

BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETER-MINES THAT THEY HAVE DETERIORATED AND LOST THEIR EFFECTIVENESS.

NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

CONST. JT.—

5-#4 B6 —

5-#9 B1 ——

2" CL. (TYP.)

FILL FACE ——

CONST. JT.—

5-#4 B7 —

5-#9 B1 —

2"CL. (TYP.)

FILL FACE —

TEMPORARY DRAINAGE AT END BENT

1'-0", 1'-0", 1'-0", 1'-0"

#5 S2—

PARTIAL SECTION B-B

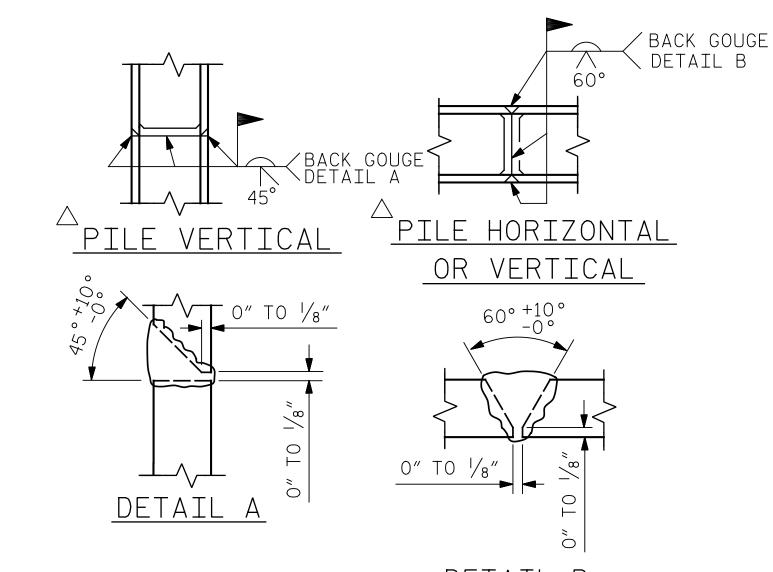
(TYP.@BRG.2,3,4,&5)

1'-0", 1'-0", 1'-0", 1'-0"

