

SUMMARY OF EARTHWORK
 IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
-L- 14+00.00 TO 15+86.79 (BEGIN BRIDGE)	1	227	689	689	228
-L- 16+99.21 (END BRIDGE) TO 19+25.00	2	203	803	803	205
SUBTOTAL	3	430	1492	1492	433
ADDITIONAL UNDERCUT		370	481	481	370
SELECT GRANULAR MATERIAL IN LIEU OF BORROW			-1973	-1973	
PROJECT TOTAL	3	800	0	0	803
GRAND TOTAL	3	800			803
SAY	10	800			

PAVEMENT REMOVAL SUMMARY
 IN SQUARE YARDS

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	SY
-L-	14+50	16+09 (EX. BRIDGE)	CL	332
-L-	16+69 (EX. BRIDGE)	18+75	CL	425
TOTAL:				757
SAY:				775

APPROXIMATE QUANTITIES ONLY. CLEARING AND GRUBBING, UNCLASSIFIED EXCAVATION, FINE GRADING, AND REMOVAL OF EXISTING ASPHALT PAVEMENT WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "GRADING".

NOTE: Earthwork quantities are calculated by the Roadway Design Unit. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

ESTIMATED SHALLOW UNDERCUT = 100 CY (CONTINGENCY, AS DIRECTED BY THE ENGINEER) *
 ESTIMATED SELECT GRANULAR MATERIAL = 1525 CY *

* PER THE "REVISED GEOTECHNICAL REPORT - DESIGN AND CONSTRUCTION RECOMMENDATIONS" LETTER DATED MARCH 31, 2017

SUMMARY OF MODIFIED SHOULDER BERM GUTTER
 IN LINEAR FEET

STATION TO STATION	LOCATION	LF
-L- STA. 15+58.00 to 15+75.06	LT	17.06
-L- STA. 17+10.94 to 17+28.00	LT	17.06
TOTAL		34.12
SAY		35

GUARDRAIL SUMMARY

"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

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			REMOVE EXISTING GUARDRAIL	REMARKS	
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	TYPE III	GRAU 350 (TL-3)	EA	G	NG					
-L-	15+03.78	15+86.05	LT	81.25'				15+86.05	VAR.	VAR.	50'	50'	1'	1'			1	1						
-L-	15+07.51	15+87.55	RT	81.25'			15+87.55		VAR.	VAR.	50'		1'				1							
-L-	16+99.95	17+79.01	LT	81.25'			16+99.95		VAR.	VAR.	50'		1'				1							
-L-	16+98.45	17+78.50	RT	81.25'				16+98.45	VAR.	VAR.		50'		1'			1							
				SUBTOTAL (LF)	325'									TOTAL ANCHORS (EA)										
				LESS ANCHORS (LF)	275'									ANCHOR UNIT LENGTH (LF)										
				TOTAL (LF)	50'									DEDUCTION PER TYPE (LF)										
				SAY (LF)	50'									TOTAL DEDUCTION (LF)										
										ADDITIONAL GUARDRAIL POSTS: SAY 5 EA														
																							275'	

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