COMPUTED BY: CRG DATE: 10/22/18
CHECKED BY: DW DATE: 7/2/21

PROJECT NO.	SHEET NO.
U-4906	3B-1

SUMMARY OF EARTHWORK IN CUBIC YARDS

Station	Station	Uncl. Excav.	Undercut	Embank. +%	Borrow	Waste
-L- 30+50.00	-L- 60+00.00	619	0	586	0	33
-L- 60+00.00	-L- 90+00.00	646		500	0	146
-L- 90+00.00	-L- 120+00.00	1,730		3,846	2,116	0
-L- 120+00.00	-L- 150+00.00	1,629		691	0	938
-L- 150+00.00	-L- 180+00.00	3,962		1,070	0	2,892
-L- 180+00.00	-L- 210+00.00	666		548	0	119
-L- 210+00.00	-L- 240+00.00	748		593	0	156
-L- 240+00.00	-L- 270+00.00	567		956	389	0
-L- 270+00.00	-L- 280+00.00	375		311	0	64
	SUBTOTAL	10,942	0	9,101	2,506	4,346
-L1- 14+00.00	-L1- 23+25.00	2,535		524	0	2,011
	SUBTOTAL	2,535	0	524	0	2,011
-L1- 44+65.00	-L1- 46+70.00	11		39	28	
	SUBTOTAL	11	0	39	28	0
-L1- 61+25.00	-L1- 71+40.00	782		290	0	492
	SUBTOTAL	782	0	290	0	492
-Y1- 12+25.00	-Y1- 16+75.30	324		3,104	2,780	0
	SUBTOTAL	324	0	3,104	2,780	0
-Y2_REV- 12+00.00	-Y2_REV- 20+31.25	1,128		3,354	2,226	0
	SUBTOTAL	1,128	0	3,354	2,226	0
-Y4- 10+00.00	*-Y4-18+00.00	218		948	729	0
	SUBTOTAL	218	0	948	729	0
-Y5- 11+50.00	-Y5-12+50.00	94		0	0	94
	SUBTOTAL	94	0	0	0	94
TOTAL		16,034	0	17,358	8,268	6,944
EST. SHOULDER MATERIAL				6,875	6,875	
WASTE IN LIEU OF BORROW:					-5,909	-5,909
PROJECT TOTALS:		16,034	0	24,233	9,234	1,035
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT					462	
GRAND TOTALS:		16,034	0	24,233	9,696	1,035
SAY:		16,440			9,940	

PAVEMENT REMOVAL & BREAKING EXISTING PAVEMENT SUMMARY IN SQUARE YARDS

SURVEY LINE	Station	Station	LOCATION LT/RT/CL	ASPHALT REMOVAL	ASPHALT BREAKUP	CONCRETE REMOVAL	CONCRETE BREAKUP
L	159+60	160+61	RT				
	159+60	160+95	LT		292.25		
	159+66	160+47	RT		42.96		
	116+98	117+55	LT		72.95		
Y1	15+53	16+71	LT	402.36			
Y2_REV	12+85	13+57	LT		90.86		
	13+73	14+19	LT		162.55		
	17+02	17+59	LT	648.74			
	17+74	17+86	LT		9.85		
	17+79	18+21	LT	124.78			
	17+83	17+93	LT		11.11		
	17+92	18+32	LT				
	18+04	18+39	LT		64.08		
	18+47	18+86	LT		29.54		
		TOTAL:		1,175.88	776.15		
		SAY:		**1,210**	**800**		

UNDERCUT CONTINGENCY FOR EMBANKMENT STABILITY:	600 Yd^3
UNDERCUT CONTINGENCY FOR SUBGRADE STABILITY:	1000 Yd^3
*** TOTAL UNDERCUT EXCAVATION:**	**1600 Yd^3**
EST.SHALLOW UNDERCUT BY STATIONS:	500 Yd^3
EST. SHALLOW UNDERCUT CONTINGENCY:	500 Yd^3
TOTAL SHALLOW UNDERCUT:	**1000 Yd^3**

SELECT GRANULAR MATERIAL - BACKFILL CONTINGENT UNDERCUT **1600 Yd^3**

* PER GEOTECH RECOMMENDATION, ESTIMATED 1,600 CUBIC YARDS OF UNDERCUT TO BE USED IN THE DISCRETION OF THE RESIDENT ENGINEER.

DRAINAGE DITCH EXCAVATION = 830 CUBIC YARDS
-L- PAVEMENT STRUCTURE VOLUME = 9.532 CY
-L1- PAVEMENT STRUCTURE VOLUME = 1,818 CY

Note: These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

Approximate quantities only. Unclassified excavation, borrow excavation, fine grading, clearing and grubbing, breaking of existing pavement and removal of existing pavement will be paid for at the lump sum price for "Grading".