SHEET NO.		204	204*			206	206	206	206													
		SUBGRADE COMPACTION	PROOF ROLLING			CEMENT	CURING COAT	CEMENT STABILIZED SUBGRADE, 12" DEEP	MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS													
		SQ YD	HOUR			TON	SQ YD	SQ YD	LS													
2			31			1578	60961	60961														
3			10			495	19125	19125														
4			27			1396	53927	53927														
5			17			874	33755	33755														
6			17			840	32452	32452														
7			7			325	12530	12530														
8		2071	5			198	7651	7651														
9			9			432	16670	16670														
10			10			491	18973	18973														
11			4			171	6589	6589														
12			6			261	10054	10054														
13			5			246	9480	9480														
14			4			184	7076	7076														
15			3			130	5021	5021														
16			1			8	299	299														
* QUANTITY CARRIED TO GENERAL NOTES ON SHEET 69																						
TOTALS CARRIED TO THE GENERAL SUMMARY		**2071**	**156**			**7629**	**294563**	**294563**	**LS**													
SHEET NO.																						

CALCULATED LRK

CHECKED PJF

SUBGRADE STABILIZATION SUBSUMMARY

SUM-77/277/224 VARIOUS

TOTALS CARRIED TO THE GENERAL SUMMARY

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA					AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	204 SUBGRADE COMPACTION	204 PROOF ROLLING (1 HOUR/2000 SY)		206 CEMENT (0.75 x T x 115 x 0.05) LB/SY	206 CURING COAT	206 CEMENT STABILIZED SUBGRADE, 12" DEEP								
FROM	TO		FT	FT			SF	SF					SF	SF	SF	SY	HOUR		TON	SY	SY								
		NORTHBOUND I.R. 77 CL																											
FULL DEPTH LANES																													
371+50.00	374+77.72	RT	327.72	48.34	0.9889		15666.14										0.870		45.04	1740.68	1740.68								
374+77.72	388+24.90	RT	1347.18	48.00			64664.64										3.592		185.91	7184.96	7184.96								
388+24.90	391+37.36	RT	312.46	60.00			18747.60										1.042		53.90	2083.07	2083.07								
391+37.36	404+59.11	RT	1321.75	60.00	1.0019		79455.68										4.414		228.44	8828.41	8828.41								
404+59.11	415+60.00	RT	1100.89	60.00			66053.40										3.670		189.90	7339.27	7339.27								
415+60.00	424+00.00	RT	840.00	54.00			45360.00										2.520		130.41	5040.00	5040.00								
424+00.00	424+94.20	RT	94.20	48.00			4521.60										0.251		13.00	502.40	502.40								
424+94.20	425+19.20	RT	25.00	48.00			1200.00										0.067		3.45	133.33	133.33								
426+74.77	426+99.77	RT	25.00	48.00			1200.00										0.067		3.45	133.33	133.33								
426+99.77	428+41.24	RT	141.47	48.00			6790.56										0.377		19.52	754.51	754.51								
428+41.24	428+93.61	RT	52.37	48.00	1.0025		2520.04										0.140		7.25	280.00	280.00								
431+07.76	448+23.91	RT	1716.15	48.00	1.0025		82581.14										4.588		237.42	9175.68	9175.68								
448+23.91	459+50.00	RT	1126.09	48.00			54052.32										3.003		155.40	6005.81	6005.81								
459+50.00	460+50.00	RT	100.00	54.00			5400.00										0.300		15.53	600.00	600.00								
460+50.00	469+46.33	RT	896.33	60.00			53779.80										2.988		154.62	5975.53	5975.53								
FULL DEPTH SHOULDER																													
371+50.00	371+67.11	RT/OUT	17.11	11.93	0.9808	0.9793	200.20						25.13				0.013		0.65	25.04	25.04								
388+24.90	391+37.36	RT/OUT	312.46	10.00			3124.60						468.69				0.200		10.33	399.25	399.25								
391+37.36	392+12.50	RT/OUT	75.14	10.00	1.0036	1.0038	754.11						113.14				0.048		2.49	96.36	96.36								
392+12.50	393+25.00	RT/OUT	112.50	7.75	1.0035	1.0037	874.93						169.37				0.058		3.00	116.03	116.03								
393+25.00	393+56.92	RT/OUT	31.92	5.50	1.0035	1.0036	176.17						48.05				0.012		0.64	24.91	24.91								
393+56.92	393+75.00	RT/OUT	18.08	5.50	1.0035	1.0036	99.79						27.22				0.007		0.37	14.11	14.11								
393+75.00	394+40.00	RT/OUT	65.00	5.50	1.0035	1.0036	358.75							108.72	119.60		0.033		1.69	65.23	65.23								
394+40.00	394+62.50	RT/OUT	22.50	7.75	1.0035	1.0037	174.99						33.87				0.012		0.60	23.21	23.21								
394+62.50	404+59.11	RT/OUT	996.61	10.00	1.0036	1.0038	10001.98						1500.60				0.639		33.07	1278.06	1278.06								
404+59.11	424+25.00	RT/OUT	1965.89	10.00			19658.90						2948.84				1.256		65.00	2511.97	2511.97								
424+25.00	424+61.65	RT/OUT	36.65	13.67			501.01						54.98				0.031		1.60	61.78	61.78								
424+61.65	424+81.61	RT/OUT	19.96	CADD				391.71					29.94				0.023		1.21	46.85	46.85								
424+81.61	424+88.47	RT/OUT	6.86	CADD				73.06					10.29				0.005		0.24	9.26	9.26								
424+88.47	425+06.61	RT/OUT	18.14	CADD				360.18					27.21				0.022		1.11	43.04	43.04								
426+62.18	426+84.43	RT/OUT	22.25	CADD				342.79					33.38				0.021		1.08	41.80	41.80								
426+84.43	426+87.13	RT/OUT	2.70	CADD				93.86					4.05				0.005		0.28	10.88	10.88								
426+87.13	426+92.46	RT/OUT	5.33	CADD				46.63					8.00				0.003		0.16	6.07	6.07								
426+92.46	428+41.24	RT/OUT	148.78	17.50			2603.65						223.17				0.157		8.13	314.09	314.09								
428+41.24	428+68.64	RT/OUT	27.40	17.50	1.0048	1.0054	481.80						41.32				0.029		1.50	58.12	58.12								
428+68.64	428+84.65	RT/OUT	16.01	CADD				314.72					24.02				0.019		0.97	37.64	37.64								
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																	**31**		**1578**	**60961**	**60961**								

CALCULATED LRK

CHECKED PJF

SUBGRADE STABILIZATION CALCULATIONS

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA					AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	204 SUBGRADE COMPACTION	204 PROOF ROLLING (1 HOUR/2000 SY)		206 CEMENT (0.75 x T x 115 x 0.05) LB/SY	206 CURING COAT	206 CEMENT STABILIZED SUBGRADE, 12" DEEP								
FROM	TO		FT	FT			SF	SF					SF	SF	SF	SY	HOUR		TON	SY	SY								
		NORTHBOUND I.R. 77 CL CONTD.																											
FULL DEPTH SHOULDER CONTD.																													
430+98.14	431+22.50	RT/OUT	24.36	CADD				392.74					36.54				0.024		1.23	47.70	47.70								
431+22.50	433+10.00	RT/OUT	187.50	13.75	1.0047	1.0052	2590.24						282.71				0.160		8.26	319.22	319.22								
433+10.00	448+23.91	RT/OUT	1513.91	10.00	1.0046	1.0049	15208.74						2281.99				0.972		50.29	1943.41	1943.41								
448+23.91	467+02.50	RT/OUT	1878.59	10.00			18785.90						2817.88				1.200		62.11	2400.42	2400.42								
467+02.50	468+15.00	RT/OUT	112.50	7.75			871.88						168.75				0.058		2.99	115.63	115.63								
468+15.00	468+46.85	RT/OUT	31.85	5.50			175.17						47.77				0.012		0.64	24.77	24.77								
468+46.85	468+65.00	RT/OUT	18.15	5.50			99.83						27.23				0.007		0.37	14.12	14.12								
468+65.00	469+23.83	RT/OUT	58.83	5.50			323.57							98.05	107.86		0.029		1.52	58.83	58.83								
469+23.83	469+46.33	RT/OUT	22.50	7.75			174.38						33.75				0.012		0.60	23.13	23.13								
371+50.00	377+02.12	RT/IN	552.12	CADD				12310.94									0.684		35.39	1367.88	1367.88								
377+02.12	380+50.00	RT/IN	347.88	15.53			5402.58										0.300		15.53	600.29	600.29								
380+50.00	391+37.36	RT/IN	1087.36	13.79			14994.69										0.833		43.11	1666.08	1666.08								
391+37.36	404+59.11	RT/IN	1321.75	12.00	1.0003	1.0006	15865.76										0.881		45.61	1762.86	1762.86								
404+59.11	425+03.33	RT/IN	2044.22	12.00			24530.64										1.363		70.53	2725.63	2725.63								
425+03.33	425+28.33	RT/IN	25.00	12.00			300.00										0.017		0.86	33.33	33.33								
426+83.90	427+08.90	RT/IN	25.00	12.00			300.00										0.017		0.86	33.33	33.33								
427+08.90	428+41.24	RT/IN	132.34	12.00			1588.08										0.088		4.57	176.45	176.45								
428+41.24	429+00.13	RT/IN	58.89	12.00	1.0004	1.0008	706.96										0.039		2.03	78.55	78.55								
431+14.75	448+23.91	RT/IN	1709.16	12.00	1.0004	1.0008	20518.12										1.140		58.99	2279.79	2279.79								
448+23.91	451+10.00	RT/IN	286.09	12.00			3433.08										0.191		9.87	381.45	381.45								
451+10.00	459+50.00	RT/IN	840.00	18.00			15120.00										0.840		43.47	1680.00	1680.00								
459+50.00	460+50.00	RT/IN	100.00	18.00			1800.00										0.100		5.18	200.00	200.00								
460+50.00	469+36.72	RT/IN	886.72	12.00			10640.64										0.591		30.59	1182.29	1182.29								
469+36.72	469+46.33	RT/IN	9.61	8.98			86.30										0.005		0.25	9.59	9.59								
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																	**10**		**495**	**19125**	**19125**								

CALCULATED LRK

CHECKED PJF

SUBGRADE STABILIZATION CALCULATIONS

SUM-77/277/224 VARIOUS

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA					AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	204 SUBGRADE COMPACTION	204 PROOF ROLLING (1 HOUR/2000 SY)		206 CEMENT (0.75 x T x 115 x 0.05) LB/SY	206 CURING COAT	206 CEMENT STABILIZED SUBGRADE, 12" DEEP								
FROM	TO		FT	FT			SF	SF					SF	SF	SF	SY	HOUR		TON	SY	SY								
		SOUTHBOUND I.R. 77 CL																											
FULL DEPTH LANES																													
391+37.36	392+00.00	LT	62.64	48.29	0.9981		3019.14										0.168		8.68	335.46	335.46								
392+00.00	398+00.00	LT	600.00	48.00	0.9982		28748.16										1.597		82.65	3194.24	3194.24								
398+00.00	404+59.11	LT	659.11	48.00	0.9983		31583.50										1.755		90.80	3509.28	3509.28								
404+59.11	425+16.12	LT	2057.01	48.00			98736.48										5.485		283.87	10970.72	10970.72								
425+16.12	425+41.12	LT	25.00	48.00			1200.00										0.067		3.45	133.33	133.33								
426+96.69	427+21.69	LT	25.00	48.00			1200.00										0.067		3.45	133.33	133.33								
427+21.69	428+41.24	LT	119.55	48.00			5738.40										0.319		16.50	637.60	637.60								
428+41.24	429+09.29	LT	68.05	48.00	0.9975		3258.23										0.181		9.37	362.03	362.03								
431+24.58	431+50.00	LT	25.42	48.00	0.9975		1217.11										0.068		3.50	135.23	135.23								
431+50.00	439+90.00	LT	840.00	54.00	0.9973		45237.53										2.513		130.06	5026.39	5026.39								
439+90.00	448+23.91	LT	833.91	60.00	0.9970		49884.50										2.771		143.42	5542.72	5542.72								
448+23.91	469+46.33	LT	2122.42	60.00			127345.20										7.075		366.12	14149.47	14149.47								
FULL DEPTH SHOULDER																													
391+37.36	392+00.00	LT/OUT	62.64	11.14	0.9967	0.9964	695.51						93.62				0.044		2.27	87.68	87.68								
392+00.00	393+85.00	LT/OUT	185.00	10.00	0.9968	0.9965	1844.08						276.53				0.118		6.10	235.62	235.62								
393+85.00	394+54.30	LT/OUT	69.30	10.00	0.9968	0.9966	690.78							115.11	126.62		0.052		2.68	103.61	103.61								
394+54.30	394+72.51	LT/OUT	18.21	10.00	0.9968	0.9966	181.52						27.22				0.012		0.60	23.19	23.19								
394+72.51	398+00.00	LT/OUT	327.49	10.00	0.9969	0.9967	3264.75						489.61				0.209		10.79	417.15	417.15								
398+00.00	404+59.11	LT/OUT	659.11	10.00	0.9970	0.9968	6571.33						985.50				0.420		21.73	839.65	839.65								
404+59.11	423+55.00	LT/OUT	1895.89	10.00			18958.90						2843.84				1.211		62.68	2422.53	2422.53								
423+55.00	425+28.59	LT/OUT	173.59	CADD				2294.84					260.38				0.142		7.35	283.91	283.91								
425+28.59	425+53.84	LT/OUT	25.25	CADD				435.86					37.88				0.026		1.36	52.64	52.64								
427+09.41	427+34.41	LT/OUT	25.00	CADD				444.49					37.50				0.027		1.39	53.55	53.55								
427+34.41	427+52.06	LT/OUT	17.65	CADD				361.87					26.47				0.022		1.12	43.15	43.15								
427+52.06	427+60.00	LT/OUT	7.94	17.78			141.17						11.91				0.009		0.44	17.01	17.01								
427+60.00	427+67.00	LT/OUT	7.00	17.64			123.48						10.50				0.007		0.39	14.89	14.89								
427+67.00	428+41.24	LT/OUT	74.24	17.50			1299.20						111.36				0.078		4.06	156.73	156.73								
428+41.24	429+18.40	LT/OUT	77.16	CADD				1310.34					115.74				0.079		4.10	158.45	158.45								
431+34.35	431+80.00	LT/OUT	45.65	CADD				824.53					68.48				0.050		2.57	99.22	99.22								
431+80.00	432+13.00	LT/OUT	33.00	13.54	0.9953	0.9948	444.72						49.24				0.027		1.42	54.88	54.88								
432+13.00	439+90.00	LT/OUT	777.00	10.00	0.9950	0.9946	7731.15						1159.21				0.494		25.56	987.82	987.82								
439+90.00	448+23.91	LT/OUT	833.91	10.00	0.9946	0.9942	8294.07						1243.61				0.530		27.42	1059.74	1059.74								
448+23.91	468+67.50	LT/OUT	2043.59	10.00			20435.90						3065.38				1.306		67.57	2611.25	2611.25								
468+67.50	468+90.00	LT/OUT	22.50	7.75			174.38						33.75				0.012		0.60	23.13	23.13								
468+90.00	469+15.00	LT/OUT	25.00	5.50			137.50						37.50				0.010		0.50	19.44	19.44								
469+15.00	469+46.33	LT/OUT	31.33	5.50			172.32							52.22	57.44		0.016		0.81	31.33	31.33								
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																	27		1396	53927	53927								

CALCULATED LRK

CHECKED PJF

SUBGRADE STABILIZATION CALCULATIONS

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA					AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	204 SUBGRADE COMPACTION	204 PROOF ROLLING (1 HOUR/2000 SY)		206 CEMENT (0.75 x T x 115 x 0.05) LB/SY	206 CURING COAT	206 CEMENT STABILIZED SUBGRADE, 12" DEEP								
			FT	FT			SF	SF					SF	SF	SF	SY	HOUR		TON	SY	SY								
		SOUTHBOUND I.R. 77 CL CONTD.																											
FULL DEPTH SHOULDER CONTD.																													
375+92.24	376+20.24	LT/IN	28.00	13.72			384.16										0.021		1.10	42.68	42.68								
391+37.36	392+00.00	LT/IN	62.64	17.78	0.9996	0.9992	1113.29										0.062		3.20	123.70	123.70								
392+00.00	398+00.00	LT/IN	600.00	15.00	0.9997	0.9993	8997.30										0.500		25.87	999.70	999.70								
398+00.00	404+59.11	LT/IN	659.11	12.00	0.9997	0.9994	7906.95										0.439		22.73	878.55	878.55								
404+59.11	425+06.99	LT/IN	2047.88	12.00			24574.56										1.365		70.65	2730.51	2730.51								
425+06.99	425+31.99	LT/IN	25.00	12.00			300.00										0.017		0.86	33.33	33.33								
426+87.55	427+12.55	LT/IN	25.00	12.00			300.00										0.017		0.86	33.33	33.33								
427+12.55	428+41.24	LT/IN	128.69	12.00			1544.28										0.086		4.44	171.59	171.59								
428+41.24	429+02.74	LT/IN	61.50	12.00	0.9996	0.9992	737.70										0.041		2.12	81.97	81.97								
431+17.55	448+23.91	LT/IN	1706.36	12.00	0.9996	0.9992	20468.13										1.137		58.85	2274.24	2274.24								
448+23.91	469+36.71	LT/IN	2112.80	12.00			25353.60										1.409		72.89	2817.07	2817.07								
469+36.71	469+46.33	LT/IN	9.62	8.99			86.48										0.005		0.25	9.61	9.61								
		NORTHBOUND I.R. 77 BL																											
FULL DEPTH LANES																													
469+46.96	472+26.99	LT	280.03	12.00			3360.36										0.187		9.66	373.37	373.37								
472+26.99	474+93.14	LT	266.15	12.00			3193.80										0.177		9.18	354.87	354.87								
474+93.14	485+64.96	LT	1071.82	12.00	0.9985		12842.55										0.713		36.92	1426.95	1426.95								
469+46.96	472+26.99	RT	280.03	48.00			13441.44										0.747		38.64	1493.49	1493.49								
472+26.99	474+93.14	RT	266.15	48.00			12775.20										0.710		36.73	1419.47	1419.47								
474+93.14	476+00.00	RT	106.86	48.00	1.0061		5160.57										0.287		14.84	573.40	573.40								
476+00.00	495+75.59	RT	1975.59	36.00	1.0046		71448.40										3.969		205.41	7938.71	7938.71								
495+75.59	502+11.45	RT	635.86	36.00			22890.96										1.272		65.81	2543.44	2543.44								
502+11.45	506+65.75	RT	454.30	43.46			19743.88										1.097		56.76	2193.76	2193.76								
506+65.75	508+11.45	RT	145.70	37.46	0.9959		5435.54										0.302		15.63	603.95	603.95								
508+11.45	510+65.75	RT	254.30	36.00	0.9961		9119.10										0.507		26.22	1013.23	1013.23								
510+65.75	514+85.00	RT	419.25	36.00	0.9921		14973.77										0.832		43.05	1663.75	1663.75								
FULL DEPTH SHOULDER																													
469+46.96	469+77.12	LT	30.16	9.53			287.42										0.016		0.83	31.94	31.94								
469+77.12	472+26.99	LT	249.87	10.00			2498.70										0.139		7.18	277.63	277.63								
472+26.99	474+93.14	LT	266.15	10.00			2661.50										0.148		7.65	295.72	295.72								
474+93.14	475+50.00	LT	56.86	10.00	0.9956	0.9944	566.10										0.032		1.63	63.01	63.01								
475+50.00	475+64.00	LT	14.00	10.00	0.9956	0.9944	139.38							23.20	25.52		0.009		0.47	18.17	18.17								
475+64.00	476+05.00	LT	41.00	10.00	0.9956	0.9944	408.20						61.16				0.026		1.35	52.26	52.26								
476+05.00	485+64.96	LT	959.96	10.00	0.9956	0.9944	9557.36						1431.88				0.611		31.60	1221.14	1221.14								
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																	**17**		**874**	**33755**	**33755**								

CALCULATED LRK

CHECKED PJF

SUBGRADE STABILIZATION CALCULATIONS

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA				AREA FOR 22.875" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	204 SUBGRADE COMPACTION	204 PROOF ROLLING (1 HOUR/2000 SY)		206 CEMENT (0.75 x T x 115 x 0.05) LB/SY	206 CURING COAT	206 CEMENT STABILIZED SUBGRADE, 12" DEEP								
			FT	FT			SF	SF				SF	SF	SF	SF	SY	HOUR		TON	SY	SY								
		NORTHBOUND I.R. 77 BL CONTD.																											
FULL DEPTH SHOULDER CONTD.																													
494+84.83	495+75.59	LT	90.76	10.00	0.9987	0.9974	906.42							150.87	165.96		0.068		3.52	135.92	135.92								
495+75.59	496+00.00	LT	24.41	10.00			244.10							40.68	44.75		0.018		0.95	36.61	36.61								
496+00.00	506+65.75	LT	1065.75	10.00			10657.50						1598.63				0.681		35.24	1361.79	1361.79								
506+65.75	510+65.75	LT	400.00	10.00	1.0011	1.0022	4004.40						601.32				0.256		13.24	511.75	511.75								
510+65.75	514+12.50	LT	346.75	10.00	1.0022	1.0044	3475.13						522.41				0.222		11.49	444.17	444.17								
514+12.50	514+85.00	LT	72.50	8.55	1.0019	1.0037	621.05						109.15				0.041		2.10	81.13	81.13								
469+46.96	472+26.99	RT	280.03	10.00			2800.30						420.04				0.179		9.26	357.82	357.82								
472+26.99	474+93.14	RT	266.15	10.00			2661.50						399.23				0.170		8.80	340.08	340.08								
474+93.14	476+00.00	RT	106.86	10.00	1.0136	1.0149	1083.13						162.68				0.069		3.58	138.42	138.42								
													0.00																
481+17.43	490+82.07	RT	964.64	10.00	1.0105	1.0118	9747.69						1464.03				0.623		32.23	1245.75	1245.75								
490+82.07	491+00.00	RT	17.93	10.00	1.0105	1.0118	181.18						27.21				0.012		0.60	23.15	23.15								
491+00.00	491+59.27	RT	59.27	10.00	1.0105	1.0118	598.92					114.32			109.94		0.046		2.37	91.46	91.46								
491+59.27	493+70.87	RT	211.60	10.00	1.0105	1.0118	2138.22						321.15				0.137		7.07	273.26	273.26								
502+11.45	506+65.75	RT	454.30	8.00			3634.40						681.45				0.240		12.41	479.54	479.54								
506+65.75	507+11.53	RT	45.78	8.00	0.9907	0.9899	362.83						67.98				0.024		1.24	47.87	47.87								
507+11.53	507+42.24	RT	30.71	8.31	0.9909	0.9900	252.88						45.60				0.017		0.86	33.16	33.16								
		SOUTHBOUND I.R. 77 BL																											
FULL DEPTH LANES																													
469+42.49	472+54.68	LT	312.19	60.00			18731.40										1.041		53.85	2081.27	2081.27								
472+54.68	486+63.69	LT	1409.01	60.00	0.9923		83889.64										4.661		241.18	9321.07	9321.07								
486+63.69	492+81.37	LT	617.68	36.00	0.9954		22134.19										1.230		63.64	2459.35	2459.35								
492+81.37	494+44.48	LT	163.11	36.00			5871.96										0.326		16.88	652.44	652.44								
494+44.48	502+03.04	LT	758.56	43.59			33065.63										1.837		95.06	3673.96	3673.96								
502+03.04	502+43.78	LT	40.74	51.59	1.0045		2111.23										0.117		6.07	234.58	234.58								
502+43.78	506+03.04	LT	359.26	36.00	1.0031		12973.45										0.721		37.30	1441.49	1441.49								
506+03.04	514+95.00	LT	891.96	36.00	1.0063		32312.86										1.795		92.90	3590.32	3590.32								
501+48.92	502+03.04	RT	54.12	12.00			649.44										0.036		1.87	72.16	72.16								
502+03.04	503+95.44	RT	192.40	12.00	0.9990		2306.49										0.128		6.63	256.28	256.28								
503+95.44	504+95.44	RT	100.00	6.00	0.9995		599.70										0.033		1.72	66.63	66.63								
FULL DEPTH SHOULDER																													
469+42.49	469+62.50	LT	20.01	5.50			110.06							33.35	36.69		0.010		0.52	20.01	20.01								
469+62.50	469+80.65	LT	18.15	5.50			99.83						27.23				0.007		0.37	14.12	14.12								
469+80.65	470+12.50	LT	31.85	5.50			175.17						47.77				0.012		0.64	24.77	24.77								
470+12.50	471+25.00	LT	112.50	7.75			871.88						168.75				0.058		2.99	115.63	115.63								
471+25.00	472+54.68	LT	129.68	10.00			1296.80						194.52				0.083		4.29	165.70	165.70								
472+54.68	486+63.69	LT	1409.01	10.00	0.9834	0.9821	13856.20						2075.68				0.885		45.80	1770.21	1770.21								
494+44.48	495+44.48	LT	100.00	9.00			900.00						150.00				0.058		3.02	116.67	116.67								
495+44.48	500+45.03	LT	500.55	8.00			4004.40						750.82				0.264		13.67	528.36	528.36								
500+45.03	502+00.00	LT	154.97	8.00			1239.76							258.28	284.11		0.099		5.12	198.02	198.02								
502+00.00	502+03.04	LT	3.04	8.00			24.32						4.56				0.002		0.08	3.21	3.21								
502+03.04	502+18.14	LT	15.10	8.00	1.0097	1.0104	121.97						22.89				0.008		0.42	16.10	16.10								
502+18.14	502+43.78	LT	25.64	8.00	1.0097	1.0104	207.11						38.86				0.014		0.71	27.33	27.33								
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																	**17**		**840**	**32452**	**32452**								

