

PID 107376  
MOT-75-14.74 PAVEMENT CALCULATION

Calculated By: TES  
Check By: JAE

Date: 7/22/2022  
Date: 7/22/2022

	STATION		CADD AREA (SF)	LENGTH (FT)	2.8125		204		206		206		206		254		302		304		407		407		407		442		442		452		888		Depth (ft)	DESCRIPTION	
	FROM	TO			SF	FT	SY	TON	SY	LS	SY	CY	CY	GAL	GAL	GAL	CY	CY	GAL	GAL	CY	SY	SY														
					HOUR																																
Mainline I-75	385+76.00	390+08.17	52409.35	432.17	-	1728.6800	-	-	-	-	-	-	-	-	5823.2611	-	-	-	-	-	-	-	-	-	-	494.9772	-	242.6359	-	-	-	-	-	Mill/Overlay			
Mainline I-75	392+16.88	409+43.53	246544.43	1726.65	-	6906.6000	-	-	-	-	-	-	-	27393.8256	-	-	-	-	-	-	-	-	-	-	2328.4752	-	1141.4094	-	-	-	-	-	Mill/Overlay				
Mainline I-75	412+42.63	424+95.42	175349.23	1252.79	-	5011.1600	-	-	-	-	-	-	-	19483.2478	-	-	-	-	-	-	-	-	-	-	1656.0761	-	811.8020	-	-	-	-	-	Mill/Overlay				
Ramp D4	686+65.53	692+02.77	16115.93	537.24	-	-	-	-	-	-	-	-	-	1790.6589	-	-	-	-	-	-	-	-	-	-	152.2060	-	74.6108	-	-	-	-	-	Mill/Overlay				
Ramp D4	696+45.25	698+08.60	4626.72	163.35	-	-	-	-	-	-	-	-	-	514.0800	-	-	-	-	-	-	-	-	-	-	43.6968	-	21.4200	-	-	-	-	-	Mill/Overlay				
Ramp E2	584+95.25	587+67.96	10917.26	272.71	-	-	-	-	-	-	-	-	-	1213.0289	-	-	-	-	-	-	-	-	-	-	103.1075	-	50.5429	-	-	-	-	-	Mill/Overlay				
Ramp E5	786+59.80	807+43.46	97174.68	2083.66	-	-	-	-	-	-	-	-	-	10797.1867	-	-	-	-	-	-	-	-	-	-	917.7609	-	449.8828	-	-	-	-	-	Mill/Overlay				
			02/IMS/PV	SUBTOTAL		13647.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67016.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5697.0	0.0	2793.0	0.0	0.0	0.0	0.0	0.0					
Mainline I-75	422+90.00	423+95.00	9302.18	105.00		420.0000	0.5168	1033.5756	26.75	1033.5756	-	-	-	229.6835	172.2626	-	-	-	-	-	-	-	-	-	50.2433	43.0656	-	-	-	-	-	-	-	Area with existing Median Barrier. Matching existing pavement, no step outs			
Mainline I-75	423+95.00	424+95.42	9336.19	100.42	282.4312	401.6800	0.5030	1005.9732	26.03	1005.9732	-	-	-	230.5232	172.8924	-	-	-	-	-	-	-	-	-	50.4270	41.9155	-	-	-	-	-	-	-	Area with new Median Barrier. Matching existing pavement, no step outs			
Mainline I-75	426+91.12	444+57.67	236379.37	1766.55	4968.4219	7066.2000	12.8562	25712.3276	665.31	25712.3276	-	-	-	5836.5277	4377.3957	-	-	-	-	-	-	-	-	-	4333.6218	-	1276.7404	1071.3470	-	-	-	-	-	-	-		
I75 - LT Step out	430+95.46	444+57.67	-	1362.21	-	-	0.2144	428.8439	11.10	428.8439	-	-	-	14.0145	33.6348	-	-	-	-	-	-	-	-	-	6.9372	-	0.0000	-	-	-	-	-	-	-	Ex. Noise wall from 426+91.12 to 430+95.46		
I75 - RT Step out	426+91.12	437+94.93	-	1103.81	-	-	0.1737	347.4957	9.00	347.4957	-	-	-	11.3561	27.2546	-	-	-	-	-	-	-	-	-	5.6213	-	0.0000	-	-	-	-	-	-	-	-		
I75 - RT Step out	437+94.93	438+89.08	-	94.15	-	-	0.0262	52.3056	1.36	52.3056	-	-	-	6.9741	6.1023	-	-	-	-	-	-	-	-	-	4.6988	-	1.1018	-	-	-	-	-	-	-	Rt Type D Concrete Barrier		
I75 - RT Step out	438+89.08	440+45.73	-	156.65	-	-	0.0247	49.3157	1.28	49.3157	-	-	-	1.6116	3.8679	-	-	-	-	-	-	-	-	-	0.7978	-	0.0000	-	-	-	-	-	-	-	-		
Approach Slab I-75	444+57.67	444+82.67	2100	25	-	100.0000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.3333	12.8333	-	11.3426	9.7222	-	-	-	-	-	Mill/Overlay		
Approach Slab - Median and Shoulders Pxt	444+57.67	444+82.67	950	25	-	-	0.0528	105.5556	2.74	105.5556	-	-	-	17.5926	7.3889	5.8056	-	-	-	-	-	-	-	-	-	5.1312	4.3981	-	-	-	-	-	-	-	-		
Approach Slab - LT Step out	444+57.67	444+82.67	-	25	-	-	0.0021	4.1667	0.11	4.1667	-	-	-	0.6944	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Approach Slab - RT Step out	444+57.67	444+82.67	-	25	-	-	0.0021	4.1667	0.11	4.1667	-	-	-	0.6944	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Approach Slab I-75	446+86.73	447+11.73	2100	25	-	100.0000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.3333	12.8333	-	11.3426	9.7222	-	-	-	-	-	Mill/Overlay		
Approach Slab - Median and Shoulders Pxt	446+86.73	447+11.73	950	25	-	-	0.0528	105.5556	2.74	105.5556	-	-	-	17.5926	7.3889	5.8056	-	-	-	-	-	-	-	-	-	5.1312	4.3981	-	-	-	-	-	-	-	-	-	
Approach Slab - LT Step out	446+86.73	447+11.73	-	25	-	-	0.0021	4.1667	0.11	4.1667	-	-	-	0.6944	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Approach Slab - RT Step out	446+86.73	447+11.73	-	25	-	-	0.0021	4.1667	0.11	4.1667	-	-	-	0.6944	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Approach Slab I-75	471+43.51	471+68.51	1800	25	-	100.0000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.0000	11.0000	-	9.7222	8.3333	-	-	-	-	-	Mill/Overlay		
Approach Slab - Median and Shoulders Pxt	471+43.51	471+68.51	1000	25	-	-	0.0556	111.1111	2.88	111.1111	-	-	-	18.5185	7.7778	6.1111	-	-	-	-	-	-	-	-	-	5.4012	4.6296	-	-	-	-	-	-	-	-	-	
Approach Slab - LT Step out	471+43.51	471+68.51	-	25	-	-	0.0021	4.1667	0.11	4.1667	-	-	-	0.6944	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Approach Slab - RT Step out	471+43.51	471+68.51	-	25	-	-	0.0021	4.1667	0.11	4.1667	-	-	-	0.6944	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Approach Slab I-75	472+87.27	473+12.27	1800	25	-	100.0000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.0000	11.0000	-	9.7222	8.3333	-	-	-	-	-	Mill/Overlay		
