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121.01

7-,134.85 RT.,E	L.1396.42 N664851, E218860	5	NOTES
			ASSUMED LIVE L
			DESIGN FILL TO
Z	ROADWAY DAT	A	FOR OTHER DESI
			3″Ø WEEP HOLES
83	GRADE POINT ELEV. @ STA 28+84.00 -Y/-	- = 217.68	CONCRETE IN TH
L F	BED ELEV. @ SIAIION 28+84.00 -Y/-	= 180.64	STAGE I:
201	ROADWAY SLOPES	=1.5:1	1.WING FOOTING
			2. THE REMAININ
	HIDRAULIC DA		STAGE II
O'X 7' RCBC	DESIGN DISCHARGE	= 560 CFS	1. WING FOOTING
	FREQUENCY OF DESIGN FLOOD	= 50 YEARS	2. THE REMAININ
	DESIGN HIGH WATER ELEVATION	= 187.5	FOLLOWED BY
Sure.	DRAINAGE AREA	= 2.3 SQ.MI.	STAKING IT OUT
initrition dit	- BASE DISCHARGE (Q100)	= 640 CFS	OF THE FILL.
	BASE HIGH WATER ELEVATION	= 187.9	DIMENSIONS FOR ON WING SHEET.
نىكىنىپ بىلىنىكىنىكى	OVERTOPPING FLOC		TRANSVERSE CON OF 70 FT.LOCAT
CLASS I RIP RAP	OVERTOPPING DISCHARGE	= 840+ CES	AT THE CONTRAC
, Υ. Υ. ΡΑΥ ΙΤΕΜ) (TYP.)	EREQUENCY OF OVERTOPPING FLOOD	- 500+ YEAR	LENGTH SHALL BI
L'AND AND AND AND AND AND AND AND AND AND	OVERTORRING ELOOD ELEVATION	- 194 2	THE EXISTING S
	OVERTOPPING OCCURS AT THE FALSE CU	T TNTERFACE	LONG ALONG CEN
X	AT THE GRADE SEPERATION OF -L- AND	-Y7- AND	AT THE CONTRAC
DODS	FLOWS LINE AHEAD ALONG -L- IN DIICH	ILINE (LI)	FOR A PRECAST PLANS THE DEST
	-		DESIGN. FOR OPT
			FOR CULVERT DI
			A 3 FOOT STRIP Entire lenght
			FOR SUBMITTAL
			FOR FALSEWORK
			FOR CRANE SAFE
			FOR GROUT FOR

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		SI	ZE	LENGTH	-
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JND		#	4	7′-4	"
		#	5	8′-6	//
		#	6	9′-8	//
		#	7	10'-	10″
		#	8	12'-	0″
		#	9	13'-	2″
		#	10	14'-	6″
		#	11	15'-	10″
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	OF MA		ζ <u>Γ</u>	AL	
ΙT	STAGE	Ι	S	TAGE	ΙI
	197.8			373.5	
				2.1	
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	26454			37727	7
	828			829	
	27282			38556	)
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_	155			130	
TO	TAL	28	35		
UCTL	JRE LUMP	SUN	Λ		
	LUMP	SUN	Λ		

LUMP SUM

SAMPLE BAR

REPLACMENT

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

## HEREBY CERTIFY THESE PLANS ARE THE AS-BUILT PLANS

DOCUMENT NOT CONSIE A CORRECTED STAGE I CONCRETE QUANITY FROM 290.8 TO 209.8 UNLESS ALL SIGNATURE F.A. PROJECT NO. HISP-0070(163)

MED LIVE LOAD -----HL-93 OR ALTERNATE LOADING. GN FILL TO BOTTOM OF TOP SLAB, 28.85' (MIN.) AND 30.12' (MAX.) OTHER DESIGN DATA AND NOTES SEE STANDARD NOTE SHEET. WEEP HOLES INDICATED TO BE IN ACCORDANCE WITH THE SPECIFICATIONS. RETE IN THE CULVERT TO BE POURED IN THE FOLLOWING ORDER:

NG FOOTINGS AND FLOOR SLAB INCLUDING 4" OF VERTICAL WALLS. REMAINING PORTIONS OF THE WALLS AND WINGS FULL HEIGHT.

VARIOUS PAY ITEMS.

TO VARIOUS PAY ITEMS.

FOR ASBESTOS ASSESSMENT FOR

NG FOOTINGS AND FLOOR SLAB INCLUDING 4" OF VERTICAL WALL. REMAINING PORTIONS OF THE WALL AND WINGS FULL HEIGHT LOWED BY THE ENTIRE ROOF SLAB AND HEADWALLS. RESIDENT ENGINEER SHALL CHECK THE LENGTH OF CULVERT BEFORE ING IT OUT TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE

NSIONS FOR WING LAYOUT AS WELL AS ADDITIONAL REINFORCING STEEL EMBEDDED IN BARREL ARE SHOWN

SVERSE CONSTRUCTION JOINTS SHALL BE USED IN THE BARREL. SPACED TO LIMIT THE POURS TO A MAXIMUM FT.LOCATION OF JOINTS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.