CALCULATED LRK

CHECKED PJF

SUBGRADE STABILIZATION CALCULATIONS

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA				AREA FOR 22.875" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	204 SUBGRADE COMPACTION	204 PROOF ROLLING (1 HOUR/2000 SY)		206 CEMENT (0.75 x T x 115 x 0.05) LB/SY	206 CURING COAT	206 CEMENT STABILIZED SUBGRADE, 12" DEEP								
FROM	TO		FT	FT			SF	SF				SF	SF	SF	SF	SY	HOUR		TON	SY	SY								
		SOUTHBOUND I.R. 77 BL CONTD.																											
FULL DEPTH SHOULDER CONTD.																													
506+28.88	508+63.78	LT	234.90	10.00	1.0143	1.0161	2382.59						358.02				0.152		7.88	304.51	304.51								
508+63.78	509+30.71	LT	66.93	10.00	1.0143	1.0161	678.87							113.35	124.68		0.051		2.64	101.88	101.88								
509+30.71	509+48.56	LT	17.85	10.00	1.0143	1.0161	181.05						27.21				0.012		0.60	23.14	23.14								
509+48.56	514+95.00	LT	546.44	10.00	1.0143	1.0161	5542.54						832.86				0.354		18.33	708.38	708.38								
469+42.49	469+72.74	RT	30.25	9.53			288.28										0.016		0.83	32.03	32.03								
469+72.74	470+07.74	RT	35.00	10.00			350.00					66.72			64.17		0.027		1.38	53.43	53.43								
470+07.74	472+54.68	RT	246.94	10.00			2469.40							411.57	452.72		0.185		9.58	370.41	370.41								
472+54.68	473+95.11	RT	140.43	10.00	1.0013	1.0026	1406.13							234.66	258.12		0.105		5.46	210.99	210.99								
473+95.11	474+13.21	RT	18.10	10.00	1.0013	1.0026	181.24						27.22				0.012		0.60	23.16	23.16								
474+13.21	492+81.37	RT	1868.16	10.00	1.0013	1.0026	18705.89						2809.53				1.195		61.86	2390.60	2390.60								
492+81.37	494+44.48	RT	163.11	10.00			1631.10						244.67				0.104		5.39	208.42	208.42								
494+44.48	496+94.61	RT	250.13	10.00			2501.30						375.19				0.160		8.27	319.61	319.61								
501+48.92	501+52.18	RT	3.26	8.00			26.08						4.89				0.002		0.09	3.44	3.44								
501+52.18	502+03.04	RT	50.86	8.00			406.88						76.29				0.027		1.39	53.69	53.69								
502+03.04	503+95.44	RT	192.40	8.00	0.9972	0.9965	1534.89						287.59				0.101		5.24	202.50	202.50								
503+95.44	504+95.44	RT	100.00	9.00	0.9971	0.9963	897.39						149.45				0.058		3.01	116.32	116.32								
504+95.44	506+03.04	RT	107.60	10.00	0.9991	0.9983	1075.03						161.13				0.069		3.55	137.35	137.35								
506+03.04	507+75.00	RT	171.96	10.00	0.9983	0.9965	1716.68						257.04				0.110		5.67	219.30	219.30								
507+75.00	507+94.00	RT	19.00	8.50	0.9985	0.9970	161.26						28.41				0.011		0.55	21.07	21.07								
507+94.00	508+04.86	RT	10.86	7.00	0.9988	0.9976	75.93						16.25				0.005		0.26	10.24	10.24								
508+04.86	508+73.02	RT	68.16	7.00	0.9988	0.9976	476.55							113.33	124.66		0.040		2.05	79.39	79.39								
508+73.02	508+91.21	RT	18.19	7.00	0.9988	0.9976	127.18						27.22				0.009		0.44	17.16	17.16								
508+91.21	509+25.00	RT	33.79	7.00	0.9988	0.9976	236.25						50.56				0.016		0.82	31.87	31.87								
509+25.00	510+00.00	RT	75.00	8.50	0.9985	0.9970	636.54						112.16				0.042		2.15	83.19	83.19								
510+00.00	514+95.00	RT	495.00	10.00	0.9983	0.9965	4941.59						739.90				0.316		16.33	631.28	631.28								
		GORE AREAS																											
NORTHBOUND I.R. 77/ARLINGTON RD. RAMP D																													
371+67.11	386+24.74	RT			CADD			17840.12									0.991		51.29	1982.24	1982.24								
NORTHBOUND I.R. 77/RAMP C																													
477+51.03	481+17.43	RT			CADD			3272.79									0.182		9.41	363.64	363.64								
NORTHBOUND I.R. 77/RAMP B-2																													
490+94.61	494+84.83	LT			CADD			4263.43									0.237		12.26	473.71	473.71								
NORTHBOUND I.R. 77/RAMP C-1																													
493+70.87	500+11.29	RT			CADD			4654.20									0.259		13.38	517.13	517.13								
NORTHBOUND I.R. 77/RAMP D																													
507+42.24	514+85.00	RT			CADD			6205.23									0.345		17.84	689.47	689.47								
SOUTHBOUND I.R. 77/RAMP A																													
486+63.69	494+44.48	LT			CADD			5756.26									0.320		16.55	639.58	639.58								
SOUTHBOUND I.R. 77/RAMP C-2																													
496+94.61	499+73.79	RT			CADD			2732.84									0.152		7.86	303.65	303.65								
SOUTHBOUND I.R. 77/RAMP B-1																													
502+43.78	506+28.88	LT			CADD			2851.31									0.158		8.20	316.81	316.81								
RAMP B-2/RAMP B																													
15+45.66	24+64.81	RT			CADD			6723.26									0.374		19.33	747.03	747.03								
RAMP C/RAMP C-2																													
592+97.65	594+99.78	LT			CADD			1287.70									0.072		3.70	143.08	143.08								
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																	**7**		**325**	**12530**	**12530**								

CALCULATED LRK

CHECKED PJF

SUBGRADE STABILIZATION CALCULATIONS

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA					AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	204 SUBGRADE COMPACTION	204 PROOF ROLLING (1 HOUR/2000 SY)		206 CEMENT (0.75 x T x 115 x 0.05) LB/SY	206 CURING COAT	206 CEMENT STABILIZED SUBGRADE, 12" DEEP								
FROM	TO		FT	FT			SF	SF					SF	SF	SF	SY	HOUR		TON	SY	SY								
GORE AREAS CONTD.																													
EASTBOUND I.R. 277/U.S. 224/RAMP A																													
242+62.73	245+79.53	RT			CADD			3850.68									0.214		11.07	427.85	427.85								
EASTBOUND I.R. 277/U.S. 224/RAMP C-1																													
258+30.01	260+76.94	RT			CADD			2416.60									0.134		6.95	268.51	268.51								
EASTBOUND I.R. 277/U.S. 224/RAMP C																													
271+44.10	277+49.84	RT			CADD			4499.70									0.250		12.94	499.97	499.97								
WESTBOUND I.R. 277/U.S. 224/RAMP B-2																													
225+00.00	235+63.23	LT			CADD			11404.51									0.634		32.79	1267.17	1267.17								
WESTBOUND I.R. 277/U.S. 224/RAMP B-1																													
247+80.74	250+78.79	LT			CADD			2906.77									0.161		8.36	322.97	322.97								
WESTBOUND I.R. 277/U.S. 224/RAMP D																													
264+70.74	268+04.44	LT			CADD			2993.91									0.166		8.61	332.66	332.66								
APPROACH SLABS																													
SUM-77-0802L/R																													
425+30.16	425+55.16	LT/RT	25.00		CADD			3877.73					37.50			439.19	0.220												
426+60.73	426+85.73	LT/RT	25.00		CADD			3877.73					37.50			439.19	0.220												
SUM-77-0810L/R																													
429+01.43	429+28.48	LT/RT	27.05		CADD			4276.63					40.58			484.20	0.242												
430+89.09	431+16.15	LT/RT	27.06		CADD			4278.73					40.59			484.43	0.242												
SUM-77-0927R																													
789+07.95	789+37.95	LT/RT	30.00		CADD			892.04					45.00			109.12	0.055												
792+85.70	793+17.70	LT/RT	32.00		CADD			930.59					48.00			114.07	0.057												
ARLINGTON RD. RAMP D																													
FULL DEPTH LANES																													
71+69.06	75+16.71	LT	347.65	16.00	1.0021		5574.08										0.310		16.03	619.34	619.34								
75+16.71	86+18.37	LT	1101.66	16.00			17626.56										0.979		50.68	1958.51	1958.51								
86+18.37	88+18.25	LT	199.88	14.00			2798.32										0.155		8.05	310.92	310.92								
71+69.06	74+47.06	RT	278.00	2.78	0.9996		772.53										0.043		2.22	85.84	85.84								
FULL DEPTH SHOULDER																													
71+69.06	72+67.31	RT	98.25	7.97	0.9978	0.9967	781.33						146.89				0.052		2.67	103.14	103.14								
72+67.31	74+47.06	RT	179.75	6.00	0.9987	0.9980	1077.10						269.09				0.075		3.87	149.58	149.58								
74+47.06	75+16.71	RT	69.65	6.00	0.9992	0.9984	417.57						104.31				0.029		1.50	57.99	57.99								
75+16.71	81+17.83	RT	601.12	6.00			3606.72						901.68				0.250		12.96	500.93	500.93								
81+17.83	81+67.80	RT	49.97	7.00			349.79						74.96				0.024		1.22	47.19	47.19								
81+67.80	87+18.15	RT	550.35	8.00			4402.80						825.52				0.290		15.03	580.92	580.92								
87+18.15	88+18.25	RT	100.10	9.00			900.90						150.15				0.058		3.02	116.78	116.78								
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																**2071**	**5**		**198**	**7651**	**7651**								

CALCULATED LRK

CHECKED PJF

SUBGRADE STABILIZATION CALCULATIONS

SUM-77/277/224 VARIOUS

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA					AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	204 SUBGRADE COMPACTION	204 PROOF ROLLING (1 HOUR/2000 SY)		206 CEMENT (0.75 x T x 115 x 0.05) LB/SY	206 CURING COAT	206 CEMENT STABILIZED SUBGRADE, 12" DEEP								
FROM	TO		FT	FT			SF	SF					SF	SF	SF	SY	HOUR		TON	SY	SY								
			RAMP A																										
FULL DEPTH LANES																													
86+63.69	90+70.00	RT	406.31	24.00	1.0042		9792.40										0.544		28.15	1088.04	1088.04								
90+70.00	93+70.00	RT	300.00	24.00	1.0060		7243.20										0.402		20.82	804.80	804.80								
93+70.00	104+55.37	RT	1085.37	24.00	1.0079		26254.67										1.459		75.48	2917.19	2917.19								
104+55.37	106+55.37	RT	200.00	24.00	1.0045		4821.60										0.268		13.86	535.73	535.73								
106+55.37	108+89.94	RT	234.57	24.00	1.0012		5636.44										0.313		16.20	626.27	626.27								
108+89.94	114+13.78	RT	523.84	12.00	1.0006		6289.85										0.349		18.08	698.87	698.87								
108+89.94	114+13.78	RT	523.84	CADD				2447.88									0.136		7.04	271.99	271.99								
237+00.00 (I.R. 277)	237+37.85 (I.R. 277)	RT	37.85	11.71			443.22										0.025		1.27	49.25	49.25								
FULL DEPTH SHOULDER																													
86+63.69	90+70.00	LT	406.31	10.00	0.9983	0.9965	4056.19						607.33				0.259		13.41	518.17	518.17								
90+70.00	93+70.00	LT	300.00	10.00	0.9975	0.9950	2992.50						447.75				0.191		9.89	382.25	382.25								
93+70.00	104+55.37	LT	1085.37	10.00	0.9967	0.9935	10817.88						1617.47				0.691		35.75	1381.71	1381.71								
104+55.37	106+55.37	LT	200.00	10.00	0.9981	0.9962	1996.20						298.86				0.128		6.60	255.01	255.01								
106+55.37	114+03.67	LT	748.30	10.00	0.9995	0.9990	7479.26						1121.33				0.478		24.73	955.62	955.62								
114+03.67	114+13.78	LT	10.11	10.20	0.9995	0.9990	103.07						15.15				0.007		0.34	13.14	13.14								
94+31.42	94+50.00	RT	18.58	CADD				74.59					27.87				0.006		0.29	11.38	11.38								
94+50.00	104+55.37	RT	1005.37	4.00	1.0170	1.0183	4089.85						1535.65				0.313		16.17	625.06	625.06								
104+55.37	105+73.54	RT	118.17	CADD				477.67					177.26				0.036		1.88	72.77	72.77								
237+00.00 (I.R. 277)	237+37.85 (I.R. 277)	RT	37.85	11.16			422.41						56.78				0.027		1.38	53.24	53.24								
			RAMP B																										
FULL DEPTH LANES																													
197+05.36	199+05.36	RT	200.00	16.00	1.0047		3215.04										0.179		9.24	357.23	357.23								
199+05.36	203+99.50	RT	494.14	16.00	1.0094		7980.56										0.443		22.94	886.73	886.73								
203+99.50	205+99.50	RT	200.00	16.00	1.0047		3215.04										0.179		9.24	357.23	357.23								
205+99.50	207+73.39	RT	173.89	16.00			2782.24										0.155		8.00	309.14	309.14								
207+73.39	209+73.39	RT	200.00	16.00	1.0056		3217.92										0.179		9.25	357.55	357.55								
209+73.39	213+58.80	RT	385.41	16.00	1.0112		6235.63										0.346		17.93	692.85	692.85								
213+58.80	214+90.00	RT	131.20	16.00	1.0056		2110.96										0.117		6.07	234.55	234.55								
FULL DEPTH SHOULDER																													
197+05.36	198+05.36	LT	100.00	9.00	0.9973	0.9947	897.57						149.21				0.058		3.01	116.31	116.31								
198+05.36	199+05.36	LT	100.00	8.00	0.9976	0.9953	798.08						149.30				0.053		2.72	105.26	105.26								
199+05.36	203+99.50	LT	494.14	8.00	0.9953	0.9906	3934.54						734.24				0.259		13.42	518.75	518.75								
203+99.50	204+49.50	LT	50.00	7.00	0.9979	0.9959	349.27						74.69				0.024		1.22	47.11	47.11								
204+49.50	205+99.50	LT	150.00	6.00	0.9982	0.9965	898.38						224.21				0.062		3.23	124.73	124.73								
205+99.50	207+73.39	LT	173.89	6.00			1043.34						260.83				0.072		3.75	144.91	144.91								
207+73.39	209+73.39	LT	200.00	6.00	0.9979	0.9958	1197.48						298.74				0.083		4.30	166.25	166.25								
209+73.39	213+58.80	LT	385.41	6.00	0.9958	0.9916	2302.75						573.26				0.160		8.27	319.56	319.56								
213+58.80	214+90.00	LT	131.20	6.00	0.9979	0.9958	785.55						195.97				0.055		2.82	109.06	109.06								
205+85.45	205+99.50	RT	14.05	CADD				55.74					21.07				0.004		0.22	8.53	8.53								
205+99.50	207+73.39	RT	173.89	4.00			695.56						260.83				0.053		2.75	106.27	106.27								
207+73.39	209+73.39	RT	200.00	4.00	1.0126	1.0140	810.08						304.20				0.062		3.20	123.81	123.81								
209+73.39	213+58.80	RT	385.41	4.00	1.0251	1.0279	1580.34						594.24				0.121		6.25	241.62	241.62								
213+58.80	214+90.00	RT	131.20	4.00	1.0126	1.0140	531.41						199.56				0.041		2.10	81.22	81.22								
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																	**9**		**432**	**16670**	**16670**								

CALCULATED LRK

CHECKED PJF

SUBGRADE STABILIZATION CALCULATIONS

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA					AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	204 SUBGRADE COMPACTION	204 PROOF ROLLING (1 HOUR/2000 SY)		206 CEMENT (0.75 x T x 115 x 0.05) LB/SY	206 CURING COAT	206 CEMENT STABILIZED SUBGRADE, 12" DEEP								
FROM	TO		FT	FT			SF	SF					SF	SF	SF	SY	HOUR		TON	SY	SY								
			RAMP B-1																										
FULL DEPTH LANES																													
402+43.78	405+01.68	RT	257.90	16.00			4126.40										0.229		11.86	458.49	458.49								
405+01.68	406+31.76	RT	130.08	16.00	1.0082		2098.35										0.117		6.03	233.15	233.15								
406+31.76	407+01.68	RT	69.92	16.00	1.0082		1127.89										0.063		3.24	125.32	125.32								
407+01.68	408+50.17	RT	148.49	16.00	1.0164		2414.80										0.134		6.94	268.31	268.31								
408+50.17	415+62.45	RT	712.28	16.00	1.0335		11778.26										0.654		33.86	1308.70	1308.70								
415+62.45	417+62.45	RT	200.00	16.00	1.0176		3256.32										0.181		9.36	361.81	361.81								
417+62.45	418+55.68	RT	93.23	16.00	1.0017		1494.22										0.083		4.30	166.02	166.02								
418+55.68	421+45.82	RT	290.14	CADD				4143.69									0.230		11.91	460.41	460.41								
FULL DEPTH SHOULDER																													
402+43.78	405+01.68	LT	257.90	8.00			2063.20						386.85				0.136		7.04	272.23	272.23								
405+01.68	405+51.68	LT	50.00	7.00	0.9964	0.9928	348.74						74.46				0.024		1.22	47.02	47.02								
405+51.68	406+31.76	LT	80.08	6.00	0.9969	0.9938	478.99						119.38				0.033		1.72	66.49	66.49								
406+31.76	407+01.68	LT	69.92	6.00	0.9969	0.9938	418.22						104.23				0.029		1.50	58.05	58.05								
407+01.68	408+50.17	LT	148.49	6.00	0.9938	0.9877	885.42						220.00				0.061		3.18	122.82	122.82								
408+50.17	415+62.45	LT	712.28	6.00	0.9874	0.9749	4219.83						1041.60				0.292		15.13	584.60	584.60								
415+62.45	417+55.68	LT	193.23	6.00	0.9934	0.9868	1151.73						286.02				0.080		4.13	159.75	159.75								
417+55.68	417+62.45	LT	6.77	6.14	0.9932	0.9865	41.29						10.02				0.003		0.15	5.70	5.70								
417+62.45	418+55.68	LT	93.23	8.14	0.9991	0.9982	758.21						139.59				0.050		2.58	99.76	99.76								
418+55.68	421+31.93	LT	276.25	10.00	0.9989	0.9978	2759.46						413.46				0.176		9.12	352.55	352.55								
421+31.93	421+36.23	LT	4.30	10.00	0.9989	0.9978	42.95										0.002		0.12	4.77	4.77								
406+31.21	407+01.68	RT	70.47	CADD				216.80					105.71				0.018		0.93	35.83	35.83								
407+01.68	408+50.17	RT	148.49	3.00	1.0359	1.0390	461.46						231.42				0.038		1.99	76.99	76.99								
408+50.17	415+62.45	RT	712.28	3.00	1.0733	1.0796	2293.47						1153.47				0.191		9.91	382.99	382.99								
415+62.45	417+62.45	RT	200.00	3.00	1.0386	1.0419	623.16						312.57				0.052		2.69	103.97	103.97								
417+62.45	418+55.99	RT	93.54	CADD				281.22					140.31				0.023		1.21	46.84	46.84								
			RAMP B-2																										
FULL DEPTH LANES																													
285+64.96	290+91.54	RT	526.58	12.00	1.0021		6332.23										0.352		18.21	703.58	703.58								
285+64.96	290+91.54	RT	526.58	CADD				2117.76									0.118		6.09	235.31	235.31								
290+91.54	294+71.25	RT	379.71	24.00	1.0041		9150.40										0.508		26.31	1016.71	1016.71								
294+71.25	297+94.13	RT	322.88	24.00			7749.12										0.431		22.28	861.01	861.01								
297+94.13	300+94.13	RT	300.00	24.00	0.9979		7184.88										0.399		20.66	798.32	798.32								
300+94.13	305+30.56	RT	436.43	24.00			10474.32										0.582		30.11	1163.81	1163.81								
305+30.56	307+30.56	RT	200.00	25.50	1.0135		5168.85										0.287		14.86	574.32	574.32								
307+30.56	307+96.22	RT	65.66	27.00	1.0288		1823.88										0.101		5.24	202.65	202.65								
307+96.22	7+39.01	RT	22.37	CADD				636.72									0.035		1.83	70.75	70.75								
9+90.81	9+97.74	RT	6.93	CADD				192.13									0.011		0.55	21.35	21.35								
9+97.74	10+00.00	RT	2.26	27.00	1.0288		62.78										0.003		0.18	6.98	6.98								
10+00.00	11+00.00	RT	100.00	27.00	1.0285		2776.95										0.154		7.98	308.55	308.55								
11+00.00	13+87.73	RT	287.73	27.00	1.0283		7988.56										0.444		22.97	887.62	887.62								
13+87.73	19+62.73	RT	575.00	27.00	0.9920		15400.80										0.856		44.28	1711.20	1711.20								
19+62.73	22+39.81	RT	277.08	27.00	0.9841		7362.21										0.409		21.17	818.02	818.02								
22+39.81	24+64.81	RT	225.00	25.50	0.9925		5694.47										0.316		16.37	632.72	632.72								
24+64.81	32+64.81	RT	800.00	32.00			25600.00										1.422		73.60	2844.44	2844.44								
32+64.81	33+82.00	RT	117.19	24.00			2812.56										0.156		8.09	312.51	312.51								
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																	**10**		**491**	**18973**	**18973**								

