
| 16 | 19 | 5 | 9'-2" | EP503 | T1 | 0'-4" | 2'-3" | 2'-0" | 2'-3" | 2'-0" | | 0'-4" | | | | | |
| 17 | 4 | 5 | 8'-3" | EP504 | S11 | | 3-'6" | 2'-3" | 3'-6" | | | | | | | | |
| 18 | 2 | 5 | 8'-4" | EP505 | T1 | 0'-4" | 2'-3" | 0'-10" | 2'-3" | 0'-10" | | 0'-4" | | | | | |
| 19 | 12 | 5 | 2'-3" | EP506 | STR | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | 6 | 6 | 20'-7" | EP601△ | STR | | | | | | | | | | | | |
| 22 | 8 | 6 | 5'-2" | EP602 | 17 | | 1'-2" | 4'-0" | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| | | | **WINGWALL NO.1** | | | | | | | | | | | | | | |
| 24 | 3 | 5 | 2'-3" | 1W501 | STR | | | | | | | | | | | | |
| 25 | 6 | 5 | 2'-4" | 1W502 | 16 | | | 1'-0" | 1'-4" | | | | 1'-3" | | 0'-6" | | |
| 26 | 10 | 5 | 4'-6" | E1W503△ | STR | | | | | | | | | | | | |
| 27 | 8 | 5 | 5'-5" | E1W504 | S9 | 0'-7" | 2'-0" | 10" | 2'-0" | | | | 0'-5" | 0'-5" | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| | | | **WINGWALL NO.3** | | | | | | | | | | | | | | |
| 32 | 28 | 5 | 9'-6" | 3W501△ | STR | | | | | | | | | | | | |
| 33 | 14 | 5 | 4'-10" | 3W502 | 2 | 1'-0" | 3'-10" | | | | | | | | | | |
| 34 | 14 | 5 | 7'-8" | 3W503 | 2 | 1'-0" | 6'-8" | | | | | | | | | | |
| 35 | 16 | 5 | 5'-0" | 3W504△ | STR | | | | | | | | | | | | |
| 36 | 14 | 5 | 6'-1" | E3W505 | S10 | | 3'-3" | 0'-10" | 1'-0" | | | | | | | | |
| 37 | 4 | 5 | 9'-6" | E3W506 | STR | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | | | | | |
| 39 | 28 | 6 | 6'-6" | 3W601 | STR | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | | | | | |
| 41 | | | | | | | | | | | | | | | | | |
| | | | **WINGWALL NO.4** | | | | | | | | | | | | | | |
| 42 | 28 | 5 | 9'-6" | 4W501△ | STR | | | | | | | | | | | | |
| 43 | 14 | 5 | 4'-10" | 4W502 | 2 | 1'-0" | 3'-10" | | | | | | | | | | |
| 44 | 14 | 5 | 7'-8" | 4W503 | 2 | 1'-0" | 6'-8" | | | | | | | | | | |
| 45 | 16 | 5 | 5'-0" | 4W504△ | STR | | | | | | | | | | | | |
| 46 | 14 | 5 | 6'-1" | E4W505 | S10 | | 3'-3" | 0'-10" | 1'-0" | | | | | | | | |
| 47 | 4 | 5 | 9'-6" | E4W506 | STR | | | | | | | | | | | | |
| 48 | | | | | | | | | | | | | | | | | |
| 49 | 28 | 6 | 6'-6" | 4W601 | STR | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | | | | | | |
| | | | **ABUTMENT NO. 1** | | | | | | | | | | | | | | |
| 52 | 8 | 5 | 2'-2" | 1A501 | 2 | 1'-0" | 1'-2" | | | | | 0'-0" | | | | | |
| 53 | | | | | | | | | | | | | | | | | |
| 54 | | | | | | | | | | | | | | | | | |
| 55 | | | | | | | | | | | | | | | | | |
| 56 | | | | | | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | | | | | | |
| 58 | | | | | | | | | | | | | | | | | |
| 59 | | | | | | | | | | | | | | | | | |
| 60 | | | | | | | | | | | | | | | | | |
| 61 | | | | | | | | | | | | | | | | | |
| 62 | | | | | | | | | | | | | | | | | |
| 63 | | | | | | | | | | | | | | | | | |
| 64 | | | | | | | | | | | | | | | | | |
| 65 | | | | | | | | | | | | | | | | | |
| 66 | | | | | | | | | | | | | | | | | |
| 67 | | | | | | | | | | | | | | | | | |
| 68 | | | | | | | | | | | | | | | | | |
| 69 | | | | | | | | | | | | | | | | | |
| 70 | | | | | | | | | | | | | | | | | |
| 71 | | | | | | | | | | | | | | | | | |
| 72 | | | | | | | | | | | | | | | | | |
| 73 | | | | | | | | | | | | | | | | | |
| 74 | | | | | | | | | | | | | | | | | |
| 75 | | | | | | | | | | | | | | | | | |
| 76 | | | | | | | | | | | | | | | | | |
| 77 | | | | | | | | | | | | | | | | | |
| 78 | | | | | | | | | | | | | | | | | |
| 79 | | | | | | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | | | | | | |
| 81 | | | | | | | | | | | | | | | | | |
| 82 | | | | | | | | | | | | | | | | | |

| ITEM | NO. PIECES | SIZE | LENGTH | MARK | TYPE | A | B | C | D | E | F | G | H | J | K | R | O |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | |

## NOTES:

1. 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 M 31(ASTM A 615-SI). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
2. FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS, AND OTHER STANDARD PRACTICE, SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".
3. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
5. "J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
6. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
7. WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN
8. ▲ DENOTES BARS TO BE CUT IN FIELD.
9. ✳ DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
10. △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
11. "E" IN PREFIX DENOTES EPOXY COATED REINFORCING STEEL.




## ASTM STANDARD REINFORCING BARS

| BAR SIZE DESIGNATION | WEIGHT POUNDS PER FOOT | NOMINAL DIMENSIONS ROUND SECTION | | |
|---|---|---|---|---|
| | | DIAMETER INCHES | CROSS SECTIONAL AREA SQ. INCHES | PERIMETER INCHES |
| #3 | .376 | .375 | .11 | 1.178 |
| #4 | .668 | .500 | .20 | 1.571 |
| #5 | 1.043 | .625 | .31 | 1.963 |
| #6 | 1.502 | .750 | .44 | 2.356 |
| #7 | 2.044 | .875 | .60 | 2.749 |
| #8 | 2.670 | 1.000 | .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 |

02/13/2004

| REVISIONS | | |
|---|---|---|
| NO. | DESCRIPTION | BY & DATE |
| | | |

DuBois & King inc.
engineering planning management development

# STATE OF VERMONT
## AGENCY OF TRANSPORTATION

| | |
|---|---|
| Town Of CHESTER | Bridge No. II |
| Highway No. TH 5 | Log Sta. - |
| | Surv. Sta. - |

CHURCH STREET OVER WILLIAMS RIVER

**REINFORCING STEEL SCHEDULE**

| | |
|---|---|
| Designed By R. L. JOY | Drawn By G. J. WOJCIECHOWSKI |
| Checked By J. TUCKER Date 03/01 | Bridge Design Supervisor J. TUCKER Date 03/01 |
| PROJECT CHESTER | PROJECT NO. BHO 1442 (32) |
| I.G.C. Info. ...zj365r20 .dgn | |
| D & K DWG NO. 11363 | Sheet 20 of 22 |

I:\BHO\442\dgn\zjxxxr20.dgn 02/13/2004 01:18:01 PM