Approach Slab - Median and Shoulders Pxt	472+87.27	473+12.27	1000	25	-	-	0.0556	111.1111	2.88	111.1111	-	-	-	18.5185	7.7778	6.1111	-	-	-	-	-	-	-	-	-	5.4012	4.6296	-	-	-	-	-	-	-	-	-	
Approach Slab - LT Step out	472+87.27	473+12.27	-	25	-	-	0.0021	4.1667	0.11	4.1667	-	-	-	0.6944	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Approach Slab - RT Step out	472+87.27	473+12.27	-	25	-	-	0.0021	4.1667	0.11	4.1667	-	-	-	0.6944	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Approach Slab I-75	486+59.03	486+84.03	1800	25	-	100.0000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.0000	11.0000	-	9.7222	8.3333	-	-	-	-	-	Mill/Overlay		
Approach Slab - Median and Shoulders Pxt	486+59.03	486+84.03	1000	25	-	-	0.0556	111.1111	2.88	111.1111	-	-	-	18.5185	7.7778	6.1111	-	-	-	-	-	-	-	-	-	5.4012	4.6296	-	-	-	-	-	-	-	-	-	
Approach Slab - LT Step out	486+59.03	486+84.03	-	25	-	-	0.0021	4.1667	0.11	4.1667	-	-	-	0.6944	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Approach Slab - RT Step out	486+59.03	486+84.03	-	25	-	-	0.0021	4.1667	0.11	4.1667	-	-	-	0.6944	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	STATION		CADD AREA (SF)	LENGTH (FT)	2.8125		2000		TON	SY	LS	SY	CY	CY	GAL	GAL	GAL	CY	CY	SY	SY	Depth (ft)	DESCRIPTION														
	FROM	TO			SF	FT	HOUR	SY																TON	SY	LS	SY	CY	CY	GAL	GAL	GAL	CY	CY	SY	SY	
																							872	204	206	206	206	206	254	302	304	407	407	407	442	442	452
Approach Slab I-75	488+65.56	488+90.56	1800	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Mill/Overlay														
Approach Slab - Median and Shoulders Pvt	488+65.56	488+90.56	1000	25	-	-	0.0556	111.1111	2.88	111.1111	-	-	-	18.5185	7.7778	6.1111	-	5.4012	4.6296	-	-	-	-														
Approach Slab - LT Step out	488+65.56	488+90.56	-	25	-	-	0.0021	4.1667	0.11	4.1667	-	-	-	0.6944	-	-	-	-	-	-	-	-	-														
Approach Slab - RT Step out	488+65.56	488+90.56	-	25	-	-	0.0021	4.1667	0.11	4.1667	-	-	-	0.6944	-	-	-	-	-	-	-	-	-														
Ramp N-8	2+80.93	7+41.91	11482.32	460.98	-	-	0.6379	1275.8133	33.02	1275.8133	-	-	-	212.6356	-	-	-	-	-	-	-	1275.8133	-	-													
N8 - LT Step out	2+80.93	7+41.91	-	460.98	-	-	0.0512	102.4400	2.66	102.4400	-	-	-	4.2683	-	-	-	-	-	-	-	-	-	-													
N8 - RT Step out	2+80.93	7+41.91	-	460.98	-	-	0.0512	102.4400	2.66	102.4400	-	-	-	4.2683	-	-	-	-	-	-	-	-	-	-													
Mainline I-75	447+11.73	455+49.17	109800.51	837.44	2355.3000	3349.7600	5.9692	11938.3567	308.91	11938.3567	-	-	2711.1237	2033.3428	2013.0094	-	593.0583	497.4315	-	-	-	-	-	-													
I75 - LT Step out	447+11.73	455+25.07	-	813.34	-	-	0.1280	256.0515	6.63	256.0515	-	-	8.3677	20.0825	4.1420	-	0.0000	-	-	-	-	-	-	-													
I75 - RT Step out	447+11.73	455+49.17	-	837.44	-	-	0.1318	263.6385	6.83	263.6385	-	-	8.6156	20.6775	4.2647	-	0.0000	-	-	-	-	-	-	-													
Ramp N-7	445+86.90	448+33.00	6685.28	246.1	-	-	-	-	-	-	-	742.8089	-	-	-	-	63.1388	-	30.9504	-	-	-	Mill/Overlay														
Ramp N-7	448+33.00	450+20.86	4685.52	187.86	-	-	0.2603	520.6133	13.48	520.6133	-	-	-	86.7689	-	-	-	-	520.6133	-	-	-	-	-													
N7 - LT Step out	448+33.00	450+20.86	-	187.86	-	-	0.0296	59.1411	1.54	59.1411	-	-	1.9327	4.6385	0.9567	-	0.0000	-	-	-	-	-	-	-													
N7 - RT Step out	448+33.00	450+20.86	-	187.86	-	-	0.0197	59.1411	1.54	59.1411	-	-	1.9327	4.6385	0.9567	-	0.0000	-	-	-	-	-	-	-													
Ramp N-6	445+94.83	455+47.77	28443.68	952.94	-	-	-	-	-	-	-	3160.4089	-	-	-	-	268.6348	-	131.6837	-	-	-	Mill/Overlay														
Ramp N-6A	440+39.91	444+50.00	12137.86	410.09	-	-	-	-	-	-	-	1348.6511	-	-	-	-	114.6353	-	56.1938	-	-	-	Mill/Overlay														
Ramp N-6A	444+50.00	447+09.87	7333.5	259.87	-	-	0.4074	814.8333	21.09	814.8333	-	-	181.0741	135.8056	134.4475	-	39.6100	-	-	-	-	-	-	-													
N6A - LT Step out	444+50.00	447+09.87	-	259.87	-	-	0.0409	81.8109	2.12	81.8109	-	-	2.6736	6.4165	1.3234	-	0.0000	-	-	-	-	-	-	-													
N6A - RT Step out	444+50.00	447+09.87	-	259.87	-	-	0.0409	81.8109	2.12	81.8109	-	-	2.6736	6.4165	1.3234	-	0.0000	-	-	-	-	-	-	-													
Mainline I-75	461+76.52	471+43.51	110950.2	966.99	2719.6594	3867.9600	6.0128	12025.6156	311.17	12025.6156	-	-	2739.5111	2054.6333	2034.0870	-	599.2681	501.0673	-	-	-	-	-	-													
I75 - LT Step out	463+39.25	471+43.51	-	804.26	-	-	0.1266	253.1930	6.56	253.1930	-	-	8.2743	19.8583	4.0958	-	0.0000	-	-	-	-	-	-	Existing Wall from 461+76.52 to 463+39.25 No Step outs													
I75 - RT Step out	461+76.52	471+43.51	-	966.99	-	-	0.1522	304.4228	7.88	304.4228	-	-	9.9485	23.8763	4.9245	-	0.0000	-	-	-	-	-	-	-													
Mainline I-75	473+12.27	486+59.03	175298.65	1346.76	3787.7625	5387.0400	9.5284	19056.7653	493.10	19056.7653	-	-	4328.3617	3246.2713	3213.8086	-	946.8291	794.0319	-	-	-	-	-	-													
I75 - LT Step out	473+12.27	486+59.03	-	1346.76	-	-	0.2120	423.9800	10.98	423.9800	-	-	13.8556	33.2533	6.8585	-	0.0000	-	-	-	-	-	-	-													
I75 - RT Step out	473+12.27	485+95.37	-	1283.1	-	-	0.2020	403.9389	10.46	403.9389	-	-	13.2006	31.6815	6.5343	-	0.0000	-	-	-	-	-	-	-													
I75 - RT Step out	485+95.37	486+59.03	-	63.66	-	-	0.0177	35.3667	0.92	35.3667	-	-	4.7156	4.1261	3.1771	-	0.7450	-	-	-	-	-	-	Rt Type D Concrete Barrier													

