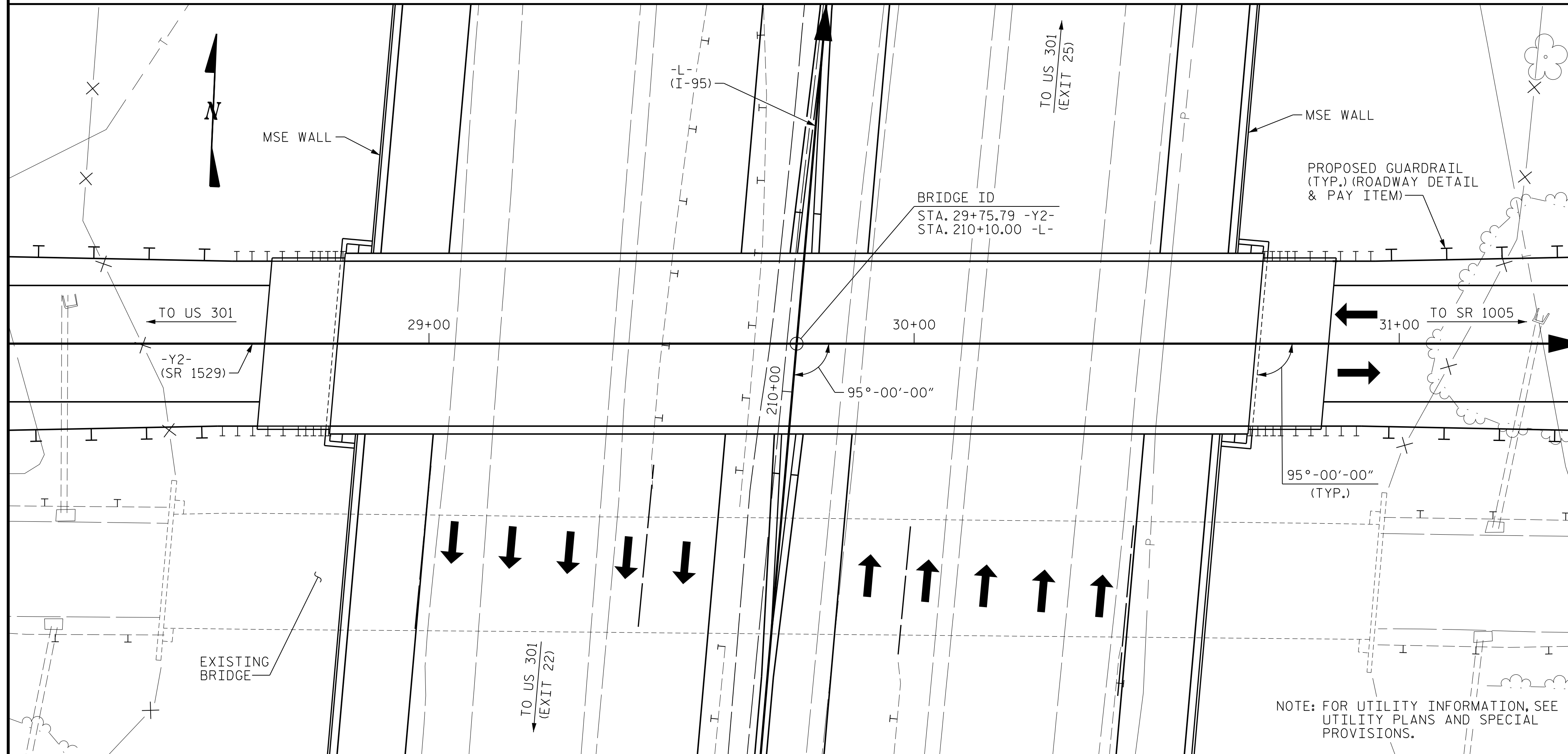


B.M. #9: BENCH NAIL SET IN BASE OF 18" SWEET GUM; 124.27' RIGHT OF STA. 212+40.74 -L-, EL. 146.42



LOCATION SKETCH

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 2.
- FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.
- FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.
- NEEDLE BEAMS WILL NOT BE ALLOWED UNLESS OTHERWISE CALLED FOR ON THE PLANS OR APPROVED BY THE ENGINEER.
- REMOVABLE FORMS MAY BE USED IN LIEU OF METAL STAY-IN-PLACE FORMS IN ACCORDANCE WITH ARTICLE 420-3 OF THE STANDARD SPECIFICATIONS.
- ALL FALSEWORK AND FORMS SHALL REMAIN IN PLACE UNTIL THE ENTIRE UNIT IS CAST AND CURED. CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFICATIONS IN THE LINK SLAB REGION.
- FOR MAINTENANCE AND PROTECTION OF TRAFFIC BENEATH PROPOSED STRUCTURE, SEE SPECIAL PROVISIONS.
- FOR LIMITS OF TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC, SEE TRAFFIC CONTROL PLANS. FOR PAY ITEM FOR TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC, SEE ROADWAY PLANS.
- THE SUBSTRUCTURE OF THE EXISTING BRIDGE INDICATED ON THE PLANS IS FROM THE BEST INFORMATION AVAILABLE. 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 BRIDGE SUBSTRUCTURE SHOWN ON THE PLANS AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.
