



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

J. ERIC BOYETTE  
SECRETARY

April 13, 2023

**Addendum No. 1**

RE: Contract # C204795

WBS # 67073.3.1

STATE FUNDED

**Columbus County (BR-0073)**

BRIDGE #230005 OVER GAPWAY SWAMP ON US-76.

**April 18, 2023 Letting**

To Whom It May Concern:

Reference is made to the plans and proposal furnished to you on this project.

The following revision has been made to the Structures Plans.

Sheet No.	Revision
S-5	Bill of Material updated to reflect quantity change below.

Please void the above listed Sheet in your Plans and staple the revised Sheet thereto.

The following revisions have been made to the proposal.

Page No.	Revision
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated 04-13-2023".
G-4	The project special provision entitled <b>MAJOR CONTRACT ITEMS</b> has been revised.

Please void the above listed Pages in your proposal and staple the revised Pages thereto.

On the item sheets the following pay item revision has been made:

<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
0090-8147000000-E 420	REINFORCED CONCRETE DECK SLAB	3,682 SF	6,382 SF

Mailing Address:  
NC DEPARTMENT OF TRANSPORTATION  
CONTRACT STANDARDS AND DEVELOPMENT  
1591 MAIL SERVICE CENTER  
RALEIGH, NC 27699-1591

Telephone: (919) 707-6900  
Fax: (919) 250-4127  
Customer Service: 1-877-368-4968

Location:  
1020 BIRCH RIDGE DR.  
RALEIGH, NC 27610

Website: [www.ncdot.gov](http://www.ncdot.gov)

The Contractor's bid must include this pay item revision.

The electronic bidding file has been updated to reflect this revision. Please download the Addendum File and follow the instructions for applying the addendum. Bid Express will not accept your bid unless the addendum has been applied.

The contract will be prepared accordingly.

Sincerely,

DocuSigned by:  
  
F81B6038A47A442...

Ronald E. Davenport, Jr., PE  
State Contract Officer

RED/cms  
Attachments

cc: Mr. Boyd Tharrington, PE  
Mr. H. L. "Drew" Cox, PE  
Mr. Ken Kennedy, PE  
Mr. Mike Gwyn  
Project File (2)

Mr. Forrest Dungan, PE  
Ms. Jaci Kincaid  
Mr. Jon Weathersbee, PE

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH, N.C.

PROPOSAL

**INCLUDES ADDENDUM No. 1 DATED 04-13-2023**

DATE AND TIME OF BID OPENING: **Apr 18, 2023 AT 02:00 PM**

CONTRACT ID        C204795  
WBS                    67073.3.1

FEDERAL-AID NO.    STATE FUNDED  
COUNTY             COLUMBUS  
T.I.P NO.             BR-0073  
MILES                 3.422  
ROUTE NO.            US-76  
LOCATION               BRIDGE #230005 OVER GAPWAY SWAMP ON US-76.

TYPE OF WORK        GRADING, DRAINAGE, PAVING, AND STRUCTURE.

**NOTICE:**

ALL BIDDERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE BIDDER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. BIDDERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA. NOTWITHSTANDING THESE LIMITATIONS ON BIDDING, THE BIDDER WHO IS AWARDED ANY FEDERAL - AID FUNDED PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING.

**BIDS WILL BE RECEIVED AS SHOWN BELOW:**

**THIS IS A ROADWAY & STRUCTURE PROPOSAL**

**5% BID BOND OR BID DEPOSIT REQUIRED**

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No separate payment will be made for conforming with the requirements of this Special Provision. Please contact the Resident Engineer or the Surfaces and Encroachment manager with the Rail Division with any questions pertaining to the Right of Entry at 919-707-4132 or [mmclamb@ncdot.gov](mailto:mmclamb@ncdot.gov).

**DELAY IN RIGHT OF ENTRY:**

(7-1-95) (Rev. 7-15-14)

108

SP1 G22

The Contractor will not be allowed right of entry to the following parcel(s) prior to the listed date(s) unless otherwise permitted by the Engineer.

<b><u>Parcel No.</u></b>	<b><u>Property Owner</u></b>	<b><u>Date</u></b>
002	David Enzor et al	06-01-2023

**MAJOR CONTRACT ITEMS:**

(2-19-02)

104

SP1 G28

The following listed items are the major contract items for this contract (see Article 104-5 of the *2018 Standard Specifications*):

<b>Line #</b>	<b>Description</b>
20	Asphalt Concrete Base Course, Type B25.0 C
22	Asphalt Concrete Surface Course, Type S9.5 B
90	Reinforced Concrete Deck Slab
95	45" Prestressed Concrete Girders

**SPECIALTY ITEMS:**

(7-1-95)(Rev. 7-20-21)

108-6

SP1 G37

Items listed below will be the specialty items for this contract (see Article 108-6 of the *2018 Standard Specifications*).