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	STATION		CADD AREA (SF)	LENGTH (FT)	2.8125		2000		0.6667		0.50		0.0700		0.0550		0.0850		0.1458		0.1250		1.0417		Depth (ft)	DESCRIPTION			
	FROM	TO			SF	FT	SY	TON	SY	LS	SY	CY	GAL	GAL	CY	CY	SY	SY											
					2.8125	2000	0.6667	0.50	0.0700	0.0550	0.0850	0.1458	0.1250	1.0417															
Ramp N-2	7+63.51	11+93.00	12170.42	429.49	-	-	0.6761	1352.2689	34.99	1352.2689	-	-	225.3781	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
N2 - LT Step out	7+63.51	11+73.00	-	409.49	-	-	0.0341	68.2483	1.77	68.2483	-	-	11.3747	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
N2 - LT Step out	11+73.00	11+93.00	-	20	-	-	0.0022	4.4444	0.12	4.4444	-	-	0.1852	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
N2 - RT Step out	7+63.51	11+93.00	-	429.49	-	-	0.0477	95.4422	2.47	95.4422	-	-	3.9768	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ramp N-3	1+04.00	4+35.18	8315.33	331.18	-	-	0.4620	923.9256	23.91	923.9256	-	-	153.9876	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
N3 - RT Step out	1+04.00	4+35.18	-	331.18	-	-	0.0368	73.5956	1.91	73.5956	-	-	3.0665	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
N3 - LT Step out	1+04.00	4+35.18	-	331.18	-	-	0.0276	55.1967	1.43	55.1967	-	-	9.1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Mainline I-75	488+90.56	514+91.59	317697.12	2601.03	7315.3969	10404.1200	17.2434	34486.8581	892.35	34486.8581	-	-	7844.3733	5883.2800	5824.4472	-	-	1715.9567	1436.9524	-	-	-	-	-	-	-	-	-	
I75 - LT Step out	488+90.56	498+08.84	-	918.28	-	-	0.1445	289.0881	7.49	289.0881	-	-	9.4473	22.6736	4.6764	-	-	0.0000	-	-	-	-	-	-	-	-	-	-	
I75 - LT Step out	511+55.68	514+91.59	-	335.91	-	-	0.0311	62.2056	1.61	62.2056	-	-	10.2639	10.2639	3.0239	-	-	0.0000	-	-	-	-	-	-	-	-	-	-	
I75 - RT Step out	488+90.56	497+15.16	-	824.6	-	-	0.1298	259.5963	6.72	259.5963	-	-	8.4835	20.3605	4.1994	-	-	0.0000	-	-	-	-	-	-	-	-	-	-	
I75 - RT Step out	497+15.16	504+25.00	-	709.84	-	-	0.0657	131.4519	3.41	131.4519	-	-	29.2115	21.9086	21.6896	-	-	6.3900	-	-	-	-	-	-	-	-	-	-	
I75 - RT Step out	504+25.00	511+00.00	-	675	-	-	0.1012	202.3438	5.24	202.3438	-	-	33.7240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
I75 - RT Step out	511+00.00	514+91.59	-	391.59	-	-	0.0363	72.5167	1.88	72.5167	-	-	16.1148	12.0861	11.9652	-	-	3.5251	-	-	-	-	-	-	-	-	-	-	
Ramp N-1	1+30.14	3+69.25	6044.23	239.11	-	-	0.3358	671.5811	17.38	671.5811	-	-	111.9302	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N1 - LT Step out	1+30.14	3+69.25	-	239.11	-	-	0.0199	39.8517	1.04	39.8517	-	-	6.6419	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N1 - RT Step out	1+30.14	3+69.25	-	239.11	-	-	0.0266	53.1356	1.38	53.1356	-	-	2.2140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ramp N-4	62+49.58	78+55.25	52702.39	1605.67	-	-	2.9279	5855.8211	151.52	5855.8211	-	-	975.9702	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N4 - LT Step out	63+60.33	72+50.19	-	889.86	-	-	0.0824	164.7889	4.27	164.7889	-	-	27.4648	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N4A - LT Step out	72+54.16	74+45.04	-	190.88	-	-	0.0212	42.4178	1.10	42.4178	-	-	1.7674	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N4 - LT Step out	74+45.04	77+02.16	-	257.12	-	-	0.0286	57.1378	1.48	57.1378	-	-	2.3807	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N4 - LT Step out	77+02.16	78+55.25	-	153.09	-	-	0.0142	28.3500	0.74	28.3500	-	-	4.7250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N4 - RT Step out	62+49.58	65+41.60	-	292.02	-	-	0.0324	64.8933	1.68	64.8933	-	-	2.7039	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N4 - RT Step out	65+41.60	78+55.25	-	1313.65	-	-	0.1969	393.7909	10.19	393.7909	-	-	65.6318	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mainline I-75	516+47.64	558+07.79	487546.75	4160.15	11700.4219	16640.6000	26.4359	52871.8142	1368.06	52871.8142	-	-	12038.1914	9028.6435	8938.3571	-	-	2633.3544	2202.9923	-	-	-	-	-	-	-	-	-	
I75 - LT Step out	516+47.64	533+08.00	-	1660.36	-	-	0.4612	922.4222	23.87	922.4222	-	-	68.3276	51.2457	50.7332	-	-	14.9467	-	-	-	-	-	-	-	-	-	-	
I75 - LT Step out	533+08.00	539+85.00	-	677	-	-	0.1066	213.1296	5.52	213.1296	-	-	6.9650	16.7160	3.4477	-	-	0.0000	-	-	-	-	-	-	-	-	-	-	
I75 - LT Step out	539+85.00	541+74.00	-	189	-	-	0.0525	105.0000	2.72	105.0000	-	-	14.0000	12.2500	9.4325	-	-	2.2118	-	-	-	-	-	-	-	-	-	-	
I75 - LT Step out	541+74.00	558+07.79	-	1633.79	-	-	0.2572	514.3413	13.31	514.3413	-	-	16.8085	40.3405	8.3202	-	-	0.0000	-	-	-	-	-	-	-	-	-	-	
I75 - RT Step out	516+47.64	523+43.29	-	695.65	-	-	0.0644	128.8241	3.34	128.8241	-	-	28.6276	21.4707	21.2560	-	-	6.2623	-	-	-	-	-	-	-	-	-	-	
I75 - RT Step out	523+43.29	529+55.00	-	611.71	-	-	0.1699	339.8389	8.90	339.8389	-	-	45.3119	39.6479	30.5289	-	-	7.1586	-	-	-	-	-	-	-	-	-	-	
I75 - RT Step out	529+55.00	539+90.76	-	1035.76	-	-	0.1630	326.0726	8.44	326.0726	-	-	10.6560	25.5743	5.2747	-	-	0.0000	-	-	-	-	-	-	-	-	-	-	
I75 - RT Step out	539+90.76	540+64.76	-	74	-	-	0.0206	41.1111	1.07	41.1111	-	-	5.4815	4.7963	3.6931	-	-	0.8660	-	-	-	-	-	-	-	-	-	-	
I75 - RT Step out	540+64.76	551+93.94	-	1129.18	-	-	0.1777	355.4826	9.20	355.4826	-	-	11.6171	27.8810	5.7505	-	-	0.0000	-	-	-	-	-	-	-	-	-	-	
I75 - RT Step out	551+93.94	552+42.84	-	48.9	-	-	0.0136	27.1667	0.71	27.1667	-	-	3.6222	3.1694	2.4405	-	-	0.5723	-	-	-	-	-	-	-	-	-	-	
I75 - RT Step out	552+42.84	558+07.79	-	564.95	-	-	0.0889	177.8546	4.61	177.8546	-	-	5.8122	13.9494	2.8771	-	-	0.0000	-	-	-	-	-	-	-	-	-	-	
Mainline I-75 RT	558+07.79	595+50.00	214863.36	3742.21	-	7484.4200	-	-	-	-	-	-	-	-	2029.2651	-	-	994.7378	-	-	-	-	-	-	-	-	-	-	
Mainline I-75 LT	558+07.79	606+00.00	264771.31	4792.21	-	9584.4200	-	-	-	-	-	-	-	-	2500.6179	-	-	1225.7931	-	-	-	-	-	-	-	-	-	-	
Mainline I-75	440+01.00	444+57.67	25653.69	456.67	642.1922	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mainline I-75	447+11.73	455+49.17	42136.03	837.44	1177.6500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
01/IMS/PV SUBTOTAL							65207.0	90.0	178867.0	4628.55	178867.0	1	58545.0	36544.0	29764.0	135.0	27193.0	4977.0	8046.0	9109.0	11187.0	7330.0							
GRAND TOTAL							78854.0	90.0	178867.0	4628.55	178867.0	1	125561.0	37291.0	29764.0	135.0	27193.0	10674.0	8046.0	11902.0	11187.0	7330.0							

