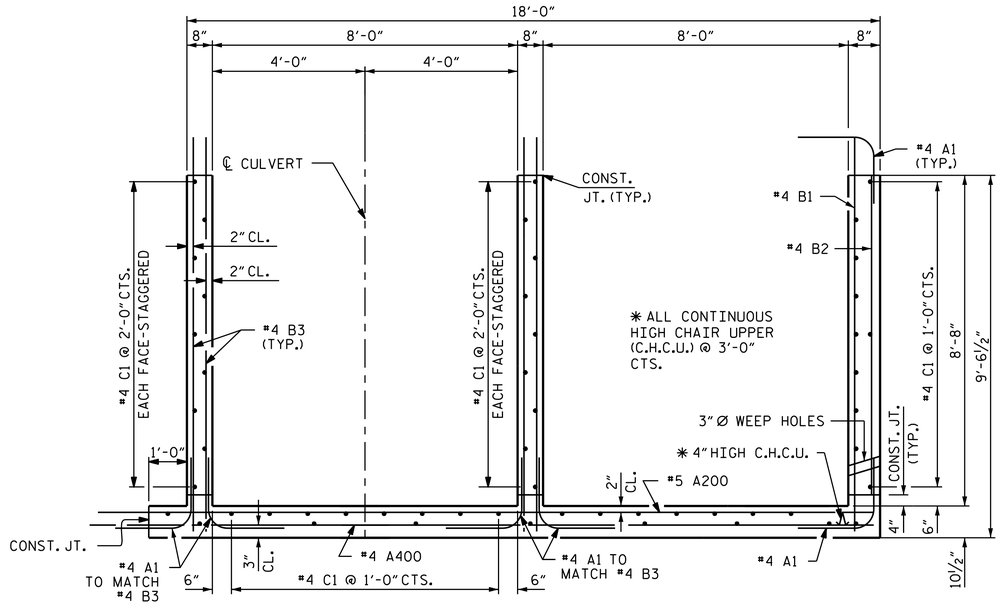
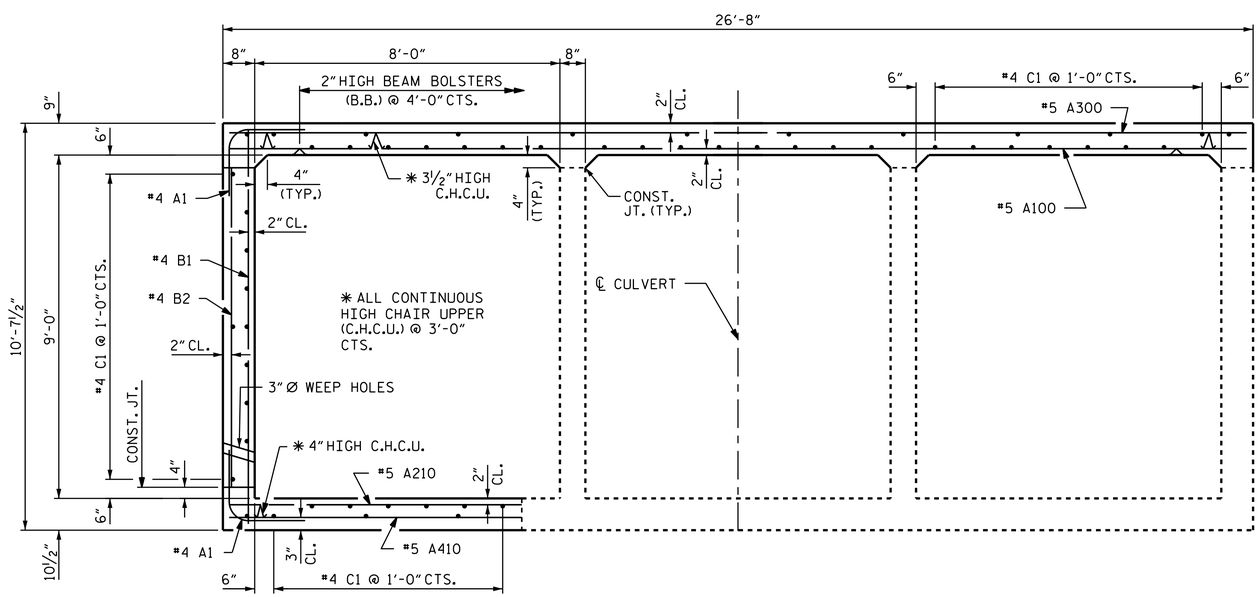



## RIGHT ANGLE SECTION OF BARREL

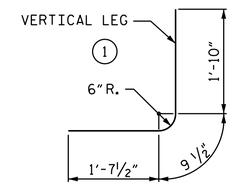
THERE ARE 52 "C" BARS IN SECTION OF BARREL
(STAGE I - LOOKING DOWNSTREAM)




## RIGHT ANGLE SECTION OF BARREL

THERE ARE 54 "C" BARS IN SECTION OF BARREL
(STAGE II - LOOKING DOWNSTREAM)

## BAR TYPE




BAR DIMENSIONS ARE OUT TO OUT.