#5 S2—

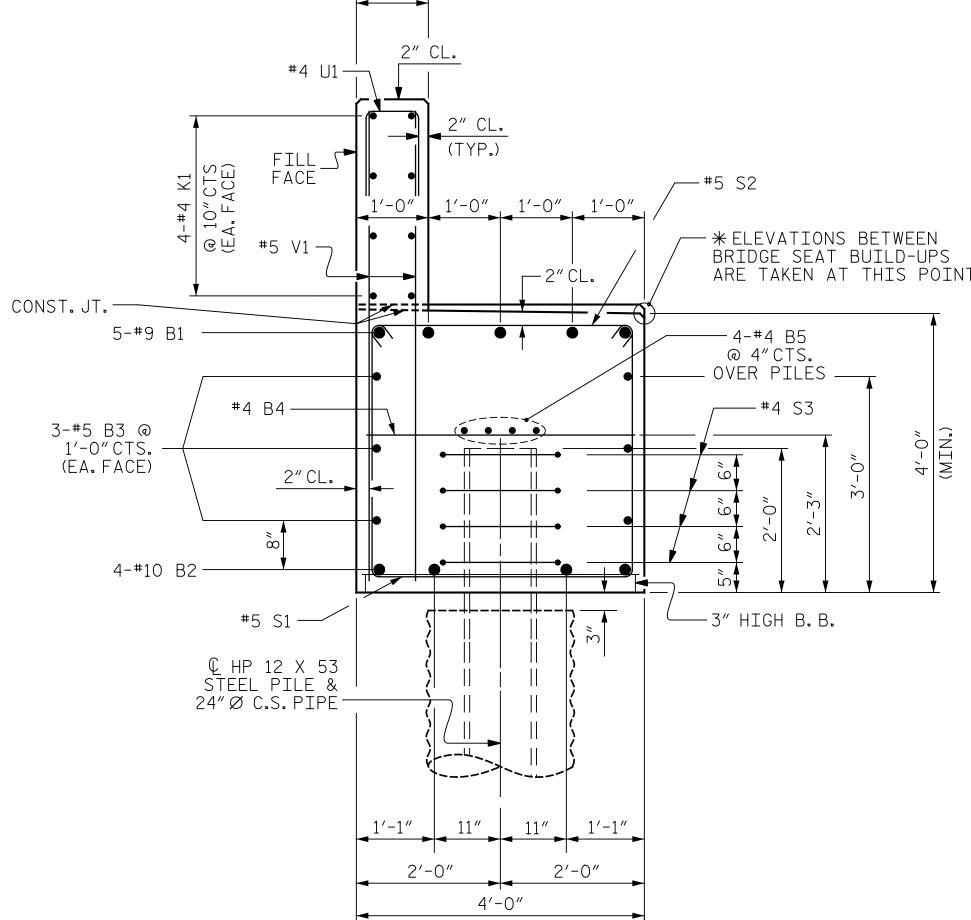
PARTIAL SECTION C-C

-#5 S1



DETAIL B POSITION OF PILE DURING WELDING.

PILE SPLICE DETAILS



BILL OF MATERIAL BAR TYPES END BENT #2 No. 36′-9″ В4 В5 12 В6 20 13′-7″ 10 17 H2 24 Κ2 (MIN.) K3 6 78 S2 78 32 S3 56 17 U2 1'-8" 112 ٧2 36 V3 3′-8″ REINFORCING STEEL OUR #1 (CAP & LOWER WINGS) OUR #2 (UPPER WINGS & BACKWALL) HP 12 X 53 STEEL PILES No. = 8 ALL BAR DIMENSIONS ARE OUT TO OUT. PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES

FILL FACE 2.24 K/FT. (FACTORED)

TIE BACK DETAILS (DETAIL SHOWING TIE BACK RESTRAINT FOR END BENT)

41665.7A PROJECT NO.__ CUMBERLAND _ COUNTY STATION: 106+59.74 -L1-

14+51.19 -Y-SHEET 3 OF 3

SIZE

#10

#5

#5

#5

#5

#5

PILE REDRIVES

TYPE | LENGTH | WEIGHT

38'-6"

38'-2"

34'-4"

3′-8″

2'-2"

14'-7"

14'-5"

5′-0″

4'-0"

4′-7″

6'-6"

3′-8″

6′-8″

8'-2"

8'-3"

STR | 23'-7"

STR | 7'-6"

STR | 23'-7"

5 | 11'-10"

STR | 6'-7"

STR

CLASS A CONCRETE

STR

TOTAL

STR

STR

STR

STR

STR

1314

430

40

189

29

51

259

256

378

20

16

963

373

139

138

76

769

103

310

7162 LBS

41.9 C.Y

10.0 C.Y

51.9 C.Y

8 EACH

8 EACH

576 LIN. FT

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE

END BENT #2

SHEET NO REVISIONS NO. BY: S02-21 DATE: DATE: TOTAL SHEETS

- * ELEVATIONS BETWEEN BRIDGE SEAT BUILD-UPS ARE TAKEN AT THIS POINT.

SECTION A-A

DRAWN BY : J.A. BOYER DATE: <u>09/26/17</u> CHECKED BY : R.F. WERTMAN __ DATE : 10/18/17 DESIGN ENGINEER OF RECORD : R.F. WERTMAN DATE : 11/06/17

2610 Wycliff Road Gannett Fleming (919) 420-7660 Excellence Delivered As Promised NC Lic. No. F-0270

OCUMENT NOT CONSIDERE FINAL UNLESS ALL SIGNATURES COMPLETED

auchaul & Ventra

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² SEAL ⁸ 037180

STR.NO.2