- AFTER SERVING AS A TEMPORARY STRUCTURE, THE EXISTING STRUCTURE CONSISTING OF 5 SPANS (1 @ 50'-4", 3 @ 50'-0" AND 1 @ 50'-4") REINFORCED CONCRETE DECK WITH CLEAR ROADWAY OF 24'-0" WIDE; ON REINFORCED PRESTRESSED CONCRETE GIRDERS AND REINFORCED CONCRETE CORED SLAB UNITS; ON REINFORCED CONCRETE END BENTS AND BENTS AND LOCATED AT 47 FT. SOUTH OF THE PROPOSED STRUCTURE SHALL BE REMOVED. THE EXISTING BRIDGE IS PRESENTLY NOT POSTED FOR LOAD LIMIT. SHOULD THE STRUCTURAL INTEGRITY OF THE BRIDGE DETERIORATE DURING THE CONSTRUCTION OF THE PROPOSED BRIDGE, A LOAD LIMIT MAY BE POSTED AND MAY BE REDUCED AS FOUND NECESSARY DURING THE LIFE OF THE PROJECT.
- FOR ASBESTOS ASSESSMENT FOR BRIDGE DEMOLITION AND RENOVATION ACTIVITIES, SEE SPECIAL PROVISIONS.
- 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.
- FOR FOUNDATION NOTES, SEE "PILE FOUNDATION TABLES" SHEET.
- THE ELEVATIONS AND CLEARANCES SHOWN ON THE PLANS AT THE POINTS OF MINIMUM VERTICAL CLEARANCE ARE FROM THE BEST INFORMATION AVAILABLE. PRIOR TO BEGINNING BRIDGE CONSTRUCTION, VERIFY THE ELEVATIONS ON THE EXISTING PAVEMENT AND CHECK THE CLEARANCE. REPORT ANY VARIATIONS TO THE ENGINEER. ANY PLAN REVISIONS NECESSARY TO ACHIEVE THE REQUIRED MINIMUM VERTICAL CLEARANCE WILL BE PROVIDED BY THE DEPARTMENT.
- FOR MSE RETAINING WALLS, SEE GEOTECHNICAL SPECIAL PROVISIONS.