CALCULATED LRK

CHECKED PJF

SUBGRADE STABILIZATION CALCULATIONS

SUM-77/277/224 VARIOUS

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA				AREA FOR 22.875" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	204 SUBGRADE COMPACTION	204 PROOF ROLLING (1 HOUR/2000 SY)		206 CEMENT (0.75 x T x 115 x 0.05) LB/SY	206 CURING COAT	206 CEMENT STABILIZED SUBGRADE, 12" DEEP								
FROM	TO		FT	FT			SF	SF				SF	SF	SF	SF	SY	HOUR		TON	SY	SY								
			RAMP B-2 CONTD.																										
FULL DEPTH SHOULDER																													
285+64.96	292+13.63	LT	648.67	10.00	0.9983	0.9966	6475.67						969.70				0.414		21.41	827.26	827.26								
292+13.63	292+31.83	LT	18.20	10.00	0.9983	0.9966	181.69						27.21				0.012		0.60	23.21	23.21								
292+31.83	292+80.00	LT	48.17	10.00	0.9983	0.9966	480.88					91.51			88.01		0.032		1.64	63.21	63.21								
292+80.00	292+90.00	LT	10.00	11.00	0.9981	0.9962	109.79						14.94				0.007		0.36	13.86	13.86								
292+90.00	294+28.29	LT	138.29	12.00	0.9979	0.9959	1656.00						206.58				0.103		5.35	206.95	206.95								
294+28.29	294+71.25	LT	42.96	11.14	0.9981	0.9962	477.67						64.20				0.030		1.56	60.21	60.21								
294+71.25	296+28.29	LT	157.04	7.14			1121.27						235.56				0.075		3.90	150.76	150.76								
296+28.29	297+94.13	LT	165.84	4.00			663.36						248.76				0.051		2.62	101.35	101.35								
297+94.13	300+94.13	LT	300.00	4.00	1.0003	1.0007	1200.36						450.32				0.092		4.75	183.41	183.41								
300+94.13	305+30.56	LT	436.43	4.00			1745.72						654.65				0.133		6.90	266.71	266.71								
305+30.56	307+30.56	LT	200.00	4.00	0.9980	0.9961	798.40						298.83				0.061		3.15	121.91	121.91								
307+30.56	307+49.11	LT	18.55	4.00	0.9963	0.9927	73.93						27.62				0.006		0.29	11.28	11.28								
307+49.11	307+88.67	LT	39.56	4.00	0.9958	0.9916	157.58						58.84				0.012		0.62	24.05	24.05								
307+88.67	307+92.46	LT	3.79	CADD				15.19									0.001		0.04	1.69	1.69								
9+81.21	9+83.48	LT	2.27	CADD				4.51					3.40				0.000		0.02	0.88	0.88								
9+83.48	10+00.00	LT	16.52	4.00	0.9963	0.9927	65.84						24.60				0.005		0.26	10.05	10.05								
10+00.00	11+00.00	LT	100.00	4.00	0.9961	0.9921	398.44						148.82				0.030		1.57	60.81	60.81								
11+00.00	13+87.73	LT	287.73	4.00	0.9958	0.9916	1146.09						427.97				0.087		4.53	174.90	174.90								
13+87.73	19+62.73	LT	575.00	4.00	1.0012	1.0024	2302.76						864.57				0.176		9.11	351.93	351.93								
19+62.73	22+39.81	LT	277.08	4.00	1.0024	1.0047	1110.98						417.57				0.085		4.39	169.84	169.84								
22+39.81	23+18.76	LT	78.95	CADD				315.81					118.43				0.024		1.25	48.25	48.25								
294+77.53	295+00.00	RT	22.47	CADD				220.88						37.45	41.20		0.017		0.86	33.28	33.28								
295+00.00	297+50.00	RT	250.00	10.00			2500.00							416.67	458.33		0.188		9.70	375.00	375.00								
297+50.00	297+94.13	RT	44.13	10.00			441.30						66.20				0.028		1.46	56.39	56.39								
297+94.13	300+94.13	RT	300.00	10.00	0.9949	0.9941	2984.70						447.35				0.191		9.87	381.34	381.34								
300+94.13	305+30.56	RT	436.43	10.00			4364.30						654.65				0.279		14.43	557.66	557.66								
305+30.56	306+50.00	RT	119.44	10.00	1.0315	1.0367	1232.02						185.74				0.079		4.08	157.53	157.53								
306+50.00	307+30.56	RT	80.56	8.06	1.0323	1.0365	670.29						125.25				0.044		2.29	88.39	88.39								
307+30.56	308+00.00	RT	69.44	5.06	1.0314	1.0341	362.40						107.71				0.026		1.35	52.23	52.23								
308+00.00	308+15.76	RT	15.76	4.00	1.0309	1.0330	64.99						24.42				0.005		0.26	9.93	9.93								
7+36.18	7+48.73	RT	12.55	4.00	1.0309	1.0330	51.75						19.45				0.004		0.20	7.91	7.91								
7+48.73	7+65.76	RT	17.03	CADD				60.52					25.55				0.005		0.25	9.56	9.56								
9+97.74	9+99.70	RT	1.96	CADD				4.16									0.000		0.01	0.46	0.46								
9+99.70	10+00.00	RT	0.30	4.00	1.0618	1.0660	1.27							0.53	0.59		0.000		0.01	0.27	0.27								
10+00.00	10+30.00	RT	30.00	7.00	1.0648	1.0721	223.61							53.61	58.97		0.019		0.97	37.35	37.35								
10+30.00	11+00.00	RT	70.00	10.00	1.0674	1.0779	747.18							125.76	138.33		0.056		2.91	112.36	112.36								
11+00.00	13+87.73	RT	287.73	10.00	1.0670	1.0775	3070.08							516.72	568.39		0.231		11.95	461.69	461.69								
13+87.73	14+00.00	RT	12.27	10.00	0.9812	0.9782	120.39							20.00	22.00		0.009		0.47	18.04	18.04								
14+00.00	15+45.66	RT	145.66	10.00	0.9812	0.9782	1429.22						213.73				0.091		4.72	182.55	182.55								
24+64.81	32+64.81	RT	800.00	10.00			8000.00						1200.00				0.511		26.45	1022.22	1022.22								
32+64.81	33+39.75	RT	74.94	10.00			749.40						112.41				0.048		2.48	95.76	95.76								
33+39.75	33+82.00	RT	42.25	10.46			441.94						63.38				0.028		1.45	56.15	56.15								
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																	4		171	6589	6589								

CALCULATED LRK

CHECKED PJF

SUBGRADE STABILIZATION CALCULATIONS

SUM-77/277/224 VARIOUS

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA					AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	204 SUBGRADE COMPACTION	204 PROOF ROLLING (1 HOUR/2000 SY)		206 CEMENT (0.75 x T x 115 x 0.05) LB/SY	206 CURING COAT	206 CEMENT STABILIZED SUBGRADE, 12" DEEP								
FROM	TO		FT	FT			SF	SF					SF	SF	SF	SY	HOUR		TON	SY	SY								
			RAMP C																										
FULL DEPTH LANES																													
576+00.00	577+52.62	LT	152.62	12.00	0.9995		1830.52										0.102		5.26	203.39	203.39								
576+00.00	577+52.62	LT	152.62	CADD				101.62									0.006		0.29	11.29	11.29								
577+52.62	580+17.46	LT	264.84	13.43	0.9995		3555.02										0.198		10.22	395.00	395.00								
580+17.46	581+24.01	LT	106.55	15.43			1644.07										0.091		4.73	182.67	182.67								
581+24.01	583+16.40	LT	192.39	16.00			3078.24										0.171		8.85	342.03	342.03								
583+16.40	585+16.40	LT	200.00	16.00	1.0028		3208.96										0.178		9.23	356.55	356.55								
585+16.40	593+03.36	LT	786.96	16.00	1.0056		12661.87										0.703		36.40	1406.87	1406.87								
593+03.36	596+40.00	LT	336.64	16.00	1.0112		5446.57										0.303		15.66	605.17	605.17								
596+40.00	599+38.22	LT	298.22	23.74	1.0166		7197.27										0.400		20.69	799.70	799.70								
599+38.22	600+60.00	LT	121.78	17.74	1.0062		2173.77										0.121		6.25	241.53	241.53								
600+60.00	601+37.81	LT	77.81	16.00	1.0056		1251.93										0.070		3.60	139.10	139.10								
601+37.81	603+37.81	LT	200.00	16.00	1.0028		3208.96										0.178		9.23	356.55	356.55								
603+37.81	606+67.88	LT	330.07	16.00			5281.12										0.293		15.18	586.79	586.79								
277+50.00 (I.R. 277)	277+72.76 (I.R. 277)	RT	22.76	15.77			358.93										0.020		1.03	39.88	39.88								
277+72.76 (I.R. 277)	279+50.00 (I.R. 277)	RT	177.24	13.77	0.9932		2424.00										0.135		6.97	269.33	269.33								
FULL DEPTH SHOULDER																													
581+23.61	581+50.00	LT	26.39	CADD				104.76					39.58				0.008		0.42	16.04	16.04								
581+50.00	583+16.40	LT	166.40	4.00			665.60						249.60				0.051		2.63	101.69	101.69								
583+16.40	585+16.40	LT	200.00	4.00	1.0063	1.0070	805.04						302.10				0.062		3.18	123.02	123.02								
585+16.40	592+97.65	LT	781.25	4.00	1.0126	1.0140	3164.38						1188.28				0.242		12.51	483.63	483.63								
596+40.00	599+38.22	LT	298.22	4.00	1.0359	1.0387	1235.70						464.64				0.094		4.89	188.93	188.93								
599+38.22	600+60.00	LT	121.78	4.00	1.0138	1.0152	493.84						185.45				0.038		1.95	75.48	75.48								
600+60.00	600+64.00	LT	4.00	CADD				15.05					6.00				0.001		0.06	2.34	2.34								
576+00.00	580+17.46	RT	417.46	10.00	1.0004	1.0008	4176.27						626.69				0.267		13.81	533.66	533.66								
580+17.46	581+24.01	RT	106.55	10.00			1065.50						159.83				0.068		3.52	136.15	136.15								
581+24.01	582+24.01	RT	100.00	8.00			800.00						150.00				0.053		2.73	105.56	105.56								
582+24.01	583+16.40	RT	92.39	6.00			554.34						138.58				0.038		1.99	76.99	76.99								
583+16.40	585+16.40	RT	200.00	6.00	0.9990	0.9979	1198.80						299.37				0.083		4.31	166.46	166.46								
585+16.40	593+03.36	RT	786.96	6.00	0.9979	0.9958	4711.84						1175.48				0.327		16.93	654.15	654.15								
593+03.36	599+38.22	RT	634.86	6.00	0.9958	0.9916	3793.16						944.29				0.263		13.62	526.38	526.38								
599+38.22	601+37.81	RT	199.59	6.00	0.9979	0.9958	1195.03						298.13				0.083		4.29	165.91	165.91								
601+37.81	602+87.81	RT	150.00	6.00	0.9990	0.9979	899.10						224.53				0.062		3.23	124.85	124.85								
602+87.81	603+37.81	RT	50.00	7.00	0.9988	0.9976	349.58						74.82				0.024		1.22	47.16	47.16								
603+37.81	606+67.88	RT	330.07	8.00			2640.56						495.11				0.174		9.02	348.41	348.41								
277+50.00 (I.R. 277)	277+72.76 (I.R. 277)	RT	22.76	8.00			182.08						34.14				0.012		0.62	24.02	24.02								
277+72.76 (I.R. 277)	277+80.00 (I.R. 277)	RT	7.24	8.00	0.9910	0.9903	57.40						10.75				0.004		0.20	7.57	7.57								
277+80.00 (I.R. 277)	279+50.00 (I.R. 277)	RT	170.00	9.70	0.9912	0.9903	1634.49						252.53				0.105		5.43	209.67	209.67								
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																	6		261	10054	10054								

CALCULATED LRK

CHECKED PJF

SUBGRADE STABILIZATION CALCULATIONS

SUM-77/277/224 VARIOUS

STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA					AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	204 SUBGRADE COMPACTION	204 PROOF ROLLING (1 HOUR/2000 SY)		206 CEMENT (0.75 x T x 115 x 0.05) LB/SY	206 CURING COAT	206 CEMENT STABILIZED SUBGRADE, 12" DEEP								
FROM	TO		FT	FT			SF	SF					SF	SF	SF	SY	HOUR		TON	SY	SY								
			RAMP C-1																										
FULL DEPTH LANES																													
679+50.26	680+48.74	LT	98.48	CADD				1381.06									0.077		3.97	153.45	153.45								
680+48.74	683+18.39	LT	269.65	16.00	1.0027		4326.05										0.240		12.44	480.67	480.67								
683+18.39	685+18.39	LT	200.00	16.00	1.0181		3257.92										0.181		9.37	361.99	361.99								
685+18.39	691+94.95	LT	676.56	16.00	1.0335		11187.60										0.622		32.16	1243.07	1243.07								
691+94.95	694+94.95	LT	300.00	16.00	1.0168		4880.64										0.271		14.03	542.29	542.29								
694+94.95	700+11.57	LT	516.62	16.00			8265.92										0.459		23.76	918.44	918.44								
700+11.57	702+11.45	LT	199.88	14.00			2798.32										0.155		8.05	310.92	310.92								
FULL DEPTH SHOULDER																													
682+95.09	683+18.39	LT	23.30	CADD				69.70					34.95				0.006		0.30	11.63	11.63								
683+18.39	685+18.39	LT	200.00	3.00	1.0396	1.0430	623.76						312.90				0.052		2.69	104.07	104.07								
685+18.39	691+94.95	LT	676.56	3.00	1.0733	1.0796	2178.46						1095.62				0.182		9.41	363.79	363.79								
691+94.95	693+50.00	LT	155.05	3.00	1.0367	1.0398	482.22						241.83				0.040		2.08	80.45	80.45								
693+50.00	693+70.06	LT	20.06	CADD				61.35					30.09				0.005		0.26	10.16	10.16								
679+57.98	679+60.74	RT	2.76	6.76	0.9989	0.9977	18.64										0.001		0.05	2.07	2.07								
679+60.74	680+00.00	RT	39.26	6.76	0.9989	0.9977	265.11						58.75				0.018		0.93	35.98	35.98								
680+00.00	680+32.00	RT	32.00	7.38	0.9988	0.9975	235.88						47.88				0.016		0.82	31.53	31.53								
680+32.00	682+95.50	RT	263.50	8.00	0.9987	0.9973	2105.26						394.18				0.139		7.19	277.72	277.72								
682+95.50	683+18.39	RT	22.89	7.54	0.9987	0.9975	172.37						34.25				0.011		0.59	22.96	22.96								
683+18.39	683+45.50	RT	27.11	6.54	0.9926	0.9852	175.99						40.06				0.012		0.62	24.01	24.01								
683+45.50	685+18.39	RT	172.89	6.00	0.9932	0.9864	1030.29						255.81				0.071		3.70	142.90	142.90								
685+18.39	691+94.95	RT	676.56	6.00	0.9874	0.9749	4008.21						989.37				0.278		14.37	555.29	555.29								
691+94.95	694+44.95	RT	250.00	6.00	0.9937	0.9874	1490.55						370.28				0.103		5.35	206.76	206.76								
694+44.95	694+94.95	RT	50.00	7.00	0.9927	0.9853	347.45						73.90				0.023		1.21	46.82	46.82								
694+94.95	698+46.04	RT	351.09	8.00			2808.72						526.63				0.185		9.59	370.59	370.59								
698+46.04	698+64.18	RT	18.14	8.00			145.12						27.21				0.010		0.50	19.15	19.15								
698+64.18	700+29.18	RT	165.00	8.00			1320.00							275.00	302.50		0.105		5.46	210.83	210.83								
700+29.18	702+11.45	RT	182.27	8.00			1458.16						273.41				0.096		4.98	192.40	192.40								
			RAMP C-2																										
FULL DEPTH LANES																													
781+45.30	782+90.99	LT	145.69	14.00	0.9906		2020.49										0.112		5.81	224.50	224.50								
782+90.99	782+93.84	LT	2.85	16.00	0.9893		45.11										0.003		0.13	5.01	5.01								
782+93.84	784+43.84	LT	150.00	16.00	0.9947		2387.28										0.133		6.86	265.25	265.25								
784+43.84	784+82.53	LT	38.69	16.00			619.04										0.034		1.78	68.78	68.78								
784+82.53	787+32.53	LT	250.00	16.00	1.0105		4042.00										0.225		11.62	449.11	449.11								
787+32.53	788+82.95	LT	150.42	16.00	1.0209		2457.02										0.137		7.06	273.00	273.00								
788+82.95	789+07.95	LT	25.00	16.00	1.0209		408.36										0.023		1.17	45.37	45.37								
793+17.70	796+95.44	LT	377.74	16.00	1.0021		6056.53										0.336		17.41	672.95	672.95								
796+95.44	799+74.46	LT	279.02	16.00	1.0021		4473.70										0.249		12.86	497.08	497.08								
799+74.46	801+48.92	LT	174.46	CADD				2330.11									0.129		6.70	258.90	258.90								
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																	**5**		**246**	**9480**	**9480**								

CALCULATED LRK

CHECKED PJF

SUBGRADE STABILIZATION CALCULATIONS

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA					AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	204 SUBGRADE COMPACTION	204 PROOF ROLLING (1 HOUR/2000 SY)		206 CEMENT (0.75 x T x 115 x 0.05) LB/SY	206 CURING COAT	206 CEMENT STABILIZED SUBGRADE, 12" DEEP								
			FT	FT			SF	SF					SF	SF	SF	SY	HOUR		TON	SY	SY								
			RAMP C-2 CONTD.																										
FULL DEPTH SHOULDER																													
785+00.84	785+25.00	LT	24.16	CADD				142.13					36.24				0.010		0.51	19.82	19.82								
785+25.00	787+32.53	LT	207.53	6.00	1.0249	1.0288	1276.18						320.26				0.089		4.59	177.38	177.38								
787+32.53	788+82.95	LT	150.42	6.00	1.0497	1.0576	947.38						238.63				0.066		3.41	131.78	131.78								
788+82.95	789+07.95	LT	25.00	6.00	1.0497	1.0576	157.46						39.66				0.011		0.57	21.90	21.90								
793+17.70	793+51.56	LT	33.86	6.00	1.0050	1.0058	204.18							56.76	62.44		0.018		0.93	35.93	35.93								
793+51.56	793+69.60	LT	18.04	6.00	1.0050	1.0058	108.78						27.22				0.008		0.39	15.11	15.11								
793+69.60	796+75.00	LT	305.40	6.00	1.0050	1.0058	1841.56						460.76				0.128		6.62	255.81	255.81								
796+75.00	796+96.15	LT	21.15	CADD				125.38					31.72				0.009		0.45	17.46	17.46								
781+45.30	782+93.84	RT	148.54	4.00	1.0027	1.0053	595.76						223.99				0.046		2.36	91.08	91.08								
782+93.84	784+43.84	RT	150.00	4.00	1.0013	1.0027	600.78						225.61				0.046		2.38	91.82	91.82								
784+43.84	784+82.53	RT	38.69	4.00			154.76						58.04				0.012		0.61	23.64	23.64								
784+82.53	787+32.53	RT	250.00	4.00	0.9974	0.9948	997.40						373.05				0.076		3.94	152.27	152.27								
787+32.53	788+82.95	RT	150.42	4.00	0.9948	0.9895	598.55						223.26				0.046		2.36	91.31	91.31								
788+82.95	789+07.95	RT	25.00	4.00	0.9948	0.9895	99.48						37.11				0.008		0.39	15.18	15.18								
793+17.70	794+85.02	RT	167.32	4.00	0.9995	0.9990	668.95										0.037		1.92	74.33	74.33								
794+85.02	795+19.05	RT	34.03	4.00	0.9995	0.9990	136.05							56.66	62.33		0.014		0.73	28.34	28.34								
795+19.05	795+37.22	RT	18.17	4.00	0.9995	0.9990	72.64						27.23				0.006		0.29	11.10	11.10								
795+37.22	795+95.44	RT	58.22	4.00	0.9995	0.9990	232.76						87.24				0.018		0.92	35.56	35.56								
795+95.44	796+95.44	RT	100.00	6.00	0.9992	0.9984	599.52						149.76				0.042		2.15	83.25	83.25								
796+95.44	799+78.00	RT	282.56	8.00	0.9990	0.9979	2258.22						422.95				0.149		7.71	297.91	297.91								
799+78.00	801+34.00	RT	156.00	8.00	0.9990	0.9979	1246.75							259.45	285.40		0.100		5.15	199.07	199.07								
801+34.00	801+48.92	RT	14.92	8.00	0.9990	0.9979	119.24						22.33				0.008		0.41	15.73	15.73								
			RAMP D																										
FULL DEPTH LANES																													
269+40.00 (I.R. 277)	272+95.00 (I.R. 277)	LT	355.00	12.00			4260.00										0.237		12.25	473.33	473.33								
272+95.00 (I.R. 277)	273+25.00 (I.R. 277)	LT	30.00	11.95			358.50										0.020		1.03	39.83	39.83								
887+98.38	889+33.61	LT	135.23	CADD				1715.25									0.095		4.93	190.58	190.58								
889+33.61	892+66.83	LT	333.22	14.00	1.0015		4672.08										0.260		13.43	519.12	519.12								
892+66.83	895+17.13	LT	250.30	16.00	1.0017		4011.61										0.223		11.53	445.73	445.73								
895+17.13	897+17.13	LT	200.00	16.00	1.0028		3208.96										0.178		9.23	356.55	356.55								
897+17.13	899+01.12	LT	183.99	16.00	1.0038		2955.03										0.164		8.50	328.34	328.34								
899+01.12	901+01.12	LT	200.00	16.00	1.0044		3214.08										0.179		9.24	357.12	357.12								
901+01.12	908+55.05	LT	753.93	16.00	1.0049		12121.99										0.673		34.85	1346.89	1346.89								
908+55.05	910+55.05	LT	200.00	16.00	1.0042		3213.44										0.179		9.24	357.05	357.05								
910+55.05	914+89.43	LT	434.38	16.00	1.0036		6975.10										0.388		20.05	775.01	775.01								
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																	**4**		**184**	**7076**	**7076**								