<b>Line #</b>	<b>Description</b>
33-37	Guardrail
41-42	Signing
52, 54	Long-Life Pavement Markings
55	Permanent Pavement Markers
56-85	Erosion Control

**FUEL PRICE ADJUSTMENT:**

(11-15-05) (Rev. 11-15-22)

109-8

SP1 G43

Revise the *2018 Standard Specifications* as follows:

**Page 1-87, Article 109-8, Fuel Price Adjustments**, add the following:

The base index price for DIESEL #2 FUEL is \$ **2.7901** per gallon. Where any of the following are included as pay items in the contract, they will be eligible for fuel price adjustment.

County: COLUMBUS

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
<b>ROADWAY ITEMS</b>						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0000400000-N	801	CONSTRUCTION SURVEYING	Lump Sum	L.S.	
0003	0028000000-N	SP	TYPE I STANDARD APPROACH FILL STATION ***** (18+24.50 -L-)	Lump Sum	L.S.	
0004	0036000000-E	225	UNDERCUT EXCAVATION	300 CY		
0005	0050000000-E	226	SUPPLEMENTARY CLEARING & GRUBBING	1 ACR		
0006	0063000000-N	SP	GRADING	Lump Sum	L.S.	
0007	0106000000-E	230	BORROW EXCAVATION	8,450 CY		
0008	0195000000-E	265	SELECT GRANULAR MATERIAL	300 CY		
0009	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZATION	300 SY		
0010	0318000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	14 TON		
0011	0320000000-E	300	FOUNDATION CONDITIONING GEOTEXTILE	44 SY		
0012	0335200000-E	305	15" DRAINAGE PIPE	52 LF		
0013	0335850000-E	305	*** DRAINAGE PIPE ELBOWS (15")	4 EA		
0014	0448200000-E	310	15" RC PIPE CULVERTS, CLASS IV	64 LF		
0015	1220000000-E	545	INCIDENTAL STONE BASE	183 TON		
0016	1245000000-E	SP	SHOULDER RECONSTRUCTION	4.6 SMI		
0017	1260000000-E	SP	AGGREGATE SHOULDER BORROW	1,072 TON		

County: COLUMBUS

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0018	1297000000-E	607	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")	560 SY		
0019	1330000000-E	607	INCIDENTAL MILLING	1,670 SY		
0020	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	3,310 TON		
0021	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	720 TON		
0022	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	4,068 TON		
0023	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	454 TON		
0024	2022000000-E	815	SUBDRAIN EXCAVATION	44.8 CY		
0025	2026000000-E	815	GEOTEXTILE FOR SUBSURFACE DRAINS	200 SY		
0026	2036000000-E	815	SUBDRAIN COARSE AGGREGATE	33.6 CY		
0027	2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	200 LF		
0028	2070000000-N	815	SUBDRAIN PIPE OUTLET	1 EA		
0029	2077000000-E	815	6" OUTLET PIPE	6 LF		
0030	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	3 EA		
0031	2355000000-N	840	FRAME WITH GRATE, STD 840.29	3 EA		
0032	2556000000-E	846	SHOULDER BERM GUTTER	90 LF		
0033	3030000000-E	862	STEEL BEAM GUARDRAIL	875 LF		
0034	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	5 EA		

County: COLUMBUS

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0035	3287000000-N	SP	GUARDRAIL END UNITS, TYPE TL-3	4 EA		
0036	3317000000-N	SP	GUARDRAIL ANCHOR UNITS, TYPE B-77	4 EA		
0037	3360000000-E	863	REMOVE EXISTING GUARDRAIL	825 LF		
0038	3635000000-E	876	RIP RAP, CLASS II	64 TON		
0039	3649000000-E	876	RIP RAP, CLASS B	331 TON		
0040	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	2,290 SY		
0041	4192000000-N	907	DISPOSAL OF SUPPORT, U-CHANNEL	2 EA		
0042	4238000000-N	907	DISPOSAL OF SIGN, D, E OR F	2 EA		
0043	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	607 SF		
0044	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	225 SF		
0045	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	119 SF		
0046	4420000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN	2 EA		
0047	4430000000-N	1130	DRUMS	50 EA		
0048	4435000000-N	1135	CONES	50 EA		
0049	4445000000-E	1145	BARRICADES (TYPE III)	64 LF		
0050	4455000000-N	1150	FLAGGER	56 DAY		
0051	4516000000-N	1180	SKINNY DRUM	50 EA		

