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8/17/99

COMPUTED BY: BCP	DATE: 2/21/19
CHECKED BY: ACJ	DATE: 2/21/19

PROJECT REFERENCE NO.	SHEET NO.
B–6020	3B–1
POLK COUNTY	CULVERT #740144

Plans Prepared By:
AMERICAN Engineering
8008 CORPORATE CENTER DRIVE, SUITE 110
CHARLOTTE, NORTH CAROLINA 28226
NC Lic. No. C-3881

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SUMMARY OF EARTHWORK
(in Cubic Yards)

STATION	STATION	UNCL. EXCAV.	EMBANK.	BORROW	WASTE
PHASE 1					
–L– STA. 11+57	–L– STA. 14+83	268	300	60	0
PROJECT TOTALS:		268	398	130	0
LOSS DUE TO CLEARING AND GRUBBING		– 100		100	
ESTIMATE 5% FOR TOPSOIL ON BORROW PITS				11	
GRAND TOTALS:		168	398	241	0
SAY:		170		250	

EST UNDERCUT = 50 CY
EST SELECT GRANULAR MATERIAL = 50 CY

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

PARCEL INDEX SHEET

PARCEL NO.	SHEET NO.	PROPERTY OWNER NAMES
70	4	DELL SEVEN, INC., A NORTH CAROLINA CORPORATION
71	4	MALCOLM JOEL GATES AND WENDY SUE MCCOY
72	4	ULYSS DONALD STEPP AND WIFE, NANCY STEPP
73	4	JAMES C. BRADSHAW, MARK W. KERHULAS, EVERETTE F. PALMER & EDWARD W. JACKSON

"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			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH		W		ANCHORS								IMPACT ATTENUATOR TYPE 350			SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	GREU TYPE–III	B–77	GREU TL–2	GREU TL–3	CAT–1	AT–1	TYPE III SC	B–77 SC	EA	G	NG				
–L–	12+08	13+34	RT.	126′					3′	6′							2												
–L–	12+87	13+75	LT.	75.5′	12.5′				3′	6′							1			1									
			SUBTOTALS	201.5′	12.5′										DEDUCTIONS FOR GUARDRAIL END UNITS														
			DEDUCTION	131.25′											TYPE AT–1		1 @ 6.25′		6.25′										
			TOTAL	70.25′	12.5′										GREU TYPE TL–2		3 @ 25.00′		75′										
			SAY	75′	12.5′													TOTAL =	81.25′										

DEDUCTIONS FOR 25′–0″ CLEAR SPAN GUARDRAIL PLACEMENT = 50′