PID 107376  
MOT-75-14.74 PAVEMENT CALCULATION

Calculated By: TES      Date: 7/22/2022  
Check By: JAE      Date: 7/22/2022

ASPHALT BASE STEP OUT WIDTH(FT)		
CONC. BASE	AGG. BASE	SUBGRADE
0.8333	1.3333	2.8333

TYPE D BARRIER - STEP OUT WIDTH(FT)						
ASPH. CONC. INT.		CONC. BASE	AGG. BASE			SUBGRADE
2.1667		3.0000	3.5000			5.0000

TYPE D BARRIER with NOISE WALL (NO STEP OUT) - STEP OUT WIDTH(FT)				
ASPH. CONC. INT.		CONC. BASE	AGG. BASE	SUBGRADE
1.6667		1.6667	1.6667	1.6667

CONC. PAVEMENT TYPE C BARRIER (WITH NO STEP OUT) STEP OUT WIDTH(FT)		
AGG. BASE	SUBGRADE	CONC. PVT
2.6979	2.6979	2.6979

TYPE C BARRIER with NOISE WALL (NO STEP OUT) - STEP OUT WIDTH(FT)				
ASPH. CONC. INT.		CONC. BASE	AGG. BASE	SUBGRADE
-		-	2.6979	2.6979

CONC. PAVEMENT BASE STEP OUT WIDTH(FT)	
AGG. BASE	SUBGRADE
0.5000	2.0000

CONC. PAVEMENT with CURB - BASE STEP OUT WIDTH(FT)	
AGG. BASE	SUBGRADE
1.5000	1.5000

CONC. PAVEMENT TYPE D BARRIER STEP OUT WIDTH(FT)				
AGG. BASE			SUBGRADE	CONC. PVT
2.1667			3.6667	1.6667

CONC. PAVEMENT TYPE D BARRIER with NOISE WALL (NO STEP OUT) STEP OUT WIDTH(FT)			
AGG. BASE		SUBGRADE	CONC. PVT
1.6667		1.6667	1.6667

PAVEMENT RESTORATION FOR STORM PIPES CARRIED TO GENERAL NOTE						
STA.	PIPE SIZE (IN FEET)	LENGTH (pipe length being replaced)	TRENCH WIDTH (1.5XSPAN) + 2 FEET EACH SIDE OF TRENCH	302 ASPHALT CONCRETE BASE, PG64-22 (9.3/4")		202 PAVEMENT REMOVED, AS PER PLAN
		4	1.5	0.8125		
			4	CY		SY
557+87.50	1	4	5.5	17.88		2.44
	1.5	4	6.25	20.31		2.78
	2	4	7	22.75		3.11
557+87.50						
	1.5	4	6.25	20.31		2.78
	1.5	4	6.25	20.31		2.78
Total (carried to general note)				102		14

PAVEMENT RESTORATION AT BARRIER REMOVAL						
STA.	STA.	AREA (2' EACH SIDE OF BARRIER)	302 ASPHALT CONCRETE BASE, PG64-22 (4")			
		4	0.3333			
			CY			
573+04.00	573+52.00	192	63.99			
581+89.07	587+01.00	2047.72	682.51			
SUBTOTAL (carried to grand total)			747			

# MOT-75-14.74 - PAVEMENT CORES

## PID 107376

Coring and Subgrade Exploration Report  
MOT-75-14.74  
Montgomery County, Ohio  
PID: 107376

Table 3: Pavement Core Summary

Core ID	Alignment	Asphalt Thickness (in)	Concrete Thickness (in)	Total Thickness (in)	Core ID	Alignment	Asphalt Thickness (in)	Concrete Thickness (in)	Total Thickness (in)
B-001-0-14	IR-75	9.25	0.25	9.5	DC-5	IR-75	0	11.5	11.5
B-002-0-14	IR-75	10.75	0	10.75	DC-6	IR-75	0	10	10
B-004-0-14	IR-75	10	0	10	DC-7	IR-75	0	11.5	11.5
B-005-0-14	IR-75	8	0	8	DC-8	IR-75	0	11	11
B-012-0-14	IR-75	9.25	0	9.25	B-001-0-20	IR-75	13	0	13
B-013-0-14	IR-75	9.5	0	9.5	B-002-0-20	IR-75	6.5	9	15.5
B-014-0-14	IR-75	8	0	8	B-003-0-20	IR-75	15	0	15
B-015-0-14	IR-75	10.25	0	10.25	B-004-0-20	IR-75	14.5	0	14.5
C-1	IR-75	12.5	0	12.5	B-007-0-20	IR-75	14.5	0	14.5
C-2	IR-75	6	15	21	B-008-0-20	IR-75	10	0	10
C-3	IR-75	14.25	0	14.25	B-009-0-20	IR-75	19	0	19
C-4	IR-75	14.25	0	14.25	B-010-0-20	IR-75	6	8	14
C-5	IR-75	6.5	0	6.5	B-012-0-20	IR-75	4.5	8	12.5
C-6	IR-75	3.5	13	16.5	B-013-0-20	IR-75	11	0	11
C-7	IR-75	13	0	13	B-014-0-20	IR-75	7	10.5	17.5
C-8	IR-75	12	0	12	B-015-0-20	IR-75	3.5	8.5	12
C-9	IR-75	11.75	0	11.75	B-016-0-20	IR-75	9	4	13
C-10	IR-75	2.75	8.5	11.25	B-017-0-20	IR-75	8	8	16
C-11	IR-75	12	0	12	B-018-0-20	IR-75	12	0	12
C-12	IR-75	11.25	0	11.25	B-019-0-20	IR-75	13	0	13
C-13	IR-75	15.75	0	15.75	B-020-0-20	IR-75	13	0	13
C-14	IR-75	15.5	0	15.5	B-021-0-20	IR-75	9.5	0	9.5
C-15	IR-75	13.5	0	13.5	B-022-0-20	IR-75	10.5	0	10.5
C-16	IR-75	17	8.5	25.5	B-024-0-20	IR-75	9	0	9
C-17	IR-75	15.75	0	15.75	B-025-0-20	IR-75	11	0	11
C-18	IR-75	15.75	0	15.75	B-026-0-20	IR-75	4.5	9	13.5
C-19	IR-75	8	16	24	B-027-0-20	IR-75	6	10	16
C-20	IR-75	18	0	18	B-028-0-20	IR-75	16	0	16
C-21	IR-75	3	12.75	15.75	B-029-0-20	IR-75	10.5	0	10.5
C-22	IR-75	10.5	0	10.5	B-030-0-20	IR-75	17.5	0	17.5
C-23	IR-75	3	15.5	18.5	B-031-0-20	IR-75	12.5	0	12.5
C-24	IR-75	9.5	0	9.5	B-032-0-20	IR-75	14.5	0	14.5
C-25	IR-75	15	0	15	B-033-0-20	IR-75	19.5	0	19.5
C-26	IR-75	7.5	8	15.5	B-034-0-20	IR-75	14.5	0	14.5
C-27	IR-75	18	0	18	B-035-0-20	IR-75	9.5	0	9.5
C-28	IR-75	18	0	18	B-036-0-20	IR-75	15	0	15
C-29	IR-75	5	13	18	B-037-0-20	IR-75	9.5	0	9.5
C-30	IR-75	11.25	0	11.25	B-038-0-20	IR-75	12	0	12
C-31	IR-75	2.25	12.75	15	B-039-0-20	IR-75	13	0	13
C-32	IR-75	11.5	0	11.5	B-040-0-20	IR-75	6	10	16
C-33	IR-75	16.5	0	16.5	B-041-0-20	IR-75	4	10	14
C-34	IR-75	7.5	8	15.5	B-042-0-20	IR-75	12.5	0	12.5
C-35	IR-75	15.25	0	15.25	B-043-0-20	IR-75	12	0	12
C-36	IR-75	16	0	16	B-044-0-20	IR-75	13	0	13
DC-1	IR-75	0	11.75	11.75	B-045-0-20	IR-75	14	0	14
DC-2	IR-75	0	11.75	11.75	B-046-0-20	IR-75	12	0	12
DC-3	IR-75	0	10.75	10.75	B-047-0-20	IR-75	11.5	0	11.5
DC-4	IR-75	0	10	10	B-048-0-20	IR-75	5.5	0	5.5
B-049-0-20	IR-75	12	0	12	X-001-0-20	IR-75	4	0	4
B-050-0-20	IR-75	5	10	15	X-002-0-20	IR-75	3	13.5	16.5
B-051-0-20	IR-75	13.5	0	13.5	X-003-0-20	IR-75	6.5	0	6.5
B-052-0-20	IR-75	4	0	4	X-004-0-20	IR-75	5	9.5	14.5
B-053-0-20	IR-75	5.5	0	5.5					

