

GRADING SHEETS

PROJECT: SR-1 From Near Jefferson Pike To Near SR-266
(Sam Ridley Parkway) In Smyrna

FED. PROJ. NUMBER: HSIP-1(378)

STATE PE NUMBER: 75002-1290-94

DATE: February 14, 2025

T.D.O.T. PROJECT MANAGER : Kevin Counts, P.E.

CONSULTANT: Sain Associates

GRADING QUANTITIES SUMMARY SHEET

CALC. BY: DS
CHKD. BY: MR

DATE: 02/14/25
DATE: 02/14/25

15% SHRINKAGE FACTOR

Section	Raw Data Excavation	Raw Data Embankment	Exst Pvmt Removal	Exst Pvmt Replacement	Stripped Topsoil (Exc.)	Stripped Topsoil (Emb.)	Total Usable Excavation	Required Compacted Embankment	Borrow	Waste	Scarified Pavement Areas	Required In-Place Topsoil for Scarified Areas	Required In-Place Topsoil for Side Slopes	Available Topsoil from Stripping	Compacted Topsoil Surplus	Compacted Topsoil Deficit
S.R. 1	2,057 CY	110 CY	521 CY	0 CY	353 CY	132 CY	1,183 CY	242 CY	NA	905 CY	62 CY	15 CY	307 CY	484 CY	162 CY	N.A.
RAMP A	437 CY	1,754 CY	364 CY	0 CY	147 CY	257 CY	0 CY	2,011 CY	2,313 CY	NA	703 CY	176 CY	180 CY	404 CY	48 CY	N.A.
RAMP A1	153 CY	128 CY	8 CY	0 CY	50 CY	52 CY	94 CY	180 CY	113 CY	NA	0 CY	0 CY	29 CY	102 CY	73 CY	N.A.
RAMP B1	868 CY	0 CY	402 CY	0 CY	113 CY	0 CY	353 CY	0 CY	NA	353 CY	0 CY	0 CY	107 CY	113 CY	6 CY	N.A.
RAMP C	5,502 CY	120 CY	203 CY	0 CY	487 CY	57 CY	4,813 CY	177 CY	NA	4,609 CY	781 CY	195 CY	730 CY	543 CY	N.A.	382 CY
RAMP C1	681 CY	22 CY	30 CY	0 CY	160 CY	20 CY	491 CY	42 CY	NA	442 CY	0 CY	0 CY	138 CY	181 CY	43 CY	N.A.
RAMP D1	290 CY	1 CY	116 CY	0 CY	55 CY	1 CY	119 CY	2 CY	NA	117 CY	123 CY	31 CY	22 CY	56 CY	4 CY	N.A.
JEFFERSON PIKE	0 CY	0 CY	116 CY	0 CY	0 CY	0 CY	0 CY	0 CY	NA	NA	123 CY	31 CY	0 CY	0 CY	N.A.	31 CY
RAMP A DETOUR	313 CY	442 CY	0 CY	0 CY	12 CY	107 CY	301 CY	550 CY	331 CY	NA	167 CY	42 CY	0 CY	120 CY	78 CY	N.A.
RAMP C DETOUR	1,106 CY	112 CY	0 CY	0 CY	134 CY	59 CY	972 CY	172 CY	NA	775 CY	118 CY	30 CY	0 CY	194 CY	164 CY	N.A.
TEMP. CONST. EXITS	80 CY	0 CY	116 CY	0 CY	0 CY	0 CY	0 CY	0 CY	NA	NA	0 CY	31 CY	0 CY	0 CY	N.A.	31 CY
ROCK	100 CY	0 CY	0 CY	0 CY	0 CY	0 CY	100 CY	0 CY	NA	100 CY	0 CY	0 CY	0 CY	0 CY	0 CY	0 CY
	11,587 CY	2,691 CY	1,875 CY	0 CY	1,512 CY	686 CY	8,426 CY	3,376 CY	2,757 CY	7,300 CY	2,077 CY	550 CY	1,513 CY	2,197 CY	578 CY	443 CY

GRADING QUANTITIES SHEET

PROJECT #: **200319** PROJECT DESCRIPTION: **SR-1 Earthwork**
 CALC. BY: **DS** DATE: **11/20/2024** CHKD BY: **MR** DATE: **11/20/2024**
 SHRINKAGE FACTOR = **0.15**

STATION	DIST	CUT				FILL			
		ENDAREA	SUM OF ENDAREAS	VOLUME (CY)	CUMULATIVE TOTAL	ENDAREA	SUM OF ENDAREAS	VOLUME (CY)	CUMULATIVE TOTAL
103+50.00		0				0			
	50		0	0.0	0		0	0.0	0
104+00.00		0				0			
	50		0	0.0	0		0	0.0	0
104+50.00		0				0			
	50		0	0.0	0		0	0.0	0
105+00.00		0				0			
	50		0	0.0	0		0	0.0	0
105+50.00		0				0			
	50		0	0.0	0		0	0.0	0
106+00.00		0				0			
	50		0	0.0	0		0	0.0	0
106+50.00		0				0			
	50		0	0.0	0		0	0.0	0
107+00.00		0				0			
	50		36	33.8	34		0	0.0	0
107+50.00		36.492				0			
	50		65	60.5	94		0	0.0	0
108+00.00		28.882				0			
	50		55	51.4	146		0	0.2	0
108+50.00		26.611				0.228			
	50		53	48.9	195		1	1.0	1
109+00.00		26.158				0.802			
	50		47	43.8	238		2	1.4	3
109+50.00		21.096				0.761			
	50		40	37.1	275		3	3.0	6
110+00.00		18.934				2.431			
	50		37	34.5	310		5	4.2	10
110+50.00		18.321				2.103			
	50		18	17.0	327		2	1.9	12
111+00.00		0				0			
	50		0	0.0	327		0	0.0	12
111+50.00		0				0			
	50		0	0.0	327		0	0.0	12
112+00.00		0				0			
	50		0	0.0	327		0	0.0	12

