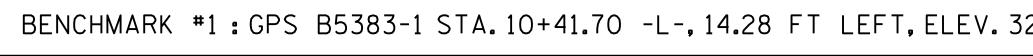
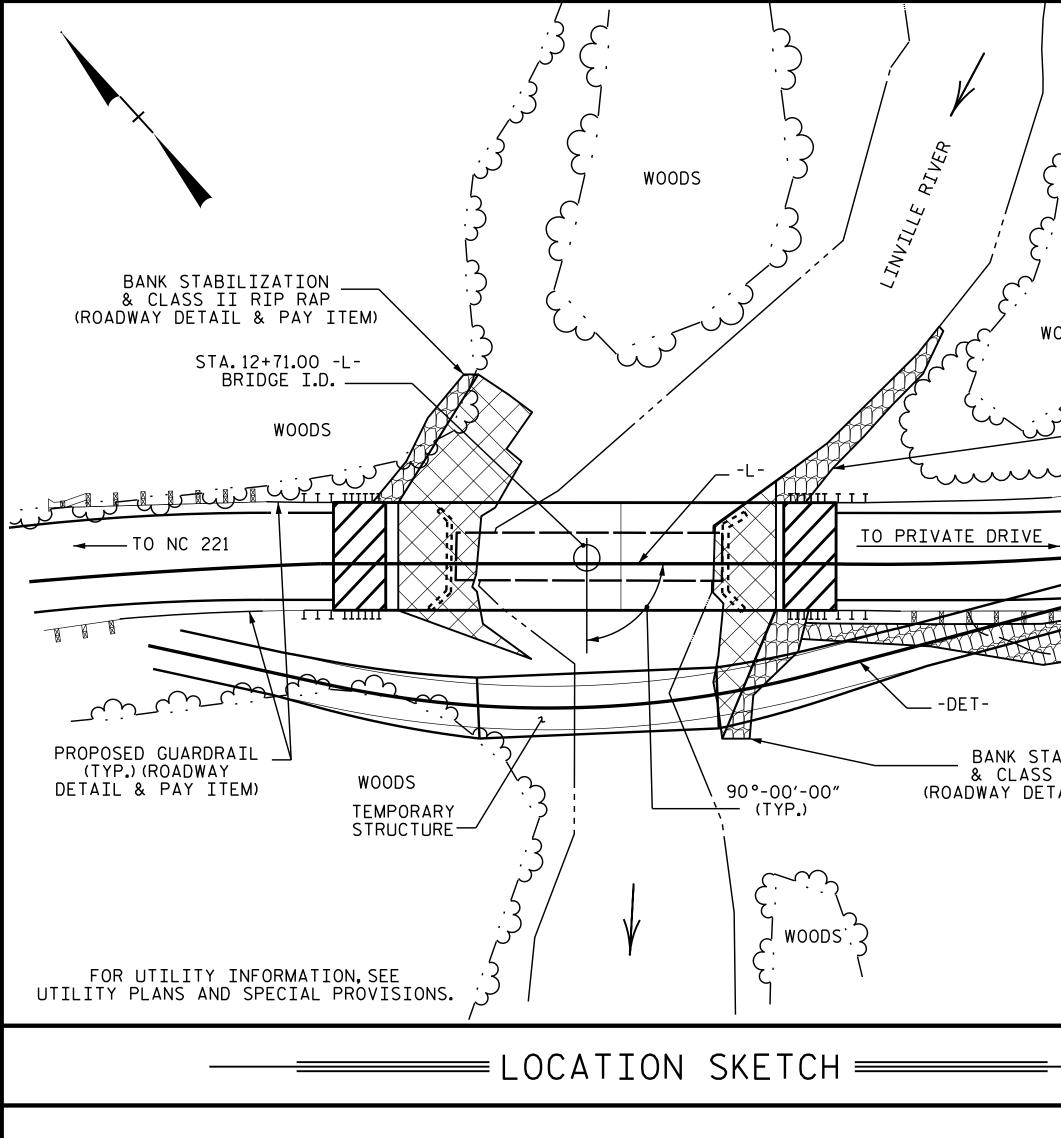
| | | | | | | — TOTAL | BILL O | F MATE | RIAL- | | | | | | | |
|----------------|---|-----------------------|-----------|---------------------|-----------------------------|----------------------|-------------------------|------------------------|----------------------------|--------------|---------|---|-----------------------------------|--|-------------------|------------------|
| | CONSTRUCTION, MAINTENANCE, AND REMOVAL OF TEMPORARY STRUCTURE | EXISTING STRUCTURE | STRUCTURE | CLASS A CONCRETE | BRIDGE APPROACH SLABS | REINFORCING STEEL | ELASTOMERIC BEARINGS | ASBESTOS ASSESSMENT | BRIDGE DECK GRINDING | T1O1 RAIL | PRE C | '' X 1'-7 ¹ /2" ESTRESSED ONCRETE RED SLABS | 2″Ø ANCHOR HOLE NOT IN SOIL | APPROACH SLAB SHOULDER PROTECTION | 7″Ø MICROPILES | VERIFICA TEST |
| | LUMP SUM | LUMP SUM | LUMP SUM | CU. YDS. | LUMP SUM | LBS. | LUMP SUM | LUMP SUM | LUMP SUM | LIN.FT. | NO. | LIN.FT. | LIN.FT. | SQ. YDS. | EACH | EACH |
| SUPERSTRUCTURE | | | | | LUMP SUM | | LUMP SUM | | LUMP SUM | 282.00 | 18 | 810.00 | | | | |
| END BENT No. 1 | | | LUMP SUM | 17.2 | | 2230 | | | | | | | | 21.1 | 5 | |
| BENT No. 1 | | | | 11.7 | | 2421 | | | | | | | 37.00 | | | 1 |
| END BENT No. 2 | | | LUMP SUM | 17.2 | | 2230 | | | | | | | | 21.1 | 5 | |
| TOTAL | LUMP SUM | LUMP SUM | LUMP SUM | 46.1 | LUMP SUM | 6881 | LUMP SUM | LUMP SUM | LUMP SUM | 282.00 | 18 | 810.00 | 37.00 | 42.2 | 10 | 1 |
| | • | | | • | • | • | • | | • | • | · · · ~ | | | • | • | 8 |

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| 275.29 |
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| WOODS STABILIZATION & CLASS II RIP RAP (ROADWAY DETAIL & PAY ITEM) |
| |
| ABILIZATION 5 II RIP RAP TAIL & PAY ITEM) |
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| <u>.</u> |

NOTES

| NUTES | |
|--|-----------------------------------|
| ASSUMED LIVE LOAD = HL-93 OR ALTERNATE LOADING. | DE |
| THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. | FR |
| THIS BRIDGE IS LOCATED IN SEISMIC ZONE 1. | DE |
| FOR OTHER DESIGN DATA AND GENERAL NOTES. SEE SHEET SN. | DR |
| FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS. | BA |
| REMOVAL OF THE EXISTING BRIDGE SHALL BE PERFORMED IN A MANNER | BA |
| THAT PREVENTS DEBRIS FROM FALLING INTO THE WATER.THE CONTRACTOR SHALL SUBMIT DEMOLITION PLANS FOR REVIEW AND REMOVE THE BRIDGE IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS. | <u>(</u> |