Average Project Pavement Thickness

13.0881 inches  
1.090675 decimal of foot

Average Historical Pavement Thickness

11.62676 inches  
0.968897 decimal of foot

Combined Average Thickness Pavement

12.35743 inches  
1.029786 decimal of foot

Proposed Thickness

1	1.5
2	1.75
3	8
4	6
Total	17.25 Inches
	1.4375 decimal of foot

Note:

Average of borings greater than proposed pavement = 2"  
 $(2/12) * 100 * 60 = 1000/27 = 37 * 2 = 74$  CU YD  
Round to 100 CU YD  
Assume 2 locations  $100 * 2 = 200$  CU YD

# MOT-75-14.74 - PAVEMENT CORES

PID 107376

Coring and Subgrade Exploration Report  
 MOT-75-14.74  
 Montgomery County, Ohio  
 PID: 107376

Table 4: Measured Pavement Thickness at Boring Locations

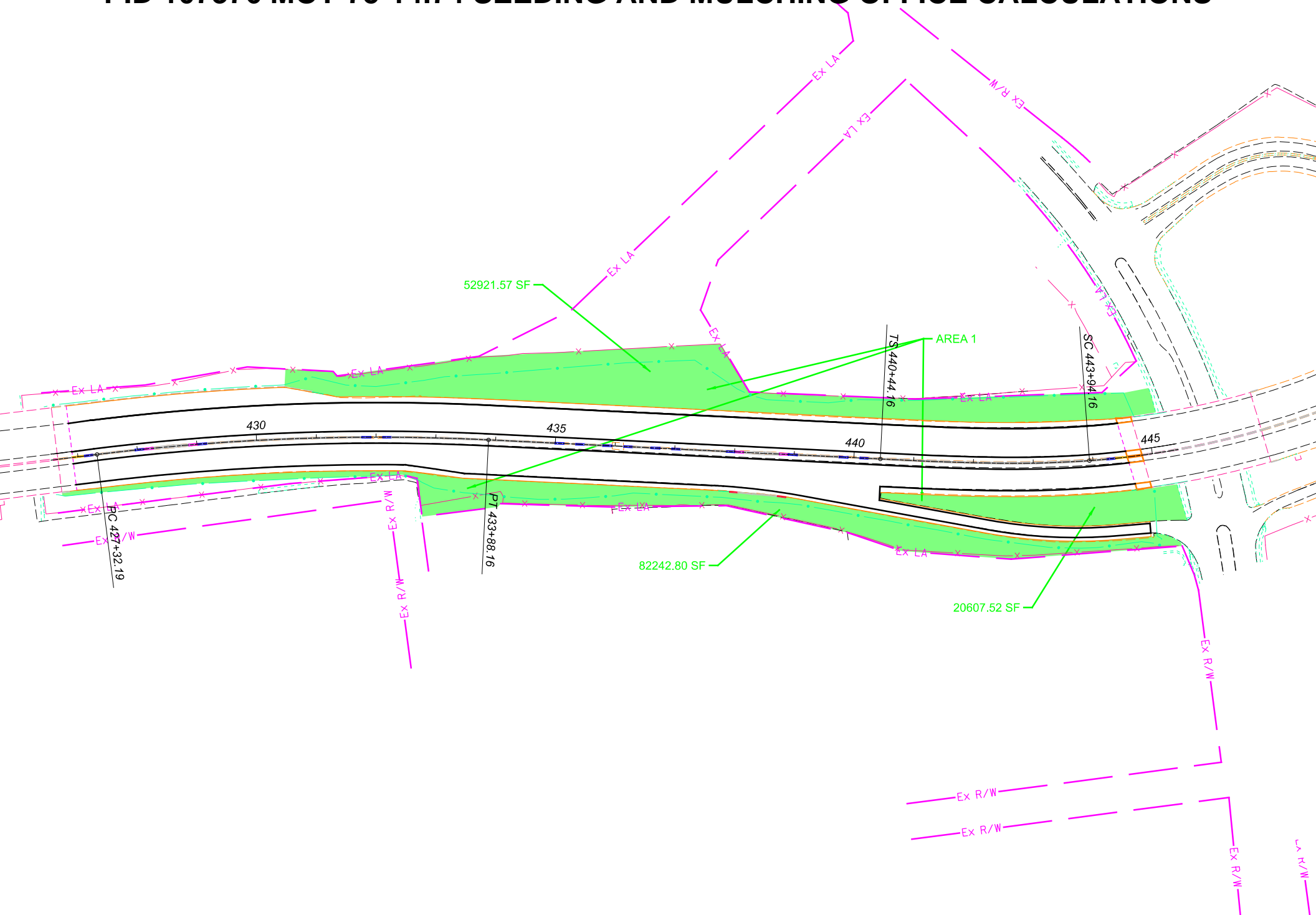
Boring ID	Proposed Alignment	Asphalt thickness (in)	Concrete thickness (in)	Base thickness (in)	Total thickness (in)	Boring ID	Proposed Alignment	Asphalt thickness (in)	Concrete thickness (in)	Base thickness (in)	Total thickness (in)
B-001-0-14	IR-75	9.5	-	8.5	9.5	B-015-0-20	IR-75	5	7	-	12
B-002-0-14	IR-75	10.8	-	-	10.8	B-016-0-20	IR-75 / N1	10	4	-	14
B-004-0-14	IR-75	10	-	8	10	B-017-0-20	IR-75	8	8	-	16
B-005-0-14	IR-75	8	-	-	8	B-018-0-20	IR-75	12	-	-	12
B-006-0-14	IR-75	9	-	3	9	B-019-0-20	Wagner Ford Ramp	11	-	3	11
B-007-0-14	IR-75	8	-	4	8	B-020-0-20	IR-75	13	-	-	13
B-008-0-14	IR-75 / Ramp N-3	9	-	8	9	B-021-0-20	Wagner Ford Ramp	11	-	3	11
B-009-0-14	IR-75 / Ramp N-3	8	-	4	8	B-022-0-20	IR-75	13	-	5	13
B-010-0-14	IR-75 / Ramp N-3	8	-	4	8	B-023-0-20	Wagner Ford Ramp	12	-	7	12
B-011-0-14	IR-75 / Ramp N-3	5	2	-	7	B-024-0-20	IR-75	9	-	-	9
B-011-1-14	IR-75	11	-	5	11	B-025-0-20	Wagner Ford Ramp	9	-	9	9
B-011-2-14	IR-75	10	-	8	10	B-026-0-20	IR-75	4	10	6	14
B-011-3-14	IR-75	13	-	5	13	B-027-0-20	IR-75	6	10	-	16
B-012-0-14	IR-75	9.3	-	-	9.3	B-028-0-20	IR-75	16	-	-	16
B-013-0-14	IR-75	9.5	-	7.5	9.5	B-029-0-20	IR-75	10	-	-	10
B-014-0-14	IR-75	8	-	-	8	B-030-0-20	IR-75	14	-	6	14
B-015-0-14	IR-75	10.3	-	7.5	10.3	B-031-0-20	IR-75	12	-	-	12
B-015-1-14	IR-75	9	-	4	9	B-032-0-20	IR-75	14	-	5	14
B-001-0-20	IR-75	12.5	-	-	12.5	B-033-0-20	IR-75	11	-	-	11
B-002-0-20	IR-75	6.5	9.5	-	16	B-034-0-20	IR-75	16	-	8	16
B-003-0-20	IR-75	14	-	-	14	B-035-0-20	IR-75	11	-	-	11
B-004-0-20	IR-75 / Ramp N-8	14	-	-	14	B-036-0-20	IR-75	10	-	-	10
B-005-0-20	IR-75	12	-	-	12	B-037-0-20	IR-75	11	-	-	11
B-006-0-20	IR-75 / Ramp N-6A	5	8	-	13	B-038-0-20	IR-75	11	-	-	11
B-007-0-20	IR-75 / Ramp N-7	14	-	-	14	B-039-0-20	IR-75	11	-	-	11
B-008-0-20	IR-75 / Ramp N-6	11	-	-	11	B-040-0-20	Ramp N-8	6	10	-	16
B-009-0-20	IR-75	18.8	-	-	18.8	B-041-0-20	Ramp N-8	4	9.8	-	13.8
B-010-0-20	IR-75	6.5	7.5	-	14	B-042-0-20	Ramp N-7	13	-	-	13
B-011-0-20	IR-75	15	-	-	15	B-043-0-20	Ramp N-6A	12	-	-	12
B-012-0-20	IR-75	4	8	-	12	B-044-0-20	Ramp N-6A	12	-	-	12
B-013-0-20	IR-75	10	-	-	10	B-045-0-20	Ramp N-6	12	-	-	12
B-014-0-20	IR-75	8	10	-	18	B-046-0-20	Ramp N-6	11	-	-	11
B-047-0-20	Ramp N-2	11	-	-	11	B-051-0-20	Wagner Ford Ramp	11	-	5	11
B-048-0-20	Ramp N-2	12	-	-	12	B-052-0-20	Keats Drive	1	-	16	1
B-049-0-20	Ramp N-3	11	-	-	11	B-053-0-20	Keats Drive	4	8	5	4
B-050-0-20	Ramp N-1	5	10	-	15						

