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COMPUTED BY: BRJ DATE: 2018-06-28
CHECKED BY: GM DATE: 2018-06-28

PROJECT REFERENCE NO.	SHEET NO.
U-5840	3B-1

STV 100 Years
STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK
IN CUBIC YARDS

SURVEY LINE	FROM STATION	TO STATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
PHASE II							
–L– (RT)	10+70.00	23+00.00	310		838	528	
–Y7– (LT)	15+40.00	20+00.00	81		36		45
SUBTOTAL			391		874	528	45
PHASE IV							
–L– (LT)	12+00.00	40+00.00	995		1,868	873	
–L– (LT)	40+00.00	55+94.70	344		2,294	1,950	
–L– (LT)	56+04.70	58+40.00	25		522	497	
–L– (LT)	59+30.00	65+00.00	55		48		7
–Y7– (RT)	15+40.00	20+00.00	38		357	319	
SUBTOTAL			1,457		5,089	3,639	7
PHASE VI							
–L– (RT)	23+00.00	35+00.00	135		1,067	932	
–L– (RT)	35+00.00	55+94.70	310		2,321	2,011	
–L– (RT)	56+04.70	58+20.00	52		199	147	
–L– (RT)	60+35.00	65+00.00	48		38		10
–Y7– (LT & RT)	20+00.00	20+50.00			76	76	
SUBTOTAL			545		3,701	3,166	10
PHASE VIII							
–Y7– (LT)	20+50.00	22+12.37	98		55		43
–Y7– (LT)	22+22.01	24+85.00	35		503	468	
–Y7– (RT)	20+50.00	22+12.37	4		435	431	
–Y7– (RT)	22+22.01	24+85.00	550		151		399
SUBTOTAL			687		1,144	899	442
TOTAL			3,080		10,808	8,232	504
MATERIAL FOR SHOULDER CONSTRUCTION					219	219	
WASTE IN LIEU OF BORROW						–504	–504
PROJECT TOTAL			3,080		11,027	7,947	
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT						397	
GRAND TOTAL			3,080		11,027	8,344	
SAY			3,500			8,500	

EST DDE SAY 60 CY

NOTE: Earthwork quantities are calculated by the Engineer. These earthwork quantities are based in part on subsurface data provided by the Engineer.

Approximate quantities only. Unclassified Excavation, Fine Grading, Clearing and Grubbing, Borrow Excavation, and Removal of Existing Pavement will be paid for at the contract lump sum price for "Grading."

BLACK VINYL CHAIN LINK FENCE SUMMARY

SURVEY LINE	STATION	STATION	LENGTH (LF)
–W2–	10+00.00	11+56.50	160
–W3–	10+00.00	12+19.00	220
–W4–	10+00.00	11+27.67	128
		TOTAL:	508
		SAY:	510

PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
–L–	12+94	19+49	LT	492
–Y7–	16+72	18+36	RT	65
–Y7–	20+58	21+35	RT	178
			TOTAL:	735
			SAY:	740

* W MEASURED FROM "N" AT THE BEGINNING OF THE ANCHOR TO "N" AT THE END OF THE ANCHOR.
"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.
TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.
W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.
G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH (LF) STRAIGHT	LENGTH (LF) SHOP CURVED	LENGTH (LF) DOUBLE FACED	WARRANT POINT APPROACH END	WARRANT POINT TRAILING END	"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH APPROACH END	FLARE LENGTH TRAILING END	W* APPROACH END	W* TRAILING END	ANCHORS XI MOD	ANCHORS B-77	ANCHORS GREU TL-3	ANCHORS M-350	ANCHORS TYPE III	ANCHORS CAT-1	ANCHORS VI MOD	ANCHORS BIC	ANCHORS AT-1	IMPACT ATTENUATOR TYPE 350 EA G NG	SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
–L–	54+93.00	55+93.00	RT																							100′		
–L–	56+11.00	57+11.00	LT																							100′		
–Y7–	21+59.40	23+70.42	RT	193.75	25.00		22+09.87	22+19.50	8.00	11.00		50.0′		1.0′			1						1			175′		
–Y7–	21+95.92	23+69.43	LT	156.25	25.00		22+19.50	22+09.87	8.00	11.00	50.0′		1.0′				1						1					
			TOTAL:	350.00	50.00												2						2					
	LESS ANCHOR DEDUCTIONS																											
	GREU TL-3	2 @ 50′	=	100.00																								
	AT-1	2 @ 6.25′	=	12.50																								
			TOTAL DEDUCTIONS:	112.50																								
			TOTAL GUARDRAIL LENGTH:	237.50	50.00																							
			SAY:	237.50	50.00		EST ADDITIONAL GUARDRAIL POSTS = 5																			375′		

TOTAL REMOVAL OF EXISTING GUARDRAIL:

7/4/2018
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ORIGINAL