| THE CONTRACTOR WILL BE REQUIRED TO CONSTRUCT, MAINTAIN AND AFTERWARDS | OV FR |
| REMOVE A TEMPORARY STRUCTURE AT STATION 12+71.00 -L- FOR USE DURING CONSTRUCTION OF THE PROPOSED STRUCTURE.FOR CONSTRUCTION, MAINTENANCE AND REMOVAL OF TEMPORARY STRUCTURE,SEE SPECIAL PROVISIONS. | ٥V |
| THE MATERIAL SHOWN IN THE CROSS-HATCHED AREA SHALL BE EXCAVATED FOR A DISTANCE OF 40 FT LEFT AND 25 FT RIGHT OF THE CENTERLINE ROADWAY AT END BENT No.1 AND A DISTANCE OF 20 FT.LEFT AND 50 FEET RIGHT AT END BENT No.2 AS DIRECTED BY THE ENGINEER.THIS WORK WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR UNCLASSIFIED | FOR DES A F |
| STRUCTURE EXCAVATION. SEE SECTION 412 OF THE STANDARD SPECIFICATIONS. | INS |
| THE SUBSTRUCTURE OF THE EXISTING BRIDGE INDICATED ON THE PLANS IS FROM THE BEST INFORMATION AVAILABLE. SINCE THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR, THE CONTRACTOR | ŤŎ OF NATI |
| 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. | USE AND END |
| THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH ``HEC 18-EVALUATING SCOUR AT BRIDGES.'' | FOR |
| INASMUCH AS THE PAINT SYSTEM ON THE EXISTING STRUCTURAL STEEL CONTAINS LEAD, THE CONTRACTOR'S ATTENTION IS DIRECTED TO ARTICLE 107-1 OF THE STANDARD SPECIFICATIONS. ANY COSTS RESULTING FROM COMPLIANCE WITH APPLICABLE STATE OR FEDERAL REGULATIONS PERTAINING TO HANDLING OF MATERIALS CONTAINING LEAD BASED PAINT SHALL BE INCLUDED IN THE BID PRICE FOR "REMOVAL OF EXISTING STRUCTURE." | ROCI RES BOT USE 75 k |
| FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS. | GRO |
| FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS. | WIT BY I |
| FOR CRANE SAFETY, SEE SPECIAL PROVISIONS. | DES |
| FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS. | RES: INS |
| FOR ASBESTOS ASSESSMENT FOR BRIDGE DEMOLITION AND RENOVATION ACTIVITIES, SEE SPECIAL PROVISIONS. | |
| FOR BRIDGE DECK GRINDING, SEE SPECIAL PROVISIONS. | USE |
| FOR T101 RAIL, SEE SPECIAL PROVISIONS. | MIN |
| FOR 3'-0"X 1'-7 $\frac{1}{2}$ " PRESTRESSED CONCRETE CORED SLABS, SEE SPECIAL PROVISIONS. | FOR |
| THE EXISTING 2 SPAN STRUCTURE (1 @ 31'-6",1 @ 32'-6") CONSISTING OF A TIMBER FLOOR ON 5 LINES OF STEEL I-BEAMS WITH AN 1" ASPHALT OVERLAY ON A SUBSTRUCTURE CONSISTING OF REINFORCED CONCRETE ABUTMENTS AND REINFORCED CONCRETE PIER SHALL BE REMOVED. THE EXISTING BRIDGE IS PRESENTLY POSTED FOR LOAD LIMIT. SHOULD THE STRUCTURAL INTEGRITY OF THE BRIDGE DETERIORATE DURING CONSTRUCTION OF THE PROPOSED BRIDGE, A LOAD LIMIT MAY BE POSTED AND MAY BE REDUCED AS FOUND NECESSARY DURING THE LIFE OF THE PROJECT. SEE SPECIAL PROVISIONS FOR REMOVAL OF EXISTING STRUCTURE. | |