GRADING QUANTITIES SHEET

 PROJECT #: **200319** PROJECT DESCRIPTION: **SR-1 Earthwork**

 CALC. BY: **DS** DATE: **11/20/2024** CHKD BY: **MR** DATE: **11/20/2024**

 SHRINKAGE FACTOR = **0.15**

STATION	DIST	CUT				FILL			
		ENDAREA	SUM OF ENDAREAS	VOLUME (CY)	CUMULATIVE TOTAL	ENDAREA	SUM OF ENDAREAS	VOLUME (CY)	CUMULATIVE TOTAL
112+50.00		0				0			
	50		0	0.0	327		0	0.0	12
113+00.00		0				0			
	50		0	0.0	327		0	0.0	12
113+50.00		0				0			
	50		0	0.0	327		0	0.0	12
114+00.00		0				0			
	50		44	40.9	368		0	0.0	12
114+50.00		44.176				0			
	50		88	81.0	449		0	0.0	12
115+00.00		43.355				0.001			
	50		94	87.0	536		0	0.0	12
115+50.00		50.556				0.001			
	50		126	116.4	652		0	0.0	12
116+00.00		75.182				0			
	50		183	169.6	822		0	0.0	12
116+50.00		107.955				0			
	50		249	230.6	1052		0	0.0	12
117+00.00		141.128				0.001			
	50		331	306.6	1359		0	0.0	12
117+50.00		190.048				0			
	50		223	206.7	1566		0	0.0	12
118+00.00		33.138				0			
	50		63	58.1	1624		4	3.3	15
118+50.00		29.578				3.594			
	50		58	53.7	1677		12	11.0	26
119+00.00		28.404				8.278			
	50		55	51.0	1728		19	17.2	43
119+50.00		26.695				10.324			
	50		54	49.8	1778		19	17.4	61
120+00.00		27.049				8.419			
	50		55	50.8	1829		14	13.1	74
120+50.00		27.774				5.762			
	50		56	51.9	1881		20	18.3	92
121+00.00		28.303				13.969			
	50		58	53.3	1934		17	15.7	108
121+50.00		29.243				2.97			
	50		81	75.1	2009		3	2.8	110
122+00.00		51.869				0			
	50		52	48.0	2057		0	0.0	110
122+50.00		0				0			
	50		0	0.0	2057		0	0.0	110
123+00.00		0				0			
	50		0	0.0	2057		0	0.0	110
123+50.00		0				0			
	50		0	0.0	2057		0	0.0	110
124+00.00		0				0			
	50		0	0.0	2057		0	0.0	110
124+50.00		0				0			

GRADING QUANTITIES SHEET

PROJECT #: 200319 PROJECT DESCRIPTION: SR-1 Earthwork

CALC. BY: DS DATE: 11/20/2024 CHKD BY: MR DATE: 11/20/2024

SHRINKAGE FACTOR = 0.15

STATION	DIST	CUT				FILL			
		ENDAREA	SUM OF ENDAREAS	VOLUME (CY)	CUMULATIVE TOTAL	ENDAREA	SUM OF ENDAREAS	VOLUME (CY)	CUMULATIVE TOTAL
125+00.00	50		0	0.0	2057		0	0.0	110
		0				0			
125+50.00	50		0	0.0	2057		0	0.0	110
		0				0			
126+00.00	50		0	0.0	2057		0	0.0	110
		0				0			
126+50.00	50		0	0.0	2057		0	0.0	110
		0				0			
127+00.00	50		0	0.0	2057		0	0.0	110
		0				0			
127+50.00	50		0	0.0	2057		0	0.0	110
		0				0			
128+00.00	50		0	0.0	2057		0	0.0	110
		0				0			
128+50.00	50		0	0.0	2057		0	0.0	110
		0				0			
129+00.00	50		0	0.0	2057		0	0.0	110
		0				0			
129+50.00	50		0	0.0	2057		0	0.0	110
		0				0			
130+00.00	50		0	0.0	2057		0	0.0	110
		0				0			
130+50.00	50		0	0.0	2057		0	0.0	110
		0				0			
131+00.00	50		0	0.0	2057		0	0.0	110
		0				0			
131+50.00	50		0	0.0	2057		0	0.0	110
		0				0			
132+00.00	50		0	0.0	2057		0	0.0	110
		0				0			
132+50.00	50		0	0.0	2057		0	0.0	110
		0				0			
133+00.00	50		0	0.0	2057		0	0.0	110
		0				0			
133+50.00	50		0	0.0	2057		0	0.0	110
		0				0			
134+00.00	50		0	0.0	2057		0	0.0	110
		0				0			
134+50.00	50		0	0.0	2057		0	0.0	110
		0				0			
135+00.00	50		0	0.0	2057		0	0.0	110
		0				0			
	50		0	0.0	2057		0	0.0	110

GRADING QUANTITIES SHEET

PROJECT #: 200319 PROJECT DESCRIPTION: SR-1 Earthwork
CALC. BY: DS DATE: 11/20/2024 CHKD BY: MR DATE: 11/20/2024
SHRINKAGE FACTOR = 0.15

STATION	DIST	CUT				FILL			
		ENDAREA	SUM OF ENDAREAS	VOLUME (CY)	CUMULATIVE TOTAL	ENDAREA	SUM OF ENDAREAS	VOLUME (CY)	CUMULATIVE TOTAL
135+50.00		0				0			
	50		0	0.0	2057		0	0.0	110
136+00.00		0				0			
	50		0	0.0	2057		0	0.0	110
136+50.00		0				0			
	50		0	0.0	2057		0	0.0	110
137+00.00		0				0			
	50		0	0.0	2057		0	0.0	110
137+50.00		0				0			
	50		0	0.0	2057		0	0.0	110
138+00.00		0				0			
	50		0	0.0	2057		0	0.0	110
138+50.00		0				0			
	50		0	0.0	2057		0	0.0	110
139+00.00		0				0			
	50		0	0.0	2057		0	0.0	110
139+50.00		0				0			
	50		0	0.0	2057		0	0.0	110
140+00.00		0				0			
	50		0	0.0	2057		0	0.0	110
140+50.00		0				0			
	50		0	0.0	2057		0	0.0	110
141+00.00		0				0			
	50		0	0.0	2057		0	0.0	110
141+50.00		0				0			
	50		0	0.0	2057		0	0.0	110
142+00.00		0				0			
	50		0	0.0	2057		0	0.0	110
142+50.00		0				0			
	50		0	0.0	2057		0	0.0	110
143+00.00		0				0			
	50		0	0.0	2057		0	0.0	110
143+50.00		0				0			

TOTAL	2057 C.Y.	TOTAL	110 C.Y.
Total Embankment =	110		
Total Excavation =	2057		
Total Borrow =	NA		

GRADING QUANTITIES SHEET

PROJECT #: 200319 PROJECT DESCRIPTION: SR-1 Earthwork
CALC. BY: DS DATE: 11/20/2024 CHKD BY: MR DATE: 11/20/2024
SHRINKAGE FACTOR = 0.15

STATION	DIST	CUT				FILL			
		ENDAREA	SUM OF ENDAREAS	VOLUME (CY)	CUMULATIVE TOTAL	ENDAREA	SUM OF ENDAREAS	VOLUME (CY)	CUMULATIVE TOTAL

Total Waste = 1930

GRADING QUANTITIES SHEET

PROJECT #: 200319 PROJECT DESCRIPTION: RAMP A Earthwork
CALC. BY: DS DATE: 11/20/2024 CHKD BY: MR DATE: 11/20/2024
SHRINKAGE FACTOR = 0.15

STATION	DIST	CUT				FILL			
		ENDAREA	SUM OF ENDAREAS	VOLUME (CY)	CUMULATIVE TOTAL	ENDAREA	SUM OF ENDAREAS	VOLUME (CY)	CUMULATIVE TOTAL
203+50.00		0				0			
204+00.00	50	60.4	60	55.9	56	0	0	0.0	0
204+50.00	50	49.926	110	102.2	158	0	0	0.0	0
205+00.00	50	30.372	80	74.4	232	4.98	5	4.6	5
205+50.00	50	3.674	34	31.5	264	10.515	15	14.3	19
206+00.00	50	0	4	3.4	267	68.32	79	73.0	92
206+46.16	46.155	8.915	9	7.6	275	147.672	216	184.6	277
206+50.00	3.845	10.221	19	1.4	276	159.298	307	21.9	298
207+00.00	50	16.788	27	25.0	301	232.399	392	362.7	661
207+50.00	50	1.184	18	16.6	318	189.032	421	390.2	1051
208+00.00	50	6.151	7	6.8	325	126.481	316	292.1	1343
208+50.00	50	6.61	13	11.8	337	51.688	178	165.0	1508
209+00.00	50	7.106	14	12.7	349	61.064	113	104.4	1613
209+50.00	50	11.662	19	17.4	367	44.844	106	98.1	1711
210+00.00	50	11.327	23	21.3	388	0.88	46	42.3	1753
210+50.00	50	41.855	53	49.2	437	0	1	0.8	1754

TOTAL 437 C.Y. TOTAL 1754 C.Y.