## SPLICE LENGTH CHART

| BAR | SIZE | SPLICE LENGTH |
|---|---|---|
| A200 | #5 | 1'-9" |
| A400 | #5 | 1'-9" |
| B1, B3 | #4 | 1'-9" |
| C1 | #4 | 1'-11" |
| S1, S3 | #8 | 4'-11" |
| S2, S4 | #6 | 2'-9" |

## BILL OF MATERIAL

### STAGE I

| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
|---|---|---|---|---|---|
| A1 | 198 | #4 | 1 | 4'-3" | 562 |
| A200 | 37 | #5 | STR | 28'-5" | 1097 |
| A400 | 45 | #5 | STR | 28'-5" | 1334 |
| B1 | 27 | #4 | STR | 10'-1" | 182 |
| B2 | 45 | #4 | STR | 8'-4" | 250 |
| B3 | 108 | #4 | STR | 10'-1" | 727 |
| C1 | 52 | #4 | STR | 25'-9" | 894 |
| D1 | 19 | #6 | STR | 2'-6" | 71 |
| S1 | 3 | #8 | STR | 31'-7" | 253 |
| S2 | 6 | #6 | STR | 29'-5" | 265 |
| REINFORCING STEEL | | | | LBS. | 5,635 |

### STAGE II

| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
|---|---|---|---|---|---|
| A1 | 90 | #4 | 1 | 4'-3" | 256 |
| A100 | 37 | #5 | STR | 37'-2" | 1434 |
| A210 | 37 | #5 | STR | 10'-7" | 408 |
| A300 | 45 | #5 | STR | 37'-2" | 1744 |
| A410 | 45 | #5 | STR | 10'-7" | 497 |
| B1 | 27 | #4 | STR | 10'-1" | 182 |
| B2 | 45 | #4 | STR | 8'-4" | 250 |
| C1 | 54 | #4 | STR | 25'-9" | 929 |
| D1 | 29 | #6 | STR | 2'-6" | 109 |
| G1 | 4 | #5 | STR | 37'-2" | 155 |
| S3 | 3 | #8 | STR | 10'-7" | 85 |
| S4 | 6 | #6 | STR | 10'-7" | 95 |
| S5 | 3 | #8 | STR | 37'-2" | 298 |
| S6 | 6 | #6 | STR | 37"-2" | 335 |
| REINFORCING STEEL | | | | LBS. | 6,777 |

## LEFT EXTENSION

### STAGE I QUANTITIES

CLASS A CONCRETE
BARREL @ 1.258 C.Y./FT. 33.0 C.Y.
WING ETC. 26.3 C.Y.
TOTAL 59.3 C.Y.

REINFORCING STEEL
BARREL 5,635 LBS.
WING ETC. 3,063 LBS.
TOTAL 8,698 LBS.

### STAGE II QUANTITIES

CLASS A CONCRETE
BARREL @ 1.248 C.Y./FT. 32.8 C.Y.
WING ETC. 7.5 C.Y.
TOTAL 40.3 C.Y.

REINFORCING STEEL
BARREL 6,777 LBS.
WING ETC. 379 LBS.
TOTAL 7,156 LBS.

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

SHEET 3 OF 7

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

# TRIPLE 8 FT. X 9 FT. CONCRETE BOX CULVERT 45°-12'-37" SKEW

LEFT EXTENSION

NORTH CAROLINA PROFESSIONAL SEAL 23371 ENGINEER VIPUL A. PATEL

DocuSigned by: Vipul A. Patel
339B086C8E1C486...
8/8/2014

| REVISIONS | | | | | | SHEET NO. |
|---|---|---|---|---|---|---|
| NO. | BY: | DATE: | NO. | BY: | DATE: | C-26 |
| 1 | | | 3 | | | TOTAL SHEETS |
| 2 | | | 4 | | | 30 |

STR. #23

DRAWN BY : M. E. GILES DATE : 2/20/14
CHECKED BY : T. H. CARROLL DATE : 4/23/14
DESIGN ENGINEER OF RECORD: H. T. DIEU DATE : 6/10/14