



LOCATION SKETCH

TOTAL BILL OF MATERIAL

	REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS, STATION 774+41.49 -L3-	REINFORCING STEEL	54" PRESTRESSED CONCRETE GIRDERS	PILE DRIVING EQUIPMENT SET UP FOR HP 12x53 STEEL PILES	HP 12x53 STEEL PILES	STEEL PILE POINTS	PREDRILLING FOR PILES	CONCRETE BARRIER RAIL	4" SLOPE PROTECTION	ELASTOMERIC BEARINGS
	SO. FT.	SO. FT.	CU. YD.	LUMP SUM	LBS.	NO. LIN. FT.	EACH	NO. LIN. FT.	EACH	LIN. FT.	LIN. FT.	SO. YD.	LUMP SUM
SUPERSTRUCTURE	5,014	6,441		LUMP SUM		6 606.63					203.6		LUMP SUM
END BENT 1			47.7		6,046		9	9 540				62	
END BENT 2			45.1		5,976		9	9 405	9	82		58	
TOTAL	5,014	6,441	92.8	LUMP SUM	12,022	6 606.63	18	18 945	9	82	203.6	120	LUMP SUM

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 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.
- 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.
- NEEDLE BEAMS WILL NOT BE ALLOWED UNLESS OTHERWISE CALLED FOR ON THE PLANS OR APPROVED BY THE ENGINEER.
- 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.
- FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.
- FOR MAINTENANCE AND PROTECTION OF TRAFFIC BENEATH PROPOSED STRUCTURE, SEE SPECIAL PROVISIONS.
- FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.
- USE TYPE III REINFORCED APPROACH FILL DETAILS. OMIT THE MSE WALL REINFORCEMENT ON THE END BENT CAPS.

PROJECT NO. R-2233BB
RUTHERFORD COUNTY
 STATION: 774+41.49 -L3-

SHEET 4 OF 4

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

GENERAL DRAWING
 FOR LEFT LANE BRIDGE ON US 221
 RUTHERFORDTON BYPASS OVER
 US 74 BUS. BETWEEN US 74
 BYPASS AND GREEN ST.

MODJESKI and MASTERS
 Experience great bridges.
 333 FAYETTEVILLE STREET, SUITE 500
 RALEIGH, NC 27601
 NC LICENSE NO. C-2979

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-4
1			3			TOTAL SHEETS
2			4			28

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DocuSigned by:
Jason R. Doughty
 SF73FA2DEA974E8

STR. #1

4/22/2020 401.007_R2233BB_SWL_TBM_R00660.dgn

DESIGNED BY: J. BORUTA DATE: MAY 2019
 DRAWN BY: K. WHITE DATE: MAY 2019
 CHECKED BY: B. LOFLIN DATE: SEP 2019
 DESIGN ENGINEER OF RECORD: J. DOUGHTY DATE: NOV 2019