SUMMARY OF EARTHWORK
[IN CUBIC YARDS]

STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
–R– 10+00	14+58.66	27	1,872	1,845	—
–Y1– 13+00	14+50	38	192	154	—
–Y2– 11+50	13+00	17	202	185	—
SUBTOTALS:		82	2,267	2,185	—
–Y3– 10+00	11+00	11	29	18	—
–Y4– 10+00	13+00	5	313	308	—
–Y5– 10+00	13+00	12	665	653	—
SUBTOTALS:		28	1,006	978	—
COMBINED TOTAL:		110	3,273	3,163	—
MATERIAL FOR SHOULDER CONSTRUCTION			276	276	
LOSS DUE TO CLEARING & GRUBBING		– 3		3	
PROJECT TOTALS:		107	3,549	3,442	—
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				172	
GRAND TOTAL:		107	3,549	3,614	—
SAY:		**110**		**3,700**	
ESTIMATED DRAINAGE DITCH EXCAVATION		150 CY			

Earthwork quantities are calculated by the Divsion Design Construct Unit.

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

SUMMARY OF EXISTING ASPHALT PAVEMENT REMOVAL
[IN CUBIC YARDS]

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD^2
—	–Y2– 11+53 LT	–Y1– 14+18 RT	—	104.07
–Y4–	11+45	11+97	LT	2.78
–Y4–	11+97	13+00	LT	10.68
–LOOP–	10+71	11+40	RT	446.34
			TOTAL:	563.87
			SAY:	570

"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				
–Y2– /–Y1–	–Y2– 11+50.00 LT	–Y1– 13+60.00 RT	LT & RT	350			–Y1– 14+10.00 RT	–Y2– 11+50.00 LT	6	9	50		1				1												TIE TO EXISTING GUARDRAIL ON TRAILING END; REMOVE &
																													REPLACE EXISTING GUARDRAIL [–Y2– 11+50 LT TO –Y1– 13+60 RT]
	LESS INCLUDED ANCHOR DEDUCTIONS:																										75		REMOVE EXISTING GUARDRAIL –Y3– 10+40 LT
	GRAU–350 TL–3	1 @ 50.0'	=	– 50																							100		REMOVE EXISTING GUARDRAIL –Y3– 10+10 RT
PROJECT SUBTOTAL:				300	N/A	N/A					PROJECT TOTAL NEW ANCHOR UNITS REQUIRED:						1										175		
ADDITIONAL GUARDRAIL POSTS:				3																									

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