County: COLUMBUS

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0052	4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	3,416 LF		
0053	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	111,798 LF		
0054	4847096000-E	SP	POLYUREA PAVEMENT MARKING LINES, ***, ** MILS (STANDARD GLASS BEADS) (4", 20 MILS)	648 LF		
0055	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	226 EA		
0056	6000000000-E	1605	TEMPORARY SILT FENCE	1,360 LF		
0057	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	150 TON		
0058	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	175 TON		
0059	6012000000-E	1610	SEDIMENT CONTROL STONE	375 TON		
0060	6015000000-E	1615	TEMPORARY MULCHING	3 ACR		
0061	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	200 LB		
0062	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEEDING	1 TON		
0063	6024000000-E	1622	TEMPORARY SLOPE DRAINS	280 LF		
0064	6029000000-E	SP	SAFETY FENCE	320 LF		
0065	6030000000-E	1630	SILT EXCAVATION	280 CY		
0066	6036000000-E	1631	MATTING FOR EROSION CONTROL	1,200 SY		
0067	6037000000-E	SP	COIR FIBER MAT	525 SY		
0068	6042000000-E	1632	1/4" HARDWARE CLOTH	110 LF		

County: COLUMBUS

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0069	6048000000-E	SP	FLOATING TURBIDITY CURTAIN	55 SY		
0070	6070000000-N	1639	SPECIAL STILLING BASINS	13 EA		
0071	6071012000-E	SP	COIR FIBER WATTLE	330 LF		
0072	6071014000-E	SP	COIR FIBER WATTLE BARRIER	725 LF		
0073	6071020000-E	SP	POLYACRYLAMIDE (PAM)	90 LB		
0074	6084000000-E	1660	SEEDING & MULCHING	3 ACR		
0075	6087000000-E	1660	MOWING	1.5 ACR		
0076	6090000000-E	1661	SEED FOR REPAIR SEEDING	50 LB		
0077	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	0.25 TON		
0078	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	100 LB		
0079	6108000000-E	1665	FERTILIZER TOPDRESSING	2.5 TON		
0080	6111000000-E	SP	IMPERVIOUS DIKE	115 LF		
0081	6114500000-N	1667	SPECIALIZED HAND MOWING	10 MHR		
0082	6114800000-N	SP	MANUAL LITTER REMOVAL	1 MHR		
0083	6114900000-E	SP	LITTER DISPOSAL	1 TON		
0084	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	25 EA		
0085	6117500000-N	SP	CONCRETE WASHOUT STRUCTURE	2 EA		

County: COLUMBUS

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
<b>STRUCTURE ITEMS</b>						
0086	8035000000-N	402	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (18+24.50 -L-)	Lump Sum	L.S.	
0087	8065000000-N	SP	ASBESTOS ASSESSMENT	Lump Sum	L.S.	
0088	8112730000-N	450	PDA TESTING	3 EA		
0089	8121000000-N	412	UNCLASSIFIED STRUCTURE EXCAVATION AT STATION ***** (18+24.50 -L-)	Lump Sum	L.S.	
0090	8147000000-E	420	REINFORCED CONCRETE DECK SLAB	6,382 SF		
0091	8161000000-E	420	GROOVING BRIDGE FLOORS	6,963 SF		
0092	8182000000-E	420	CLASS A CONCRETE (BRIDGE)	145.1 CY		
0093	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (18+24.50 -L-)	Lump Sum	L.S.	
0094	8217000000-E	425	REINFORCING STEEL (BRIDGE)	26,588 LB		
0095	8262000000-E	430	45" PRESTRESSED CONCRETE GIRDERS	802.27 LF		
0096	8328200000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** STEEL PILES (HP 12 X 53)	14 EA		
0097	8328400000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** GALVANIZED STEEL PILES (PP 18 X 0.50)	14 EA		
0098	8364000000-E	450	HP 12 X 53 STEEL PILES	770 LF		
0099	8385200000-E	450	PP ** X **** GALVANIZED STEEL PILES (18 X 0.50)	980 LF		
0100	8393000000-N	450	PILE REDRIVES	14 EA		
0101	8503000000-E	460	CONCRETE BARRIER RAIL	325.42 LF		