Total Embankment = 1754
Total Excavation = 437
Total Borrow = 1580
Total Waste = NA

GRADING QUANTITIES SHEET

PROJECT #: 200319 PROJECT DESCRIPTION: Ramp A1 Earthwork

CALC. BY: DS DATE: 11/20/2024 CHKD BY: MR DATE: 11/20/2024
SHRINKAGE FACTOR = 0.15

STATION	DIST	CUT				FILL			
		ENDAREA	SUM OF ENDAREAS	VOLUME (CY)	CUMULATIVE TOTAL	ENDAREA	SUM OF ENDAREAS	VOLUME (CY)	CUMULATIVE TOTAL
20+00.00		0				36.714			
20+50.00	50	0	0	0.0	0	20.854	58	53.3	53
21+00.00	50		48	44.9	45		52	48.2	102
21+00.00	41.177	48.465				31.228			
21+41.18		34.656	83	63.4	108	2.23	33	25.5	127
21+41.18	8.823		72	11.7	120		4	0.6	128
21+50.00		37.085				1.454			
21+50.00	22.34		79	32.6	153		1	0.6	128
21+72.34		41.63				0			

TOTAL	153 C.Y.	TOTAL	128 C.Y.
Total Embankment =	128		
Total Excavation =	153		
Total Borrow =	NA		
Total Waste =	5		

PROJECT #: 200319 PROJECT DESCRIPTION: RAMP B1 Earthwork

CALC. BY: DS DATE: 11/20/2024 CHKD BY: MR DATE: 11/20/2024
SHRINKAGE FACTOR = 0.15

TOTAL	868 C.Y.	TOTAL	0 C.Y.
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Total Waste = 868

GRADING QUANTITIES SHEET

PROJECT #: 200319 PROJECT DESCRIPTION: RAMP C Earthwork

CALC. BY: DS DATE: 11/20/2024 CHKD BY: MR DATE: 11/20/2024
SHRINKAGE FACTOR = 0.15

STATION	DIST	CUT				FILL			
		ENDAREA	SUM OF ENDAREAS	VOLUME (CY)	CUMULATIVE TOTAL	ENDAREA	SUM OF ENDAREAS	VOLUME (CY)	CUMULATIVE TOTAL
600+00.00	50	0	57	53.1	53	0	0	0.0	0
600+50.00	50	57.352	104	96.4	150	0	0	0.0	0
601+00.00	50	46.787	90	83.1	233	0	1	1.0	1
601+50.00	50	42.973	95	87.9	321	1.098	7	6.7	8
602+00.00	50	52.003	108	99.6	420	6.098	13	12.0	20
602+50.00	50	55.558	113	104.2	524	6.85	29	27.0	47
603+00.00	50	57.01	208	192.9	717	22.264	22	20.6	67
603+50.00	50	151.293	439	406.8	1124	0	0	0.0	67
604+00.00	50	288.067	650	601.4	1726	0	0	0.0	67
604+50.00	50	361.465	724	669.9	2395	0	0	0.0	67
605+00.00	50	362.069	617	570.9	2966	0	2	2.2	69
605+50.00	50	254.522	454	420.6	3387	2.408	12	11.2	81
606+00.00	50	199.676	388	359.5	3746	9.732	24	22.3	103
606+50.00	50	188.603	350	323.8	4070	14.355	16	15.2	118
607+00.00	50	161.057	304	281.5	4352	2.104	2	2.0	120
607+50.00	50	142.998	237	219.3	4571	0.002	0	0.0	120
608+00.00	50	93.881	163	150.8	4722	0.009	0	0.0	120
608+50.00	50	68.978	135	125.1	4847	0	0	0.0	120
609+00.00	50	66.122	141	130.9	4978	0	0	0.0	120
609+50.00	50	75.213	138	127.8	5106	0	0	0.0	120
610+00.00	50	62.841	132	122.4	5228	0.005	0	0.0	120
610+50.00	50	69.369	92	85.2	5313	0	0	0.0	120
611+00.00	50	22.698	48	44.6	5358	0	0	0.0	120
611+50.00	50	25.499	62	57.8	5416	0	0	0.0	120
612+00.00	50	36.873	93	86.3	5502	0	0	0.0	120
612+50.00		56.337				0			

TOTAL 5502 C.Y. TOTAL 120 C.Y.

Total Embankment = 120
Total Excavation = 5502
Total Borrow = NA
Total Waste = 5364

GRADING QUANTITIES SHEET

PROJECT #: 200319 PROJECT DESCRIPTION: RAMP C1 Earthwork
CALC. BY: DS DATE: 11/20/2024 CHKD BY: MR DATE: 11/20/2024
SHRINKAGE FACTOR = 0.15

STATION	DIST	CUT				FILL			
		ENDAREA	SUM OF ENDAREAS	VOLUME (CY)	CUMULATIVE TOTAL	ENDAREA	SUM OF ENDAREAS	VOLUME (CY)	CUMULATIVE TOTAL
62+00.00		0				0			
	50		54	50.2	50		0	0.0	0
62+50.00		54.181				0			
	50		124	114.9	165		0	0.0	0
63+00.00		69.899				0			
	50		156	144.2	309		12	11.1	11
63+50.00		85.858				11.976			
	50		401	371.6	681		12	11.1	22
64+00.00		315.518				0			

TOTAL	681 C.Y.	TOTAL	22 C.Y.
Total Embankment =	22		
Total Excavation =	681		
Total Borrow =	NA		
Total Waste =	655		

PROJECT #: 200319 PROJECT DESCRIPTION: RAMP D Earthwork

SHRINKAGE FACTOR = 0.15

Total Embankment =	1
Total Excavation =	290
Total Borrow =	<u>NA</u>
Total Waste =	289

GRADING QUANTITIES SHEET

PROJECT #: 200319 PROJECT DESCRIPTION: Jefferson Pike Earthwork

CALC. BY: DS

DATE: 11/20/2024

CHKD BY: MR

DATE: 11/20/2024

SHRINKAGE FACTOR = 0.15

STATION	DIST	CUT				FILL			
		ENDAREA	SUM OF ENDAREAS	VOLUME (CY)	CUMULATIVE TOTAL	ENDAREA	SUM OF ENDAREAS	VOLUME (CY)	CUMULATIVE TOTAL
13+08.34	41.66	12.053	39	30.0	30	0	0	0.0	0
13+50.00		26.808				0			
14+00.00	50	58.651	85	79.1	109	0	0	0.0	0
14+50.00	50	33.147	92	85.0	194	0	0	0.0	0
15+00.00	50	20.32	53	49.5	244	0	0	0.1	0
15+12.29	12.292		20	4.6	248	0.098	0	0.0	0

TOTAL 248 C.Y.