HE CONTRACTOR'S OPTION, HE MAY SPLICE THE VERTICAL REINFORCING STEEL IN THE INTERIOR FACE OF TOR WALL AND BOTH FACES OF INTERIOR WALLS ABOVE LOWER WALL CONSTRUCTION JOINT. THE SPLICE TH SHALL BE AS PROVIDED IN THE SPLICE LENGTH CHART SHOWN ON THE PLANS. EXTRA WEIGHT OF STEEL TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR.

EXISTING STRUCTURE CONSISTING OF A 10'x6' DOUBLE BARREL REINFORCED CONCRETE BOX CULVERT 74'-3" ALONG CENTERLINE OF CULVERT AND LOCATED AT PROPOSED STRUCTURE SHALL BE REMOVED. THE EXISTING ERT IS PRESENTLY NOT POSTED FOR LOAD LIMIT.

HE CONTRACTOR'S OPTION HE MAY SUBMIT, TO THE ENGINEER FOR APPROVAL, DESIGN AND DETAIL DRAWINGS PRECAST REINFORCED CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE CULVERT SHOWN ON THE THE DESIGN SHALL PROVIDE THE SAME SIZE AND NUMBER OF BARRELS AS USED ON THE CAST-IN-PLACE GN.FOR OPTIONAL PRECAST REINFORCED CONCRETE BOX CULVERT, SEE SPECIAL PROVISIONS.

CULVERT DIVERSIONS DETAILS AND PAY ITEM, SEE EROSION CONTROL PLANS.

FOOT STRIP OF FILTER FABRIC SHALL BE ATTACHED TO THE FILL FACE OF THE WING COVERING THE RE LENGHT OF EXPANSION JOINT.

SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

CRANE SAFETY, SEE SPECIAL PROVISIONS.

GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

NATIVE MATERIAL BETWEEN SILLS IN THE CULVERT SHALL PROVIDE A CONTINUOUS LOW FLOW CHANNEL. NATIVE MATERIAL CONSISTS OF MATERIAL THAT IS EXCAVATED FROM THE STREAM OR FLOODPLAIN AT THE PROJECT SITE DURING CONSTRUTION. ONLY MATERIAL THAT IS EXCAVATED FROM THE STREAM BED MAY BE USED TO LINE THE LOW FLOW CULVERT BARREL TO A DEPTH OF 1 FOOT. CLASS B RIP RAP MAY BE USED TO SUPPLEMENT THE NATIVE MATERIAL IN THE HIGH FLOW CULVERT BARREL. IF RIP RAP IS USED TO LINE THE HIGH FLOW CULVERT BARREL NATIVE MATERIAL SHOULD BE PLACED ON TOP TO FILL VOIDS AND PROVIDE A FLAT SURFACE FOR ANIMAL PASSAGE. NATIVE MATERIAL IS SUBJECT TO APPROVAL BY THE ENGINEER AND MAY BE SUBJECT TO PERMIT CONDITIONS. COST OF BACKFILLING THE CULVERT SHALL BE INCLUDED IN THE

ENGINEER OF RECORD:

2/25/202

THE CONTRACTOR SHALL PROVIDE INDEPENDENT ASSURANCE SAMPLES OF REINFORCING STEEL AS FOLLOWS: FOR PROJECTS REQUIRING UP TO 400 TONS OF REINFORCING STEEL, ONE 30 INCH SAMPLE OF EACH SIZE BAR USED, AND FOR PROJECTS REQUIRING OVER 400 TONS OF REINFORCING STEEL. TWO 30 INCH SAMPLES OF EACH SIZE BAR USED. THE SAMPLE BARS SHOULD COME FROM STEEL ACTUALLY USED IN THE PROJECT AND THE SAMPLE BARS SHOULD BE REPLACED BY SPLICED BARS AS SPECIFIED IN THE SAMPLE BAR REPLACEMENT CHART. PAYMENT FOR THE SAMPLE BARS AND REPLACEMENT REINFORCING STEEL SHALL BE BE CONSIDERED INCIDENTAL

FOR	ASBESTOS /	ASSESSMENT F	OR BRIDGE	DEMOLITION
AND	RENOVATIO	N ACTIVITES,	SEE SPECI	AL PROVISIONS.

PROJECT	NO	W	1-56	500
JOF	HNSTO	)N		COUNTY
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STATION: <u>28+84.00 -17-</u>

SHEFT 1 OF 8 REPLACES STRUCTURE NO. 514

STATE OF NORTH CAROLINA John Arthur Dilworth DEPARTMENT OF TRANSPORTATION TH CARO RALEIGH COFESSION 4 DOUBLE 10 FT.X 7 FT. SEAL 22072 CONCRETE BOX CULVERT ANGINEER W 106° SKEW

	ETHERILL							
	ENGINEERING			REVI	SION	IS		SHEET NO.
	1223 Jones Franklin Rd.	NO.	BY:	DATE:	NO.	BY:	DATE:	C3-1
ERED FINAL	Raieign, N.C. 27606 Bus: 919 851 8077	1	JCP	2-25-21	3			TOTAL SHEETS
S COMPLETED	LICENSE NO. F-0377	2			4			8