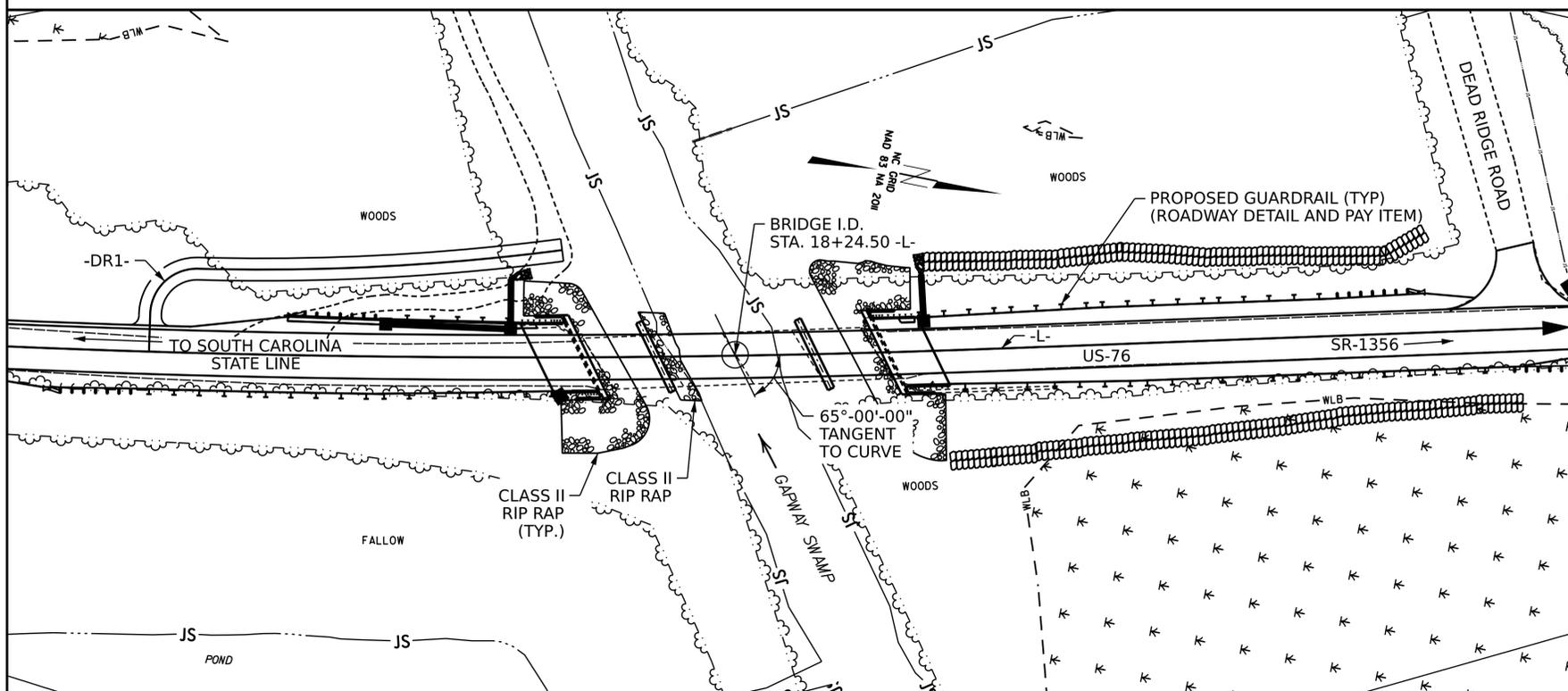
County: COLUMBUS

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0102	8608000000-E	876	RIP RAP CLASS II (2'-0" THICK)	714 TON		
0103	8622000000-E	876	GEOTEXTILE FOR DRAINAGE	793 SY		
0104	8657000000-N	430	ELASTOMERIC BEARINGS	Lump Sum	L.S.	
0105	8692000000-N	SP	FOAM JOINT SEALS	Lump Sum	L.S.	

1750/Apr12/Q194886.04/D477267122000/E105

Total Amount Of Bid For Entire Project :

BM#1: RR SPIKE IN BASE OF 20" GUM TREE, STA 11+10.00 -BL-, ELEV. = 67.87, OFFSET 46' RT.



**LOCATION SKETCH**

FOR UTILITY INFORMATION, SEE UTILITY PLANS AND SPECIAL PROVISIONS.

**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 IN SEISMIC ZONE 2.

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

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 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.

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

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

FOR INTERIOR BENTS 1 AND 2, ONLY PARTIAL GALVANIZING OF THE PILES IS REQUIRED. SEE INTERIOR BENT SHEETS FOR REQUIRED GALVANIZED LENGTHS. PAYMENT FOR PARTIALLY GALVANIZED PILES WILL BE MADE UNDER THE CONTRACT UNIT PRICE FOR GALVANIZED STEEL PILES.

