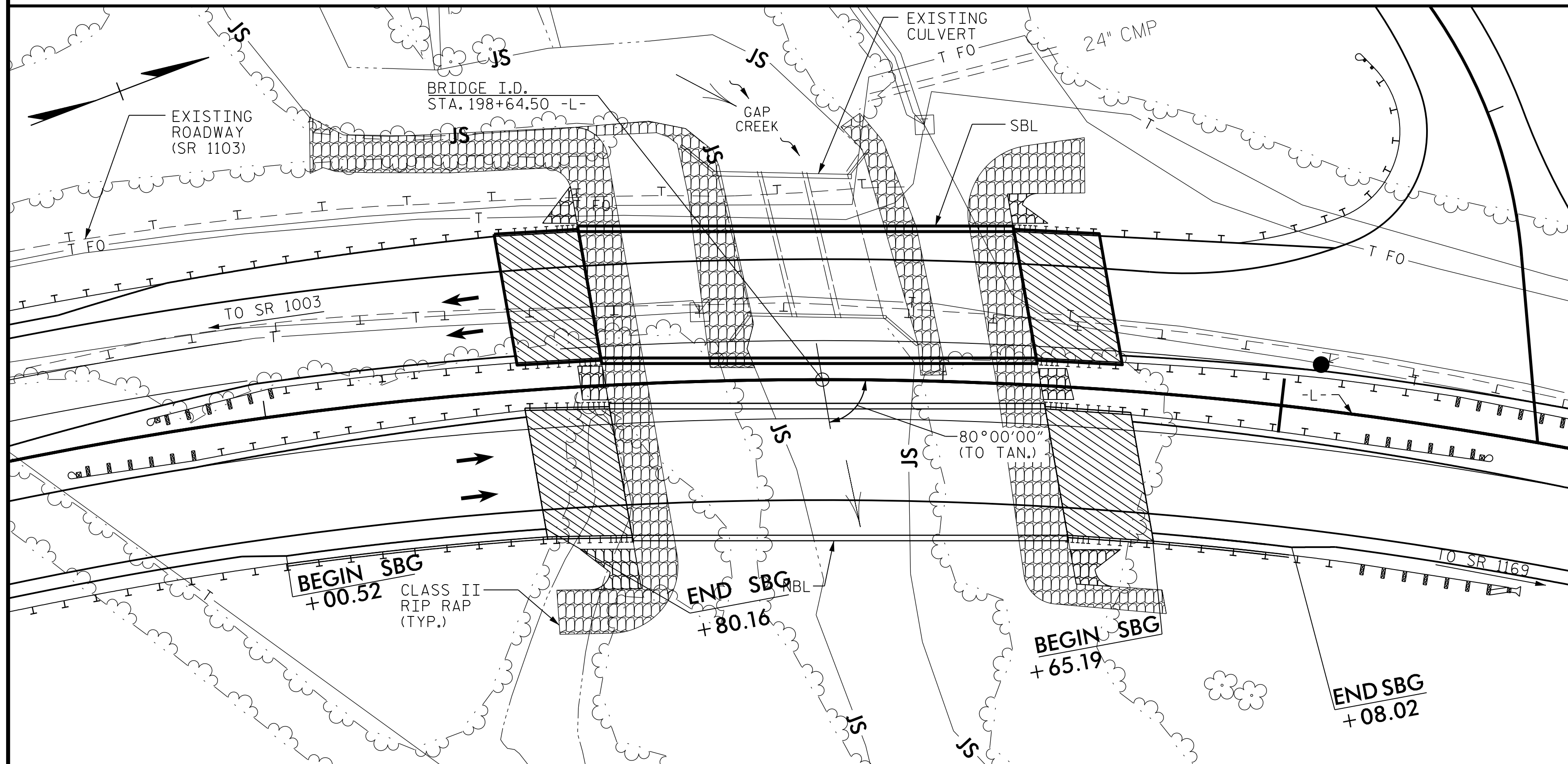


BM#8: RR SPIKE IN 30" WHITE PINE, STA 189+80.00 -L-, 191' LT EL.2881.14



LOCATION SKETCH

FOR UTILITY INFORMATION, SEE UTILITY PLANS AND SPECIAL PROVISIONS.