TOTAL 0 C.Y.

Total Embankment = 0

Total Excavation = 248

Total Borrow = NA

Total Waste = 248

PAVEMENT REMOVAL QUANTITIES (INSIDE SLOPE LIMITS)

CALC. BY: DS

DATE: Nov-24

CHKD. BY: MR

DATE: Nov-24

Section	Area		Depth	Volume
S.R. 1	9,385 ft		1.5 ft	521.4 CY
RAMP A	3,986 ft		1.5 ft	221.5 CY
RAMP A1	147 ft		1.5 ft	8.2 CY
RAMP B1	7,231 ft		1.5 ft	401.7 CY
RAMP C	0 ft		1.5 ft	0.0 CY
RAMP C1	539 ft		1.5 ft	29.9 CY
RAMP D1	2,083 ft		1.5 ft	115.7 CY
JEFFERSON PIKE	0 ft		1 ft	0.0 CY

SCARIFIED AREAS (OUTSIDE SLOPE LIMITS)

CALC. BY: DS

DATE: Feb-25

CHKD. BY: MR

DATE: Feb-25

Section	Scarified Pvm. Area		Depth	Volume
S.R. 1	1,672 ft		1 ft	61.9 CY
RAMP A	18,977 ft		1 ft	702.9 CY
RAMP A1	0 ft		1 ft	0.0 CY
RAMP B1	0 ft		1 ft	0.0 CY
RAMP C	21,074 ft		1 ft	780.5 CY
RAMP C1	0 ft		1 ft	0.0 CY
RAMP D1	3,334 ft		1 ft	123.5 CY
RAMP A (DETOUR)	4,503 ft		1 ft	166.8 CY
RAMP C (DETOUR)	3,199 ft		1 ft	118.5 CY
JEFFERSON PIKE	0 ft		1 ft	0.0 CY

SR-1 LEFT TURN LANE TOPSOIL STRIPPING

PROJECT #: 200319 AREA CALCULATED: SR-1

CALC. BY: SC DATE: 11/20/2024 CHKD BY: MR DATE: 11/20/2024

STRIPPING DEPTH: 0.25 ft (0.25ft @ 100% Shrinkage = 0.50ft)

STATION	DIST	IN EXCAVATION AREAS				IN EMBANKMENT AREAS			
		WIDTH	AVERAGE WIDTH	VOLUME (FT3)	CUMULATIVE TOTAL	WIDTH	AVERAGE WIDTH	VOLUME (FT3)	CUMULATIVE TOTAL
107+16.63	33.37	0	14.08	117.4	117.4	0	0.00	0.0	0.0
107+50.00		28				0			
108+00.00	50	27	27.78	347.2	464.6	0	0.00	0.0	0.0
108+50.00	50	27	27.03	337.8	802.4	0	1.06	13.2	13.2
109+00.00	50	27	27.04	338.0	1140.4	2	2.93	36.6	49.8
109+50.00	50	27	26.08	325.9	1466.4	4	3.43	42.9	92.7
110+00.00	50	25	19.75	246.9	1713.2	3	4.72	59.0	151.7
110+50.00	50	15	7.39	92.4	1805.6	6	3.17	39.6	191.3
110+66.00	16	15	7.39	29.6	1835.2	6	3.17	12.7	203.9
		0	7.34	0.0	1835.2	0	3.04	0.0	203.9

STRIPPING UNDER EXC: 68.0 CY

STRIPPING UNDER. EMB: 65.8 CY

TOTAL TOPSOIL AVAILABLE= 133.7 CY

SR-1 ACCELERATION LANE TOPSOIL STRIPPING

PROJECT #: 200319 AREA CALCULATED: SR-1

CALC. BY: SC DATE: 11/20/2024 CHKD BY: MR DATE: 11/20/2024

STRIPPING DEPTH: 0.25 ft (0.25ft @ 100% Shrinkage = 0.50ft)

STATION	DIST	IN EXCAVATION AREAS				IN EMBANKMENT AREAS			
		WIDTH	WIDTH	VOLUME (FT3)	CUMULATIVE TOTAL	WIDTH	AVERAGE WIDTH	VOLUME (FT3)	CUMULATIVE TOTAL
114+15.00	35	0	18.53	162.1	162.1	0	0.00	0.0	0.0
114+50.00		37	37.01	462.6	624.7	0	0.00	0.0	0.0
115+00.00	50	37	39.52	494.0	1118.7	0	0.00	0.0	0.0
115+50.00	50	42	47.28	591.0	1709.7	0	0.00	0.0	0.0
116+00.00	50	52	59.95	749.4	2459.1	0	0.00	0.0	0.0
116+50.00	50	67	74.43	930.3	3389.4	0	0.00	0.0	0.0
117+00.00	50	81	40.72	509.0	3898.4	0	0.00	0.0	0.0
117+50.00	50	102	56.50	706.2	4604.6	0	0.00	0.0	0.0
118+00.00	50	32	64.26	803.3	5407.8	0	6.22	77.8	77.8
118+50.00	50	26	28.07	350.9	5758.7	12	10.45	130.6	208.4
119+00.00	50	25	24.51	306.4	6065.1	21	17.04	213.0	421.4
119+50.00	50	23	24.18	302.3	6367.3	22	20.48	256.0	677.4
120+00.00	50	24	23.49	293.6	6661.0	20	19.72	246.5	923.9
120+50.00	50	24	23.73	296.6	6957.6	18	24.02	300.3	1224.1
121+00.00	50	24	24.50	306.3	7263.8	28	22.59	282.3	1506.5
121+50.00	50	25	27.54	344.3	7608.1	27	13.99	174.9	1681.3
122+00.00	27.5	31	12.42	85.4	7693.5	0	13.69	94.1	1775.4
122+27.50		0	15.70	0.0	7693.5	0	0.00	0.0	1775.4

STRIPPING UNDER EXC: 284.9 CY STRIPPING UNDER. EMB: 65.8 CY

TOTAL TOPSOIL AVAILABLE= 350.7 CY

RAMP A TOPSOIL STRIPPING

PROJECT #: 200319 AREA CALCULATED: RAMP A
 CALC. BY: SC DATE: 11/20/2024 CHKD BY: MR DATE: 11/20/2024
 STRIPPING DEPTH: 0.25 ft (0.25ft @ 100% Shrinkage = 0.50ft)