THE MATERIAL SHOWN IN THE HATCHED AREA ON SHEET 1 OF 5 SHALL BE EXCAVATED FOR A DISTANCE OF 45 FT LEFT AND 40 FT RIGHT AT END BENT 1 AND 35 FT EACH SIDE OF CENTERLINE ROADWAY AT END BENT 2 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.

THE EXISTING STRUCTURE CONSISTING OF 4- 37'-6" REINFORCED CONCRETE DECK GIRDER SPANS WITH A CLEAR ROADWAY WIDTH OF 28'-2" AND REINFORCED CONCRETE DECK ON REINFORCED CONCRETE END BENTS AND BENTS ON TIMBER PILES AND LOCATED AT THE PROPOSED STRUCTURE SHALL BE REMOVED. THE EXISTING BRIDGE IS PRESENTLY NOT POSTED FOR LOAD LIMIT.

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 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.

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

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

ALL REMNANT PILES FROM THE EXISTING BRIDGE OR ANY PREVIOUS BRIDGES SHALL BE REMOVED. IN THE EVENT THAT A PILE CANNOT BE REMOVED COMPLETELY, THE PILE SHALL BE CUT OFF AT THE MUD LINE.

**TOTAL BILL OF MATERIAL**

	REMOVAL OF EXISTING STRUCTURE AT STA. 18+24.50 -L-	ASBESTOS ASSESSMENT	PDA TESTING	UNCLASSIFIED STRUCTURE EXCAVATION	REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	45" PRESTRESSED CONCRETE GIRDERS		PILE DRIVING EQUIPMENT SETUP FOR HP 12x53 STEEL PILES	PILE DRIVING EQUIPMENT SETUP FOR PP 18 X 0.50 GALVANIZED STEEL PILES	HP 12x53 STEEL PILES		PP 18 X 0.50 GALVANIZED STEEL PILES		PILE REDRIVES	CONCRETE BARRIER RAIL	RIP RAP CLASS II (2'-0" THICK)	GEOTEXTILE FOR DRAINAGE	ELASTOMERIC BEARINGS	FOAM JOINT SEALS	
										NO.	LIN. FT.			NO.	LIN. FT.	EACH	LIN. FT.							TONS
SUPERSTRUCTURE				LUMP SUM	6382	6963		LUMP SUM		15	802.27							325.42				LUMP SUM	LUMP SUM	
END BENT 1							47.7		8673			7		7	385						370	411		
BENT 1							25.1		4635				7			7	490							
BENT 2							25.0		4635				7			7	490							
END BENT 2							47.3		8645			7		7	385						344	382		
TOTAL	LUMP SUM	LUMP SUM	3	LUMP SUM	6382	6963	145.1	LUMP SUM	26588	15	802.27	14	14	14	770	14	980	14	325.42		714	793	LUMP SUM	LUMP SUM

**HYDRAULIC DATA**

DESIGN DISCHARGE = 3100 C.F.S.  
 FREQUENCY OF DESIGN FLOOD = 50 YRS.  
 DESIGN HIGH WATER ELEVATION = 64.2 FT.  
 DRAINAGE AREA = 46.9 SQ. MI.  
 BASE DISCHARGE (Q100) = 3700 C.F.S.  
 BASE HIGH WATER ELEVATION = 64.89 FT.

**OVERTOPPING FLOOD DATA**

OVERTOPPING DISCHARGE = 4900 C.F.S.  
 FREQUENCY OF OVERTOPPING FLOOD = 500± YRS.  
 OVERTOPPING FLOOD ELEVATION = 66.0 FT.  
 OVERTOPPING OCCURS AT SAG STA. 25+33.10 -L-

PROJECT NO. **BR-0073**  
**COLUMBUS** COUNTY  
 STATION: **18+24.50 -L-**

SHEET 5 OF 5

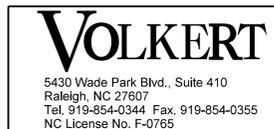


STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

**GENERAL DRAWING**

FOR BRIDGE ON US 76  
 OVER GAPWAY SWAMP  
 BETWEEN SR-1356 AND  
 SOUTH CAROLINA STATE LINE

DRAWN BY : P. N. HOLDER DATE : 03/22  
 CHECKED BY : D. A. GLADDEN DATE : 03/22  
 DESIGN ENGINEER OF RECORD : P. N. HOLDER DATE : 11/22



DOCUMENT NOT CONSIDERED  
 FINAL UNLESS ALL  
 SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-5
1			3			TOTAL SHEETS
2			4			38