CALCULATED LRK

CHECKED PJF

SUBGRADE STABILIZATION CALCULATIONS

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA					AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	204 SUBGRADE COMPACTION	204 PROOF ROLLING (1 HOUR/2000 SY)		206 CEMENT (0.75 x T x 115 x 0.05) LB/SY	206 CURING COAT	206 CEMENT STABILIZED SUBGRADE, 12" DEEP								
FROM	TO		FT	FT			SF	SF					SF	SF	SF	SY	HOUR		TON	SY	SY								
			RAMP D CONTD.																										
FULL DEPTH SHOULDER																													
892+66.42	893+00.00	LT	33.58		CADD			134.04					50.37				0.010		0.53	20.49	20.49								
893+00.00	895+17.13	LT	217.13	4.00	1.0039	1.0044	871.91						327.13				0.067		3.45	133.23	133.23								
895+17.13	897+17.13	LT	200.00	4.00	1.0063	1.0070	805.04						302.10				0.062		3.18	123.02	123.02								
897+17.13	899+01.12	LT	183.99	4.00	1.0086	1.0096	742.29						278.63				0.057		2.94	113.44	113.44								
899+01.12	901+01.12	LT	200.00	4.00	1.0098	1.0109	807.84						303.27				0.062		3.19	123.46	123.46								
901+01.12	907+50.00	LT	648.88	4.00	1.0110	1.0122	2624.07						985.19				0.201		10.38	401.03	401.03								
907+50.00	907+64.17	LT	14.17		CADD			56.58					21.25				0.004		0.22	8.65	8.65								
269+40.00 (I.R. 277)	272+95.00 (I.R. 277)	LT	355.00	10.00			3550.00						532.50				0.227		11.74	453.61	453.61								
272+95.00 (I.R. 277)	273+25.00 (I.R. 277)	LT	30.00	10.60			318.00						45.00				0.020		1.04	40.33	40.33								
887+98.39	892+66.83	RT	468.44	10.00	0.9989	0.9978	4679.25						701.11				0.299		15.47	597.82	597.82								
892+66.83	893+66.83	RT	100.00	8.00	0.9991	0.9983	799.28						149.75				0.053		2.73	105.45	105.45								
893+66.83	895+17.13	RT	150.30	6.00	0.9993	0.9987	901.17						225.16				0.063		3.24	125.15	125.15								
895+17.13	897+17.13	RT	200.00	6.00	0.9990	0.9979	1198.80						299.37				0.083		4.31	166.46	166.46								
897+17.13	899+01.12	RT	183.99	6.00	0.9986	0.9971	1102.39						275.18				0.077		3.96	153.06	153.06								
899+01.12	901+01.12	RT	200.00	6.00	0.9984	0.9967	1198.08						299.01				0.083		4.30	166.34	166.34								
901+01.12	908+55.05	RT	753.93	6.00	0.9982	0.9963	4515.44						1126.71				0.313		16.22	626.91	626.91								
908+55.05	910+05.05	RT	150.00	6.00	0.9984	0.9968	898.56						224.28				0.062		3.23	124.76	124.76								
910+05.05	910+55.05	RT	50.00	7.00	0.9981	0.9963	349.34						74.72				0.024		1.22	47.12	47.12								
910+55.05	914+75.00	RT	419.95	8.00	0.9982	0.9964	3353.55						627.66				0.221		11.45	442.36	442.36								
914+75.00	914+89.43	RT	14.43	7.71	0.9983	0.9966	111.07						21.57				0.007		0.38	14.74	14.74								
			WARNER RD.																										
FULL DEPTH LANES																													
24+50.00	24+66.00	LT	16.00	12.23			195.68										0.011		0.56	21.74	21.74								
24+66.00	26+07.65	LT	141.65	12.00			1699.80										0.094		4.89	188.87	188.87								
26+07.65	27+53.50	LT	145.85	12.00	0.9975		1745.82										0.097		5.02	193.98	193.98								
27+53.50	27+70.00	LT	16.50	11.86	0.9975		195.20										0.011		0.56	21.69	21.69								
24+50.00	24+89.00	RT	39.00	11.44			446.16										0.025		1.28	49.57	49.57								
24+89.00	26+07.65	RT	118.65	12.00			1423.80										0.079		4.09	158.20	158.20								
26+07.65	27+53.50	RT	145.85	12.00	1.0025		1754.58										0.097		5.04	194.95	194.95								
27+53.50	27+70.00	RT	16.50	11.76	1.0025		194.53										0.011		0.56	21.61	21.61								
FULL DEPTH SHOULDER																													
24+50.00	24+63.23	LT	13.23	4.00			52.92						19.85				0.004		0.21	8.09	8.09								
24+63.23	24+66.00	LT	2.77	3.83			10.61						4.15				0.001		0.04	1.64	1.64								
24+66.00	24+70.60	LT	4.60	3.30			15.18						6.90				0.001		0.06	2.45	2.45								
24+70.60	25+01.85	LT	31.25	2.95			92.19						46.88				0.008		0.40	15.45	15.45								
25+01.85	25+20.00	LT	18.15	2.95			53.54						27.23				0.004		0.23	8.97	8.97								
25+20.00	26+07.65	LT	87.65	2.95			258.57							146.08	160.69		0.031		1.63	62.82	62.82								
26+07.65	26+88.48	LT	80.83		CADD			200.04						134.72	148.19		0.027		1.39	53.66	53.66								
26+88.48	27+06.73	LT	18.25	1.57	0.9946	0.9943	28.50						27.22				0.003		0.16	6.19	6.19								
27+06.73	27+38.16	LT	31.43	1.57	0.9946	0.9943	49.08						46.88				0.005		0.28	10.66	10.66								
27+38.16	27+48.86	LT	10.70	1.79	0.9945	0.9942	19.05						15.96				0.002		0.10	3.89	3.89								
27+48.86	27+53.50	LT	4.64	2.00	0.9945	0.9941	9.23						6.92				0.001		0.05	1.79	1.79								
27+53.50	27+70.00	LT	16.50	2.00	0.9946	0.9941	32.82						24.60				0.003		0.17	6.38	6.38								
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																	**3**		**130**	**5021**	**5021**								

CALCULATED LRK

CHECKED PJF

SUBGRADE STABILIZATION CALCULATIONS

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO		SURFACE AREA (A=LxW)	CADD AREA					AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	204 SUBGRADE COMPACTION	204 PROOF ROLLING (1 HOUR/2000 SY)		206 CEMENT (0.75 x T x 115 x 0.05) LB/SY	206 CURING COAT	206 CEMENT STABILIZED SUBGRADE, 12" DEEP								
FROM	TO		FT	FT			SF	SF					SF	SF	SF	SY	HOUR		TON	SY	SY								
		WARNER RD. CONTD.																											
FULL DEPTH SHOULDER CONTD.																													
24+50.00	25+03.51	RT	53.51	4.00			214.04						80.27				0.016		0.85	32.70	32.70								
25+03.51	25+13.44	RT	9.93	4.99			49.55						14.89				0.004		0.19	7.16	7.16								
25+13.44	25+31.58	RT	18.14	5.99			108.66						27.21				0.008		0.39	15.10	15.10								
25+31.58	26+07.65	RT	76.07	5.99			455.66							126.78	139.46		0.040		2.08	80.21	80.21								
26+07.65	26+98.84	RT	91.19	CADD				603.61						151.98	167.18		0.051		2.65	102.53	102.53								
26+98.84	27+53.50	RT	54.66	6.48	1.0065	1.0078	356.50						82.63				0.024		1.26	48.79	48.79								
27+53.50	27+70.00	RT	16.50	5.06	1.0060	1.0071	83.99						24.93				0.006		0.31	12.10	12.10								
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																	1		8	299	299								

CALCULATED LRK

CHECKED PJF

SUBGRADE STABILIZATION CALCULATIONS

SUM-77/277/224 VARIOUS

SHEET NO.	209 LINEAR GRADING, AS PER PLAN		254 PAVEMENT PLANING, ASPHALT CONCRETE, 1 1/4"		302 ASPHALT CONCRETE BASE, PG64-22		304 AGGREGATE BASE		407 NON-TRACKING TACK COAT		408 PRIME COAT, AS PER PLAN		441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	441 2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), (UNDER GUARDRAIL), AS PER PLAN		442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN	442 ANTI-SEGREGATION EQUIPMENT			
	STATION		SQ YD		CU YD		CU YD		GALLON		GALLON		CU YD	CU YD	CU YD		CU YD	CU YD	CU YD			
2			567		202		154		181				20				38	44	49			
3					3018		2310		2229								555	650	843			
4					553		767		408								100	119	149			
5					141		218		138				41	61								
6	117														360							
7	58														179							
8	60														185							
9	71														217							
10	64														197							
11	5										586				15							
12											618											
13											588											
14							1462															
15																	-3					
TOTALS CARRIED TO THE GENERAL SUMMARY	**375**		**567**		**3914**		**4911**		**2956**		**1792**		**61**	**61**	**1153**		**690**	**813**	**1041**			

SHEET NO.		SPECIAL PRESSURE RELIEF JOINT, TYPE A	601 CONCRETE SLOPE PROTECTION	609 CURB, TYPE 4-C, AS PER PLAN		617 WATER	617 COMPACTED AGGREGATE, AS PER PLAN (T=2")	617 SHOULDER PREPARATION		618 RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)		622 CONCRETE BARRIER, SINGLE SLOPE, TYPE B1	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE C1	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1, AS PER PLAN	622 BARRIER TRANSITION					
		FT	SY	FT		MGALLON	CU YD	SQ YD		MILE		FT	EACH	FT	EACH	EACH	EACH					
2				66																		
3				58																		
4		349		15																		
5				73																		
6																						
7																						
8																						
9																						
10																						
11						4	82	1463														
12						5	86	1546														
13						4	82	1470														
14			272									2100	14	5708	56	4	3					
15										1												
TOTALS CARRIED TO THE GENERAL SUMMARY		**349**	**272**	**212**		**13**	**250**	**4479**		**1**		**2100**	**14**	**5708**	**56**	**4**	**3**					

CALCULATED LRK
CHECKED PJF

PAVEMENT SUBSUMMARY

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 10" EXTENSION	AREA FOR 16" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	254 PAVEMENT PLANING, ASPHALT CONCRETE		302 8" ASPHALT CONCRETE BASE, PG64-22	304 6" AGGREGATE BASE	407 NON-TRACKING TACK COAT (0.055 GAL/SY - 1 APPLICATION)	407 NON-TRACKING TACK COAT (0.055 GAL/SY - 3 APPLICATIONS)		441 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	442 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	442 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN	442 ANTI-SEGREGATION EQUIPMENT		609 CURB, TYPE 4-C, AS PER PLAN	
			FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	SF	SY		CY	CY	GAL	GAL		CY	CY	CY	CY		FT	
NORTHBOUND I.R. 77 CL																													
FULL DEPTH ASPHALT LANES																													
424+94.20	425+19.20	RT	25.00	48.00			1200.00											29.63	22.22		22.00			5.56	6.48	12.04			
426+74.77	426+99.77	RT	25.00	48.00			1200.00											29.63	22.22		22.00			5.56	6.48	12.04			
FULL DEPTH ASPHALT SHOULDER																													
424+81.61	424+88.47	RT/OUT	6.86	CADD				73.06	2.29		5.72	9.15						1.90	1.52		1.39			0.34	0.39				
424+88.47	425+06.61	RT/OUT	18.14	CADD				360.18					27.21					8.89	7.17		6.60			1.67	1.95			18.15	
426+62.18	426+84.43	RT/OUT	22.25	CADD				342.79					33.38					8.46	6.97		6.28			1.59	1.85			22.25	
426+84.43	426+87.13	RT/OUT	2.70	CADD				93.86	0.90		2.25	3.60						2.36	1.80		1.74			0.43	0.51				
425+03.33	425+28.33	RT/IN	25.00	12.00			300.00											7.41	5.56		5.50			1.39	1.62				
426+83.90	427+08.90	RT/IN	25.00	12.00			300.00											7.41	5.56		5.50			1.39	1.62				
SOUTHBOUND I.R. 77 CL																													
FULL DEPTH ASPHALT LANES																													
425+16.12	425+41.12	LT	25.00	48.00			1200.00											29.63	22.22		22.00			5.56	6.48	12.04			
426+96.69	427+21.69	LT	25.00	48.00			1200.00											29.63	22.22		22.00			5.56	6.48	12.04			
FULL DEPTH ASPHALT SHOULDER																													
425+28.59	425+53.84	LT/OUT	25.25	CADD				435.86	8.42		21.04	33.67						11.13	8.70		8.17			2.02	2.35				
427+09.41	427+34.41	LT/OUT	25.00	CADD				444.49					37.50					10.98	8.93		8.15			2.06	2.40			25.00	
375+92.24	376+20.24	LT/IN	28.00	13.72			384.16											9.49	7.11		7.04			1.78	2.07				
425+06.99	425+31.99	LT/IN	25.00	12.00			300.00											7.41	5.56		5.50			1.39	1.62				
426+87.55	427+12.55	LT/IN	25.00	12.00			300.00											7.41	5.56		5.50			1.39	1.62				
RESURFACING ASPHALT SHOULDER																													
371+50.00	374+77.72	LT/IN	327.72	2.60	1.0016	1.0019	853.44									94.83				5.22			3.29						
374+77.72	375+92.24	LT/IN	114.52	2.60			297.75									33.08				1.82			1.15						
376+20.24	377+02.12	LT/IN	81.88	2.60			212.89									23.65				1.30			0.82						
377+02.12	391+37.36	LT/IN	1435.24	2.60			3731.62									414.62				22.80			14.40						
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																**567**		**202**	**154**	**181**			**20**	**38**	**44**	**49**		**66**	

CALCULATED LRK

CHECKED PJF

PAVEMENT CALCULATIONS

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 10" EXTENSION	AREA FOR 16" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION			302 8" ASPHALT CONCRETE BASE, PG64-22	304 6" AGGREGATE BASE		407 NON-TRACKING TACK COAT (0.055 GAL/SY - 3 APPLICATIONS)			442 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	442 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN	442 ANTI-SEGREGATION EQUIPMENT		609 CURB, TYPE 4-C, AS PER PLAN	
			FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	SF			CY	CY		GAL			CY	CY	CY		FT	
		SOUTHBOUND I.R. 77 BL																											
FULL DEPTH ASPHALT LANES																													
494+44.48	502+03.04	LT	758.56	43.59			33065.63											816.44	612.33		606.20			153.08	178.60	331.68			
502+03.04	502+43.78	LT	40.74	51.59	1.0045		2111.23											52.13	39.10		38.71			9.77	11.40	21.17			
502+43.78	506+03.04	LT	359.26	36.00	1.0031		12973.45											320.33	240.25		237.85			60.06	70.07	130.13			
506+03.04	514+95.00	LT	891.96	36.00	1.0063		32312.86											797.85	598.39		592.40			149.60	174.53	324.13			
501+48.92	502+03.04	RT	54.12	12.00			649.44											16.04	12.03		11.91			3.01	3.51	6.52			
502+03.04	503+95.44	RT	192.40	12.00	0.9990		2306.49											56.95	42.71		42.29			10.68	12.46	23.14			
503+95.44	504+95.44	RT	100.00	6.00	0.9995		599.70											14.81	11.11		10.99			2.78	3.24	6.02			
FULL DEPTH ASPHALT SHOULDER																													
494+44.48	495+44.44	LT	99.96	9.00			899.64		33.32		83.30	133.28						23.65	19.13		17.21			4.17	4.86				
495+44.44	500+45.03	LT	500.59	8.00			4004.72		166.86		417.16	667.45						106.09	86.52		76.99			18.54	21.63				
500+45.03	502+00.00	LT	154.97	8.00			1239.76			77.49	129.14	206.63		258.28	284.11			41.13	33.00		29.99			5.74	8.51				
502+00.00	502+03.04	LT	3.04	8.00			24.32						4.56					0.60	0.53		0.45			0.11	0.13			3.04	
502+03.04	502+18.14	LT	15.10	8.00	1.0097	1.0104	121.97						22.89					3.01	2.68		2.24			0.56	0.66			15.26	
502+18.14	502+43.78	LT	25.64	8.00	1.0097	1.0104	207.11		8.64		21.59	34.54						5.49	4.48		3.98			0.96	1.12				
506+28.88	508+63.78	LT	234.90	10.00	1.0143	1.0161	2382.59		79.56		198.90	318.24						62.27	50.02		45.38			11.03	12.87				
508+63.78	509+30.71	LT	66.93	10.00	1.0143	1.0161	678.87			34.00	56.67	90.68		113.35	124.68			21.38	16.98		15.63			3.14	4.46				
509+30.71	509+48.56	LT	17.85	10.00	1.0143	1.0161	181.05						27.21					4.47	3.86		3.32			0.84	0.98			18.14	
509+48.56	514+95.00	LT	546.44	10.00	1.0143	1.0161	5542.54		185.08		462.70	740.32						144.85	116.35		105.57			25.66	29.94				
494+44.48	496+94.61	RT	250.13	10.00			2501.30		83.38		208.44	333.51						65.36	52.50		47.64			11.58	13.51				
501+48.92	501+52.18	RT	3.26	8.00			26.08						4.89					0.64	0.57		0.48			0.12	0.14			3.26	
501+52.18	502+03.04	RT	50.86	8.00			406.88		16.95		42.38	67.81						10.78	8.79		7.82			1.88	2.20				
502+03.04	503+95.44	RT	192.40	8.00	0.9972	0.9965	1534.89		63.91		159.77	255.64						40.66	33.16		29.51			7.11	8.29				
503+95.44	504+95.44	RT	100.00	9.00	0.9971	0.9963	897.39		33.21		83.03	132.84						23.59	19.08		17.16			4.15	4.85				
504+95.44	506+03.04	RT	107.60	10.00	0.9991	0.9983	1075.03		35.81		89.51	143.22						28.09	22.56		20.47			4.98	5.81				
506+03.04	507+75.00	RT	171.96	10.00	0.9983	0.9965	1716.68		57.12		142.80	228.48						44.86	36.02		32.69			7.95	9.27				
507+75.00	507+94.00	RT	19.00	8.50	0.9985	0.9970	161.26		6.31		15.79	25.26						4.25	3.45		3.09			0.75	0.87				
507+94.00	508+04.86	RT	10.86	7.00	0.9988	0.9976	75.93		3.61		9.03	14.45						2.03	1.67		1.47			0.35	0.41				
508+04.86	508+73.02	RT	68.16	7.00	0.9988	0.9976	476.55			34.00	56.66	90.66		113.33	124.66			16.38	13.23		11.92			2.21	3.37				
508+73.02	508+91.21	RT	18.19	7.00	0.9988	0.9976	127.18						27.22					3.14	2.86		2.33			0.59	0.69			18.15	
508+91.21	509+25.00	RT	33.79	7.00	0.9988	0.9976	236.25		11.24		28.09	44.95						6.32	5.21		4.57			1.09	1.28				
509+25.00	510+00.00	RT	75.00	8.50	0.9985	0.9970	636.54		24.93		62.31	99.70						16.79	13.63		12.20			2.95	3.44				
510+00.00	514+95.00	RT	495.00	10.00	0.9983	0.9965	4941.59		164.42		411.06	657.69						129.12	103.69		94.11			22.88	26.69				
		GORE AREAS																											
SOUTHBOUND I.R. 77/RAMP C-2																													
496+94.61	499+73.79	RT			CADD			2732.84										67.48	50.61		50.10			12.65	14.76				
SOUTHBOUND I.R. 77/RAMP B-1																													
502+43.78	506+28.88	LT			CADD			2851.31										70.40	52.80		52.27			13.20	15.40				
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																		**3018**	**2310**		**2229**			**555**	**650**	**843**		**58**	

CALCULATED LRK

CHECKED PJE

PAVEMENT CALCULATIONS

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 10" EXTENSION	AREA FOR 16" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION			302 8" ASPHALT CONCRETE BASE, PG64-22	304 6" AGGREGATE BASE		407 NON-TRACKING TACK COAT (0.055 GAL/SY - 3 APPLICATIONS)			442 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	442 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN	442 ANTI-SEGREGATION EQUIPMENT		609 CURB, TYPE 4-C, AS PER PLAN	SPECIAL PRESSURE RELIEF JOINT, TYPE A
			FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	SF			CY	CY		GAL			CY	CY	CY		FT	FT
APPROACH SLABS																														
SUM-77-0802L/R																														
425+30.16	425+55.16	LT/RT	25.00	CADD				3877.73		12.50									72.27											
426+60.73	426+85.73	LT/RT	25.00	CADD				3877.73		12.50									72.27											
SUM-77-0810L/R																														
429+01.43	429+28.48	LT/RT	27.05	CADD				4276.63		13.53									79.70											159.14
430+89.09	431+16.15	LT/RT	27.06	CADD				4278.73		13.53									79.74											160.17
SUM-77-0927R																														
789+07.95	789+37.95	LT/RT	30.00	CADD				892.04		15.00									17.07											
792+85.70	793+17.70	LT/RT	32.00	CADD				930.59		16.00									17.83											29.00
RAMP B-1																														
FULL DEPTH ASPHALT LANES																														
402+43.78	405+01.68	RT	257.90	16.00			4126.40											101.89	76.41		75.65			19.10	22.29	41.39				
405+01.68	406+31.76	RT	130.08	16.00	1.0082		2098.35											51.81	38.86		38.47			9.71	11.33	21.04				
FULL DEPTH ASPHALT SHOULDER																														
402+43.78	405+01.68	LT	257.90	8.00			2063.20		85.97		214.92	343.87						54.66	44.58		39.66			9.55	11.14					
405+01.68	405+51.68	LT	50.00	7.00	0.9964	0.9928	348.74		16.55		41.37	66.19						9.33	7.68		6.75			1.61	1.88					
405+51.68	406+31.76	LT	80.08	6.00	0.9969	0.9938	478.99		26.53		66.32	106.11						12.97	10.84		9.35			2.22	2.59					
RAMP C-2																														
FULL DEPTH ASPHALT LANES																														
788+82.95	789+07.95	LT	25.00	16.00	1.0209		408.36											10.08	7.56		7.49			1.89	2.21	4.10				
796+95.44	799+74.46	LT	279.02	16.00	1.0021		4473.70											110.46	82.85		82.02			20.71	24.16	44.87				
799+74.46	801+48.92	LT	174.46	CADD				2330.11										57.53	43.15		42.72			10.79	12.59	23.38				
FULL DEPTH ASPHALT SHOULDER																														
788+82.95	789+07.95	LT	25.00	6.00	1.0497	1.0576	157.46		8.81		22.03	35.25						4.27	3.57		3.08			0.73	0.85					
788+82.95	789+07.95	RT	25.00	4.00	0.9948	0.9895	99.48		8.25		20.61	32.98						2.81	2.45		2.00			0.46	0.54					
796+95.44	799+78.00	RT	282.56	8.00	0.9990	0.9979	2258.22		93.99		234.97	375.96						59.82	48.78		43.41			10.45	12.20					
799+78.00	801+34.00	RT	156.00	8.00	0.9990	0.9979	1246.75			77.84	129.73	207.56		259.45	285.40			41.35	33.18		30.15			5.77	8.56					
801+34.00	801+48.92	RT	14.92	8.00	0.9990	0.9979	119.24						22.33					2.94	2.62		2.19			0.55	0.64			14.89		
EASTBOUND/WESTBOUND I.R. 277 CL																														
FULL DEPTH ASPHALT LANES																														
241+20.00	242+80.00	LT/RT	160.00	8.33			1332.80											32.91	24.68		24.43			6.17	7.20	13.37				
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																		**553**	**767**		**408**			**100**	**119**	**149**		**15**	**349**	

