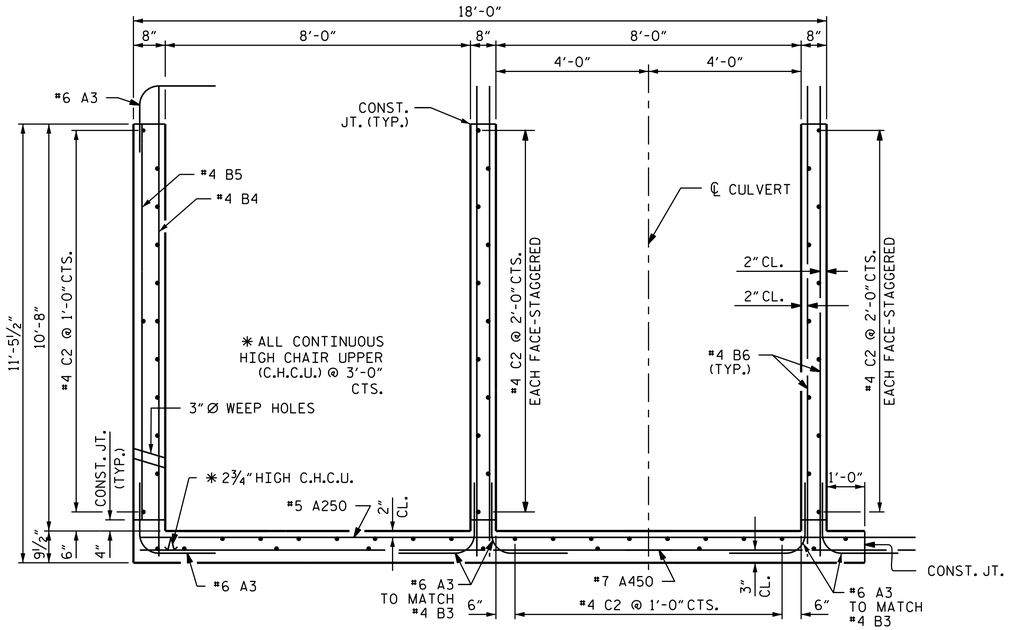
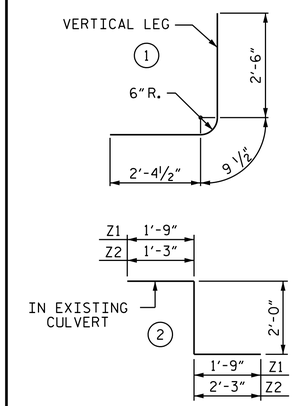



## RIGHT ANGLE SECTION OF BARREL

THERE ARE 58 "C" BARS IN SECTION OF BARREL
(STAGE I- LOOKING UPSTREAM)

## BAR TYPE




BAR DIMENSIONS ARE OUT TO OUT.

## BILL OF MATERIAL

### STAGE I

| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
|---|---|---|---|---|---|
| A3 | 114 | #6 | 1 | 5'-8" | 970 |
| A250 | 25 | #5 | STR | 28'-5" | 741 |
| A450 | 23 | #7 | STR | 29'-9" | 1399 |
| B4 | 21 | #4 | STR | 12'-0" | 168 |
| B5 | 23 | #4 | STR | 10'-4" | 159 |
| B6 | 68 | #4 | STR | 12'-0" | 545 |
| C2 | 58 | #4 | STR | 16'-4" | 633 |
| D2 | 6 | #6 | STR | 2'-6" | 23 |
| H1 | 4 | #6 | STR | 29'-9" | 179 |
| S7 | 3 | #8 | STR | 31'-7" | 253 |
| S8 | 3 | #6 | STR | 29'-5" | 133 |
| Z1 | 12 | #6 | 2 | 5'-6" | 99 |
| Z2 | 12 | #6 | 2 | 5'-6" | 99 |
| REINFORCING STEEL | | | | LBS. | 5,401 |

### STAGE II

| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
|---|---|---|---|---|---|
| A3 | 46 | #6 | 1 | 5'-8" | 392 |
| A150 | 24 | #5 | STR | 37'-2" | 930 |
| A260 | 25 | #5 | STR | 10'-7" | 276 |
| A350 | 23 | #6 | STR | 37'-2" | 1284 |
| A460 | 23 | #7 | STR | 10'-7" | 498 |
| B4 | 21 | #4 | STR | 12'-0" | 168 |
| B5 | 23 | #4 | STR | 10'-4" | 159 |
| C2 | 56 | #4 | STR | 16'-4" | 611 |
| D2 | 24 | #6 | STR | 2'-6" | 90 |
| G2 | 4 | #5 | STR | 37'-2" | 155 |
| H2 | 4 | #6 | STR | 10'-7" | 95 |
| S9 | 3 | #8 | STR | 10'-7" | 85 |
| S10 | 3 | #6 | STR | 10'-7" | 48 |
| S11 | 3 | #8 | STR | 37'-2" | 298 |
| S12 | 6 | #6 | STR | 37"-2" | 335 |
| Z1 | 5 | #6 | 2 | 5'-6" | 41 |
| Z2 | 5 | #6 | 2 | 5'-6" | 41 |
| REINFORCING STEEL | | | | LBS. | 5,475 |

## RIGHT EXTENSION

### STAGE I QUANTITIES

CLASS A CONCRETE
BARREL @ 1.347 C.Y./FT. 22.7 C.Y.
WING ETC. 10.5 C.Y.
TOTAL 33.2 C.Y.

