

TOTAL BILL OF MATERIAL																						
	REMOVAL OF EXISTING STRUCTURE	ASBESTOS ASSESSMENT	FOUNDATION EXCAVATION FOR BENT 1	DYNAMIC PILE TESTING	UNCLASSIFIED STRUCTURE EXCAVATION	REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL	54" PI C(G	RESTRESSED ONCRETE SIRDERS	PILE DRIVING EQUIPMENT SETUP FOR HP12×53 STEEL PILES	H STE	P12X53 EL PILES	STEEL PILE POINTS	PILE REDRIVES	CLASSIC CONCRETE BRIDGE RAIL	4" SLOPE PROTECTION	ELASTOMERIC BEARINGS	STRIP SEAL EXPANSION JOINTS
	LUMP SUM	LUMP SUM	LUMP SUM	EACH	LUMP SUM	SQ.FT.	SQ.FT.	CU.YDS.	LUMP SUM	LBS.	LBS.	NO.	LIN.FT.	EA.	NO.	LIN.FT.	EACH	EACH	LIN.FT.	SQ. YDS.	LUMP SUM	LUMP SUM
SUPERSTRUCTURE						10,341	9,425					14	1247.17						360.7			
END BENT 1								79.2		10,944				11	11	825		6		61.2		
BENT 1								116.1		17,130	2,047			24	24	1440	24	12				
END BENT 2								71.6		10,484				11	11	880		6		57.0		
TOTAL	LUMP SUM	LUMP SUM	LUMP SUM	1	LUMP SUM	10,341	9,425	266.9	LUMP SUM	38,558	2,047	14	1247.17	46	46	3145	24	24	360.7	118.2	LUMP SUM	LUMP SUM

SAMPLE BAR REPLACEMENT								
SIZE	LENGTH							
#3	6'-2"							
#4	7'-4"							
# 5	8'-6"							
# 6	9′-8″							
# 7	10'-10"							
#8	12'-0"							
# 9	13'-2"							
# 10	14'-6"							
#11	15′-10″							

NOIE: SAMPLE BAR REPLACEMENT LENGTHS BASED ON 30" (SAMPLE LENGTH) PLUS TWO SPLICE LENGTHS AND fy= 60ksi.

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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.

FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVIS

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

FOR CLASSIC CONCRETE BRIDGE RAIL, SEE SPECIAL PROVISI

FOR ELECTRICAL CONDUIT SYSTEM, SEE ELECTRICAL CONDUI SYSTEM SPECIAL PROVISIONS.

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

FOR MSE WALLS. SEE GEOTECHNICAL SPECIAL PROVISIONS.

THE CONTRACTOR SHALL PROVIDE INDEPENDENT ASSURANCE OF REINFORCING STEEL AS FOLLOWS: FOR PROJECTS REQUIR TO 400 TONS OF REINFORCING STEEL, ONE 30 INCH SAMPLE EACH SIZE BAR USED, AND FOR PROJECTS REQUIRING OVER TONS OF REINFORCING STEEL. TWO 30 INCH SAMPLES OF EA BAR USED. THE SAMPLE BARS SHOULD COME FROM STEEL ACT USED IN THE PROJECT AND THE SAMPLE BARS SHOUL BE REF BY SPLICED BARS AS SPECIFIED IN THE SAMPLE BAR REPL CHART. PAYMENT FOR THE SAMPLE BARS AND REPLACEMENT REINFORCING STEEL SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

THE ELEVATIONS AND CLEARANCES SHOWN ON THE PLANS AT POINTS OF MINIMUM VERTICAL CLEARANCE ARE FROM THE B INFORMATION AVAILABLE. PRIOR TO BEGINNING BRIDGE CONSTRUCTION, VERIFY THE ELEVATIONS ON THE EXISTING PAVEMENT AND CHECK THE CLEARANCE. REPORT ANY VARIAT THE ENGINEER. ANY PLAN REVISIONS NECESSARY TO ACHIEV REQUIRED MINIMUM VERTICAL CLEARANCE WILL BE PROVIDED THE DEPARTMENT.

FOR MAINTENANCE AND PROTECTION OF TRAFFIC BENEATH PROPOSED STRUCTURE, SEE SPECIAL PROVISIONS.

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

-	NEEDLE BEAMS WILL NOT BE ALLOWED UNLESS OTHERWISE CALLED FOR ON THE PLANS OR APPROVED BY THE ENGINEER.
<u>-</u> N.	THE MATERIAL SHOWN IN THE CROSS-HATCHED AREA SHALL BE EXCAVATED FOR A DISTANCE EQUAL TO THE LENGTH OF PROPOSED MSE WALL 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.
SIONS.	INASMUCH 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+71.80 -L
TUNS.	TEMPORARY SHORING WILL BE REQUIRED IN THE AREAS INDICATED IN THE PLAN VIEW.
	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.
SAMPLES ING UP OF 400 CH SIZE TUALLY PLACED ACEMENT	THE EXISTING STRUCTURE, CONSISTING OF 4 SPANS: 1 @ 42.5', 1 @ 66', 1 @ 60.5' & 1 @ 42.5'; 41.08' CLEAR ROADWAY WIDTH AND A $7'_4$ " REINFORCED CONCRETE DECK WITH A 4" ASPHALT WEARING SURFACE ON I-BEAMS; AND END BENTS CONSISTING OF REINFORCED CONCRETE CAP WITH STEEL PILES AT END BENT 1, SPREAD FOOTINGS AT END BENT 2, AND INTERIOR BENTS CONSISTING OF REINFORCED CONCRETE POST AND BEAM COLUMNS ON PILE FOOTINGS AND LOCATED AT AND EAST OF THE PROPOSED BRIDGE SHALL BE REMOVED. THE EXISTING BRIDGE IS PRESENTLY NOT 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.
THE BEST	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.
IONS TO /E THE ID BY	THE CONTRACTOR SHALL HAVE NO CLAIM WHATSOVER AGAINST THE DEPARTMENT OF TRANSPORTATION FOR ANY DELAYS OR ADDITIONAL COST INCURRED BASED ON DIFFERENCES BETWEEN THE EXISTING BRIDGE SUBSTRCUTURE SHOWN ON THE PLANS AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.
N-PLACE ARD	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.

PROJECT NO.

WAKE

B-4654

22+71.80 -L-

COUNTY

STATION: ____





1/11/2024

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NO.	BY:	DATE:	N0.	BY:	DATE:	S-03
1			ଞ			TOTAL SHEETS
2			4			49

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

GENERAL DRAWING

BRIDGE ON NC 50 OVER US 70 BETWEEN SR 2812 AND SR 1004