Average Historical Pavement Thickness  
 11.62676 inches  
 0.968897 decimal of foot

# PID 107376 MOT-75-14.74 SEEDING AND MULCHING OFFICE CALCULATIONS

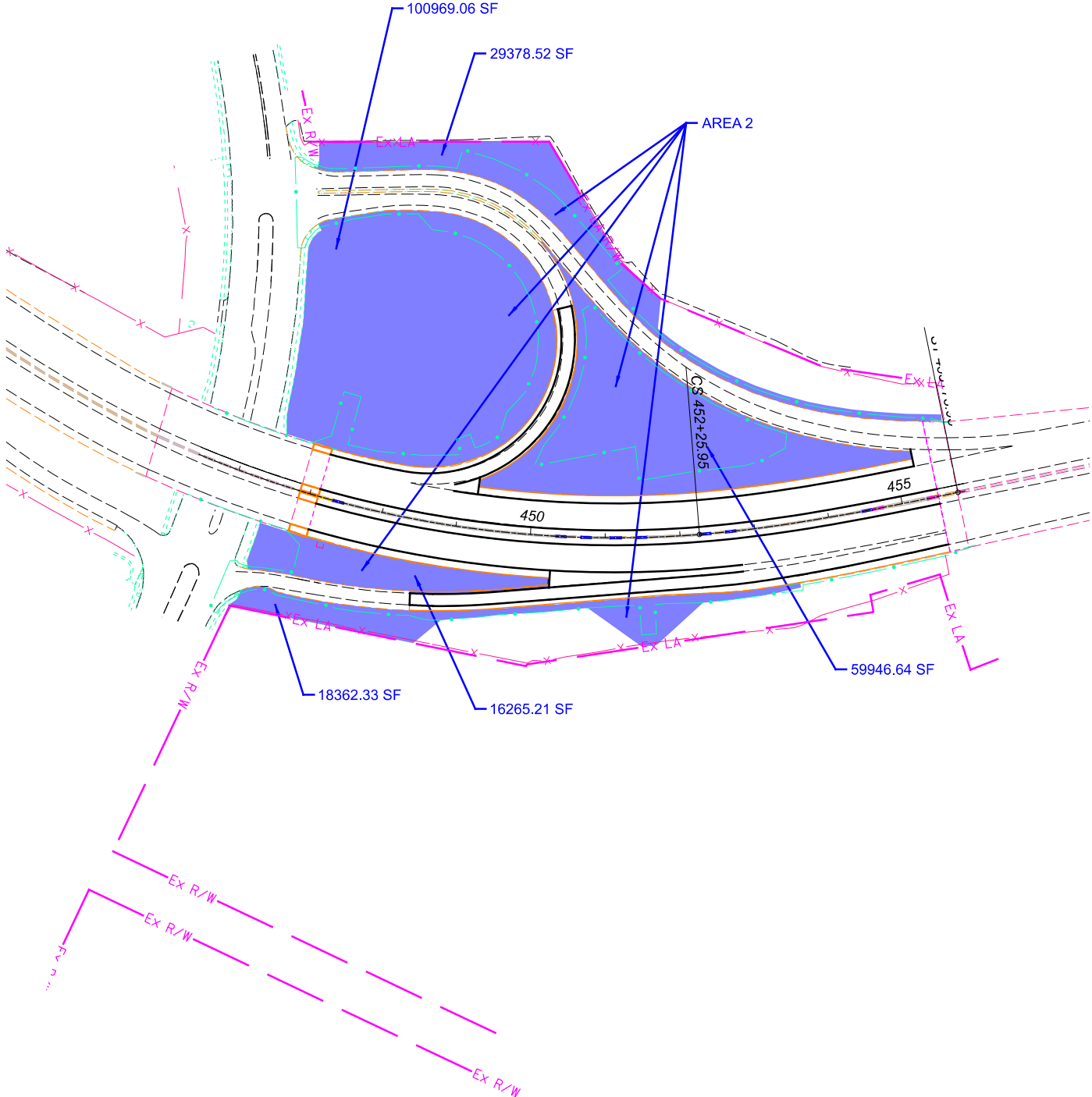
SEEDING AND MULCHING QUANTITIES						TOTAL (SF)	TOTAL (SY)	TOTAL (SY) ROUNDED
<b>Area 1 (SF)</b>	52921.57	82242.80	20607.52	-	-	155771.89	17307.99	17400.00
<b>Area 2 (SF)</b>	100969.06	16265.21	18362.33	59946.64	29378.52	224921.76	24991.31	25000.00
<b>Area 3 (SF)</b>	25504.13	25348.46	-	-	-	50852.59	5650.29	5700.00
<b>Area 4 (SF)</b>	67358.55	58389.18	13144.75	12595.04	-	151487.52	16831.95	16900.00
<b>Area 5 (SF)</b>	60842.86	10068.85	43820.68	22815.35	-	137547.74	15283.08	15300.00
<b>Area 6 (SF)</b>	96298.22	70222.97	9817.72	139.20	-	176478.11	19608.68	19700.00
<b>TOTAL SEEDING AND MULCHING AREA (SF)</b>						<b>897059.61</b>	-	-
<b>TOTAL SEEDING AND MULCHING AREA (SY)</b>						-	<b>99673.29</b>	-
<b>TOTAL SEEDING AND MULCHING AREA USED (SY)</b>						-	-	<b>100000</b>