CALCULATED LRK

CHECKED PJE

PAVEMENT CALCULATIONS

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 10" EXTENSION	AREA FOR 16" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION		302 4" ASPHALT CONCRETE BASE, PG64-22		304 6" AGGREGATE BASE		407 NON-TRACKING TACK COAT (0.055 GAL/SY - 2 APPLICATIONS)		441 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	441 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)				609 CURB, TYPE 4-C, AS PER PLAN	
			FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	SF		CY		CY		GAL		CY	CY				FT	
			WARNER RD.																										
FULL DEPTH ASPHALT LANES																													
24+50.00	24+66.00	LT	16.00	12.23			195.68										2.42		3.62		2.39		0.75	1.06					
24+66.00	26+07.65	LT	141.65	12.00			1699.80										20.99		31.48		20.78		6.56	9.18					
26+07.65	27+53.50	LT	145.85	12.00	0.9975		1745.82										21.55		32.33		21.34		6.74	9.43					
27+53.50	27+70.00	LT	16.50	11.86	0.9975		195.20										2.41		3.61		2.39		0.75	1.05					
24+50.00	24+89.00	RT	39.00	11.44			446.16										5.51		8.26		5.45		1.72	2.41					
24+89.00	26+07.65	RT	118.65	12.00			1423.80										17.58		26.37		17.40		5.49	7.69					
26+07.65	27+53.50	RT	145.85	12.00	1.0025		1754.58										21.66		32.49		21.44		6.77	9.48					
27+53.50	27+70.00	RT	16.50	11.76	1.0025		194.53										2.40		3.60		2.38		0.75	1.05					
FULL DEPTH ASPHALT SHOULDER																													
24+50.00	24+63.23	LT	13.23	4.00			52.92		4.41		11.03						0.71		1.18		0.67		0.20	0.29					
24+63.23	24+66.00	LT	2.77	3.83			10.61		0.92		2.31						0.14		0.24		0.14		0.04	0.06					
24+66.00	24+70.60	LT	4.60	3.30			15.18		1.53		3.83						0.21		0.35		0.19		0.06	0.08					
24+70.60	25+01.85	LT	31.25	2.95			92.19		10.42		26.04						1.27		2.19		1.19		0.36	0.50					
25+01.85	25+20.00	LT	18.15	2.95			53.54						27.23				0.66		1.50		0.65		0.21	0.29				18.15	
25+20.00	26+07.65	LT	87.65	2.95			258.57			43.83	73.04	116.87		146.08			5.90		9.66		5.66		1.00	2.42					
26+07.65	26+88.48	LT	80.83	CADD				200.04		40.42	67.36	107.77		134.72			4.96		8.20		4.75		0.77	2.03					
26+88.48	27+06.73	LT	18.25	1.57	0.9946	0.9943	28.50						27.22				0.35		1.03		0.35		0.11	0.15				18.15	
27+06.73	27+38.16	LT	31.43	1.57	0.9946	0.9943	49.08		10.42		26.04						0.73		1.39		0.66		0.19	0.27					
27+38.16	27+48.86	LT	10.70	1.79	0.9945	0.9942	19.05		3.55		8.86						0.28		0.52		0.25		0.07	0.10					
27+48.86	27+53.50	LT	4.64	2.00	0.9945	0.9941	9.23		1.54		3.84						0.13		0.24		0.12		0.04	0.05					
27+53.50	27+70.00	LT	16.50	2.00	0.9946	0.9941	32.82		5.47		13.67						0.47		0.86		0.43		0.13	0.18					
24+50.00	25+03.51	RT	53.51	4.00			214.04		17.84		44.59						2.86		4.79		2.73		0.83	1.16					
25+03.51	25+13.44	RT	9.93	4.99			49.55		3.31		8.27						0.65		1.07		0.63		0.19	0.27					
25+13.44	25+31.58	RT	18.14	5.99			108.66						27.21				1.34		2.52		1.33		0.42	0.59				18.14	
25+31.58	26+07.65	RT	76.07	5.99			455.66			38.04	63.39	101.43		126.78			7.97		12.66		7.74		1.76	3.35					
26+07.65	26+98.84	RT	91.19	CADD				603.61		45.60	75.99	121.59		151.98			10.27		16.24		9.98		2.33	4.33					
26+98.84	27+16.82	RT	17.98	8.14	1.0068	1.0085	147.35						27.20				1.82		3.23		1.80		0.57	0.80				18.13	
27+16.82	27+53.50	RT	36.68	7.80	1.0067	1.0084	288.02		12.33		30.82						3.71		5.90		3.60		1.11	1.56					
27+53.50	27+70.00	RT	16.50	6.73	1.0064	1.0078	111.76		5.54		13.86						1.45		2.33		1.40		0.43	0.60					
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																	**141**		**218**		**138**		**41**	**61**				**73**	

CALCULATED LRK

CHECKED PJF

PAVEMENT CALCULATIONS

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA										209		441									
																		LINEAR GRADING, AS PER PLAN		2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), (UNDER GUARDRAIL), AS PER PLAN									
FROM	TO		FT	FT			SF	SF										STA		CY									
		PAVING UNDER GUARDRAIL																											
NORTHBOUND/SOUTHBOUND I.R. 77 CL																													
389+73.71	391+37.36	LT	163.65	5.00			818.25											1.64		5.05									
391+37.36	393+85.00	LT	247.64	5.00	0.9964		1233.74											2.47		7.62									
394+54.30	394+72.51	LT	18.21	4.50	0.9965		81.66											0.18		0.50									
394+72.51	396+86.59	LT	214.08	5.00	0.9965		1066.65											2.13		6.58									
410+30.96	425+53.84	LT	1522.88	5.00			7614.40											15.23		47.00									
427+09.41	427+52.06	LT	42.65	4.50			191.92											0.43		1.18									
427+52.06	428+41.24	LT	89.18	5.00			445.90											0.89		2.75									
428+41.24	429+20.46	LT	79.22	5.00	0.9944		393.88											0.79		2.43									
431+32.29	431+80.00	LT	47.71	4.50	0.9944		213.49											0.47		1.32									
431+80.00	432+13.00	LT	33.00	5.00	0.9946		164.11											0.33		1.01									
432+13.00	439+90.00	LT	777.00	5.00	0.9945		3863.63											7.73		23.85									
439+90.00	448+23.91	LT	833.91	5.00	0.9941		4144.95											8.29		25.59									
448+23.91	449+48.04	LT	124.13	5.00			620.65											1.24		3.83									
467+30.42	469+15.00	LT	184.58	5.00			922.90											1.85		5.70									
388+24.90	391+37.36	RT	312.46	5.00			1562.30											3.12		9.64									
391+37.36	392+12.50	RT	75.14	5.00	1.0039		377.17											0.75		2.33									
392+12.50	393+25.00	RT	112.50	5.00	1.0038		564.64											1.13		3.49									
393+25.00	393+56.92	RT	31.92	5.00	1.0037		160.19											0.32		0.99									
393+56.92	393+75.00	RT	18.08	4.50	1.0037		81.66											0.18		0.50									
407+50.59	424+88.47	RT	1737.88	5.00			8689.40											17.38		53.64									
424+88.47	425+06.61	RT	18.14	4.50			81.63											0.18		0.50									
426+62.18	426+84.43	RT	22.25	4.50			100.13											0.22		0.62									
426+84.43	428+41.24	RT	156.81	5.00			784.05											1.57		4.84									
428+41.24	428+68.64	RT	27.40	5.00	1.0056		137.77											0.28		0.85									
428+68.64	428+86.69	RT	18.05	4.50	1.0056		81.68											0.18		0.50									
430+96.10	431+22.50	RT	26.40	4.50	1.0056		119.47											0.27		0.74									
431+22.50	433+10.00	RT	187.50	5.00	1.0054		942.56											1.89		5.82									
433+10.00	446+23.71	RT	1313.71	5.00	1.0051		6602.05											13.20		40.75									
461+21.17	468+46.85	RT	725.68	5.00			3628.40											7.26		22.40									
468+46.85	468+65.00	RT	18.15	4.50			81.68											0.18		0.50									
NORTHBOUND I.R. 77 BL																													
475+64.00	476+05.00	LT	41.00	4.50	0.9938		183.36											0.41		1.13									
476+05.00	478+63.75	LT	258.75	5.00	0.9937		1285.60											2.57		7.94									
496+00.00	506+65.75	LT	1065.75	5.00			5328.75											10.66		32.89									
506+65.75	510+65.75	LT	400.00	5.00	0.9947		1989.40											3.98		12.28									
510+65.75	514+12.50	LT	346.75	5.00	0.9945		1724.21											3.45		10.64									
514+12.50	514+85.00	LT	72.50	5.00	0.9945		360.51											0.72		2.23									
487+97.20	490+82.07	RT	284.87	5.00	1.0124		1442.01											2.88		8.90									
490+82.07	491+00.00	RT	17.93	4.50	1.0124		81.69											0.18		0.50									
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																		**117**		**360**									

CALCULATED KRM

CHECKED PJF

PAVEMENT CALCULATIONS

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA										209		441									
																		LINEAR GRADING, AS PER PLAN		2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), (UNDER GUARDRAIL), AS PER PLAN										
FROM	TO		FT	FT			SF	SF										STA		CY									
		PAVING UNDER GUARDRAIL																											
SOUTHBOUND I.R. 77 BL																													
469+62.50	469+80.65	LT	18.15	4.50			81.68											0.18		0.50									
469+80.65	472+54.68	LT	274.03	5.00			1370.15											2.74		8.46									
472+54.68	473+45.51	LT	90.83	5.00	0.9814		445.70											0.89		2.75									
480+84.09	486+63.69	LT	579.60	5.00	0.9814		2844.10											5.69		17.56									
502+00.00	502+03.04	LT	3.04	4.50			13.68											0.03		0.08									
502+03.04	502+18.14	LT	15.10	4.50	1.0107		68.68											0.15		0.42									
502+18.14	502+43.78	LT	25.64	5.00	1.0109		129.60											0.26		0.80									
509+30.71	509+48.56	LT	17.85	4.50	1.0168		81.67											0.18		0.50									
509+48.56	511+46.12	LT	197.56	5.00	1.0169		1004.49											2.01		6.20									
473+95.11	474+13.21	RT	18.10	4.50	1.0031		81.70											0.18		0.50									
474+13.21	484+73.31	RT	1060.10	5.00			5300.50											10.60		32.72									
495+57.46	496+57.49	RT	100.03	5.00			500.15											1.00		3.09									
496+57.49	496+94.61	RT	37.12	CADD				339.81										0.37		2.10									
501+48.92	501+52.18	RT	3.26	4.50			14.67											0.03		0.09									
501+52.18	502+03.04	RT	50.86	5.00			254.30											0.51		1.57									
502+03.04	503+95.44	RT	192.40	5.00	0.9961		958.25											1.92		5.92									
503+95.44	504+95.44	RT	100.00	5.00	0.9969		498.45											1.00		3.08									
504+95.44	506+03.04	RT	107.60	5.00	0.9978		536.82											1.07		3.31									
506+03.04	507+75.00	RT	171.96	5.00	0.9956		856.02											1.71		5.28									
507+75.00	507+94.00	RT	19.00	5.00	0.9962		94.64											0.19		0.58									
507+94.00	508+04.86	RT	10.86	5.00	0.9967		54.12											0.11		0.33									
508+73.02	508+91.21	RT	18.19	4.50	0.9968		81.59											0.18		0.50									
508+91.21	509+25.00	RT	33.79	5.00	0.9967		168.39											0.34		1.04									
509+25.00	510+00.00	RT	75.00	5.00	0.9962		373.58											0.75		2.31									
510+00.00	514+95.00	RT	495.00	5.00	0.9956		2464.11											4.93		15.21									
EASTBOUND/WESTBOUND I.R. 277 CL																													
257+10.03	264+32.75	LT	722.72	5.00			3613.60											7.23		22.31									
264+32.75	264+70.74	LT	37.99	CADD				301.67										0.38		0.00									
279+44.11	279+81.23	LT	37.12	5.00	1.0101		187.47											0.37		1.16									
223+25.02	231+12.50	RT	787.48	5.00			3937.40											7.87		24.30									
248+78.78	250+85.44	RT	206.66	5.00			1033.30											2.07		6.38									
261+32.00	261+96.50	RT	64.50	8.00			516.00											0.65		3.19									
277+50.00	277+72.76	RT	22.76	5.00			113.80											0.23		0.70									
277+72.76	277+80.00	RT	7.24	5.00	0.9899		35.83											0.07		0.22									
277+80.00	279+50.00	RT	170.00	5.00	0.9899		841.42											1.68		5.19									
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																		**58**		**179**									

CALCULATED KRM

CHECKED PJF

PAVEMENT CALCULATIONS

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA										LINEAR GRADING, AS PER PLAN		2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), (UNDER GUARDRAIL), AS PER PLAN										
																		209		441										
FROM	TO		FT	FT			SF	SF										STA		CY										
PAVING UNDER GUARDRAIL CONTD.																														
ARLINGTON RAMP D																														
87+12.69	88+18.25	RT	105.56	5.00			527.80											1.06		3.26										
RAMP A																														
86+63.69	90+70.00	LT	406.31	5.00	0.9956		2022.61											4.05		12.49										
90+70.00	93+70.00	LT	300.00	5.00	0.9937		1490.55											2.98		9.20										
93+70.00	104+55.37	LT	1085.37	5.00	0.9918		5382.35											10.76		33.22										
104+55.37	106+55.37	LT	200.00	5.00	0.9953		995.30											1.99		6.14										
106+55.37	111+39.67	LT	484.30	5.00	0.9987		2418.35											4.84		14.93										
RAMP B																														
197+05.36	198+05.36	LT	100.00	5.00	0.9932		496.60											0.99		3.07										
198+05.36	199+05.36	LT	100.00	5.00	0.9938		496.90											0.99		3.07										
199+05.36	199+59.22	LT	53.86	5.00	0.9876		265.96											0.53		1.64										
203+35.49	203+99.50	LT	64.01	5.00	0.9876		316.08											0.63		1.95										
203+99.50	205+99.50	LT	200.00	5.00	0.9938		993.80											1.99		6.13										
205+99.50	207+73.39	LT	173.89	5.00			869.45											1.74		5.37										
207+73.39	209+73.39	LT	200.00	5.00	0.9927		992.70											1.99		6.13										
209+73.39	213+58.80	LT	385.41	5.00	0.9853		1898.72											3.80		11.72										
213+58.80	214+90.00	LT	131.20	5.00	0.9927		651.21											1.30		4.02										
207+26.23	207+73.39	RT	47.16	5.00			235.80											0.47		1.46										
207+26.23	209+73.39	RT	247.16	5.00	1.0157		1255.20											2.51		7.75										
209+73.39	213+07.52	RT	334.13	5.00	1.0314		1723.11											3.45		10.64										
RAMP B-1																														
402+43.78	404+19.09	LT	175.31	5.00			876.55											1.75		5.41										
409+32.36	415+62.45	LT	630.09	5.00	0.9644		3038.29											6.08		18.75										
415+62.45	417+55.68	LT	193.23	5.00	0.9813		948.08											1.90		5.85										
417+55.68	417+62.45	LT	6.77	5.00	0.9813		33.22											0.07		0.21										
417+62.45	418+55.68	LT	93.23	5.00	0.9977		465.08											0.93		2.87										
418+55.68	420+52.92	LT	197.24	5.00	0.9973		983.54											1.97		6.07										
420+52.92	421+26.94	LT	74.02	CADD				526.16										0.74		3.25										
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																		**60**		**185**										

CALCULATED KRM

CHECKED PJF

PAVEMENT CALCULATIONS

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA										LINEAR GRADING, AS PER PLAN		2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), (UNDER GUARDRAIL), AS PER PLAN										
																		209		441										
FROM	TO		FT	FT			SF	SF										STA		CY										
		PAVING UNDER GUARDRAIL CONTD.																												
RAMP B-2																														
288+11.17	292+13.63	LT	402.46	5.00	0.9957		2003.65											4.01		12.37										
292+13.63	292+31.83	LT	18.20	4.50	0.9958		81.56											0.18		0.50										
292+80.00	292+90.00	LT	10.00	4.50	0.9954		44.79											0.10		0.28										
292+90.00	294+28.29	LT	138.29	5.00	0.9950		687.99											1.38		4.25										
294+28.29	294+71.25	LT	42.96	5.00	0.9953		213.79											0.43		1.32										
294+71.25	297+94.13	LT	322.88	5.00			1614.40											3.23		9.97										
297+94.13	300+94.13	LT	300.00	5.00	1.0011		1501.65											3.00		9.27										
300+94.13	301+40.65	LT	46.52	5.00			232.60											0.47		1.44										
305+45.16	307+30.56	LT	185.40	5.00	0.9935		920.97											1.84		5.69										
307+30.56	307+49.11	LT	18.55	5.00	0.9874		91.58											0.18		0.57										
307+49.11	307+88.67	LT	39.56	4.50	0.9880		175.88											0.39		1.09										
9+81.21	11+00.00	LT	118.79	5.00	0.9869		586.17											1.17		3.62										
11+00.00	13+87.73	LT	287.73	5.00	0.9864		1419.08											2.84		8.76										
13+87.73	15+16.41	LT	128.68	5.00	0.9932		639.02											1.28		3.94										
297+50.00	297+94.13	RT	44.13	5.00			220.65											0.44		1.36										
297+94.13	300+94.13	RT	300.00	5.00	0.9936		1490.40											2.98		9.20										
300+94.13	300+99.84	RT	5.71	5.00			28.55											0.06		0.18										
304+31.85	305+30.56	RT	98.71	5.00			493.55											0.99		3.05										
305+30.56	306+50.00	RT	119.44	5.00	1.0394		620.73											1.24		3.83										
306+50.00	307+30.56	RT	80.56	5.00	1.0392		418.59											0.84		2.58										
307+30.56	308+00.00	RT	69.44	5.00	1.0734		372.68											0.75		2.30										
308+00.00	308+15.76	RT	15.76	5.00	1.0712		84.41											0.17		0.52										
7+36.18	7+48.73	RT	12.55	5.00	1.0712		67.22											0.13		0.41										
7+48.73	7+65.76	RT	17.03	4.50	1.0707		82.05											0.18		0.51										
24+64.81	33+82.00	RT	917.19	5.00			4585.95											9.17		28.31										
RAMP C																														
583+64.85	585+16.40	LT	151.55	5.00	1.0079		763.74											1.53		4.71										
585+16.40	591+72.95	LT	656.55	5.00	1.0157		3334.29											6.67		20.58										
596+40.16	596+40.56	LT	0.40	5.00	1.0482		2.10											0.00		0.01										
582+07.62	583+16.40	RT	108.78	5.00			543.90											1.09		3.36										
583+16.40	585+16.40	RT	200.00	5.00	0.9970		997.00											1.99		6.15										
585+16.40	593+03.36	RT	786.96	5.00	0.9941		3911.58											7.82		24.15										
593+03.36	599+38.22	RT	634.86	5.00	0.9881		3136.53											6.27		19.36										
599+38.22	601+37.81	RT	199.59	5.00	0.9941		992.06											1.98		6.12										
601+37.81	602+87.81	RT	150.00	5.00	0.9970		747.75											1.50		4.62										
602+87.81	603+37.81	RT	50.00	5.00	0.9967		249.18											0.50		1.54										
603+37.81	606+67.88	RT	330.07	5.00			1650.35											3.30		10.19										
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																		71		217										

CALCULATED KRM

CHECKED PJF

PAVEMENT CALCULATIONS

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA										209		441									
																		LINEAR GRADING, AS PER PLAN		2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), (UNDER GUARDRAIL), AS PER PLAN										
FROM	TO		FT	FT			SF	SF										STA		CY									
PAVING UNDER GUARDRAIL CONTD.																													
RAMP C-1																													
679+60.74	680+00.00	RT	39.26	5.00	0.9969		195.69											0.39		1.21									
680+00.00	680+32.00	RT	32.00	5.00	0.9967		159.47											0.32		0.98									
680+32.00	682+95.50	RT	263.50	5.00	0.9965		1312.89											2.63		8.10									
682+95.50	683+18.39	RT	22.89	5.00	0.9966		114.06											0.23		0.70									
683+18.39	683+45.50	RT	27.11	5.00	0.9795		132.77											0.27		0.82									
683+45.50	684+21.24	RT	75.74	5.00	0.9808		371.43											0.74		2.29									
695+70.21	698+46.04	RT	275.83	5.00			1379.15											2.76		8.51									
698+46.04	698+64.18	RT	18.14	4.50			81.63											0.18		0.50									
RAMP C-2																													
786+26.05	787+32.53	LT	106.48	5.00	1.0321		549.49											1.10		3.39									
787+32.53	789+07.95	LT	175.42	5.00	1.0641		933.32											1.87		5.76									
793+51.56	793+69.60	LT	18.04	4.50	1.0063		81.69											0.18		0.50									
793+69.60	796+59.71	LT	290.11	5.00	1.0064		1459.83											2.92		9.01									
781+45.30	782+93.84	RT	148.54	5.00	1.0087		749.16											1.50		4.62									
782+93.84	784+43.84	RT	150.00	5.00	1.0043		753.23											1.51		4.65									
784+43.84	784+82.53	RT	38.69	5.00			193.45											0.39		1.19									
784+82.53	787+32.53	RT	250.00	5.00	0.9915		1239.38											2.48		7.65									
787+32.53	789+07.95	RT	175.42	5.00	0.9830		862.19											1.72		5.32									
795+19.05	795+37.22	RT	18.17	4.50	0.9984		81.63											0.18		0.50									
795+37.22	795+95.44	RT	58.22	5.00	0.9983		290.61											0.58		1.79									
795+95.44	796+95.44	RT	100.00	5.00	0.9978		498.90											1.00		3.08									
796+95.44	799+78.00	RT	282.56	5.00	0.9973		1408.99											2.82		8.70									
801+34.00	801+48.92	RT	14.92	4.50	0.9973		66.96											0.15		0.41									
RAMP D																													
893+01.77	895+17.13	LT	215.36	5.00	1.0049		1082.08											2.16		6.68									
895+17.13	897+17.13	LT	200.00	5.00	1.0079		1007.90											2.02		6.22									
897+17.13	899+01.12	LT	183.99	5.00	1.0108		929.89											1.86		5.74									
899+01.12	901+01.12	LT	200.00	5.00	1.0123		1012.30											2.02		6.25									
901+01.12	904+64.95	LT	363.83	5.00	1.0137		1844.07											3.69		11.38									
888+67.17	892+66.83	RT	399.66	5.00	0.9973		1992.90											3.99		12.30									
892+66.83	893+66.83	RT	100.00	5.00	0.9977		498.85											1.00		3.08									
893+66.83	895+17.13	RT	150.30	5.00	0.9981		750.07											1.50		4.63									
895+17.13	897+17.13	RT	200.00	5.00	0.9970		997.00											1.99		6.15									
897+17.13	899+01.12	RT	183.99	5.00	0.9959		916.18											1.83		5.66									
899+01.12	901+01.12	RT	200.00	5.00	0.9954		995.40											1.99		6.14									
901+01.12	908+55.05	RT	753.93	5.00	0.9948		3750.05											7.50		23.15									
908+55.05	910+05.05	RT	150.00	5.00	0.9955		746.63											1.49		4.61									
910+05.05	910+55.05	RT	50.00	5.00	0.9950		248.75											0.50		1.54									
910+55.05	914+75.00	RT	419.95	5.00	0.9953		2089.88											4.18		12.90									
914+75.00	914+89.28	RT	14.28	5.00	0.9954		71.07											0.14		0.44									
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																		**64**		**197**									