STATION	DIST	IN EXCAVATION AREAS				IN EMBANKMENT AREAS			
		WIDTH	AVERAGE WIDTH	VOLUME (FT3)	CUMULATIVE TOTAL	WIDTH	AVERAGE WIDTH	VOLUME (FT3)	CUMULATIVE TOTAL
203+50.00		0				0			
204+00.00	50	43	21.69	271.1	271.1	0	0.00	0.0	0.0
204+50.00	50	50	46.54	581.8	852.9	0	0.00	0.0	0.0
205+00.00	50	46	47.91	598.8	1451.7	20	9.93	124.1	124.1
205+50.00	50	15	30.74	384.2	1835.9	35	27.60	344.9	469.1
206+00.00	50	0	7.68	96.0	1931.9	53	44.25	553.1	1022.1
206+50.00	50	20	9.83	122.9	2054.8	57	55.12	689.0	1711.1
207+00.00	50	11	15.13	189.1	2243.8	68	62.48	781.0	2492.1
207+50.00	50	5	7.64	95.4	2339.3	62	64.97	812.1	3304.2
208+00.00	50	11	7.60	94.9	2434.2	58	60.12	751.5	4055.7
208+50.00	50	12	11.12	138.9	2573.1	52	55.26	690.7	4746.4
209+00.00	50	11	11.49	143.6	2716.8	47	49.41	617.6	5364.0
209+50.00	50	13	12.20	152.5	2869.3	51	48.65	608.1	5972.1
210+00.00	50	16	14.33	179.1	3048.4	52	51.42	642.7	6614.8
210+50.00	50	132	73.55	919.3	3967.7	0	26.02	325.3	6940.0
			65.79	0.0	3967.7		0.00	0.0	6940.0

STRIPPING UNDER EXC: 147.0 CY

STRIPPING UNDER. EMB: 257.0 CY

TOTAL TOPSOIL AVAILABLE= 404.0 CY

RAMP A1 TOPSOIL STRIPPING

PROJECT #: 200319 AREA CALCULATED: RAMP A1

CALC. BY: SC DATE: 11/20/2024 CHKD BY: MR DATE: 11/20/2024

STRIPPING DEPTH: 0.25 ft (0.25ft @ 100% Shrinkage = 0.50ft)

STATION	DIST	IN EXCAVATION AREAS				IN EMBANKMENT AREAS			
		WIDTH	WIDTH	VOLUME (FT3)	CUMULATIVE TOTAL	WIDTH	AVERAGE WIDTH	VOLUME (FT3)	CUMULATIVE TOTAL
20+00.00	50	13	16.42	205.2	205.2	50	48.05	600.6	600.6
20+50.00		20				46			
21+00.00	50	35	27.48	343.5	548.7	36	40.79	509.9	1110.4
21+50.00		55				8			
21+72.34	22.34	30	42.59	237.9	1349.2	0	3.83	21.4	1404.3
	0		15.22	0.0	1349.2		0.00	0.0	1404.3

STRIPPING UNDER EXC: 50.0 CY STRIPPING UNDER. EMB: 52.0 CY

TOTAL TOPSOIL AVAILABLE= 102.0 CY

RAMP B1 TOPSOIL STRIPPING

PROJECT #:200319AREA CALCULATED: RAMP B1

CALC. BY: SCDATE: 10/16/2025CHKD BY: MRDATE: 10/16/2025

STRIPPING DEPTH: 0.25 ft(0.25ft @ 100% Shrinkage = 0.50ft)

STATION	DIST	IN EXCAVATION AREAS				IN EMBANKMENT AREAS			
		WIDTH	AVERAGE WIDTH	VOLUME (FT3)	CUMULATIVE TOTAL	WIDTH	AVERAGE WIDTH	VOLUME (FT3)	CUMULATIVE TOTAL
40+50.00	50	0	14.48	180.9	180.9	0	0.00	0.0	0.0
41+00.00		29				0			
41+50.00	50	59	44.03	550.3	731.3	0	0.00	0.0	0.0
42+00.00		99				0			
42+50.00	50	116	107.36	1342.0	3062.6	0	0.00	0.0	0.0
	0		57.77	0.0	3062.6		0.00	0.0	0.0

STRIPPING UNDER EXC: 113.4 CYSTRIPPING UNDER. EMB: 0.0 CY

TOTAL TOPSOIL AVAILABLE=113.4 CY

RAMP C TOPSOIL STRIPPING

PROJECT #: 200319

AREA CALCULATED: RAMP C

CALC. BY: SC
STRIPPING DEPTH:DATE: 11/20/2024
0.25 ft

CHKD BY: MR

DATE: 11/20/2024
(0.25ft @ 100% Shrinkage = 0.50ft)

STATION	DIST	IN EXCAVATION AREAS				IN EMBANKMENT AREAS			
		WIDTH	AVERAGE WIDTH	VOLUME (FT3)	CUMULATIVE TOTAL	WIDTH	AVERAGE WIDTH	VOLUME (FT3)	CUMULATIVE TOTAL
600+00.00		0				0			
600+50.00	50	50	24.95	311.9	311.9	0	0.00	0.0	0.0
601+00.00	50	49	49.39	617.4	929.3	0	0.00	0.0	0.0
601+50.00	50	52	50.55	631.9	1561.1	9	4.40	54.9	54.9
602+00.00	50	55	53.54	669.2	2230.3	13	10.77	134.6	189.5
602+50.00	50	56	55.52	693.9	2924.3	14	13.20	164.9	354.4
603+00.00	50	52	53.90	673.8	3598.0	19	16.13	201.6	556.1
603+50.00	50	91	71.50	893.7	4491.7	0	9.31	116.3	672.4
604+00.00	50	93	92.25	1153.1	5644.8	0	0.00	0.0	672.4
604+50.00	50	98	95.63	1195.3	6840.1	0	0.00	0.0	672.4
605+00.00	50	100	98.89	1236.1	8076.3	0	0.00	0.0	672.4
605+50.00	50	87	93.39	1167.4	9243.6	12	5.98	74.8	747.1
606+00.00	50	73	80.11	1001.3	10244.9	23	17.64	220.5	967.6
606+50.00	50	75	73.92	924.0	11168.9	19	20.97	262.1	1229.7
607+00.00	50	80	77.48	968.4	12137.4	15	16.56	206.9	1436.6
607+50.00	50	80	80.24	1003.0	13140.4	0	7.25	90.6	1527.3
608+00.00	50	75	77.46	968.3	14108.6	0	0.00	0.0	1527.3
608+50.00	50	72	73.11	913.9	15022.5	0	0.00	0.0	1527.3
609+00.00	50	70	70.94	886.7	15909.2	0	0.00	0.0	1527.3
609+50.00	50	70	70.16	877.0	16786.2	0	0.00	0.0	1527.3
610+00.00	50	69	69.54	869.3	17655.4	0	0.00	0.0	1527.3
610+50.00	50	68	68.64	858.0	18513.4	0	0.00	0.0	1527.3
611+00.00	50	71	69.86	873.2	19386.6	0	0.00	0.0	1527.3
611+50.00	50	85	78.44	980.4	20367.1	0	0.00	0.0	1527.3
612+00.00	50	100	92.73	1159.1	21526.1	36	17.76	222.0	1749.3
612+50.00	50	97	98.65	1233.1	22759.2	0	17.76	222.0	1971.3
			48.62	0.0	22759.2		0.00	0.0	1971.3