# PID 107376 MOT-75-14.74 SEEDING AND MULCHING OFFICE CALCULATIONS



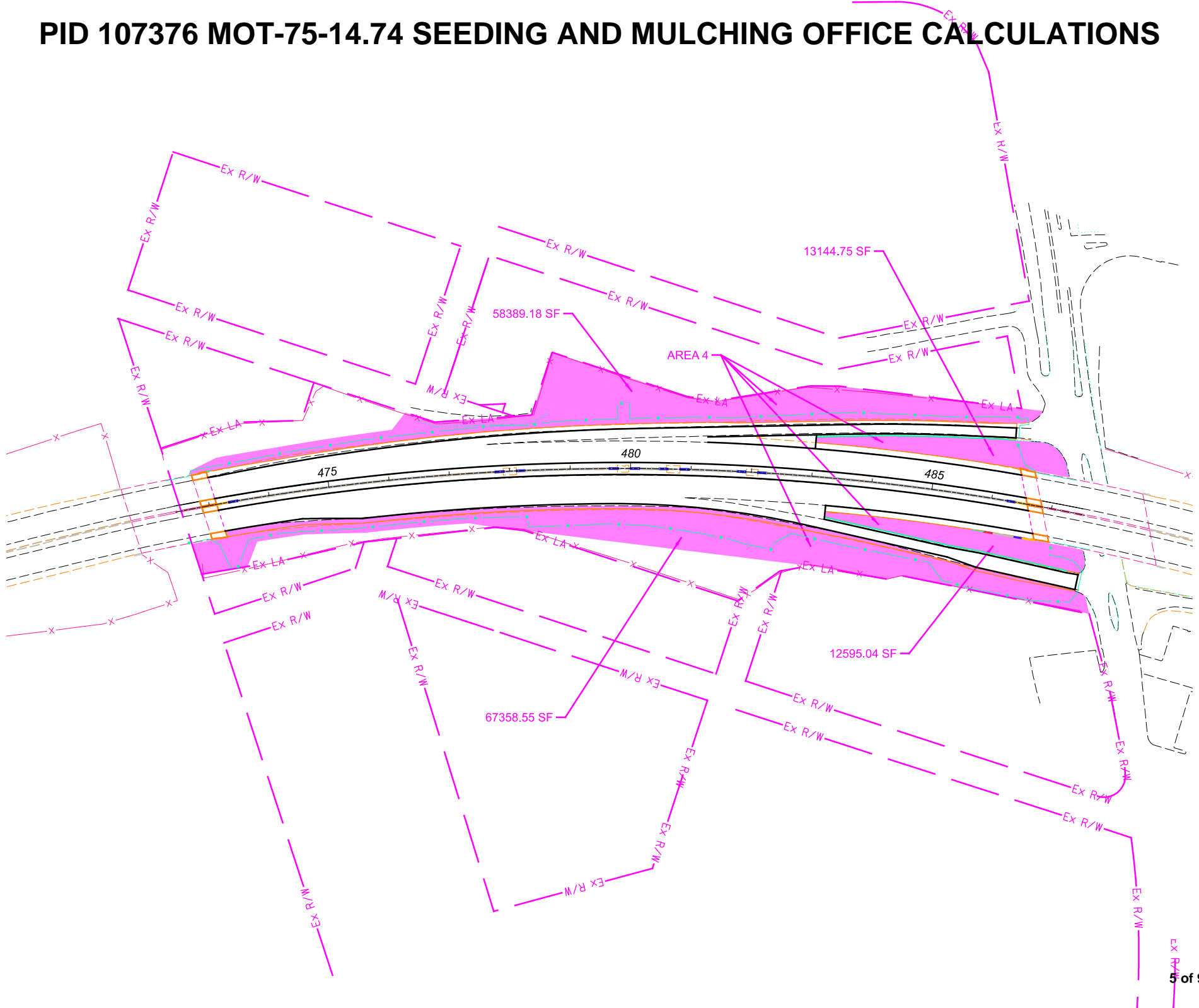


# PID 107376 MOT-75-14.74 SEEDING AND MULCHING OFFICE CALCULATIONS

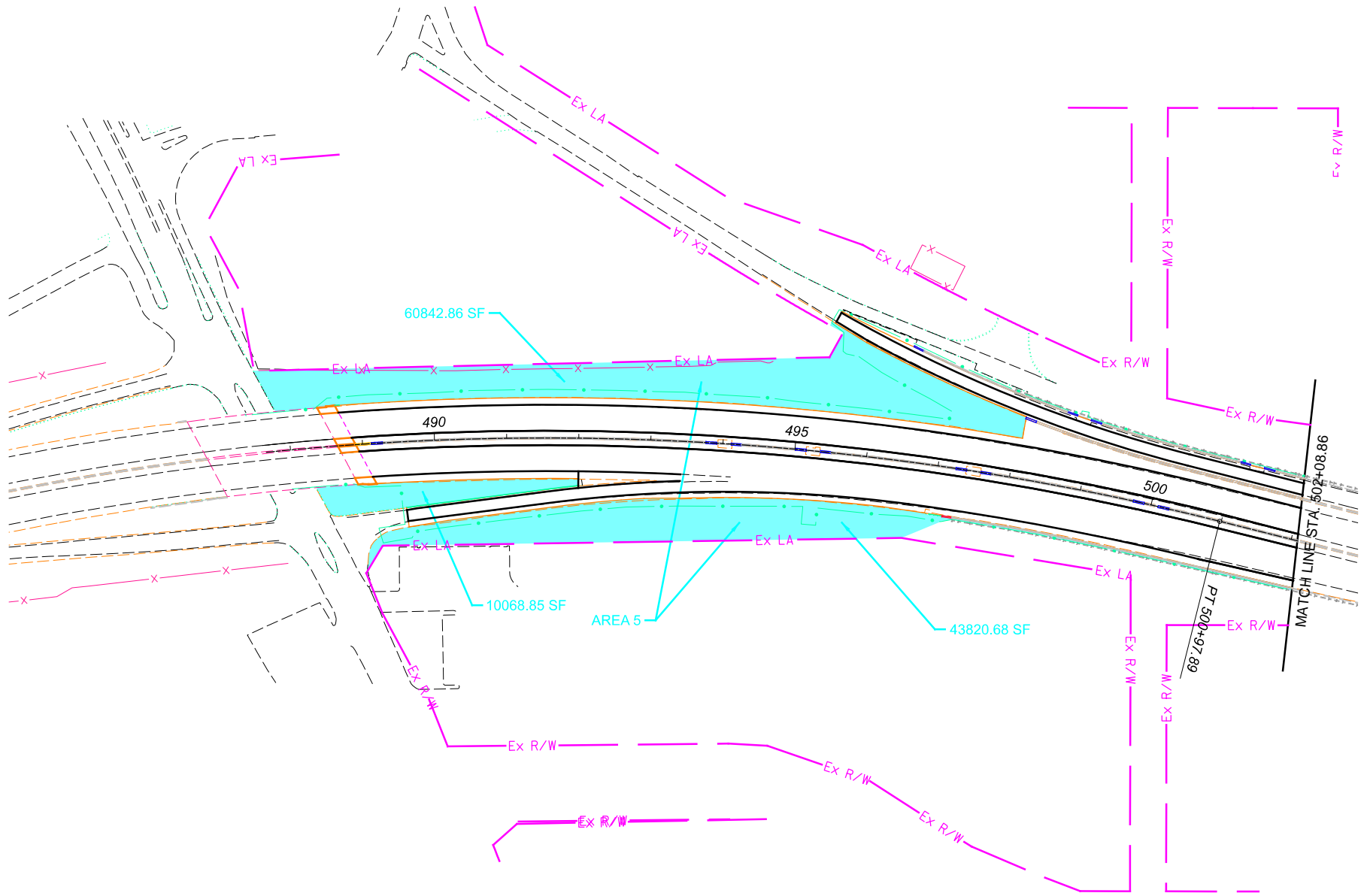