CALCULATED KRM

CHECKED PJF

PAVEMENT CALCULATIONS

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA										209	408	441			617	617	617				
																		LINEAR GRADING, AS PER PLAN	PRIME COAT, AS PER PLAN (0.4 GAL/SY)	2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), (UNDER GUARDRAIL), AS PER PLAN			WATER ((A*0.300)/1000)	COMPACTED AGGREGATE, AS PER PLAN (T=2")	SHOULDER PREPARATION				
FROM	TO		FT	FT			SF	SF										STA	GAL	CY			MGAL	CY	SY				
PAVING UNDER GUARDRAIL CONTD.																													
WARNER RD.																													
24+58.25	25+01.85	LT	43.60	5.00			218.00											0.44		1.35									
25+01.85	25+20.00	LT	18.15	4.50			81.68											0.18		0.50									
26+88.48	27+06.73	LT	18.25	4.50	0.9933		81.57											0.18		0.50									
27+06.73	27+38.16	LT	31.43	5.00	0.9932		156.08											0.31		0.96									
27+38.16	27+48.86	LT	10.70	5.00	0.9931		53.13											0.11		0.33									
27+48.86	27+53.50	LT	4.64	5.00	0.9930		23.04											0.05		0.14									
27+53.50	28+45.93	LT	92.43	CADD				456.08										0.92		2.82									
24+40.09	24+88.94	RT	48.85	CADD				328.26										0.49		2.03									
24+88.94	25+13.44	RT	24.50	5.00			122.50											0.25		0.76									
25+13.44	25+31.58	RT	18.14	4.50			81.63											0.18		0.50									
26+98.84	27+20.91	RT	22.07	5.00	1.0092		111.37											0.22		0.69									
27+20.91	28+20.43	RT	99.52	CADD				620.49										1.00		3.83									
SHOULDER PREPARATION/COMPACTED AGGREGATE																													
NORTHBOUND/SOUTHBOUND I.R. 77 CL																													
460+00.00	461+00.00	LT	100.00	2.50			250.00												11.11				0.08	1.54	27.78				
461+00.00	467+30.42	LT	630.42	5.00			3152.10												140.09				0.95	19.46	350.23				
394+40.00	394+62.50	RT	22.50	2.25	1.0037		50.81												2.26				0.02	0.31	5.65				
404+59.11	405+00.00	RT	40.89	2.50			102.22												4.54				0.03	0.63	11.36				
405+00.00	407+50.59	RT	250.59	5.00			1252.95												55.69				0.38	7.73	139.22				
446+23.71	448+23.91	RT	200.20	5.00	1.0051		1006.11												44.72				0.30	6.21	111.79				
448+23.91	449+00.00	RT	76.09	5.00			380.45												16.91				0.11	2.35	42.27				
449+00.00	450+00.00	RT	100.00	2.50			250.00												11.11				0.08	1.54	27.78				
457+00.00	458+00.00	RT	100.00	2.50			250.00												11.11				0.08	1.54	27.78				
458+00.00	461+21.17	RT	321.17	5.00			1605.85												71.37				0.48	9.91	178.43				
469+23.83	469+46.33	RT	22.50	2.25			50.63												2.25				0.02	0.31	5.63				
NORTHBOUND I.R. 77 BL																													
502+11.45	504+00.00	RT	188.55	5.00			942.75												41.90				0.28	5.82	104.75				
504+00.00	505+00.00	RT	100.00	2.50			250.00												11.11				0.08	1.54	27.78				
EASTBOUND/WESTBOUND I.R. 277 CL																													
269+40.00	270+00.00	LT	60.00	2.50			150.00												6.67				0.05	0.93	16.67				
270+00.00	271+00.00	LT	100.00	5.00			500.00												22.22				0.15	3.09	55.56				
247+00.00	248+00.00	RT	100.00	2.50			250.00												11.11				0.08	1.54	27.78				
248+00.00	248+78.78	RT	78.78	5.00			393.90												17.51				0.12	2.43	43.77				
RAMP A																													
94+31.30	104+55.37	RT	1024.07	2.00	1.0190		2087.05												92.76				0.63	12.88	231.89				
104+55.37	105+73.63	RT	118.26	2.00	1.0110		239.12												10.63				0.07	1.48	26.57				
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																		**5**	**586**	**15**			**4**	**82**	**1463**				

CALCULATED KRM

CHECKED PJF

PAVEMENT CALCULATIONS

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA											408				617	617	617				
																			PRIME COAT, AS PER PLAN (0.4 GAL/SY)				WATER ((A*0.300)/1000)	COMPACTED AGGREGATE, AS PER PLAN (T=2")	SHOULDER PREPARATION				
FROM	TO		FT	FT			SF	SF											GAL				MGAL	CY	SY				
SHOULDER PREPARATION/COMPACTED AGGREGATE CONTD.																													
RAMP B																													
205+85.38	205+99.50	RT	14.12	2.00	1.0124		28.59												1.27				0.01	0.18	3.18				
205+99.50	207+00.00	RT	100.50	2.00			201.00												8.93				0.06	1.24	22.33				
207+00.00	207+26.23	RT	26.23	3.50			91.80												4.08				0.03	0.57	10.20				
213+07.52	213+58.80	RT	51.28	5.00	1.0304		264.19												11.74				0.08	1.63	29.35				
213+58.80	214+00.00	RT	41.20	5.00	1.0152		209.13												9.29				0.06	1.29	23.24				
214+00.00	214+50.00	RT	50.00	5.00	1.0152		253.80												11.28				0.08	1.57	28.20				
214+50.00	214+90.00	RT	40.00	2.00	1.0142		81.14												3.61				0.02	0.50	9.02				
RAMP B-1																													
405+01.68	405+51.67	LT	49.99	2.00	0.9918		99.16												4.41				0.03	0.61	11.02				
405+51.67	407+01.68	LT	150.01	2.00	0.9928		297.86												13.24				0.09	1.84	33.10				
407+01.68	408+50.17	LT	148.49	2.00	0.9856		292.70												13.01				0.09	1.81	32.52				
408+50.17	409+00.00	LT	49.83	2.00	0.9707		96.74												4.30				0.03	0.60	10.75				
409+00.00	409+32.36	LT	32.36	3.50	0.9675		109.58												4.87				0.03	0.68	12.18				
406+30.94	407+01.68	RT	70.74	3.00	1.0210		216.68												9.63				0.07	1.34	24.08				
407+01.68	408+50.17	RT	148.49	3.00	1.0420		464.18												20.63				0.14	2.87	51.58				
408+50.17	411+00.00	RT	249.83	3.00	1.0859		813.87												36.17				0.24	5.02	90.43				
411+00.00	411+50.00	RT	50.00	4.00	1.0880		217.60												9.67				0.07	1.34	24.18				
411+50.00	415+62.45	RT	412.45	5.00	1.0901		2248.06												99.91				0.67	13.88	249.78				
415+62.45	416+00.00	RT	37.55	4.00	1.0463		157.15												6.98				0.05	0.97	17.46				
416+00.00	417+62.45	RT	162.45	3.00	1.0452		509.38												22.64				0.15	3.14	56.60				
417+62.45	418+56.14	RT	93.69	3.00	1.0045		282.33												12.55				0.08	1.74	31.37				
RAMP B-2																													
301+40.65	305+30.56	LT	389.91	5.00			1949.55												86.65				0.58	12.03	216.62				
305+30.56	305+45.16	LT	14.60	5.00	0.9932		72.50												3.22				0.02	0.45	8.06				
15+16.41	17+00.00	LT	183.59	5.00	1.0038		921.44												40.95				0.28	5.69	102.38				
17+00.00	17+50.00	LT	50.00	3.50	1.0034		175.60												7.80				0.05	1.08	19.51				
17+50.00	19+62.73	LT	212.73	2.00	1.0029		426.69												18.96				0.13	2.63	47.41				
19+62.73	22+39.81	LT	277.08	2.00	1.0059		557.43												24.77				0.17	3.44	61.94				
22+39.81	23+18.83	LT	79.02	2.00	1.0029		158.50												7.04				0.05	0.98	17.61				
300+99.84	304+31.85	LT	332.01	5.00			1660.05												73.78				0.50	10.25	184.45				
RAMP C																													
581+23.51	582+50.00	LT	126.49	2.00			252.98												11.24				0.08	1.56	28.11				
582+50.00	583+00.00	LT	50.00	3.50			175.00												7.78				0.05	1.08	19.44				
583+00.00	583+16.40	LT	16.40	5.00			82.00												3.64				0.02	0.51	9.11				
583+16.40	583+64.85	LT	48.45	5.00	1.0079		244.16												10.85				0.07	1.51	27.13				
591+72.95	592+00.00	LT	27.05	3.50	1.0152		96.11												4.27				0.03	0.59	10.68				
592+00.00	592+97.65	LT	97.65	2.00	1.0147		198.17												8.81				0.06	1.22	22.02				
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																			**618**				**5**	**86**	**1546**				

CALCULATED KRM

CHECKED PJF

PAVEMENT CALCULATIONS

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA											PRIME COAT, AS PER PLAN (0.4 GAL/SY)				WATER ((A*0.300)/1000)	COMPACTED AGGREGATE, AS PER PLAN (T=2")	SHOULDER PREPARATION				
																			408				617	617	617				
FROM	TO		FT	FT			SF	SF											GAL				MGAL	CY	SY				
SHOULDER PREPARATION/COMPACTED AGGREGATE CONTD.																													
RAMP C																													
596+40.62	596+50.00	LT	9.38	3.50	1.0469		34.37												1.53				0.01	0.21	3.82				
596+50.00	599+38.22	LT	288.22	2.00	1.0399		599.44												26.64				0.18	3.70	66.60				
599+38.22	600+60.00	LT	121.78	2.00	1.0159		247.43												11.00				0.07	1.53	27.49				
600+60.00	600+64.14	LT	4.14	2.00	1.0147		8.40												0.37				0.00	0.05	0.93				
581+74.01	582+00.00	RT	25.99	1.00			25.99												1.16				0.01	0.16	2.89				
582+00.00	582+07.62	RT	7.62	3.50			26.67												1.19				0.01	0.16	2.96				
RAMP C-1																													
682+94.89	683+18.39	LT	23.50	3.00	1.0069		70.99												3.16				0.02	0.44	7.89				
683+18.39	684+50.00	LT	131.61	3.00	1.0464		413.15												18.36				0.12	2.55	45.91				
684+50.00	685+00.00	LT	50.00	4.00	1.0475		209.50												9.31				0.06	1.29	23.28				
685+00.00	685+18.39	LT	18.39	5.00	1.0486		96.42												4.29				0.03	0.60	10.71				
685+18.39	686+00.00	LT	81.61	5.00	1.0901		444.82												19.77				0.13	2.75	49.42				
686+00.00	686+50.00	LT	50.00	4.00	1.0880		217.60												9.67				0.07	1.34	24.18				
686+50.00	691+94.95	LT	544.95	3.00	1.0859		1775.28												78.90				0.53	10.96	197.25				
691+94.95	693+70.33	LT	175.38	3.00	1.0429		548.71												24.39				0.16	3.39	60.97				
684+21.24	685+18.39	RT	97.15	5.00	0.9808		476.42												21.17				0.14	2.94	52.94				
685+18.39	689+50.00	RT	431.61	5.00	0.9644		2081.22												92.50				0.62	12.85	231.25				
689+50.00	690+00.00	RT	50.00	3.50	0.9675		169.31												7.52				0.05	1.05	18.81				
690+00.00	691+94.95	RT	194.95	2.00	0.9707		378.48												16.82				0.11	2.34	42.05				
691+94.95	694+44.95	RT	250.00	2.00	0.9853		492.65												21.90				0.15	3.04	54.74				
694+44.95	694+94.95	RT	50.00	1.00	0.9864		49.32												2.19				0.01	0.30	5.48				
700+29.18	702+11.45	RT	182.27	5.00			911.35												40.50				0.27	5.63	101.26				
RAMP C-2																													
785+00.63	786+00.00	LT	99.37	2.00	0.9699		192.76												8.57				0.06	1.19	21.42				
786+00.00	786+26.05	LT	26.05	3.50	0.9689		88.34												3.93				0.03	0.55	9.82				
RAMP D																													
904+64.95	906+00.00	LT	135.05	5.00	0.9863		666.00												29.60				0.20	4.11	74.00				
906+00.00	906+50.00	LT	50.00	3.50	0.9867		172.67												7.67				0.05	1.07	19.19				
906+50.00	907+64.26	LT	114.26	2.00	0.9872		225.59												10.03				0.07	1.39	25.07				
																			0.00				0.00	0.00	0.00				
887+98.38	888+67.17	RT	68.79	5.00	0.9973		343.02												15.25				0.10	2.12	38.11				
ARLINGTON RD. RAMP D																													
71+69.06	72+67.31	RT	98.25	CADD				297.55											13.22				0.09	1.84	33.06				
72+67.31	73+00.00	RT	32.69	5.00	0.9969		162.94												7.24				0.05	1.01	18.10				
73+00.00	73+50.00	RT	50.00	3.50	0.9973		174.53												7.76				0.05	1.08	19.39				
73+50.00	74+47.06	RT	97.06	2.00	0.9979		193.71												8.61				0.06	1.20	21.52				
74+47.06	75+16.71	RT	69.65	2.00	0.9982		139.05												6.18				0.04	0.86	15.45				
75+16.71	81+17.83	RT	601.12	2.00			1202.24												53.43				0.36	7.42	133.58				
81+17.83	81+67.80	RT	49.97	1.00			49.97												2.22				0.01	0.31	5.55				
WARNER RD.																													
24+50.00	24+58.25	LT	8.25	5.00			41.25												1.83				0.01	0.25	4.58				
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																			**588**				**4**	**82**	**1470**				

CALCULATED KRM

CHECKED PJF

PAVEMENT CALCULATIONS

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	EACH									304	601	622	622		622	622	622	622			
																		6" AGGREGATE BASE	CONCRETE SLOPE PROTECTION	CONCRETE BARRIER, SINGLE SLOPE, TYPE B1	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1		CONCRETE BARRIER, SINGLE SLOPE, TYPE C1	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1, AS PER PLAN	BARRIER TRANSITION			
FROM	TO		FT	FT			SF	SF										CY	SY	FT	EACH		FT	EACH	EACH	EACH			
			BARRIER																										
NORTHBOUND/SOUTHBOUND I.R. 77 CL																													
371+50.00	398+00.00	LT/RT	2650.00																				2650.00	11	1	1			
398+00.00	421+00.00	LT/RT	2300.00																	2300.00	14								
421+00.00	425+30.16	LT/RT	430.16																				430.16	5	2				
426+85.73	429+01.43	LT/RT	215.70																				215.70	6					
431+16.15	469+36.72	LT/RT	3820.57																				3820.57	32	1				
EASTBOUND/WESTBOUND I.R. 277 CL																													
241+20.00	242+80.00	LT/RT	160.00																	160.00				2		2			
DEDUCTIONS																													
OVERHEAD SIGN FOUNDATIONS			10.00						6.00											-10.00			-50.00						
MEDIAN INLETS			20.00						29.00											-140.00			-440.00						
END ANCHORAGES, TYPE B1			15.00						14.00											-210.00									
END ANCHORAGES, TYPE C1			15.00						57.00														-855.00						
END ANCHORAGES, TYPE C1, AS PER PLAN			VAR.						4.00														-64.12						
CONCRETE SLOPE PROTECTION																													
NORTHBOUND I.R. 77 BL																													
469+77.00	473+00.00	LT	323.00	CADD				1939.22											215.47										
494+84.83	496+00.00	LT	115.17	CADD				506.91											56.32										
VARIABLE DEPTH AGGREGATE BASE UNDER MEDIAN																													
371+50.00	380+50.00	LT/RT	900.00				9.77											325.67											
380+50.00	425+30.16	LT/RT	4480.16				3.60											597.35											
426+85.73	429+01.43	LT/RT	215.70				3.60											28.76											
431+16.15	469+36.72	LT/RT	3820.57				3.60											509.41											
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																		**1462**	**272**	**2100**	**14**		**5708**	**56**	**4**	**3**			

CALCULATED LRK

CHECKED PJF

PAVEMENT CALCULATIONS

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA								442		618											
																1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN		RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)											
FROM	TO		FT	FT			SF	SF								CY		MILE											
RUMBLE STRIPS																													
NORTHBOUND I.R. 77 CL																													
424+86.43	425+11.43	RT/OUT	25.00															0.005											
426+67.00	426+92.00	RT/OUT	25.00															0.005											
425+01.96	425+26.96	RT/IN	25.00															0.005											
426+82.53	427+07.53	RT/IN	25.00															0.005											
SOUTHBOUND I.R. 77 CL																													
425+23.89	425+48.89	LT/OUT	25.00															0.005											
427+04.45	427+29.45	LT/OUT	25.00															0.005											
375+92.24	376+20.24	LT/IN	28.00															0.005											
425+08.36	425+33.36	LT/IN	25.00															0.005											
426+88.92	427+13.92	LT/IN	25.00															0.005											
SOUTHBOUND I.R. 77 BL																													
494+44.48	502+43.78	LT	799.30															0.151											
504+00.29	514+95.00	LT	1094.71															0.207											
494+44.48	497+94.61	RT	350.13															0.066											
501+48.92	514+95.00	RT	1346.08															0.255											
RAMP B-1																													
402+43.78	404+01.23	LT	157.45															0.030											
RAMP C-2																													
797+94.10	801+48.92	RT	354.82															0.067											
BARRIER DEDUCTIONS																													
NORTHBOUND/SOUTHBOUND I.R. 77 CL																													
425+05.16	425+30.16	LT/RT	25.00	2.81			70.25									-0.33													
426+85.73	427+10.73	LT/RT	25.00	2.81			70.25									-0.33													
EASTBOUND/WESTBOUND I.R. 277 CL																													
241+20.00	242+80.00	LT/RT	160.00	2.81			449.60									-2.08													
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																-3		1											

CALCULATED LRK

CHECKED PJF

PAVEMENT CALCULATIONS

SUM-77/277/224 VARIOUS

SHEET NO.		302 ASPHALT CONCRETE BASE, PG64-22	304 AGGREGATE BASE			407 NON-TRACKING TACK COAT		442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN	442 ANTI-SEGREGATION EQUIPMENT		609 CURB, TYPE 4-C, AS PER PLAN		618 RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)								
FLEXIBLE PVMT.		CU YD	CU YD			GALLON		CU YD	CU YD	CU YD		FT		MILE								
2		14388	10900			10656		2676	3124	5012		77										
3		13788	10388			10225		2576	3006	3960		19										
4		8123	6149			6018		1513	1765	1950		64										
5		5213	4011			3846		957	1119	1311		78										
6		2605	1988			1925		478	562			19										
7		3383	2615			2492		620	723	900												
8		2129	1673			1561		385	449	532												
9		3484	2666			2575		644	752	1189		206										
10		2083	1603			1535		376	447	536		19										
11		1797	1432			1313		321	375	363												
12		1119	895			817		197	233	177		55										
13		1936	1516			1421		351	409	469												
14														10								
15								-122						2								
TOTALS CARRIED TO THE GENERAL SUMMARY		**60048**	**45836**			**44384**		**10972**	**12964**	**16399**		**537**		**12**								
SHEET NO.																						
~~RIGID PVMT.~~																						
TOTALS CARRIED TO THE GENERAL SUMMARY																						