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| HYDRAULIC DATA | |
| ESIGN DISCHARGE 2730 CFS REQUENCY OF DESIGN FLOOD 5 YRS. | |
| SIGN HIGH WATER ELEVATION 3270.4 | |
| RAINAGE AREA 30.9 SQ.MI. | |
| ASE DISCHARGE (Q100) 9980 CFS ASE HIGH WATER ELEVATION 3274.84 | |
| <u>OVERTOPPING FLOOD DATA</u> | |
| /ERTOPPING DISCHARGE 2730 CFS | |
| REQUENCY OF OVERTOPPING FLOOD 5 YRS. /ERTOPPING FLOOD ELEVATION 3270.2 | |
| FOUNDATION NOTES | |
| 7"Ø MICROPILES, SEE MICROPILES SPECIAL PROVISION. | |
| IGN BOND LENGTH FOR MICROPILES AT END BENT No.1 FOR ACTORED RESISTANCE OF 150 TONS PER PILE. | |
| TALL REINFORCING CASINGS FOR MICROPILES AT END BENT No.1 A TIP ELEVATION NO HIGHER THAN 3255.5 AND WITH A PENETRATION A LEAST 10 FT.INTO ROCK WHICH IS DEFINED AS CONTINUOUS INTACT URAL MATERIAL. | |
| REINFORCING CASINGS WITH YIELD STRENGTHS OF AT LEAST 45 KSI A MINIMUM WALL THICKNESS OF 0.5 INCHES FOR MICROPILES AT BENT No.1. | |
| ROCK ANCHORS, SEE UNTENSIONED ROCK ANCHORS SPECIAL PROVISION. | |
| K ANCHORS AT BENT NO.1 ARE DESIGNED FOR A FACTORED UPLIFT ISTANCE OF 17.5 TONS PER ANCHOR WITH A MINIMUM BOND LENGTH OF 3.5 FT. | |
| TOM OF CAP AT BENT NO.1 TO BE FORMED DIRECTLY ON EXPOSED ROCK OUTCROP. | |
| #8 GALVANIZED THREADED STEEL REBAR WITH YIELD STRENGTH OF AT LEAST KSI FOR ANCHORS AT BENT No.1. | |
| UT THE HOLES AT BENT NO.1 IN A MANNER THAT NO GROUT COMES IN CONTACT H THE STREAM.CONTRACTOR TO INCLUDE GROUTING SEQUENCE TO BE REVIEWED NCDOT. | |
| IGN BOND LENGTH FOR MICROPILES AT END BENT NO.2 FOR A FACTORED ISTANCE OF 150 TONS PER PILE. | |
| TALL REINFORCING CASINGS FOR MICROPILES AT END BENT NO.2 TO A TIP VATION NO HIGHER THAN 3249 AND WITH A PENETRATION OF AT LEAST 10 FT. O ROCK. | |
| REINFORCING CASINGS WITH YIELD STRENGTH OF AT LEAST 45 KSI AND A NIMUM WALL THICKNESS OF 0.5 INCHES FOR MICROPILES AT END BENT NO.2. | |
| VERIFICATION TESTS, SEE UNTENSIONED ROCK ANCHORS SPECIAL PROVISION. | |
| PROJECT NO. <u>B-5383</u> | |
| AVERYCOUNTY | |
| STATION: 12+71.00 -L- | |
| SHEET 2 OF 2 | |
| STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION | |
| RALEIGH | |
| GENERAL DRAWING | |
| FOR BRIDGE OVER LINVILLE RIVER Marshall G. (hurk)r. | |
| Marstant 6. (atter jr.)ON SR 1536 BETWEEN6549D6EBAA3B405NC 221 AND PRIVATE DRIVE | |
| REVISIONS SHEET NO. | |
| DOCUMENT NOT CONSTDERED NO. BY: DATE: NO. BY: DATE: S-2 | |
| FINAL UNLESS ALL 1 3 SIGNATURES COMPLETED 2 4 16 | |