REINFORCING STEEL
BARREL 5,401 LBS.
WING ETC. 733 LBS.
TOTAL 6,134 LBS.

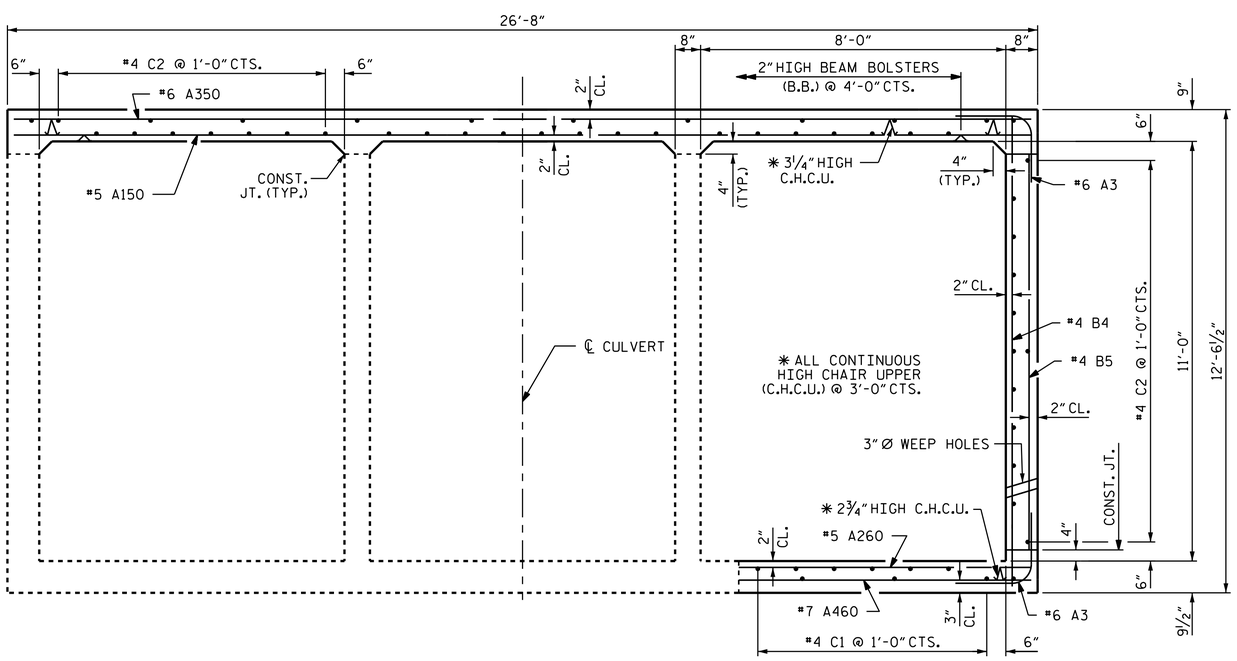
### STAGE II QUANTITIES

CLASS A CONCRETE
BARREL @ 1.274 C.Y./FT. 21.4 C.Y.
WING ETC. 21.0 C.Y.
TOTAL 42.4 C.Y.

REINFORCING STEEL
BARREL 5,475 LBS.
WING ETC. 1,773 LBS.
TOTAL 7,248 LBS.

## SPLICE LENGTH CHART

| BAR | SIZE | SPLICE LENGTH |
|---|---|---|
| A250 | #5 | 1'-9" |
| A450 | #7 | 3'-1" |
| B1, B3 | #4 | 1'-9" |
| C2 | #4 | 1'-11" |
| S7, S9 | #8 | 4'-11" |
| S8, S10 | #6 | 2'-9" |




## RIGHT ANGLE SECTION OF BARREL

THERE ARE 56 "C" BARS IN SECTION OF BARREL
(STAGE II- LOOKING UPSTREAM)

PROJECT NO. U-2579B
FORSYTH COUNTY
STATION: 45+65.43 -Y4-

SHEET 6 OF 7

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

# TRIPLE 8 FT. X 11 FT. CONCRETE BOX CULVERT 45°-12'-37" SKEW

RIGHT EXTENSION

NORTH CAROLINA PROFESSIONAL SEAL 23371 ENGINEER VIPUL A. PATEL

DocuSigned by: Vipul A. Patel
339B086CBE1C486...
8/8/2014

| REVISIONS | | | | | | SHEET NO. |
|---|---|---|---|---|---|---|
| NO. | BY: | DATE: | NO. | BY: | DATE: | C-29 |
| 1 | | | 3 | | | TOTAL SHEETS |
| 2 | | | 4 | | | 30 |

STR. #23

DRAWN BY : M. E. GILES DATE : 3/7/14
CHECKED BY : T. H. CARROLL DATE : 4/29/14
DESIGN ENGINEER OF RECORD: H. T. DIEU DATE : 6/10/14