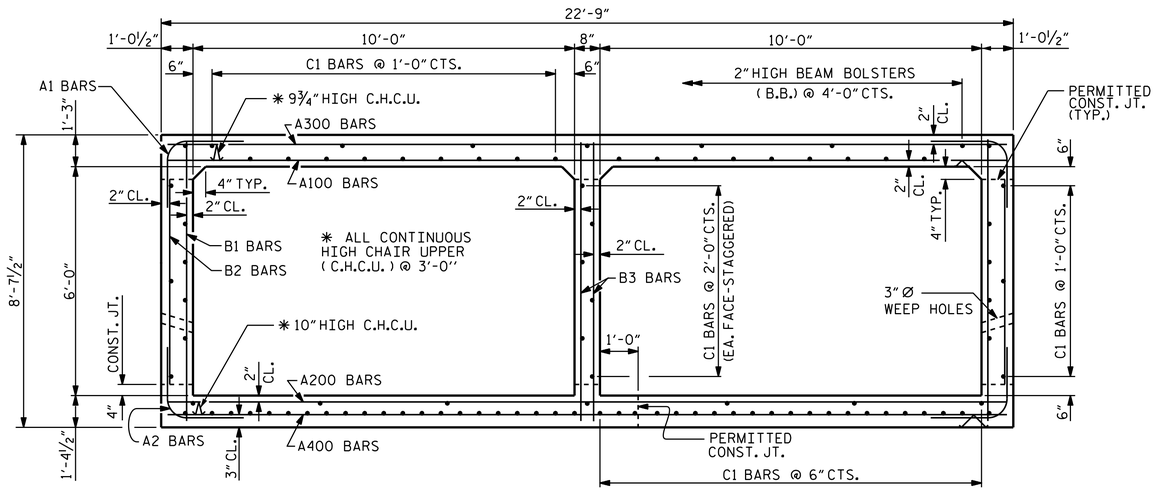
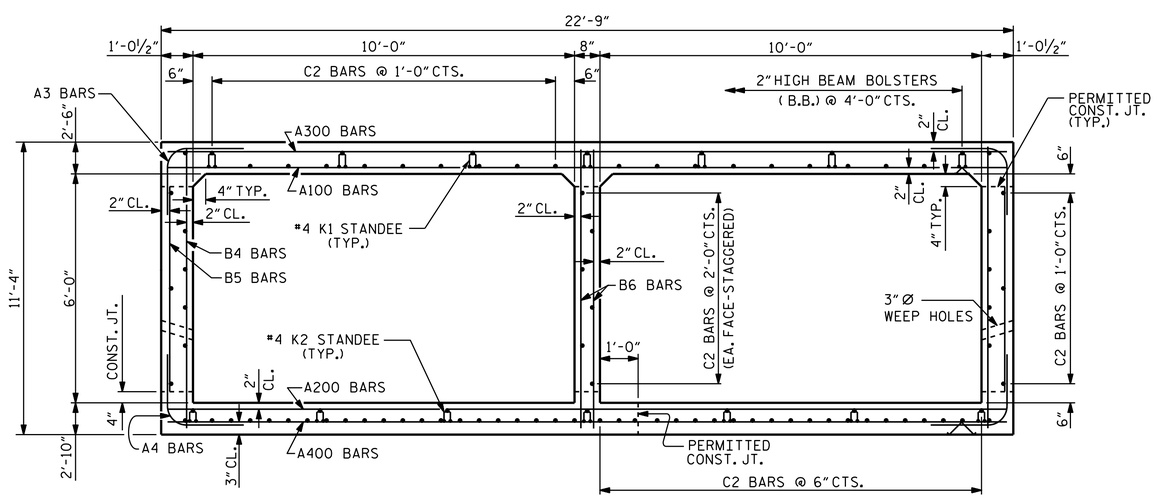



## RIGHT ANGLE SECTION A-A

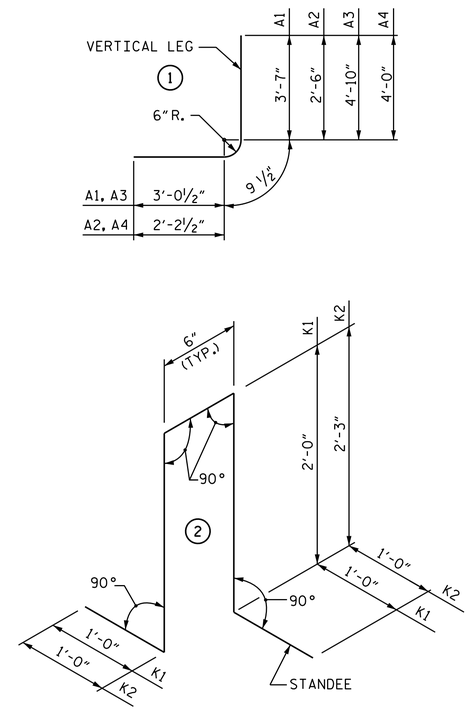
THERE ARE 96 "C1" BARS IN SECTION OF BARREL




## RIGHT ANGLE SECTION B-B

THERE ARE 96 "C2" BARS IN SECTION OF BARREL

## BAR TYPE




BAR DIMENSIONS ARE OUT TO OUT.