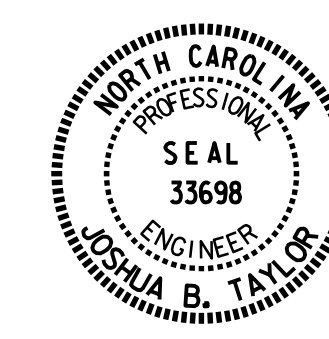
TOTAL BILL OF MATERIAL

| | CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMP. ACCESS | REMOVAL OF EXISTING STRUCTURE | 3'-0" Ø DRILLED PIERS IN SOIL | 3'-0" Ø DRILLED PIERS NOT IN SOIL | PERMANENT STEEL CASING FOR 3'-0" Ø DRILLED PIER | PDA TESTING | SID INSPECTIONS | CSL TESTING | UNCLASSIFIED STRUCTURE EXCAVATION | REINFORCED CONCRETE DECK SLAB | GROOVING BRIDGE FLOORS | CLASS A CONCRETE | BRIDGE APPROACH SLABS | REINFORCING STEEL | SPIRAL COLUMN REINFORCING STEEL | 36" PRESTRESSED CONCRETE GIRDERS | HP 12 X 53 STEEL PILES | CONCRETE BARRIER RAIL | RIP RAP CLASS II (2'-0" THICK) | GEOTEXTILE FOR DRAINAGE | ELASTOMERIC BEARINGS | | |
|----------------|--|-------------------------------|-------------------------------|-----------------------------------|---|-------------|-----------------|-------------|-----------------------------------|-------------------------------|------------------------|------------------|-----------------------|-------------------|---------------------------------|----------------------------------|------------------------|-----------------------|--------------------------------|-------------------------|----------------------|---------|----------|
| | LUMP SUM | LUMP SUM | LIN.FT. | LIN.FT. | LIN.FT. | EACH | EACH | EACH | LUMP SUM | SO.FT. | SO.FT. | CU.YDS. | LUMP SUM | LBS. | LBS. | NO. | LIN.FT. | NO. | LIN.FT. | LIN.FT. | TONS | SO. YD. | LUMP SUM |
| SUPERSTRUCTURE | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5,265 | 5,990 | -- | LUMP SUM | -- | -- | 12 | 505.13 | -- | -- | 256.6 | -- | -- | LUMP SUM |
| END BENT NO.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 26.8 | -- | 4,924 | -- | -- | -- | 6 | 117 | -- | 219 | 243 | -- |
| BENT NO.1 | LUMP SUM | -- | 15.3 | 32.0 | 23.3 | -- | -- | -- | -- | -- | -- | 21.5 | -- | 8,055 | 1,415 | -- | -- | -- | -- | -- | -- | -- | -- |
| BENT NO.2 | LUMP SUM | -- | 13.5 | 39.0 | 22.5 | -- | -- | -- | -- | -- | -- | 20.5 | -- | 8,035 | 1,400 | -- | -- | -- | -- | -- | -- | -- | -- |
| END BENT NO.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 26.8 | -- | 4,924 | -- | -- | -- | 6 | 117 | -- | 129 | 143 | -- |
| TOTAL | LUMP SUM | LUMP SUM | 28.8 | 71.0 | 45.8 | 1 | 1 | 1 | LUMP SUM | 5,265 | 5,990 | 95.6 | LUMP SUM | 25,938 | 2,815 | 12 | 505.13 | 12 | 234 | 256.6 | 348 | 386 | LUMP SUM |

PROJECT NO. R-2915B
 ASHE COUNTY
 STATION: 198+64.50 -L-

SHEET 4 OF 4

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 GENERAL DRAWING
 BRIDGE OVER GAP CREEK
 ON US 221 BETWEEN
 SR 1003 AND SR 1169
 (SBL)



CDM Smith
 CDM SMITH
 5400 Glenwood Avenue, Suite 400
 Raleigh, NC 27612-3228
 NC COA No. F-1255

DRAWN BY : J. SLOAN DATE : 04-14 DWG. No.
 CHECKED BY : J. TAYLOR DATE : 07-14
 DESIGN ENGINEER : J. TAYLOR DATE : 08-14

| REVISIONS | | | SHEET No. | | |
|-----------|-----|-------|-----------|-----|-------|
| No. | BY: | DATE: | No. | BY: | DATE: |
| 1 | | | 3 | | |
| 2 | | | 4 | | |

TOTAL SHEETS 34

GENERAL NOTES

ASSUMED LIVE LOAD = HL-93 OR ALTERNATE LOADING.

THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

THIS BRIDGE IS LOCATED IN SEISMIC ZONE 1.

THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH HEC 18, "EVALUATING SCOUR AT BRIDGES".

FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.

FOR EROSION CONTROL MEASURES SEE EROSION CONTROL PLANS.

THE EXISTING 44 FOOT LONG 3 BARREL REINFORCED CONCRETE BOX CULVERT AND WINGWALLS SHALL BE REMOVED.

REMOVAL OF THE EXISTING CULVERT SHALL BE PERFORMED SO AS NOT TO ALLOW DEBRIS TO FALL INTO THE WATER. THE CONTRACTOR SHALL REMOVE THE CULVERT AND SUBMIT PLANS FOR DEMOLITION IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS.

THE EXISTING CULVERT INDICATED ON THE PLANS IS FROM THE BEST INFORMATION AVAILABLE. SINCE THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR, THE CONTRACTOR SHALL HAVE NO CLAIM WHATSOEVER AGAINST THE DEPARTMENT OF TRANSPORTATION FOR ANY DELAYS OR ADDITIONAL COST INCURRED BASED ON DIFFERENCES BETWEEN THE EXISTING CULVERT SHOWN ON THE PLANS AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

THE MATERIAL SHOWN IN THE CROSS-HATCHED AREA SHALL BE EXCAVATED FOR A DISTANCE OF 45 FT. LEFT AND 25 FT. RIGHT EACH SIDE OF CENTERLINE ROADWAY AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR UNCLASSIFIED STRUCTURE EXCAVATION. SEE SECTION 412 OF THE STANDARD SPECIFICATIONS.

AT THE CONTRACTOR'S OPTION, AND UPON REMOVAL OF THE CAUSEWAY, THE CLASS II RIP RAP USED IN THE CAUSEWAY MAY BE PLACED AS RIP RAP SLOPE PROTECTION. SEE SPECIAL PROVISIONS FOR CONSTRUCTION, MAINTENANCE, AND REMOVAL OF TEMPORARY ACCESS AT STATION 198+64.50 -L-.

THE EXISTING PAVEMENT WITHIN THE AREA OF THE END BENT PILES SHALL BE REMOVED AND THE ROADBED SCARIFIED TO A MINIMUM DEPTH OF 2'-0".

REMOVABLE FORMS MAY BE USED IN LIEU OF METAL STAY-IN-PLACE FORMS IN ACCORDANCE WITH ARTICLE 420-3 OF THE STANDARD SPECIFICATIONS.

NEEDLE BEAMS WILL NOT BE ALLOWED UNLESS OTHERWISE CALLED FOR ON THE PLANS OR APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL PROVIDE INDEPENDENT ASSURANCE SAMPLES OF REINFORCING STEEL AS FOLLOWS: FOR PROJECTS REQUIRING UP TO 400 TONS OF REINFORCING STEEL, ONE 30 INCH SAMPLE OF EACH SIZE BAR USED, AND FOR PROJECTS REQUIRING OVER 400 TONS OF REINFORCING STEEL, TWO 30 INCH SAMPLES OF EACH SIZE BAR USED. THE BARS FROM WHICH THE SAMPLES ARE TAKEN MUST THEN BE SPLICED WITH REPLACEMENT BARS OF THE SIZE AND LENGTH OF THE SAMPLE, PLUS A MINIMUM LAP SPlice OF THIRTY BAR DIAMETERS. PAYMENT FOR THE SAMPLES OF REINFORCING STEEL SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

THE CLASS AA CONCRETE IN THE BRIDGE DECK SHALL CONTAIN FLY ASH OR GROUND GRANULATED BLAST FURNACE SLAG AT THE SUBSTITUTION RATE SPECIFIED IN ARTICLE 1024-1 AND IN ACCORDANCE WITH ARTICLES 1024-5 AND 1024-6 OF THE STANDARD SPECIFICATIONS. NO PAYMENT WILL BE MADE FOR THIS SUBSTITUTION AS IT IS CONSIDERED INCIDENTAL TO THE COST OF THE REINFORCED CONCRETE DECK SLAB.

FOR PLACING LOAD ON STRUCTURE MEMBERS, SEE SPECIAL PROVISIONS.

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