STRIPPING UNDER EXC: 486.7 CY

STRIPPING UNDER. EMB: 56.6 CY

TOTAL TOPSOIL AVAILABLE= 543.2 CY

RAMP C1 TOPSOIL STRIPPING

PROJECT #: 200319 AREA CALCULATED: RAMP C1

CALC. BY: SC DATE: 11/20/2024 CHKD BY: MR DATE: 11/20/2024

STRIPPING DEPTH: 0.25 ft (0.25ft @ 100% Shrinkage = 0.50ft)

STATION	DIST	IN EXCAVATION AREAS				IN EMBANKMENT AREAS			
		WIDTH	AVERAGE WIDTH	VOLUME (FT3)	CUMULATIVE TOTAL	WIDTH	AVERAGE WIDTH	VOLUME (FT3)	CUMULATIVE TOTAL
62+00.00	50	68	70.77	884.6	884.6	0	0.00	0.0	0.0
62+50.00		73				0			
63+00.00	50	89	81.03	1012.8	1897.4	0	0.00	0.0	0.0
63+50.00		86	87.32	1091.4	2988.9	44	21.92	273.9	273.9
64+00.00	50	129	107.30	1341.2	4330.1	0	21.92	273.9	547.9
	0		64.30	0.0	4330.1		0.00	0.0	547.9

STRIPPING UNDER EXC: 160.4 CY STRIPPING UNDER. EMB: 20.3 CY

TOTAL TOPSOIL AVAILABLE= 180.7 CY

RAMP D1 TOPSOIL STRIPPING

PROJECT #: 200319 AREA CALCULATED: RAMP D1

CALC. BY: SC DATE: 10/16/2025 CHKD BY: MR DATE: 10/16/2025

STRIPPING DEPTH: 0.25 ft (0.25ft @ 100% Shrinkage = 0.50ft)

STATION	DIST	IN EXCAVATION AREAS				IN EMBANKMENT AREAS			
		WIDTH	AVERAGE WIDTH	VOLUME (FT3)	CUMULATIVE TOTAL	WIDTH	AVERAGE WIDTH	VOLUME (FT3)	CUMULATIVE TOTAL
91+50.00	50	0	14.93	186.6	186.6	0	1.40	17.4	17.4
92+00.00		30				3			
92+50.00	50	29	29.67	370.9	557.5	0	1.40	17.4	34.9
93+00.00	50	29	30.57	382.1	939.6	0	0.00	0.0	34.9
93+50.00	50	32	43.53	544.1	1483.6	0	0.00	0.0	34.9
93+50.00		55				0			
			27.70	0.0	1483.6		0.00	0.0	34.9

STRIPPING UNDER EXC: 54.9 CY STRIPPING UNDER. EMB: 1.3 CY

TOTAL TOPSOIL AVAILABLE= 56.2 CY

JEFFERSON PIKE TOPSOIL STRIPPING

PROJECT #: 200319 AREA CALCULATED: Jefferson Pike
CALC. BY: SC DATE: 10/15/2025 CHKD BY: MR DATE: 10/15/2025
STRIPPING DEPTH: 0.25 ft (0.25ft @ 100% Shrinkage = 0.50ft)

STATION	DIST	IN EXCAVATION AREAS				IN EMBANKMENT AREAS			
		WIDTH	AVERAGE WIDTH	VOLUME (FT3)	CUMULATIVE TOTAL	WIDTH	AVERAGE WIDTH	VOLUME (FT3)	CUMULATIVE TOTAL
13+08.34	41.66	6	15.25	158.8	158.8	0	0.00	0.0	0.0
13+50.00		24				0			
14+00.00	50	25	24.71	308.9	467.7	0	0.00	0.0	0.0
14+50.00	50	23	23.88	298.5	766.2	0	0.00	0.0	0.0
15+00.00	50	22	22.45	280.6	1046.7	0	0.00	0.0	0.0
15+01.57	1.57	0	11.20	4.4	1051.1	0	0.00	0.0	0.0
			0.00	0.0	1051.1		0.00	0.0	0.0

STRIPPING UNDER EXC: 38.9 CY STRIPPING UNDER. EMB: 0.0 CY

TOTAL TOPSOIL AVAILABLE= 38.9 CY

RAMP A DETOUR TOPSOIL STRIPPING

PROJECT #: 200319 AREA CALCULATED: RAMP A
 CALC. BY: SC DATE: 2/14/2025 CHKD BY: MR DATE: 2/14/2025
 STRIPPING DEPTH: 0.25 ft (0.25ft @ 100% Shrinkage = 0.50ft)

STATION	DIST	IN EXCAVATION AREAS				IN EMBANKMENT AREAS			
		WIDTH	AVERAGE WIDTH	VOLUME (FT3)	CUMULATIVE TOTAL	WIDTH	AVERAGE WIDTH	VOLUME (FT3)	CUMULATIVE TOTAL
2+05.91	44.09	0	0.00	0.0	0.0	0	0.00	0.0	0.0
2+50.00		0	0.00	0.0	0.0	0	0.00	0.0	0.0
3+00.00	50	0	0.00	0.0	0.0	0	0.00	0.0	0.0
3+50.00	50	0	0.00	0.0	0.0	0	0.00	0.0	0.0
4+00.00	50	0	0.00	0.0	0.0	0	0.00	0.0	0.0
4+50.00	50	0	0.00	0.0	0.0	0	0.00	0.0	0.0
5+00.00	50	0	0.00	0.0	0.0	0	16.00	200.0	200.0
5+50.00	50	0	0.00	0.0	0.0	32	21.00	262.5	462.5
6+00.00	50	0	0.00	0.0	0.0	10	20.00	250.0	712.5
6+50.00	50	0	2.20	27.5	27.5	30	35.10	438.8	1151.3
7+00.00	50	4	4.50	56.3	83.8	40	58.60	732.5	1883.8
7+50.00	50	5	6.20	77.5	161.3	77	59.90	748.8	2632.5
8+00.00	50	8	9.90	123.8	285.0	43	21.40	267.5	2900.0
8+50.00	29.11	12	6.00	43.7	328.7	0	0.00	0.0	2900.0
8+79.11		0	0.00	0.0	328.7	0	0.00	0.0	2900.0

STRIPPING UNDER EXC: 12.2 CY

STRIPPING UNDER. EMB: 107.4 CY

TOTAL TOPSOIL AVAILABLE= 119.6 CY

RAMP C TOPSOIL STRIPPING

PROJECT #: 200319 AREA CALCULATED: RAMP C

CALC. BY: SC DATE: 11/20/2024 CHKD BY: MR DATE: 11/20/2024

STRIPPING DEPTH: 0.25 ft (0.25ft @ 100% Shrinkage = 0.50ft)