## BILL OF MATERIAL

| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
|---|---|---|---|---|---|
| A1 | 316 | #4 | 1 | 7'-5" | 1566 |
| A2 | 316 | #4 | 1 | 5'-6" | 1161 |
| A3 | 1646 | #4 | 1 | 8'-8" | 9529 |
| A4 | 1646 | #4 | 1 | 7'-0" | 7697 |
| | | | | | |
| A100 | 1087 | #5 | STR | 22'-4" | 25320 |
| A101 | 6 | #5 | STR | 18'-1" | 119 |
| A102 | 6 | #5 | STR | 15'-4" | 96 |
| A103 | 6 | #5 | STR | 11'-7" | 72 |
| A104 | 6 | #5 | STR | 7'-10" | 49 |
| A105 | 6 | #5 | STR | 4'-1" | 26 |
| | | | | | |
| A200 | 791 | #5 | STR | 22'-4" | 18425 |
| A201 | 4 | #5 | STR | 19'-2" | 80 |
| A202 | 4 | #5 | STR | 15'-9" | 66 |
| A203 | 4 | #5 | STR | 12'-4" | 51 |
| A204 | 4 | #5 | STR | 8'-11" | 37 |
| A205 | 4 | #5 | STR | 5'-6" | 23 |
| A206 | 4 | #5 | STR | 2'-1" | 9 |
| | | | | | |
| A300 | 967 | #4 | STR | 22'-4" | 14426 |
| A301 | 4 | #4 | STR | 19'-6" | 52 |
| A302 | 4 | #4 | STR | 16'-8" | 45 |
| A303 | 4 | #4 | STR | 13'-11" | 37 |
| A304 | 4 | #4 | STR | 11'-1" | 30 |
| A305 | 4 | #4 | STR | 8'-4" | 22 |
| A306 | 4 | #4 | STR | 5'-6" | 15 |
| A307 | 4 | #4 | STR | 2'-9" | 7 |
| | | | | | |
| A400 | 967 | #5 | STR | 22'-4" | 22525 |
| A401 | 4 | #5 | STR | 19'-6" | 81 |
| A402 | 4 | #5 | STR | 16'-8" | 70 |
| A403 | 4 | #5 | STR | 13'-11" | 58 |
| A404 | 4 | #5 | STR | 11'-1" | 46 |
| A405 | 4 | #5 | STR | 8'-4" | 35 |
| A406 | 4 | #5 | STR | 5'-6" | 23 |
| A407 | 4 | #5 | STR | 2'-9" | 11 |
| | | | | | |
| B1 | 128 | #4 | STR | 8'-1" | 691 |
| B2 | 316 | #4 | STR | 5'-4" | 1126 |
| B3 | 160 | #4 | STR | 8'-1" | 864 |
| B4 | 644 | #4 | STR | 10'-10" | 4660 |
| B5 | 1646 | #4 | STR | 5'-4" | 5864 |
| B6 | 824 | #4 | STR | 10'-10" | 5963 |
| | | | | | |
| C1 | 384 | #4 | STR | 18'-6" | 4745 |
| C2 | 1056 | #4 | STR | 29'-10" | 21045 |
| | | | | | |
| D1 | 6 | #6 | STR | 2'-10" | 26 |
| D2 | 39 | #6 | STR | 1'-10" | 107 |
| | | | | | |
| G1 | 8 | #5 | STR | 23'-2" | 193 |
| | | | | | |
| K1 | 714 | #4 | 2 | 6'-6" | 3100 |
| K2 | 714 | #4 | 2 | 7'-0" | 3339 |
| | | | | | |
| S2 | 12 | #8 | STR | 23'-2" | 742 |
| REINFORCING STEEL = | | | | LBS. | 154274 |

## SPLICE LENGTH CHART

| BAR | SIZE | SPLICE LENGTH |
|---|---|---|
| A200 | #5 | 3'-0" |
| A400 | #5 | 2'-2" |
| B1, B3, B4, B6 | #4 | 1'-5" |
| C1 | #4 | 1'-11" |

PROJECT NO. U-2579B

FORSYTH COUNTY

STATION: 559+74.00 -L-

SHEET 5 OF 8

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

# DOUBLE 10 FT. X 6 FT. CONCRETE BOX CULVERT 100° SKEW

NORTH CAROLINA PROFESSIONAL SEAL 29048 ENGINEER RAMAN P. PATEL

DocuSigned by: Raman Patel 8/5/2014

| REVISIONS | | | | | | SHEET NO. |
|---|---|---|---|---|---|---|
| NO. | BY: | DATE: | NO. | BY: | DATE: | C-5 |
| 1 | | | 3 | | | TOTAL SHEETS |
| 2 | | | 4 | | | 30 |

STR. #19

DRAWN BY : R. P. PATEL DATE : 10-31-13
CHECKED BY : J. P. MCCARTHA DATE : 11-8-13
DESIGN ENGINEER OF RECORD: R. P. PATEL DATE : 4-29-14

04-AUG-2014 16:44
R:\Structures\Plans\Culverts\U2579B_SD_CU_19.dgn
lsutton