# BILL OF MATERIAL

## STAGE 1A

| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
|---|---|---|---|---|---|
| A1 | 56 | 4 | 1 | 5'-7" | 209 |
| A100 | 52 | 6 | STR. | 11'-6" | 898 |
| A101 | 2 | 6 | STR. | 11'-11" | 36 |
| A102 | 2 | 6 | STR. | 8'-10" | 27 |
| A103 | 2 | 6 | STR. | 5'-8" | 17 |
| A104 | 2 | 6 | STR. | 2'-7" | 8 |
| A105 | 4 | 6 | STR. | 9'-2" | 55 |
| A200 | 52 | 6 | STR. | 11'-6" | 898 |
| A201 | 2 | 6 | STR. | 11'-11" | 36 |
| A202 | 2 | 6 | STR. | 8'-10" | 27 |
| A203 | 2 | 6 | STR. | 5'-8" | 17 |
| A204 | 2 | 6 | STR. | 2'-7" | 8 |
| A205 | 4 | 6 | STR. | 9'-2" | 55 |
| B1 | 120 | 4 | STR. | 9'-3" | 741 |
| C1 | 78 | 4 | STR. | 26'-9" | 1394 |
| D1 | 6 | 6 | STR. | 2'-5" | 22 |
| G1 | 8 | 5 | STR. | 11'-10" | 99 |
| S2 | 12 | 8 | STR. | 11'-10" | 379 |

REINFORCING STEEL (STAGE 1A): 4,926 LB.

CLASS A CONCRETE (STAGE 1A)

CULVERT BARREL 29.2 C.Y.

SILLS 1.2 C.Y.

## STAGE 1B

| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
|---|---|---|---|---|---|
| A1 | 60 | 4 | 1 | 5'-7" | 224 |
| A300 | 60 | 6 | STR. | 6'-8" | 601 |
| A301 | 2 | 6 | STR. | 3'-6" | 11 |
| A400 | 60 | 6 | STR. | 6'-8" | 601 |
| A401 | 2 | 6 | STR. | 3'-6" | 11 |
| B1 | 60 | 4 | STR. | 9'-3" | 371 |
| C1 | 50 | 4 | STR. | 26'-9" | 893 |
| D2 | 6 | 6 | STR. | 1'-5" | 13 |
| G2 | 8 | 5 | STR. | 6'-11" | 58 |
| S3 | 12 | 8 | STR. | 6'-11" | 222 |

REINFORCING STEEL (STAGE 1B): 3,005 LB.

CLASS A CONCRETE (STAGE 1B)

CULVERT BARREL 18.4 C.Y.

SILLS 0.6 C.Y.

## STAGE 2A

| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
|---|---|---|---|---|---|
| A1 | 58 | 4 | 1 | 5'-7" | 216 |
| A500 | 52 | 6 | STR. | 11'-6" | 898 |
| A501 | 2 | 6 | STR. | 8'-10" | 27 |
| A502 | 4 | 6 | STR. | 2'-3" | 14 |
| A503 | 2 | 6 | STR. | 10'-8" | 32 |
| A504 | 2 | 6 | STR. | 7'-7" | 23 |
| A505 | 2 | 6 | STR. | 4'-5" | 13 |
| A600 | 52 | 6 | STR. | 11'-6" | 898 |
| A601 | 2 | 6 | STR. | 8'-10" | 27 |
| A602 | 4 | 6 | STR. | 2'-3" | 14 |
| A603 | 2 | 6 | STR. | 10'-8" | 32 |
| A604 | 2 | 6 | STR. | 7'-7" | 23 |
| A605 | 2 | 6 | STR. | 4'-5" | 13 |
| B1 | 120 | 4 | STR. | 9'-3" | 741 |
| C2 | 78 | 4 | STR. | 24'-8" | 1285 |
| D1 | 3 | 6 | STR. | 2'-5" | 11 |
| G1 | 4 | 5 | STR. | 11'-10" | 49 |
| S2 | 6 | 8 | STR. | 11'-10" | 190 |

REINFORCING STEEL (STAGE 2A): 4,506 LB.

CLASS A CONCRETE (STAGE 2A)

CULVERT BARREL 29.2 C.Y.

SILLS 0.6 C.Y.

## STAGE 2B

| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
|---|---|---|---|---|---|
| A1 | 58 | 4 | 1 | 5'-7" | 216 |
| A700 | 54 | 6 | STR. | 6'-8" | 541 |
| A701 | 2 | 6 | STR. | 7'-6" | 23 |
| A702 | 2 | 6 | STR. | 4'-11" | 15 |
| A703 | 2 | 6 | STR. | 1'-9" | 5 |
| A800 | 54 | 6 | STR. | 6'-8" | 541 |
| A801 | 2 | 6 | STR. | 7'-6" | 23 |
| A802 | 2 | 6 | STR. | 4'-11" | 15 |
| A803 | 2 | 6 | STR. | 1'-9" | 5 |
| B1 | 60 | 4 | STR. | 9'-3" | 371 |
| C2 | 50 | 4 | STR. | 24'-8" | 824 |
| D2 | 3 | 6 | STR. | 1'-5" | 6 |
| G2 | 4 | 5 | STR. | 6'-11" | 29 |
| S3 | 6 | 8 | STR. | 6'-11" | 111 |

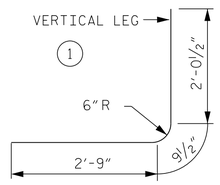
REINFORCING STEEL (STAGE 2B): 2,725 LB.

CLASS A CONCRETE (STAGE 2B)

CULVERT BARREL 18.4 C.Y.

SILLS 0.3 C.Y.

# BAR TYPES




BAR DIMENSIONS ARE OUT TO OUT.

# SPLICE LENGTH CHART

| BAR SIZE | SPLICE LENGTH |
|---|---|
| #4 | 1'-9" |
| #5 | 2'-2" |
| #6 | 2'-9" |

TOTAL REINFORCING STEEL: 15,162 LB.

TOTAL CLASS A CONCRETE

CULVERT BARREL 95.2 C.Y.

SILLS 2.7 C.Y.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NORTH CAROLINA PROFESSIONAL SEAL 20777 ENGINEER HARDY L. WILLIS 3/28/2017

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

SHEET NO. C-8

TOTAL SHEETS 10

PROJECT NO. 17BP.14.R.142

POLK COUNTY

STATION: 13+47.70 -L-

SHEET 8 OF 10

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

# DOUBLE 8 FT. X 8 FT. CONCRETE BOX CULVERT 105° SKEW