STATION	DIST	IN EXCAVATION AREAS				IN EMBANKMENT AREAS			
		WIDTH	AVERAGE WIDTH	VOLUME (FT3)	CUMULATIVE TOTAL	WIDTH	AVERAGE WIDTH	VOLUME (FT3)	CUMULATIVE TOTAL
13+16.86	33.14	22	24.50	203.0	203.0	0	0.00	0.0	0.0
13+50.00		27				0			
14+00.00	50	36	31.50	393.8	596.7	0	0.00	0.0	0.0
14+50.00	50	32	34.00	425.0	1021.7	0	0.00	0.0	0.0
15+00.00	50	32	31.75	396.9	1418.6	0	0.00	0.0	0.0
15+50.00	50	21	26.25	328.1	1746.7	26	12.75	159.4	159.4
16+00.00	50	13	17.00	212.5	1959.2	14	19.85	248.1	407.5
16+50.00	50	5	9.00	112.5	2071.7	20	17.10	213.8	621.3
17+00.00	50	7	6.00	75.0	2146.7	17	18.50	231.3	852.5
17+50.00	50	5	6.00	75.0	2221.7	19	18.00	225.0	1077.5
18+00.00	50	5	4.78	59.7	2281.4	17	18.15	226.9	1304.4
18+50.00	50	11	7.78	97.2	2378.6	0	8.65	108.1	1412.5
19+00.00	50	16	13.30	166.3	2544.9	8	4.15	51.9	1464.4
19+50.00	50	27	21.10	263.8	2808.6	7	7.65	95.6	1560.0
20+00.00	50	37	31.70	396.3	3204.9	0	3.50	43.8	1603.8
20+50.00	50	30	33.60	420.0	3624.9	0	0.00	0.0	1603.8
20+55.38	5.38	31	30.70	41.3	3666.1	0	0.00	0.0	1603.8

STRIPPING UNDER EXC: 134.3 CY STRIPPING UNDER. EMB: 59.4 CY

TOTAL TOPSOIL AVAILABLE= 193.7 CY

SR-1 LEFT TURN LANE TOP SOIL REPLACEMENT

PROJECT #: 200319 AREA CALCULATED: SR-1 Left Turn Lane

CALC. BY: CARDIN
CHKD BY: RANDALL

DATE: 20-Nov-24
DATE: 20-Nov-24

REPLACEMENT DEPTH: 0.25
SHRINKAGE FACTOR: 100%

TOPSOIL REPLACEMENT						
STATION	DIST	WIDTH (FT)	AVERAGE	VOLUME (CY)	ADJUSTED VOLUME (CY)	CUMULATIVE TOTAL
107+16.63	33.37	0.0	3.6	1.1	2.2	2.2
107+50		7.2				
	50		6.5	3.0	6.0	8.2
108+00.00	50	5.8	6.6	3.0	6.1	14.3
108+50	50	7.3	8.9	4.1	8.3	22.6
109+00.00	50	10.6	10.5	4.9	9.8	32.3
109+50	50	10.5	5.3	2.4	4.9	37.2
110+00.00	50	0.0	0.0	0.0	0.0	37.2
110+50	16	0.0	0.0	0.0	0.0	37.2
110+66.00		0.0	0.0	0.0	0.0	37.2
				19 CY	37 CY	

TOTAL REPLACEMENT: 37 CY

SR-1 ACCELERATION LANE TOP SOIL REPLACEMENT

PROJECT #: 200319 EA CALCULATED: SR-1 ACCELERATION LANE

CALC. BY: CARDIN
CHKD BY: RANDALL

DATE: 20-Nov-24
DATE: 20-Nov-24

REPLACEMENT DEPTH: 0.25
SHRINKAGE FACTOR: 100%

TOPSOIL REPLACEMENT						
STATION	DIST	WIDTH (FT)	AVERAGE	VOLUME (CY)	ADJUSTED VOLUME (CY)	CUMULATIVE TOTAL
114+15.00		0.0				
114+50	35	16.1	8.1	2.6	5.2	5.2
115+00.00	50	14.1	15.1	7.0	14.0	19.2
115+50	50	17.2	15.6	7.2	14.5	33.7
116+00.00	50	25.6	21.4	9.9	19.8	53.5
116+50	50	38.5	32.0	14.8	29.7	83.1
117+00.00	50	50.5	19.3	8.9	17.8	101.0
117+50	50	70.5	60.5	28.0	56.0	157.0
118+00.00	50	0.0	35.3	16.3	32.7	189.6
118+50	50	7.2	3.6	1.7	3.3	192.9
119+00.00	50	13.8	10.5	4.9	9.7	202.7
119+50	50	12.9	13.4	6.2	12.4	215.1
120+00.00	50	12.2	6.5	3.0	6.0	221.1
120+50	50	10.4	11.3	5.2	10.5	231.5
121+00.00	50	20.2	15.3	7.1	14.2	245.7
121+50	50	20.7	15.6	7.2	14.4	245.9
122+00.00	50	0.0	10.4	4.8	9.6	255.5
122+50	50	0.0	0.0	0.0	0.0	255.5
				135 CY	270 CY	

TOTAL REPLACEMENT: 270 CY

RAMP A TOPSOIL REPLACEMENT

PROJECT #: 200319 EA CALCULATED: RAMP A

CALC. BY: CARDIN
CHKD BY: RANDALLDATE: 20-Nov-24
DATE: 20-Nov-24REPLACEMENT DEPTH: 0.25
SHRINKAGE FACTOR: 100%

TOPSOIL REPLACEMENT						
STATION	DIST	WIDTH (FT)	AVERAGE	VOLUME (CY)	ADJUSTED VOLUME (CY)	CUMULATIVE TOTAL
203+50.00	50	0.0	0.0	0.0	0.0	0.0
204+00	50	0.0	0.0	0.0	0.0	0.0
204+50.00	50	0.0	9.1	4.2	8.5	8.5
205+00	50	18.3	12.0	5.6	11.1	19.6
205+50.00	50	5.7	4.7	2.2	4.4	23.9
206+00	50	3.7	1.9	0.9	1.7	25.7
206+50.00	50	31.0	32.1	14.8	29.7	55.4
207+00	50	33.1	29.8	13.8	27.6	83.0
207+50.00	50	26.6	27.9	12.9	25.9	108.9
208+00	50	29.3	26.7	12.4	24.8	133.6
208+50.00	50	24.2	20.6	9.5	19.1	152.7
209+00	50	17.1	8.6	4.0	7.9	160.6
209+50.00	50	23.2	16.4	7.6	15.2	175.9
210+00	50	9.7	4.8	2.2	4.5	180.3
210+50.00		0.0	0.0	0.0	0.0	180.3
				90 CY	180 CY	

TOTAL REPLACEMENT: 180 CY

RAMP A1 TOP SOIL REPLACEMENT

PROJECT #: 200319 EA CALCULATED: RAMP A1

CALC. BY: CARDIN
CHKD BY: RANDALLDATE: 20-Nov-24
DATE: 20-Nov-24REPLACEMENT DEPTH: 0.25
SHRINKAGE FACTOR: 100%

TOPSOIL REPLACEMENT						
STATION	DIST	WIDTH (FT)	AVERAGE	VOLUME (CY)	ADJUSTED VOLUME (CY)	CUMULATIVE TOTAL
20+00.00	50	20.6	13.5	6.3	12.5	12.5
20+50		6.5	8.4	3.9	7.8	20.3
21+00.00	50	10.3	7.9	3.7	7.3	27.6
21+50	22.34	5.5	2.8	0.6	1.1	28.8
21+72.34		0.0	0.0	0.0	0.0	28.8
				14 CY	29 CY	