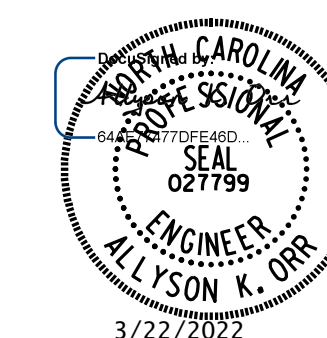
TOTAL BILL OF MATERIAL

|                | REMOVAL OF EXISTING STRUCTURE AT STA. 29+75.79 -Y2- | ASBESTOS ASSESSMENT | FOUNDATION EXCAVATION FOR BENT 1 | PDA TESTING | REINFORCED CONCRETE DECK SLAB | GROOVING BRIDGE FLOORS | CLASS A CONCRETE | BRIDGE APPROACH SLABS | REINFORCING STEEL | SPIRAL COLUMN REINFORCING STEEL |
|----------------|---|---------------------|----------------------------------|-------------|-------------------------------|------------------------|------------------|-----------------------|-------------------|---------------------------------|
|                | LUMP SUM  | LUMP SUM            | LUMP SUM                         | EACH        | SO. FT.                       | SO. FT.                | CU. YDS.         | LUMP SUM              | LBS.              | LBS.                            |
| SUPERSTRUCTURE | LUMP SUM  |                     |                                  |             | 6,988                         | 6,759                  |                  |                       |                   |                                 |
| END BENT 1     |   |                     |                                  |             |                               |                        | 27.0             | LUMP SUM              | 3,504             |                                 |
| BENT 1         |   |                     | LUMP SUM                         |             |                               |                        | 56.2             | LUMP SUM              | 10,348            | 1,749                           |
| END BENT 2     |   |                     |                                  |             |                               |                        | 27.1             | LUMP SUM              | 3,524             |                                 |
| TOTAL          | LUMP SUM  | LUMP SUM            | LUMP SUM                         | 2           | 6,988                         | 6,759                  | 110.3            | LUMP SUM              | 17,376            | 1,749                           |

TOTAL BILL OF MATERIAL

|                | 54" PRESTRESSED CONCRETE GIRDERS | PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES | PILE DRIVING EQUIPMENT SETUP FOR HP 14 X 73 STEEL PILES | HP 12 X 53 STEEL PILES | HP 14 X 73 STEEL PILES | PILE REDRIVES | TWO BAR METAL RAIL | 1'-2" X 2'-6" CONCRETE PARAPET | 4" SLOPE PROTECTION | ELASTOMERIC BEARINGS |
|----------------|----------------------------------|---|---|------------------------|------------------------|---------------|--------------------|--------------------------------|---------------------|----------------------|
|                | LIN. FT.                         | EACH  | EACH  | NO.                    | LIN. FT.               | NO.           | LIN. FT.           | LIN. FT.                       | SO. YDS.            | LUMP SUM             |
| SUPERSTRUCTURE | 754.24                           |   |   |                        |                        |               | 363.44             | 378.65                         |                     | LUMP SUM             |
| END BENT 1     |                                  | 6   |   | 6                      | 600.0                  |               |                    |                                | 12                  |                      |
| BENT 1         |                                  |   | 18  |                        | 18                     | 1170.0        |                    |                                |                     |                      |
| END BENT 2     |                                  | 6   |   | 6                      | 510.0                  |               |                    |                                | 12                  |                      |
| TOTAL          | 754.24                           | 12  | 18  | 12                     | 1110.0                 | 18            | 1170.0             | 15                             | 24                  | LUMP SUM             |

PROJECT NO. I-5987A  
ROBESON COUNTY  
 STATION: 29+75.79 -Y2-  
210+10.00 -L-  
 SHEET 2 OF 2



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
**GENERAL DRAWING**  
 FOR BRIDGE ON SR 1529  
 (POWERSVILLE ROAD)  
 OVER I-95 BETWEEN  
 US 301 & SR 1005

| REVISIONS |     |       |     |     |       | SHEET NO.               |
|-----------|-----|-------|-----|-----|-------|-------------------------|
| NO.       | BY: | DATE: | NO. | BY: | DATE: |                         |
| 1         |     |       | 3   |     |       | S1-2<br>TOTAL SHEETS 36 |
| 2         |     |       | 4   |     |       |                         |

DRAWN BY : B.E. LANNING DATE : 06/2021  
 CHECKED BY : A.K. ORR DATE : 06/2021  
 DESIGN ENGINEER OF RECORD : A.K. ORR DATE : 03/2022

3/22/2022 1:14:57 PM User: blanning  
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