SUMMARY OF EARTHWORK

STATION	STATION	UNCL. EXCAV.	UNDERCUT	EMBANK. +%	BORROW	WASTE
SUMMARY # 1						
–L– 10+50.00 BEG. PROJ.	–L– 32+76.80 END PROJ.	7199	1009	3778		4431
–Y3– 10+50.00	–Y3– 12+28.34	241		145		96
SUMMARY # 1 SUBTOTALS:		7440	1009	3923		4527
SUMMARY # 2						
–Y1– 10+30.20 LT	–Y1– 29+00.00 LT	712		548		165
–Y1– 10+30.20 RT	–Y1– 29+00.00 RT	301		1253	952	
SUMMARY # 2 SUBTOTALS:		1013		1800	952	165
SUMMARY # 3						
–Y2– 10+50.00	–Y2– 20+95.70	2237		280		1957
SUMMARY # 3 SUBTOTALS:		2237		280		1957
PROJECT SUB–TOTALS:		10690	1009	6003	952	6648
LOSS DUE TO CLEARING AND GRUBBING		–500				–500
WASTE IN LIEU OF BORROW					–952	–952
SELECT MATERIAL IN LIEU OF EMBANKMENT				–2500		2500
ADJUST UNDERCUT			500			500
PROJECT TOTALS:		10190	1509	3503	0	8196
SAY:		11,000	1550			

EST. DDE= 120 CY SHOULDER BORROW = 1,700 CY

Note: Approximate quantities only. Unclassified 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."

ASPHALT PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD²
–Y1–	20+89	21+73	RT	492
–Y1–	24+28	24+69	RT	47
–Y2–	16+24	16+50	LT	142
–L–	16+50	29+50	LT	443
			TOTAL:	1144
			SAY:	1,200

BREAKING OF EXISTING ASPHALT PAVEMENT SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD²
–L–	28+80	30+59	LT	201
–Y3–	10+84	11+85	RT	160
			TOTAL:	361
			SAY:	400

SUMMARY OF EXPRESSWAY GUTTER

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	LF
–Y1–	10+72	14+67	RT	201
–Y1–	24+60	25+68	LT	108
			TOTAL:	503
			SAY:	510

SUMMARY OF 2'–6" CURB & GUTTER

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	LF
–Y2–	17+44.51	19+14.57	RT	170.1
			TOTAL:	170.1
			SAY:	180

SUMMARY OF FENCE RESET

SURVEY LINE	STATION	STATION	LOCATION (LT/CL/RT)	TYPE	LF
-L-	23+03.23	23+61.59	LT	WOOD	58
-L-	29+07.00		RT	WOOD	12
-L-	30+93.00	31+60.00	LT	WOOD	70
-L-	31+75.00	32+39.00	RT	WOOD	81
-Y1-	12+31.87	12+84.61	RT	WOOD	71
-Y1-	15+53.13		LT	WOOD	27
-Y1-	16+61.06		LT	WOOD	30
				TOTAL LF	349
				SAY	350

SUMMARY OF SUBSURFACE DRAINAGE

SURVEY LINE	STATION	STATION	LOCATION (LT/CL/RT)	DRAIN TYPE* UD/BD/SD	LF
-L-	11+00	16+50	LT	UD	550
-L-	11+00	16+50	RT	UD	550
			CONTINGENCY	UD	250
				TOTAL LF	1350
				SAY	1350

✱ UD - UNDERDRAIN
✱ BD - BLIND DRAIN
✱ SD - SUBSURFACE DRAIN

Note: From GEOTECHNICAL LETTER 8/27/13

SUMMARY OF GEOTEXTILE FOR SOIL STABILIZATION

SURVEY LINE	STATION	STATION	LOCATION (LT/CL/RT)	SY
-L-	12+50	15+00	LT	1000
-L-	12+50	15+00	RT	1000
			EROSION CONTROL	600
			CONTINGENCY	500
			TOTAL SY	3100
			SAY	3100

Note: From GEOTECHNICAL LETTER 8/27/13

"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	XI MOD	XI	GRAU 350	M–350	XIII	CAT–1	VI MOD	BIC	AT–1	EA	G	NG				
–Y1–	11+77.47	12+96.22	RIGHT	118.75			12+49.87	12+91.46	4	0	50		1				1			1										
SUBTOTAL				118.75																										
	LESS ANCHORS	CAT–1	1 @ 6.25	–6.25													1			1										
		GRAU–350	1 @ 50.00	–50.00																										
	ADDITIONAL GUARDRAIL POST = 5 EA																													
TOTAL				62.50													1			1										
SAY				62.50													1			1										