TOTAL REPLACEMENT: 29 CY

RAMP B1 TOP SOIL REPLACEMENT

PROJECT #: 200319 EA CALCULATED: RAMP B1

CALC. BY: CARDIN
CHKD BY: RANDALLDATE: 20-Nov-24
DATE: 20-Nov-24REPLACEMENT DEPTH: 0.25
SHRINKAGE FACTOR: 100%

TOPSOIL REPLACEMENT						
STATION	DIST	WIDTH (FT)	AVERAGE	VOLUME (CY)	ADJUSTED VOLUME (CY)	CUMULATIVE TOTAL
40+50.00	50	0.0	3.4	1.6	3.1	3.1
41+00	50	6.7	20.9	9.7	19.4	22.5
41+50.00	50	35.2	49.3	22.8	45.7	68.2
42+00	50	63.5	42.4	19.6	39.3	107.4
42+50.00		21.3	10.7	0.0	0.0	107.4
				54 CY	107 CY	

TOTAL REPLACEMENT: 107 CY

RAMP C TOP SOIL REPLACEMENT

PROJECT #: 200319 EA CALCULATED: RAMP C

CALC. BY: CARDIN
CHKD BY: RANDALLDATE: 20-Nov-24
DATE: 20-Nov-24REPLACEMENT DEPTH: 0.25
SHRINKAGE FACTOR: 100%

TOPSOIL REPLACEMENT						
STATION	DIST	WIDTH (FT)	AVERAGE	VOLUME (CY)	ADJUSTED VOLUME (CY)	CUMULATIVE TOTAL
600+00		0.0				
	50		0.4	0.2	0.4	0.4
600+50		0.9				
	50		0.4	0.2	0.4	0.8
601+00		0.0				
	50		6.1	2.8	5.7	6.5
601+50		12.3				
	50		15.5	7.2	14.4	20.8
602+00		18.7				
	50		19.9	9.2	18.4	39.2
602+50		21.0				
	50		10.5	4.9	9.7	48.9
603+00		20.3				
	50		31.6	14.6	29.3	78.2
603+50		43.0				
	50		44.1	20.4	40.8	119.0
604+00		45.1				
	50		47.8	22.1	44.3	163.3
604+50		50.5				
	50		51.3	23.8	47.5	210.8
605+00		52.2				
	50		51.9	24.0	48.0	258.9
605+50		51.6				
	50		25.8	11.9	23.9	282.7
606+00		48.9				
	50		49.5	22.9	45.9	328.6
606+50		50.2				
	50		50.4	23.3	46.7	375.3
607+00		50.7				
	50		46.0	21.3	42.6	417.9
607+50		41.3				
	50		37.7	17.5	34.9	452.8
608+00		34.2				
	50		33.5	15.5	31.0	483.8
608+50		32.8				
	50		32.4	15.0	30.0	513.8
609+00		32.0				
	50		31.9	14.8	29.5	543.4
609+50		31.8				
	50		31.3	14.5	29.0	572.3
610+00		30.8				
	50		30.3	14.0	28.1	600.4
610+50		29.9				
	50		30.4	14.1	28.2	628.6
611+00		30.9				
	50		31.7	14.7	29.4	657.9

RAMP C TOP SOIL REPLACEMENT

PROJECT #: 200319 EA CALCULATED: RAMP C

CALC. BY: CARDIN
CHKD BY: RANDALLDATE: 20-Nov-24
DATE: 20-Nov-24REPLACEMENT DEPTH: 0.25
SHRINKAGE FACTOR: 100%

TOPSOIL REPLACEMENT						
STATION	DIST	WIDTH (FT)	AVERAGE	VOLUME (CY)	ADJUSTED VOLUME (CY)	CUMULATIVE TOTAL
611+50	50	32.5	46.9	21.7	43.4	701.3
612+00	50	61.2	30.6	14.2	28.3	729.7
612+50		0.0	0.0	0.0	0.0	729.7
				365 CY	730 CY	

TOTAL REPLACEMENT: 730 CY

RAMP C1 TOP SOIL REPLACEMENT

PROJECT #: 200319 EA CALCULATED: RAMP C1

CALC. BY: CARDIN
CHKD BY: RANDALLDATE: 20-Nov-24
DATE: 20-Nov-24REPLACEMENT DEPTH: 0.25
SHRINKAGE FACTOR: 100%

TOPSOIL REPLACEMENT						
STATION	DIST	WIDTH (FT)	AVERAGE	VOLUME (CY)	ADJUSTED VOLUME (CY)	CUMULATIVE TOTAL
62+00.00	50	29.8	30.1	13.9	27.9	27.9
62+50		30.4				
	50		30.7	14.2	28.4	56.3
63+00.00	50	30.9	38.1	17.7	35.3	91.6
63+50		45.4				
	50		49.8	23.1	46.1	137.7
64+00.00		54.2	27.1	0.0	0.0	137.7
				69 CY	138 CY	

TOTAL REPLACEMENT: 138 CY

RAMP D1 TOP SOIL REPLACEMENT

PROJECT #: 200319 EA CALCULATED: RAMP D1

CALC. BY: CARDIN
CHKD BY: RANDALLDATE: 20-Nov-24
DATE: 20-Nov-24REPLACEMENT DEPTH: 0.25
SHRINKAGE FACTOR: 100%

TOPSOIL REPLACEMENT						
STATION	DIST	WIDTH (FT)	AVERAGE	VOLUME (CY)	ADJUSTED VOLUME (CY)	CUMULATIVE TOTAL
91+50.00	50	0.0	1.0	0.4	0.9	0.9
92+00	50	1.9	2.2	1.0	2.1	2.9
92+50.00	50	2.5	6.3	2.9	5.8	8.8
93+00	50	10.0	14.2	6.6	13.1	21.9
93+50.00		18.3	9.2	0.0	0.0	21.9
				11 CY	22 CY	

TOTAL REPLACEMENT: 22 CY

JEFFERSON PIKE TOP SOIL REPLACEMENT

PROJECT #: 200319 EA CALCULATED: Jefferson Pike

CALC. BY: CARDIN
CHKD BY: RANDALL

DATE: 20-Nov-24
DATE: 20-Nov-24

REPLACEMENT DEPTH: 0.25
SHRINKAGE FACTOR: 100%

TOPSOIL REPLACEMENT						
STATION	DIST	WIDTH (FT)	AVERAGE	VOLUME (CY)	ADJUSTED VOLUME (CY)	CUMULATIVE TOTAL
13+08.34		0.7				
13+50	41.66	17.4	9.0	3.5	7.0	7.0
14+00	50	11.3	14.4	6.6	13.3	20.3
14+50	50	7.7	9.5	4.4	8.8	29.1
15+00	50	4.8	6.2	2.9	5.8	34.8
15+12.29	12.29	0.0	2.4	0.3	0.5	35.4
			0.0	0.0	0.0	35.4
				18 CY	35 CY	

TOTAL REPLACEMENT: 35 CY