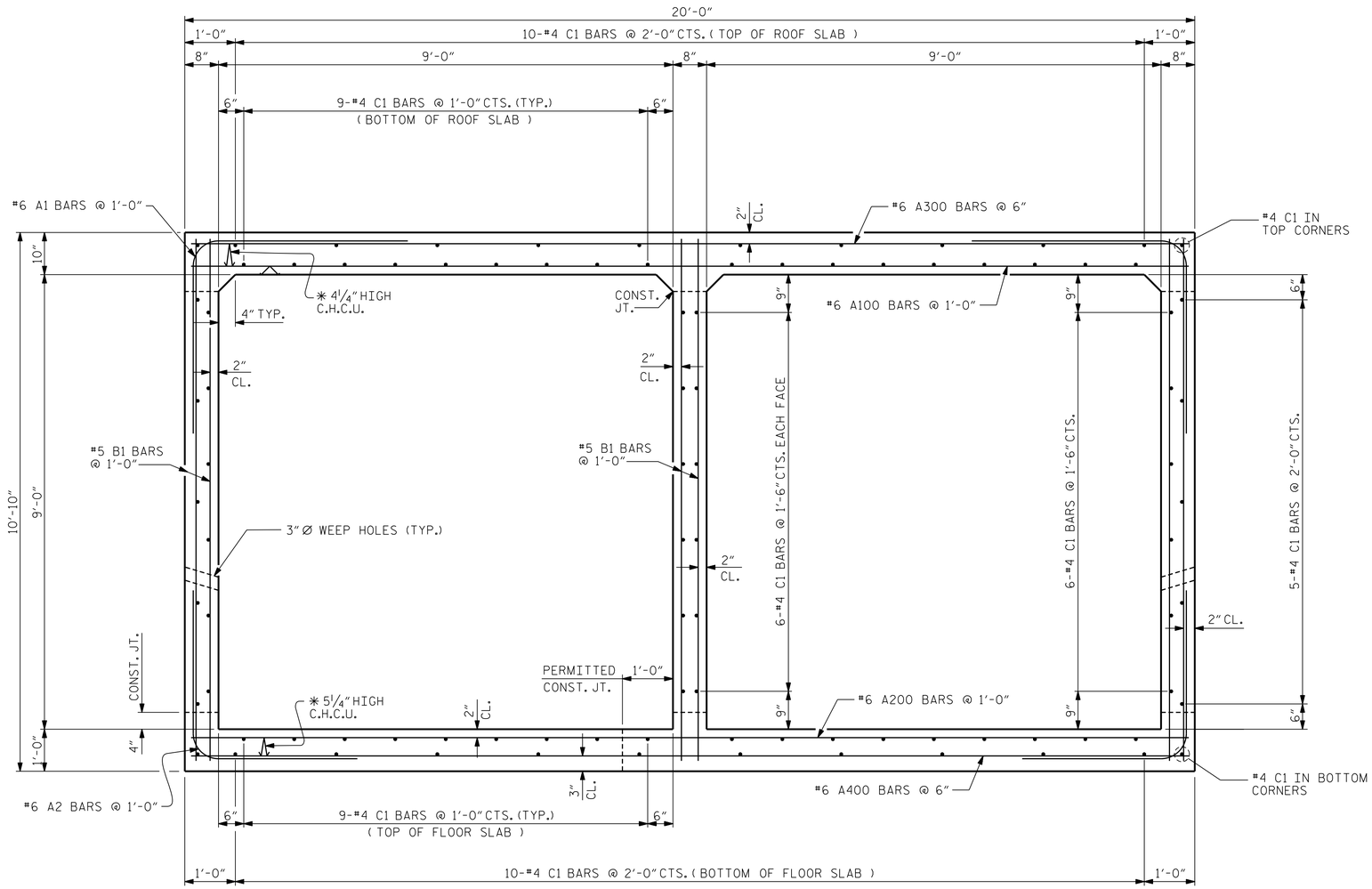
DocuSign Envelope ID: 62F4EDF2-40A2-456A-8C52-0B1183872025

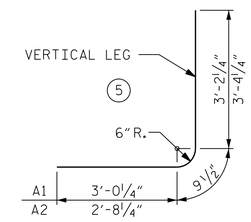



## RIGHT ANGLE SECTION OF BARREL

THERE ARE 94 "C" BARS IN SECTION OF BARREL.
✱ ALL CONTINUOUS HIGH CHAIR UPPERS (C.H.C.U.) @ 3'-0" CTS.

## BAR TYPES

ALL BAR DIMENSIONS ARE OUT TO OUT.




## BILL OF MATERIAL

| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
|---|---|---|---|---|---|
| A1 | 274 | 6 | 5 | 7'-0" | 2,881 |
| A2 | 274 | 6 | 5 | 6'-10" | 2,812 |
| A100 | 137 | 6 | STR | 19'-8" | 4,047 |
| A200 | 137 | 6 | STR | 19'-8" | 4,047 |
| A300 | 273 | 6 | STR | 19'-8" | 8,064 |
| A400 | 273 | 6 | STR | 19'-8" | 8,064 |
| B1 | 822 | 5 | STR | 10'-5" | 8,931 |
| C1 | 470 | 4 | STR | 28'-10" | 9,053 |
| D1 | 6 | 6 | STR | 1'-7" | 14 |
| D2 | 6 | 6 | STR | 2'-7" | 23 |
| G1 | 8 | 5 | STR | 19'-8" | 164 |
| S1 | 6 | 8 | STR | 19'-8" | 315 |
| REINFORCING STEEL | | | | | 48,415 LBS |

## SPLICE LENGTH CHART

| BAR | SIZE | SPLICE LENGTH |
|---|---|---|
| A300 | #6 | 2'-9" |
| A400 | #6 | 2'-9" |
| C1 | #4 | 1'-9" |

PROJECT NO. W-5107
JOHNSTON COUNTY
STATION: 17+33.63 -Y6LPB-

SHEET 3 OF 7

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

# TYPICAL SECTION DOUBLE 9 FT. X 9 FT. CONCRETE BOX CULVERT

NORTH CAROLINA PROFESSIONAL SEAL 027799 ENGINEER PAUL A. de PAOLI
11/20/2014

MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER : P-0671

| REVISIONS | | | | | | |
|---|---|---|---|---|---|---|
| NO. | BY: | DATE: | NO. | BY: | DATE: | |
| 1 | | | 3 | | | |
| 2 | | | 4 | | | |

SHEET NO. C-19
TOTAL SHEETS 36

| | | | |
|---|---|---|---|
| DRAWN BY : | J.S. ISRAELNAIM | DATE : | 06/14 |
| CHECKED BY : | P.A. de PAOLI | DATE : | 06/14 |
| DESIGN ENGINEER OF RECORD : | P.A. de PAOLI | DATE : | 06/14 |

11/20/2014
10:18:54 AM
User: blanning
Filename: P:\NC Bridges\MI2005 - W-5107 Johnston Co\MI2005.05_Culvert 3_New_Quincosin Swamp at -Y6LPB-\Structures\412.015.C03.W5107.SMU.CU3.dgn