CALCULATED LRK

CHECKED PJF

ALTERNATE BID PAVEMENT SUBSUMMARY

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 10" EXTENSION	AREA FOR 16" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	AREA FOR 22.875" EXTENSION		302 8" ASPHALT CONCRETE BASE, PG64-22	304 6" AGGREGATE BASE		407 NON-TRACKING TACK COAT (0.055 GAL/SY - 3 APPLICATIONS)			442 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	442 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN	442 ANTI-SEGREGATION EQUIPMENT		609 CURB, TYPE 4-C, AS PER PLAN	
			FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	SF	SF		CY	CY		GAL			CY	CY	CY		FT	
NORTHBOUND I.R. 77 CL																													
FULL DEPTH LANES																													
371+50.00	374+77.72	RT	327.72	48.34	0.9889		15666.14											386.82	290.11		287.21			72.53	84.62	157.15			
374+77.72	388+24.90	RT	1347.18	48.00			64664.64											1596.66	1197.49		1185.52			299.37	349.27	648.64			
388+24.90	391+37.36	RT	312.46	60.00			18747.60											462.90	347.18		343.71			86.79	101.26	188.05			
391+37.36	404+59.11	RT	1321.75	60.00	1.0019		79455.68											1961.87	1471.40		1456.69			367.85	429.16	797.01			
404+59.11	415+60.00	RT	1100.89	60.00			66053.40											1630.95	1223.21		1210.98			305.80	356.77	662.57			
415+60.00	424+00.00	RT	840.00	54.00			45360.00											1120.00	840.00		831.60			210.00	245.00	455.00			
424+00.00	424+94.20	RT	94.20	48.00			4521.60											111.64	83.73		82.90			20.93	24.42	45.35			
426+99.77	428+41.24	RT	141.47	48.00			6790.56											167.67	125.75		124.49			31.44	36.68	68.12			
428+41.24	428+93.61	RT	52.37	48.00	1.0025		2520.04											62.22	46.67		46.20			11.67	13.61	25.28			
431+07.76	448+23.91	RT	1716.15	48.00	1.0025		82581.14											2039.04	1529.28		1513.99			382.32	446.04	828.36			
448+23.91	459+50.00	RT	1126.09	48.00			54052.32											1334.63	1000.97		990.96			250.24	291.95	542.19			
459+50.00	460+50.00	RT	100.00	54.00			5400.00											133.33	100.00		99.00			25.00	29.17	54.17			
460+50.00	469+46.33	RT	896.33	60.00			53779.80											1327.90	995.92		985.96			248.98	290.48	539.46			
FULL DEPTH SHOULDER																													
371+50.00	371+67.11	RT/OUT	17.11	11.93	0.9808	0.9793	200.20		5.59		13.96	22.34						5.18	4.12		3.79			0.93	1.08				
388+24.90	391+37.36	RT/OUT	312.46	10.00			3124.60		104.15		260.38	416.61						81.65	65.58		59.51			14.47	16.88				
391+37.36	392+12.50	RT/OUT	75.14	10.00	1.0036	1.0038	754.11		25.14		62.85	100.57						19.71	15.83		14.36			3.49	4.07				
392+12.50	393+25.00	RT/OUT	112.50	7.75	1.0035	1.0037	874.93		37.64		94.10	150.56						23.23	18.99		16.85			4.05	4.73				
393+25.00	393+56.92	RT/OUT	31.92	5.50	1.0035	1.0036	176.17		10.68		26.70	42.71						4.81	4.05		3.46			0.82	0.95				
393+56.92	393+75.00	RT/OUT	18.08	5.50	1.0035	1.0036	99.79						27.22					2.46	2.35		1.83			0.46	0.54			18.15	
393+75.00	394+40.00	RT/OUT	65.00	5.50	1.0035	1.0036	358.75			32.62	54.36	86.98		108.72	119.60			13.29	10.87		9.63			1.66	2.70				
394+40.00	394+62.50	RT/OUT	22.50	7.75	1.0035	1.0037	174.99		7.53		18.82	30.11						4.65	3.80		3.37			0.81	0.95				
394+62.50	404+59.11	RT/OUT	996.61	10.00	1.0036	1.0038	10001.98		333.47		833.66	1333.86						261.37	209.92		190.50			46.31	54.02				
404+59.11	424+25.00	RT/OUT	1965.89	10.00			19658.90		655.30		1638.24	2621.19						513.72	412.59		374.43			91.01	106.18				
424+25.00	424+61.65	RT/OUT	36.65	13.67			501.01		12.22		30.54	48.87						12.90	10.18		9.45			2.32	2.71				
424+61.65	424+81.61	RT/OUT	19.96	CADD				391.71	6.65		16.63	26.61						9.96	7.75		7.32			1.81	2.12				
426+87.13	426+92.46	RT/OUT	5.33	CADD				46.63	1.78		4.44	7.11						1.23	1.00		0.89			0.22	0.25				
426+92.46	428+41.24	RT/OUT	148.78	17.50			2603.65		49.59		123.98	198.37						66.43	51.89		48.79			12.05	14.06				
428+41.24	428+68.64	RT/OUT	27.40	17.50	1.0048	1.0054	481.80		9.18		22.96	36.73						12.29	9.60		9.03			2.23	2.60				
428+68.64	428+84.65	RT/OUT	16.01	CADD				314.72					24.02					7.77	6.27		5.77			1.46	1.70			16.15	
430+98.14	431+22.50	RT/OUT	24.36	CADD				392.74					36.54					9.70	7.95		7.20			1.82	2.12			24.49	
431+22.50	433+10.00	RT/OUT	187.50	13.75	1.0047	1.0052	2590.24		62.83		157.06	251.30						66.67	52.62		48.83			11.99	13.99				
433+10.00	448+23.91	RT/OUT	1513.91	10.00	1.0046	1.0049	15208.74		507.11		1267.77	2028.44						397.44	319.21		289.67			70.41	82.15				
448+23.91	467+02.50	RT/OUT	1878.59	10.00			18785.90		626.20		1565.49	2504.79						490.91	394.27		357.80			86.97	101.47				
467+02.50	468+15.00	RT/OUT	112.50	7.75			871.88		37.50		93.75	150.00						23.15	18.92		16.79			4.04	4.71				
468+15.00	468+46.85	RT/OUT	31.85	5.50			175.17		10.62		26.54	42.47						4.78	4.03		3.44			0.81	0.95				
468+46.85	468+65.00	RT/OUT	18.15	5.50			99.83						27.23					2.46	2.35		1.83			0.46	0.54			18.15	
468+65.00	469+23.83	RT/OUT	58.83	5.50			323.57			29.42	49.03	78.44		98.05	107.86			11.98	9.81		8.69			1.50	2.44				
469+23.83	469+46.33	RT/OUT	22.50	7.75			174.38		7.50		18.75	30.00						4.63	3.78		3.36			0.81	0.94				
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																		**14388**	**10900**		**10656**			**2676**	**3124**	**5012**		**77**	

CALCULATED LRK

CHECKED PJE

PAVEMENT CALCULATIONS (FLEXIBLE)

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 10" EXTENSION	AREA FOR 16" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	AREA FOR 22.875" EXTENSION		302 8" ASPHALT CONCRETE BASE, PG64-22	304 6" AGGREGATE BASE		407 NON-TRACKING TACK COAT (0.055 GAL/SY - 3 APPLICATIONS)			442 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	442 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN	442 ANTI-SEGREGATION EQUIPMENT		609 CURB, TYPE 4-C, AS PER PLAN	
			FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	SF	SF		CY	CY		GAL			CY	CY	CY		FT	
		NORTHBOUND I.R. 77 CL CONTD.																											
FULL DEPTH SHOULDER CONTD.																													
371+50.00	377+02.12	RT/IN	552.12		CADD			12310.94										303.97	227.98		225.70			57.00	66.49				
377+02.12	380+50.00	RT/IN	347.88	15.53			5402.58											133.40	100.05		99.05			25.01	29.18				
380+50.00	391+37.36	RT/IN	1087.36	13.79			14994.69											370.24	277.68		274.90			69.42	80.99				
391+37.36	404+59.11	RT/IN	1321.75	12.00	1.0003	1.0006	15865.76											391.75	293.81		290.87			73.45	85.69				
404+59.11	425+03.33	RT/IN	2044.22	12.00			24530.64											605.69	454.27		449.73			113.57	132.50				
427+08.90	428+41.24	RT/IN	132.34	12.00			1588.08											39.21	29.41		29.11			7.35	8.58				
428+41.24	429+00.13	RT/IN	58.89	12.00	1.0004	1.0008	706.96											17.46	13.09		12.96			3.27	3.82				
431+14.75	448+23.91	RT/IN	1709.16	12.00	1.0004	1.0008	20518.12											506.62	379.97		376.17			94.99	110.82				
448+23.91	451+10.00	RT/IN	286.09	12.00			3433.08											84.77	63.58		62.94			15.89	18.54				
451+10.00	459+50.00	RT/IN	840.00	18.00			15120.00											373.33	280.00		277.20			70.00	81.67				
459+50.00	460+50.00	RT/IN	100.00	18.00			1800.00											44.44	33.33		33.00			8.33	9.72				
460+50.00	469+36.72	RT/IN	886.72	12.00			10640.64											262.73	197.05		195.08			49.26	57.47				
469+36.72	469+46.33	RT/IN	9.61	8.98			86.30											2.13	1.60		1.58			0.40	0.47				
		SOUTHBOUND I.R. 77 CL																											
FULL DEPTH LANES																													
391+37.36	392+00.00	LT	62.64	48.29	0.9981		3019.14											74.55	55.91		55.35			13.98	16.31	30.29			
392+00.00	398+00.00	LT	600.00	48.00	0.9982		28748.16											709.83	532.37		527.05			133.09	155.28	288.37			
398+00.00	404+59.11	LT	659.11	48.00	0.9983		31583.50											779.84	584.88		579.03			146.22	170.59	316.81			
404+59.11	425+16.12	LT	2057.01	48.00			98736.48											2437.94	1828.45		1810.17			457.11	533.30	990.41			
427+21.69	428+41.24	LT	119.55	48.00			5738.40											141.69	106.27		105.20			26.57	30.99	57.56			
428+41.24	429+09.29	LT	68.05	48.00	0.9975		3258.23											80.45	60.34		59.73			15.08	17.60	32.68			
431+24.58	431+50.00	LT	25.42	48.00	0.9975		1217.11											30.05	22.54		22.31			5.63	6.57	12.20			
431+50.00	439+90.00	LT	840.00	54.00	0.9973		45237.53											1116.98	837.73		829.35			209.43	244.34	453.77			
439+90.00	448+23.91	LT	833.91	60.00	0.9970		49884.50											1231.72	923.79		914.55			230.95	269.44	500.39			
448+23.91	469+46.33	LT	2122.42	60.00			127345.20											3144.33	2358.24		2334.66			589.56	687.82	1277.38			
FULL DEPTH SHOULDER																													
391+37.36	392+00.00	LT/OUT	62.64	11.14	0.9967	0.9964	695.51		20.80		52.01	83.22						18.07	14.42		13.20			3.22	3.76				
392+00.00	393+85.00	LT/OUT	185.00	10.00	0.9968	0.9965	1844.08		61.45		153.63	245.80						48.19	38.70		35.12			8.54	9.96				
393+85.00	394+54.30	LT/OUT	69.30	10.00	0.9968	0.9966	690.78			34.53	57.55	92.09		115.11	126.62			21.75	17.27		15.90			3.20	4.54				
394+54.30	394+72.51	LT/OUT	18.21	10.00	0.9968	0.9966	181.52						27.22					4.48	3.87		3.33			0.84	0.98			18.15	
394+72.51	398+00.00	LT/OUT	327.49	10.00	0.9969	0.9967	3264.75		108.80		272.01	435.21						85.31	68.52		62.18			15.11	17.63				
398+00.00	404+59.11	LT/OUT	659.11	10.00	0.9970	0.9968	6571.33		219.00		547.50	876.00						171.72	137.91		125.16			30.42	35.49				
404+59.11	423+55.00	LT/OUT	1895.89	10.00			18958.90		631.96		1579.91	2527.85						495.43	397.90		361.10			87.77	102.40				
423+55.00	425+28.59	LT/OUT	173.59		CADD			2294.84	57.86		144.66	231.45						59.16	46.78		43.31			10.62	12.39				
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																		**13788**	**10388**		**10225**			**2576**	**3006**	**3960**		**19**	

CALCULATED LRK

CHECKED PJE

PAVEMENT CALCULATIONS (FLEXIBLE)

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 10" EXTENSION	AREA FOR 16" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	AREA FOR 22.875" EXTENSION		302 8" ASPHALT CONCRETE BASE, PG64-22	304 6" AGGREGATE BASE		407 NON-TRACKING TACK COAT (0.055 GAL/SY - 3 APPLICATIONS)			442 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	442 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN	442 ANTI-SEGREGATION EQUIPMENT		609 CURB, TYPE 4-C, AS PER PLAN	
			FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	SF	SF		CY	CY		GAL			CY	CY	CY		FT	
		SOUTHBOUND I.R. 77 CL CONTD.																											
FULL DEPTH SHOULDER CONTD.																													
427+34.41	427+52.06	LT/OUT	17.65	CADD				361.87					26.47					8.94	7.19		6.63			1.68	1.95			17.65	
427+52.06	427+60.00	LT/OUT	7.94	17.78			141.17		2.65		6.62	10.59						3.60	2.81		2.64			0.65	0.76				
427+60.00	427+67.00	LT/OUT	7.00	17.64			123.48		2.33		5.83	9.33						3.15	2.46		2.31			0.57	0.67				
427+67.00	428+41.24	LT/OUT	74.24	17.50			1299.20		24.75		61.87	98.99						33.15	25.89		24.35			6.01	7.02				
428+41.24	429+18.40	LT/OUT	77.16	CADD				1310.34	25.72		64.30	102.88						33.47	26.17		24.57			6.07	7.08				
431+34.35	431+80.00	LT/OUT	45.65	CADD				824.53					68.48					20.36	16.54		15.12			3.82	4.45			45.40	
431+80.00	432+13.00	LT/OUT	33.00	13.54	0.9953	0.9948	444.72		10.94		27.36	43.77						11.45	9.05		8.39			2.06	2.40				
432+13.00	439+90.00	LT/OUT	777.00	10.00	0.9950	0.9946	7731.15		257.60		644.00	1030.41						202.02	162.25		147.25			35.79	41.76				
439+90.00	448+23.91	LT/OUT	833.91	10.00	0.9946	0.9942	8294.07		276.36		690.89	1105.43						216.73	174.06		157.97			38.40	44.80				
448+23.91	468+67.50	LT/OUT	2043.59	10.00			20435.90		681.20		1702.99	2724.79						534.02	428.90		389.23			94.61	110.38				
468+67.50	468+90.00	LT/OUT	22.50	7.75			174.38		7.50		18.75	30.00						4.63	3.78		3.36			0.81	0.94				
468+90.00	469+15.00	LT/OUT	25.00	5.50			137.50		8.33		20.83	33.33						3.76	3.16		2.70			0.64	0.74				
469+15.00	469+46.33	LT/OUT	31.33	5.50			172.32			15.67	26.11	41.77		52.22	57.44			6.38	5.22		4.63			0.80	1.30				
391+37.36	392+00.00	LT/IN	62.64	17.78	0.9996	0.9992	1113.29											27.49	20.62		20.41			5.15	6.01				
392+00.00	398+00.00	LT/IN	600.00	15.00	0.9997	0.9993	8997.30											222.16	166.62		164.95			41.65	48.60				
398+00.00	404+59.11	LT/IN	659.11	12.00	0.9997	0.9994	7906.95											195.23	146.43		144.96			36.61	42.71				
404+59.11	425+06.99	LT/IN	2047.88	12.00			24574.56											606.78	455.08		450.53			113.77	132.73				
427+12.55	428+41.24	LT/IN	128.69	12.00			1544.28											38.13	28.60		28.31			7.15	8.34				
428+41.24	429+02.74	LT/IN	61.50	12.00	0.9996	0.9992	737.70											18.21	13.66		13.52			3.42	3.98				
431+17.55	448+23.91	LT/IN	1706.36	12.00	0.9996	0.9992	20468.13											505.39	379.04		375.25			94.76	110.55				
448+23.91	469+36.71	LT/IN	2112.80	12.00			25353.60											626.01	469.51		464.82			117.38	136.94				
469+36.71	469+46.33	LT/IN	9.62	8.99			86.48											2.14	1.60		1.59			0.40	0.47				
		NORTHBOUND I.R. 77 BL																											
FULL DEPTH LANES																													
469+46.96	472+26.99	LT	280.03	12.00			3360.36											82.97	62.23		61.61			15.56	18.15	33.71			
472+26.99	474+93.14	LT	266.15	12.00			3193.80											78.86	59.14		58.55			14.79	17.25	32.04			
474+93.14	485+64.96	LT	1071.82	12.00	0.9985		12842.55											317.10	237.83		235.45			59.46	69.37	128.83			
469+46.96	472+26.99	RT	280.03	48.00			13441.44											331.89	248.92		246.43			62.23	72.60	134.83			
472+26.99	474+93.14	RT	266.15	48.00			12775.20											315.44	236.58		234.21			59.14	69.00	128.14			
474+93.14	476+00.00	RT	106.86	48.00	1.0061		5160.57											127.42	95.57		94.61			23.89	27.87	51.76			
476+00.00	495+75.59	RT	1975.59	36.00	1.0046		71448.40											1764.16	1323.12		1309.89			330.78	385.91	716.69			
495+75.59	502+11.45	RT	635.86	36.00			22890.96											565.21	423.91		419.67			105.98	123.64	229.62			
502+11.45	506+65.75	RT	454.30	43.46			19743.88											487.50	365.63		361.97			91.41	106.64	198.05			
506+65.75	508+11.45	RT	145.70	37.46	0.9959		5435.54											134.21	100.66		99.65			25.16	29.36	54.52			
508+11.45	510+65.75	RT	254.30	36.00	0.9961		9119.10											225.16	168.87		167.18			42.22	49.25	91.47			
510+65.75	514+85.00	RT	419.25	36.00	0.9921		14973.77											369.72	277.29		274.52			69.32	80.88	150.20			
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																		**8123**	**6149**		**6018**			**1513**	**1765**	**1950**		**64**	

CALCULATED LRK

CHECKED PJF

PAVEMENT CALCULATIONS (FLEXIBLE)

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 10" EXTENSION	AREA FOR 16" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	AREA FOR 22.875" EXTENSION		302 8" ASPHALT CONCRETE BASE, PG64-22	304 6" AGGREGATE BASE		407 NON-TRACKING TACK COAT (0.055 GAL/SY - 3 APPLICATIONS)			442 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	442 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN	442 ANTI-SEGREGATION EQUIPMENT		609 CURB, TYPE 4-C, AS PER PLAN	
			FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	SF	SF		CY	CY		GAL			CY	CY	CY		FT	
		NORTHBOUND I.R. 77 BL CONTD.																											
FULL DEPTH SHOULDER																													
469+46.96	469+77.12	LT	30.16	9.53			287.42											7.10	5.32		5.27			1.33	1.55				
469+77.12	472+26.99	LT	249.87	10.00			2498.70											61.70	46.27		45.81			11.57	13.50				
472+26.99	474+93.14	LT	266.15	10.00			2661.50											65.72	49.29		48.79			12.32	14.38				
474+93.14	475+50.00	LT	56.86	10.00	0.9956	0.9944	566.10											13.98	10.48		10.38			2.62	3.06				
475+50.00	475+64.00	LT	14.00	10.00	0.9956	0.9944	139.38			6.96	11.60	18.56		23.20	25.52			4.39	3.48		3.21			0.65	0.92				
475+64.00	476+05.00	LT	41.00	10.00	0.9956	0.9944	408.20						61.16					10.08	8.69		7.48			1.89	2.20			40.77	
476+05.00	485+64.96	LT	959.96	10.00	0.9956	0.9944	9557.36		318.19		795.49	1272.78						249.73	200.56		182.02			44.25	51.62				
494+84.83	495+75.59	LT	90.76	10.00	0.9987	0.9974	906.42			45.26	75.44	120.70		150.87	165.96			28.53	22.65		20.86			4.20	5.96				
495+75.59	496+00.00	LT	24.41	10.00			244.10			12.21	20.34	32.55		40.68	44.75			7.68	6.10		5.62			1.13	1.60				
496+00.00	506+65.75	LT	1065.75	10.00			10657.50		355.25		888.13	1421.00						278.50	223.68		202.99			49.34	57.56				
506+65.75	510+65.75	LT	400.00	10.00	1.0011	1.0022	4004.40		133.63		334.07	534.51						104.65	84.05		76.27			18.54	21.63				
510+65.75	514+12.50	LT	346.75	10.00	1.0022	1.0044	3475.13		116.09		290.23	464.37						90.82	72.95		66.19			16.09	18.77				
514+12.50	514+85.00	LT	72.50	8.55	1.0019	1.0037	621.05		24.26		60.64	97.02						16.38	13.30		11.90			2.88	3.35				
469+46.96	472+26.99	RT	280.03	10.00			2800.30		93.34		233.36	373.37						73.18	58.77		53.34			12.96	15.13				
472+26.99	474+93.14	RT	266.15	10.00			2661.50		88.72		221.79	354.87						69.55	55.86		50.69			12.32	14.38				
474+93.14	476+00.00	RT	106.86	10.00	1.0136	1.0149	1083.13		36.15		90.38	144.60						28.31	22.74		20.63			5.01	5.85				
481+17.43	490+82.07	RT	964.64	10.00	1.0105	1.0118	9747.69		325.34		813.35	1301.36						254.74	204.61		185.67			45.13	52.65				
490+82.07	491+00.00	RT	17.93	10.00	1.0105	1.0118	181.18						27.21					4.47	3.86		3.32			0.84	0.98			18.14	
491+00.00	491+59.27	RT	59.27	10.00	1.0105	1.0118	598.92			29.98	49.97	79.96			109.94	114.32		19.21	15.24		14.05			2.77	4.01				
491+59.27	493+70.87	RT	211.60	10.00	1.0105	1.0118	2138.22		71.37		178.41	285.46						55.88	44.88		40.73			9.90	11.55				
502+11.45	506+65.75	RT	454.30	8.00			3634.40		151.43		378.58	605.73						96.28	78.52		69.87			16.83	19.63				
506+65.75	507+11.53	RT	45.78	8.00	0.9907	0.9899	362.83		15.11		37.76	60.42						9.61	7.84		6.97			1.68	1.96				
507+11.53	507+42.24	RT	30.71	8.31	0.9909	0.9900	252.88		10.13		25.34	40.54						6.68	5.43		4.85			1.17	1.37				
		SOUTHBOUND I.R. 77 BL																											
FULL DEPTH LANES																													
469+42.49	472+54.68	LT	312.19	60.00			18731.40											462.50	346.88		343.41			86.72	101.17	187.89			
472+54.68	486+63.69	LT	1409.01	60.00	0.9923		83889.64											2071.35	1553.51		1537.98			388.38	453.11	841.49			
486+63.69	492+81.37	LT	617.68	36.00	0.9954		22134.19											546.52	409.89		405.79			102.47	119.55	222.02			
492+81.37	494+44.48	LT	163.11	36.00			5871.96											144.99	108.74		107.65			27.19	31.72	58.91			
FULL DEPTH SHOULDER																													
469+42.49	469+62.50	LT	20.01	5.50			110.06			10.01	16.68	26.68		33.35	36.69			4.08	3.34		2.96			0.51	0.83				
469+62.50	469+80.65	LT	18.15	5.50			99.83						27.23					2.46	2.35		1.83			0.46	0.54			18.15	
469+80.65	470+12.50	LT	31.85	5.50			175.17		10.62		26.54	42.47						4.78	4.03		3.44			0.81	0.95				
470+12.50	471+25.00	LT	112.50	7.75			871.88		37.50		93.75	150.00						23.15	18.92		16.79			4.04	4.71				
471+25.00	472+54.68	LT	129.68	10.00			1296.80		43.23		108.07	172.91						33.89	27.22		24.70			6.00	7.00				
472+54.68	486+63.69	LT	1409.01	10.00	0.9834	0.9821	13856.20		461.26		1153.16	1845.05						362.06	290.76		263.90			64.15	74.84				
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																		**5213**	**4011**		**3846**			**957**	**1119**	**1311**		**78**	

CALCULATED LRK

CHECKED PJF

PAVEMENT CALCULATIONS (FLEXIBLE)

