TOTAL BILL OF MATERIAL																
ITEM	REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS ``A'' CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL	1372mm PRESTRESSED CONCRETE GIRDERS	SED HP310 x 79 E STEEL		CONCRETE BARRIER RAIL	PLAIN RIP RAP CLASS II (600mm THICK)	ELASTOMERIC BEARINGS	EXPANSION JOINT SEALS	EVAZOTE JOINT SEALS	GALVANIZING STEEL PILES	FILTER FABRIC FOR DRAINAGE
	m²	m²	m ³	LUMP SUM	kg	kg	meters	No.	m	m	MTN	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	m ²
SUPERSTRUCTURE	2980.3	2704.0		LUMP SUM			1135.6			459.219		LUMP SUM	LUMP SUM	LUMP SUM	LU MP SUM	
END BENT #1			29.2		2801			8	103.2	***************************************	110				***************************************	112
BENT #1			40.4		2391			14	133.0	-			-		LUMP SUM	
BENT #2		***************************************	71.8		5138	203		24	204.0				-		LUMP SUM	
BENT #3			71.8		5138	203		24	210.0				************		LUMP SUM	
BENT #4			73.7		5302	277		24	264.0						LUMP SUM	
BENT #5			73 . 5	-	5282	267		24	240.0						LUMP SUM	
BENT #6	***************************************	************	74.2		5342	295		24	228.0						LUMP SUM	
BENT #7			73.2		5261	258		24	240.0	440000000000	***************************************		- decorption (in the contract of the contract	***********	LUMP SUM	
BENT #8	· · · · · · · · · · · · · · · · · · ·		73.0		5241	249		24	228.0					-	LUMP SUM	
BENT #9			40.4		2391			14	221.2						LUMP SUM	
END BENT #2			30.9		3008			10	158.0		170					174
TOTAL	2980.3	2704.0	652.1	LUMP SUM	47295	1752	1135.6	214	2229.4	459.219	280	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	286

NOTES

- 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
- 2. ALL ELEVATIONS ARE IN METERS.
- 3. ASSUMED LIVE LOAD = MS 18 OR ALTERNATE LOADING.
- 4. FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SNSM.
- 5. THIS BRIDGE HAS BEEN DESIGNED BY THE STRENGTH DESIGN METHOD AS SPECIFIED IN AASHTO STANDARD SPECIFICATIONS.
- 6. REMOVABLE FORMS MAY BE USED IN LIEU OF METAL STAY-IN-PLACE FORMS IN ACCORDANCE WITH ARTICLE 420-3 OF THE STANDARD SPECIFICATIONS.
- 7. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH HEC 18, "EVALUATING SCOUR AT BRIDGES", NOVEMBER, 1995.
- THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR SEISMIC DESIGN OF HIGHWAY BRIDGES FOR SEISMIC PERFORMANCE CATEGORY A.
- 9. NEEDLE BEAMS WILL NOT BE ALLOWED UNLESS OTHERWISE CALLED FOR ON THE PLANS OR APPROVED BY THE ENGINEER.
- 10. FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.
- 11. FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.
- 12. PILES FOR END BENT NOS. 1 AND 2 SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 530 KN EACH.
- 13. PILES FOR BENT NOS. 1, 2, 3, 4, 5, 6, 7, 8 AND 9 SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 530 KN EACH.
- 14. WHEN DRIVING PILES, THE MAXIMUM BLOW COUNT SHALL NOT BE EXCEEDED.
- 15. THE SCOUR ELEVATION FOR BENTS NO. 2 THRU NO. 8 IS AT 57.5M, 57.6M, 57.1M, 57.1M, 56.9M, 57.5M AND 57.7M RESPECTIVELY. THE SCOUR CRITICAL ELEVATIONS ARE FOR USE BY MAINTENANCE FORCES TO MONITOR POSSIBLE SCOUR PROBLEMS DURING THE LIFE OF THE STRUCTURE.
- 16. REINFORCED BRIDGE APPROACH FILLS ARE REQUIRED AT END BENT NOS. 1 AND 2.
- 17. FOR METRIC STRUCTURAL STEEL, SEE SPECIAL PROVISIONS.
- 18. FOR CRANE SAFETY, SEE SPECIAL PROVIDSIONS.
- 19. THE STEEL PILES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1076 OF THE STANDARD SPECIFICATIONS. FOR GALVANIZING STEEL PILES, SEE SPECIAL PROVISIONS.
- 20. THE CONTRACTOR IS ADVISED OF THE PRESENCE OF WEATHERED ROCK AT VARIED ELEVATIONS THROUGHOUT THE PROJECT SITE. PILE DRIVING SHOULD BE HANDLED WITH CARE TO PREVENT PILE DAMAGE.
- 21. FOR FABRICATED METAL STAY-IN-PLACE FORMS, SEE SPECIAL PROVISIONS.
- 22. 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 THE 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.

R-2552AB PROJECT NO.

JOHNSTON

COUNTY 40+96.000 -L- P.O.C. **STATION:**

SHEET 6 OF 6

TRANSYSTEMS CORPORATION 75 Beattle Place, Sulte 400 Greenville, SC 29601 (864) 234-0866

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION GENERAL DRAWING

BRIDGE ON US 70 (CLAYTON BYPASS) OVER WHITE OAK CREEK (AUSTIN POND) BETWEEN SR 1552 (CORNWALLIS RD.) AND NC 42 (RIGHT LANE)

SHEET NO. **REVISIONS** 5-337 NO. BY: BY: DATE: DATE: TOTAL SHEETS

DRAWN BY : M.T. BELISLE DATE : 1/02 _ DATE : 1/02 CHECKED BY : D.B. HOFF