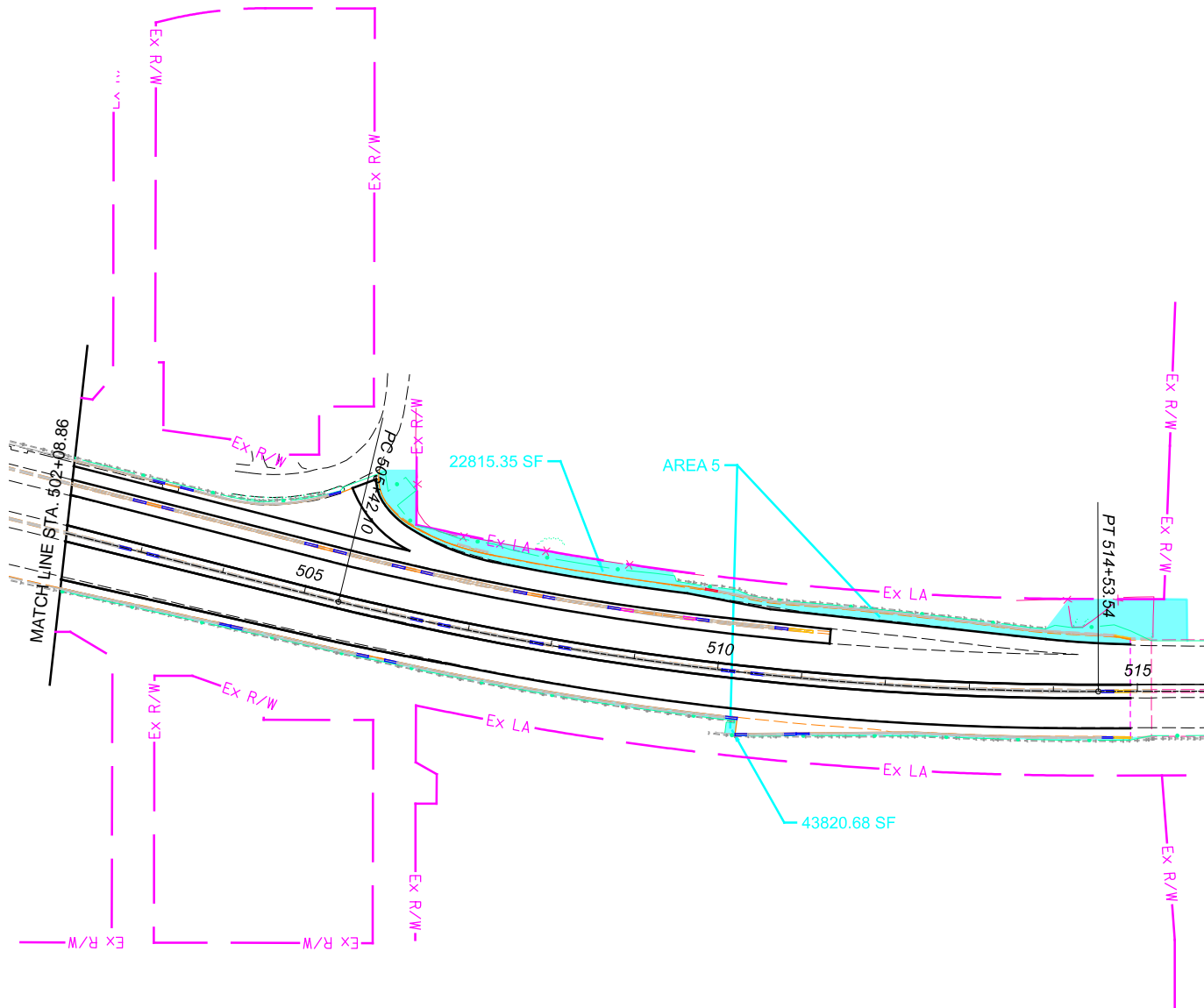
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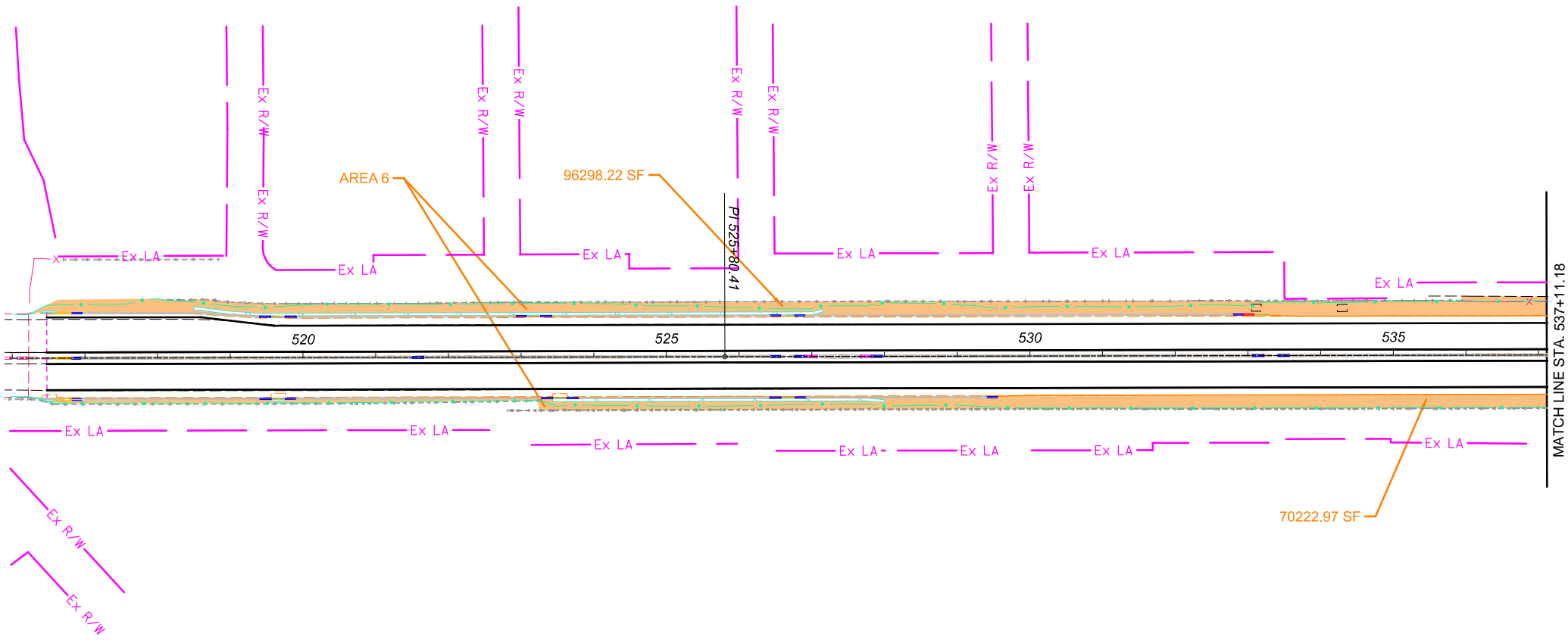
# PID 107376 MOT-75-14.74 SEEDING AND MULCHING OFFICE CALCULATIONS



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