

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.

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

FOR EROSION CONTROL MEASURES SEE EROSION CONTROL PLANS.

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

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 AT STATION 22+12.00 -L-".

AFTER SERVING AS A TEMPORARY STRUCTURE, THE EXISTING STRUCTURE CONSISTING OF 3 SPANS: 1 @ 40'-3", 1 @ 40'-0" AND 1 @ 40'-3", WITH A CLEAR ROADWAY WIDTH OF 20'-0" AND REINFORCED CONCRETE DECK ON STEEL I-BEAMS WITH 2" AWS; ON END BENTS CONSISTING OF REINFORCED CONCRETE CAPS ON TIMBER PILES, AND INTERIOR BENTS CONSISTING OF REINFORCED CONCRETE POST AND BEAM ON SPREAD FOOTINGS AND LOCATED SOUTH OF THE PROPOSED STRUCTURE SHALL BE REMOVED. THE EXISTING BRIDGE IS PRESENTLY POSTED BELOW THE LEGAL LOAD LIMIT. SHOULD THE STRUCTURAL INTEGRITY OF THE BRIDGE FURTHER DETERIORATE, THIS LOAD LIMITATION MAY BE REDUCED AS FOUND NECESSARY DURING THE LIFE OF THE PROJECT. FOR REMOVAL OF EXISTING STRUCTURE, SEE SPECIAL PROVISIONS.

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.

REMOVAL OF THE EXISTING BRIDGE SHALL BE PERFORMED IN A MANNER 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.

THE MATERIAL SHOWN IN THE CROSS-HATCHED AREA ON SHEET S-1
SHALL BE EXCAVATED FOR A DISTANCE OF 70 FT. 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.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR CONCRETE WEARING SURFACE, SEE SPECIAL PROVISIONS.

FOR ASBESTOS ASSESSMENT FOR BRIDGE DEMOLITION AND RENOVATION ACTIVITIES, SEE SPECIAL PROVISIONS.

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 22+12.00 -L-.

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 CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT ONLY ONE TEMPORARY CAUSEWAY IS PERMITTED WITHIN THE STREAM AT ANY TIME, AND ANY SINGLE CAUSEWAY SHOULD NOT BLOCK MORE THAN 50% OF THE CHANNEL TO ALLOW FLOW THROUGH THE CHANNEL.

—— TOTAL BILL OF MATERIAL——																									
	CONSTRUCTION MAINTENANCE AND REMOVAL OF TEMPORARY ACCESS	REMOVAL OF EXISTING STRUCTURE	3'-0"Ø DRILLED PIER IN SOIL	3'-0"Ø DRILLED PIER NOT IN SOIL	PERMANENT STEEL CASING FOR 3'-0"Ø DRILLED PIER	SID INSPECTIONS	SPT TESTING	CSL TESTING	UNCLASSIFIED STRUCTURE EXCAVATION	CONCRETE WEARING SURFACE	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL	PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES	HP 12X53 STEEL PILES	TWO BAR METAL RAIL	1'-2" X 2'-11 ¹ / ₂ " CONCRETE PARAPET	RIP RAP CLASS II (2'-0" THICK	GEOTEXTILE FOR DRAINAGE	ELASTOMERIC BEARINGS	3'-0") PREST CON(BOX	X 2'-9" TRESSED CRETE BEAMS	ASBESTOS ASSESSMENT
	LUMP SUM	LUMP SUM				EACH	EACH	EACH	LUMP SUM	SQ.FT.	SQ.FT.	CU. YDS.	LUMP SUM	LBS.	LBS.	EACH	NO. LIN.FT.	LIN.FT.	LIN.FT.	TONS	SQ. YDS.	LUMP SUM	NO.	LIN.FT.	LUMP SUM
SUPERSTRUCTURE										5,480	5,751							284.40	300.00			LUMP SUM	26	1950.00	
END BENT 1								1	LUMP SUM			30.2		3,897		7	7 105			315	350				
BENT 1			55	23	36	3						24.0		12,167	1,877										
END BENT 2									LUMP SUM			30.2		3,897		7	7 175			285	315				
TOTAL	LUMP SUM	LUMP SUM	55	23	36	3	1	1	LUMP SUM	5,480	5,751	84.4	LUMP SUM	19,961	1,877	14	14 280	284.40	300.00	600	665	LUMP SUM	26	1950.00	LUMP SUM
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HYDRAULIC DATA

DESIGN DISCHARGE _______9,350 C.F.S. FREQUENCY OF DESIGN FLOOD _____ ** 5 YRS DESIGN HIGH WATER ELEVATION _____ 671.30 DRAINAGE AREA ______ 255 SQ. MI. BASE DISCHARGE(Q100) _____ 23,814 C.F.S. BASE HIGH WATER ELEVATION _____ 677.59

** EXISTING LEVEL OF SERVICE IS THE 5 YEAR STORM.

OVERTOPPING DATA

OVERTOPPING DISCHARGE______11,400 C.F.S. FREQUENCY OF OVERTOPPING ______10 YRS. OVERTOPPING ELEVATION______* 672.90

*OT ELEVATION @ PROPOSED SAG STA.18+88.44 -L-

PROJECT NO. B-5165

DAVIDSON COUNTY

STATION: 22+12.00 -L-

SHEET 3 OF 3

CAROLINAL DOSESSION SEAL D31583

PRASADILITIES OF THE PRASADILITIES OF T

4/20/2017

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GENERAL DRAWING

FOR BRIDGE OVER

MUDDY CREEK

ON SR 1485 BETWEEN

SR 1543 AND SR 1495

DEPARTMENT OF TRANSPORTATION
RALEIGH

REVISIONS SHEET NO.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED 2 A 4 SHEETS

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CHECKED BY: M. K. BEARD

DESIGN ENGINEER OF RECORD: K. P. SEDAI

DATE: 03/18/16

DATE: 10/14/16

DATE: 2/27/17