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 10" EXTENSION	AREA FOR 16" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	AREA FOR 22.875" EXTENSION		302 8" ASPHALT CONCRETE BASE, PG64-22	304 6" AGGREGATE BASE		407 NON-TRACKING TACK COAT (0.055 GAL/SY - 3 APPLICATIONS)			442 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	442 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN	442 ANTI-SEGREGATION EQUIPMENT		609 CURB, TYPE 4-C, AS PER PLAN	
			FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	SF	SF		CY	CY		GAL			CY	CY	CY		FT	
		SOUTHBOUND I.R. 77 BL CONTD.																											
FULL DEPTH SHOULDER CONTD.																													
469+42.49	469+72.74	RT	30.25	9.53			288.28											7.12	5.34		5.29			1.33	1.56				
469+72.74	470+07.74	RT	35.00	10.00			350.00			17.50	29.17	46.67			64.17	66.72		11.23	8.91		8.21			1.62	2.35				
470+07.74	472+54.68	RT	246.94	10.00			2469.40			123.47	205.78	329.25		411.57	452.72			77.74	61.74		56.84			11.43	16.23				
472+54.68	473+95.11	RT	140.43	10.00	1.0013	1.0026	1406.13			70.40	117.33	187.73		234.66	258.12			44.28	35.17		32.38			6.51	9.24				
473+95.11	474+13.21	RT	18.10	10.00	1.0013	1.0026	181.24						27.22					4.48	3.86		3.32			0.84	0.98			18.15	
474+13.21	492+81.37	RT	1868.16	10.00	1.0013	1.0026	18705.89		624.34		1560.85	2497.36						488.85	392.65		356.30			86.60	101.03				
492+81.37	494+44.48	RT	163.11	10.00			1631.10		54.37		135.93	217.48						42.62	34.23		31.07			7.55	8.81				
		GORE AREAS																											
NORTHBOUND I.R. 77/ARLINGTON RD. RAMP D																													
371+67.11	386+24.74	RT			CADD			17840.12										440.50	330.37		327.07			82.59	96.36				
NORTHBOUND I.R. 77/RAMP C																													
477+51.03	481+17.43	RT			CADD			3272.79										80.81	60.61		60.00			15.15	17.68				
NORTHBOUND I.R. 77/RAMP B-2																													
490+94.61	494+84.83	LT			CADD			4263.43										105.27	78.95		78.16			19.74	23.03				
NORTHBOUND I.R. 77/RAMP C-1																													
493+70.87	500+11.29	RT			CADD			4654.20										114.92	86.19		85.33			21.55	25.14				
NORTHBOUND I.R. 77/RAMP D																													
507+42.24	514+85.00	RT			CADD			6205.23										153.22	114.91		113.76			28.73	33.52				
SOUTHBOUND I.R. 77/RAMP A																													
486+63.69	494+44.48	LT			CADD			5756.26										142.13	106.60		105.53			26.65	31.09				
RAMP B-2/RAMP B																													
15+45.66	24+64.81	RT			CADD			6723.26										166.01	124.50		123.26			31.13	36.31				
RAMP C/RAMP C-2																													
592+97.65	594+99.78	LT			CADD			1287.70										31.80	23.85		23.61			5.96	6.96				
EASTBOUND I.R. 277/U.S. 224/RAMP A																													
242+62.73	245+79.53	RT			CADD			3850.68										95.08	71.31		70.60			17.83	20.80				
EASTBOUND I.R. 277/U.S. 224/RAMP C-1																													
258+30.01	260+76.94	RT			CADD			2416.60										59.67	44.75		44.30			11.19	13.05				
EASTBOUND I.R. 277/U.S. 224/RAMP C																													
271+44.10	277+49.68	RT			CADD			4499.70										111.10	83.33		82.49			20.83	24.30				
WESTBOUND I.R. 277/U.S. 224/RAMP B-2																													
225+00.00	235+63.23	LT			CADD			11404.51										281.59	211.19		209.08			52.80	61.60				
WESTBOUND I.R. 277/U.S. 224/RAMP B-1																													
247+80.74	250+78.79	LT			CADD			2906.77										71.77	53.83		53.29			13.46	15.70				
WESTBOUND I.R. 277/U.S. 224/RAMP D																													
264+70.74	268+04.44	LT			CADD			2993.91										73.92	55.44		54.89			13.86	16.17				
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																		**2605**	**1988**		**1925**			**478**	**562**			**19**	

CALCULATED LRK

CHECKED PJF

PAVEMENT CALCULATIONS (FLEXIBLE)

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 10" EXTENSION	AREA FOR 16" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	AREA FOR 22.875" EXTENSION		302 8" ASPHALT CONCRETE BASE, PG64-22	304 6" AGGREGATE BASE		407 NON-TRACKING TACK COAT (0.055 GAL/SY - 3 APPLICATIONS)			442 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	442 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN	442 ANTI-SEGREGATION EQUIPMENT		609 CURB, TYPE 4-C, AS PER PLAN	
			FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	SF	SF		CY	CY		GAL			CY	CY	CY		FT	
ARLINGTON RD. RAMP D																													
FULL DEPTH LANES																													
71+69.06	75+16.71	LT	347.65	16.00	1.0021		5574.08											137.63	103.22		102.19			25.81	30.11	55.92			
75+16.71	86+18.37	LT	1101.66	16.00			17626.56											435.22	326.42		323.15			81.60	95.21	176.81			
86+18.37	88+18.25	LT	199.88	14.00			2798.32											69.09	51.82		51.30			12.96	15.11	28.07			
71+69.06	74+47.06	RT	278.00	2.78	0.9996		772.53											19.07	14.31		14.16			3.58	4.17	7.75			
FULL DEPTH SHOULDER																													
71+69.06	72+67.31	RT	98.25	7.97	0.9978	0.9967	781.33		32.64		81.60	130.57						20.70	16.89		15.02			3.62	4.22				
72+67.31	74+47.06	RT	179.75	6.00	0.9987	0.9980	1077.10		59.80		149.49	239.19						29.18	24.38		21.03			4.99	5.82				
74+47.06	75+16.71	RT	69.65	6.00	0.9992	0.9984	417.57		23.18		57.95	92.72						11.31	9.45		8.15			1.93	2.26				
75+16.71	81+17.83	RT	601.12	6.00			3606.72		200.37		500.93	801.49						97.71	81.63		70.41			16.70	19.48				
81+17.83	81+67.80	RT	49.97	7.00			349.79		16.66		41.64	66.63						9.36	7.71		6.77			1.62	1.89				
81+67.80	87+18.15	RT	550.35	8.00			4402.80		183.45		458.63	733.80						116.64	95.12		84.64			20.38	23.78				
87+18.15	88+18.25	RT	100.10	9.00			900.90		33.37		83.42	133.47						23.69	19.16		17.23			4.17	4.87				
RAMP A																													
FULL DEPTH LANES																													
86+63.69	90+70.00	RT	406.31	24.00	1.0042		9792.40											241.79	181.34		179.53			45.34	52.89	98.23			
90+70.00	93+70.00	RT	300.00	24.00	1.0060		7243.20											178.84	134.13		132.79			33.53	39.12	72.65			
93+70.00	104+55.37	RT	1085.37	24.00	1.0079		26254.67											648.26	486.20		481.34			121.55	141.81	263.36			
104+55.37	106+55.37	RT	200.00	24.00	1.0045		4821.60											119.05	89.29		88.40			22.32	26.04	48.36			
106+55.37	108+89.94	RT	234.57	24.00	1.0012		5636.44											139.17	104.38		103.33			26.09	30.44	56.53			
108+89.94	114+13.78	RT	523.84	12.00	1.0006		6289.85											155.30	116.48		115.31			29.12	33.97	63.09			
108+89.94	114+13.78	RT	523.84	CADD				2447.88										60.44	45.33		44.88			11.33	13.22	24.55			
237+00.00 (I.R. 277)	237+37.85 (I.R. 277)	RT	37.85	11.71			443.22											10.94	8.21		8.13			2.05	2.39	4.44			
FULL DEPTH SHOULDER																													
86+63.69	90+70.00	LT	406.31	10.00	0.9983	0.9965	4056.19		134.96		337.41	539.85						105.98	85.11		77.25			18.78	21.91				
90+70.00	93+70.00	LT	300.00	10.00	0.9975	0.9950	2992.50		99.50		248.75	398.00						78.19	62.79		56.99			13.85	16.16				
93+70.00	104+55.37	LT	1085.37	10.00	0.9967	0.9935	10817.88		359.44		898.60	1437.75						282.64	226.96		206.02			50.08	58.43				
104+55.37	106+55.37	LT	200.00	10.00	0.9981	0.9962	1996.20		66.41		166.03	265.65						52.16	41.89		38.02			9.24	10.78				
106+55.37	114+03.67	LT	748.30	10.00	0.9995	0.9990	7479.26		249.18		622.96	996.74						195.44	156.96		142.45			34.63	40.40				
114+03.67	114+13.78	LT	10.11	10.20	0.9995	0.9990	103.07		3.37		8.42	13.47						2.69	2.16		1.96			0.48	0.56				
94+31.91	94+50.00	RT	18.09	CADD				74.59	6.03		15.08	24.12						2.10	1.83		1.50			0.35	0.40				
94+50.00	104+55.37	RT	1005.37	4.00	1.0170	1.0183	4089.85		341.26		853.14	1365.02						115.73	101.02		82.28			18.93	22.09				
104+55.37	105+73.19	RT	117.82	CADD				477.67	39.27		98.18	157.09						13.49	11.75		9.60			2.21	2.58				
237+00.00 (I.R. 277)	237+37.85 (I.R. 277)	RT	37.85	11.16			422.41		12.62		31.54	50.47						10.98	8.76		8.01			1.96	2.28				
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																		**3383**	**2615**		**2492**			**620**	**723**	**900**			

CALCULATED LRK

CHECKED PJE

PAVEMENT CALCULATIONS (FLEXIBLE)

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 10" EXTENSION	AREA FOR 16" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	AREA FOR 22.875" EXTENSION		302 8" ASPHALT CONCRETE BASE, PG64-22	304 6" AGGREGATE BASE		407 NON-TRACKING TACK COAT (0.055 GAL/SY - 3 APPLICATIONS)			442 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	442 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN	442 ANTI-SEGREGATION EQUIPMENT		609 CURB, TYPE 4-C, AS PER PLAN	
			FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	SF	SF		CY	CY		GAL			CY	CY	CY		FT	
			RAMP B																										
FULL DEPTH LANES																													
197+05.36	199+05.36	RT	200.00	16.00	1.0047		3215.04											79.38	59.54		58.94			14.88	17.37	32.25			
199+05.36	203+99.50	RT	494.14	16.00	1.0094		7980.56											197.05	147.79		146.31			36.95	43.10	80.05			
203+99.50	205+99.50	RT	200.00	16.00	1.0047		3215.04											79.38	59.54		58.94			14.88	17.37	32.25			
205+99.50	207+73.39	RT	173.89	16.00			2782.24											68.70	51.52		51.01			12.88	15.03	27.91			
207+73.39	209+73.39	RT	200.00	16.00	1.0056		3217.92											79.45	59.59		59.00			14.90	17.38	32.28			
209+73.39	213+58.80	RT	385.41	16.00	1.0112		6235.63											153.97	115.47		114.32			28.87	33.68	62.55			
213+58.80	214+90.00	RT	131.20	16.00	1.0056		2110.96											52.12	39.09		38.70			9.77	11.40	21.17			
FULL DEPTH SHOULDER																													
197+05.36	198+05.36	LT	100.00	9.00	0.9973	0.9947	897.57		33.16		82.89	132.63						23.59	19.08		17.16			4.16	4.85				
198+05.36	199+05.36	LT	100.00	8.00	0.9976	0.9953	798.08		33.18		82.94	132.71						21.14	17.24		15.34			3.69	4.31				
199+05.36	203+99.50	LT	494.14	8.00	0.9953	0.9906	3934.54		163.17		407.91	652.66						104.20	84.95		75.62			18.22	21.25				
203+99.50	204+49.50	LT	50.00	7.00	0.9979	0.9959	349.27		16.60		41.50	66.39						9.34	7.70		6.76			1.62	1.89				
204+49.50	205+99.50	LT	150.00	6.00	0.9982	0.9965	898.38		49.83		124.56	199.30						24.34	20.33		17.54			4.16	4.85				
205+99.50	207+73.39	LT	173.89	6.00			1043.34		57.96		144.91	231.85						28.27	23.61		20.37			4.83	5.64				
207+73.39	209+73.39	LT	200.00	6.00	0.9979	0.9958	1197.48		66.39		165.97	265.55						32.44	27.09		23.37			5.54	6.47				
209+73.39	213+58.80	LT	385.41	6.00	0.9958	0.9916	2302.75		127.39		318.48	509.56						62.36	52.08		44.94			10.66	12.44				
213+58.80	214+90.00	LT	131.20	6.00	0.9979	0.9958	785.55		43.55		108.87	174.20						21.28	17.77		15.33			3.64	4.24				
205+85.71	205+99.50	RT	13.79	CADD				55.74	4.60		11.49	18.39						1.57	1.37		1.12			0.26	0.30				
205+99.50	207+73.39	RT	173.89	4.00			695.56		57.96		144.91	231.85						19.68	17.17		13.99			3.22	3.76				
207+73.39	209+73.39	RT	200.00	4.00	1.0126	1.0140	810.08		67.60		169.00	270.40						22.92	20.01		16.30			3.75	4.38				
209+73.39	213+58.80	RT	385.41	4.00	1.0251	1.0279	1580.34		132.05		330.14	528.22						44.73	39.05		31.80			7.32	8.54				
213+58.80	214+90.00	RT	131.20	4.00	1.0126	1.0140	531.41		44.35		110.86	177.38						15.04	13.13		10.69			2.46	2.87				
			RAMP B-1																										
FULL DEPTH LANES																													
406+31.76	407+01.68	RT	69.92	16.00	1.0082		1127.89											27.85	20.89		20.68			5.22	6.09	11.31			
407+01.68	408+50.17	RT	148.49	16.00	1.0164		2414.80											59.62	44.72		44.27			11.18	13.04	24.22			
408+50.17	415+62.45	RT	712.28	16.00	1.0335		11778.26											290.82	218.12		215.93			54.53	63.62	118.15			
415+62.45	417+62.45	RT	200.00	16.00	1.0176		3256.32											80.40	60.30		59.70			15.08	17.59	32.67			
417+62.45	418+55.68	RT	93.23	16.00	1.0017		1494.22											36.89	27.67		27.39			6.92	8.07	14.99			
418+55.68	421+45.82	RT	290.14	CADD				4143.69										102.31	76.74		75.97			19.18	22.38	41.56			
FULL DEPTH SHOULDER																													
406+31.76	407+01.68	LT	69.92	6.00	0.9969	0.9938	418.22		23.16		57.91	92.65						11.33	9.46		8.16			1.94	2.26				
407+01.68	408+50.17	LT	148.49	6.00	0.9938	0.9877	885.42		48.89		122.22	195.55						23.97	20.02		17.28			4.10	4.78				
408+50.17	415+62.45	LT	712.28	6.00	0.9874	0.9749	4219.83		231.47		578.67	925.87						114.20	95.29		82.31			19.54	22.79				
415+62.45	417+55.68	LT	193.23	6.00	0.9934	0.9868	1151.73		63.56		158.90	254.24						31.18	26.04		22.47			5.33	6.22				
417+55.68	417+62.45	LT	6.77	6.14	0.9932	0.9865	41.29		2.23		5.57	8.90						1.12	0.93		0.80			0.19	0.22				
417+62.45	418+55.68	LT	93.23	8.14	0.9991	0.9982	758.21		31.02		77.55	124.08						20.06	16.34		14.56			3.51	4.10				
418+55.68	421+31.93	LT	276.25	10.00	0.9989	0.9978	2759.46		91.88		229.70	367.52						72.10	57.91		52.56			12.78	14.90				
421+31.93	421+36.23	LT	4.30	10.00	0.9989	0.9978	42.95											1.06	0.80		0.79			0.20	0.23				
406+31.21	407+01.68	RT	70.47	CADD				216.80	23.49		58.73	93.96						6.37	5.75		4.48			1.00	1.17				
407+01.68	408+50.17	RT	148.49	3.00	1.0359	1.0390	461.46		51.43		128.57	205.71						13.62	12.36		9.56			2.14	2.49				
408+50.17	415+62.45	RT	712.28	3.00	1.0733	1.0796	2293.47		256.33		640.81	1025.30						67.70	61.46		47.53			10.62	12.39				
415+62.45	417+62.45	RT	200.00	3.00	1.0386	1.0419	623.16		69.46		173.65	277.84						18.39	16.69		12.91			2.89	3.37				
417+62.45	418+55.99	RT	93.54	CADD				281.22	31.18		77.95	124.72						8.29	7.52		5.82			1.30	1.52				
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																		**2129**	**1673**		**1561**			**385**	**449**	**532**			

CALCULATED LRK

CHECKED PJE

PAVEMENT CALCULATIONS (FLEXIBLE)

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 10" EXTENSION	AREA FOR 16" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	AREA FOR 22.875" EXTENSION		302 8" ASPHALT CONCRETE BASE, PG64-22	304 6" AGGREGATE BASE		407 NON-TRACKING TACK COAT (0.055 GAL/SY - 3 APPLICATIONS)			442 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	442 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN	442 ANTI-SEGREGATION EQUIPMENT		609 CURB, TYPE 4-C, AS PER PLAN	
			FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	SF	SF		CY	CY		GAL			CY	CY	CY		FT	
			RAMP B-2																										
FULL DEPTH LANES																													
285+64.96	290+91.54	RT	526.58	12.00	1.0021		6332.23											156.35	117.26		116.09			29.32	34.20	63.52			
285+64.96	290+91.54	RT	526.58		CADD			2117.76										52.29	39.22		38.83			9.80	11.44	21.24			
290+91.54	294+71.25	RT	379.71	24.00	1.0041		9150.40											225.94	169.45		167.76			42.36	49.42	91.78			
294+71.25	297+94.13	RT	322.88	24.00			7749.12											191.34	143.50		142.07			35.88	41.85	77.73			
297+94.13	300+94.13	RT	300.00	24.00	0.9979		7184.88											177.40	133.05		131.72			33.26	38.81	72.07			
300+94.13	305+30.56	RT	436.43	24.00			10474.32											258.63	193.97		192.03			48.49	56.57	105.06			
305+30.56	307+30.56	RT	200.00	25.50	1.0135		5168.85											127.63	95.72		94.76			23.93	27.92	51.85			
307+30.56	307+96.22	RT	65.66	27.00	1.0288		1823.88											45.03	33.78		33.44			8.44	9.85	18.29			
307+96.22	7+39.01	RT	22.37		CADD			636.72										15.72	11.79		11.67			2.95	3.44	6.39			
9+90.81	9+97.74	RT	6.93		CADD			192.13										4.74	3.56		3.52			0.89	1.04	1.93			
9+97.74	10+00.00	RT	2.26	27.00	1.0288		62.78											1.55	1.16		1.15			0.29	0.34	0.63			
10+00.00	11+00.00	RT	100.00	27.00	1.0285		2776.95											68.57	51.43		50.91			12.86	15.00	27.86			
11+00.00	13+87.73	RT	287.73	27.00	1.0283		7988.56											197.25	147.94		146.46			36.98	43.15	80.13			
13+87.73	19+62.73	RT	575.00	27.00	0.9920		15400.80											380.27	285.20		282.35			71.30	83.18	154.48			
19+62.73	22+39.81	RT	277.08	27.00	0.9841		7362.21											181.78	136.34		134.97			34.08	39.77	73.85			
22+39.81	24+64.81	RT	225.00	25.50	0.9925		5694.47											140.60	105.45		104.40			26.36	30.76	57.12			
24+64.81	32+64.81	RT	800.00	32.00			25600.00											632.10	474.07		469.33			118.52	138.27	256.79			
32+64.81	33+82.00	RT	117.19	24.00			2812.56											69.45	52.08		51.56			13.02	15.19	28.21			
FULL DEPTH SHOULDER																													
285+64.96	292+13.63	LT	648.67	10.00	0.9983	0.9966	6475.67		215.49		538.72	861.95						169.20	135.88		123.33			29.98	34.98				
292+13.63	292+31.83	LT	18.20	10.00	0.9983	0.9966	181.69						27.21					4.49	3.87		3.33			0.84	0.98			18.14	
292+31.83	292+80.00	LT	48.17	10.00	0.9983	0.9966	480.88			24.00	40.01	64.01			88.01	91.51		15.42	12.23		11.28			2.23	3.22				
292+80.00	292+90.00	LT	10.00	11.00	0.9981	0.9962	109.79						14.94					2.71	2.31		2.01			0.51	0.59			9.96	
292+90.00	294+28.29	LT	138.29	12.00	0.9979	0.9959	1656.00						206.58					40.89	34.49		30.36			7.67	8.94			137.72	
294+28.29	294+71.25	LT	42.96	11.14	0.9981	0.9962	477.67		14.27		35.66	57.06						12.41	9.90		9.06			2.21	2.58				
294+71.25	296+28.29	LT	157.04	7.14			1121.27		52.35		130.87	209.39						29.95	24.64		21.68			5.19	6.06				
296+28.29	297+94.13	LT	165.84	4.00			663.36		55.28		138.20	221.12						18.77	16.38		13.34			3.07	3.58				
297+94.13	300+94.13	LT	300.00	4.00	1.0003	1.0007	1200.36		100.07		250.18	400.28						33.96	29.64		24.15			5.56	6.48				
300+94.13	305+30.56	LT	436.43	4.00			1745.72		145.48		363.69	581.91						49.39	43.10		35.12			8.08	9.43				
305+30.56	307+30.56	LT	200.00	4.00	0.9980	0.9961	798.40		66.41		166.02	265.63						22.58	19.70		16.06			3.70	4.31				
307+30.56	307+49.11	LT	18.55	4.00	0.9963	0.9927	73.93		6.14		15.35	24.55						2.09	1.82		1.49			0.34	0.40				
307+49.11	307+88.67	LT	39.56	4.00	0.9958	0.9916	157.58						58.84					3.89	4.01		2.89			0.73	0.85			39.23	
307+88.67	307+92.46	LT	3.79		CADD			15.19										0.38	0.28		0.28			0.07	0.08				
9+81.21	9+83.48	LT	2.27		CADD			4.51	0.76		1.89	3.03						0.14	0.14		0.10			0.02	0.02				
9+83.48	10+00.00	LT	16.52	4.00	0.9963	0.9927	65.84		5.47		13.67	21.87						1.86	1.62		1.32			0.30	0.36				
10+00.00	11+00.00	LT	100.00	4.00	0.9961	0.9921	398.44		33.07		82.68	132.28						11.27	9.83		8.01			1.84	2.15				
11+00.00	13+87.73	LT	287.73	4.00	0.9958	0.9916	1146.09		95.10		237.76	380.42						32.41	28.27		23.05			5.31	6.19				
13+87.73	19+62.73	LT	575.00	4.00	1.0012	1.0024	2302.76		192.13		480.32	768.51						65.16	56.88		46.33			10.66	12.44				
19+62.73	22+39.81	LT	277.08	4.00	1.0024	1.0047	1110.98		92.79		231.99	371.18						31.44	27.45		22.35			5.14	6.00				
22+39.81	23+18.76	LT	78.95		CADD			315.81	26.32		65.79	105.27						8.93	7.80		6.35			1.46	1.71				
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																		**3484**	**2666**		**2575**			**644**	**752**	**1189**		**206**	

CALCULATED LRK

CHECKED PJE

PAVEMENT CALCULATIONS (FLEXIBLE)

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 10" EXTENSION	AREA FOR 16" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	AREA FOR 22.875" EXTENSION		302 8" ASPHALT CONCRETE BASE, PG64-22	304 6" AGGREGATE BASE		407 NON-TRACKING TACK COAT (0.055 GAL/SY - 3 APPLICATIONS)			442 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	442 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN	442 ANTI-SEGREGATION EQUIPMENT		609 CURB, TYPE 4-C, AS PER PLAN	
			FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	SF	SF		CY	CY		GAL			CY	CY	CY		FT	
			RAMP B-2 CONTD.																											
FULL DEPTH SHOULDER CONTD.																														
294+77.53	295+00.00	RT	22.47		CADD			220.88		11.24	18.73	29.96		37.45	41.20			6.98	5.55		3.75			1.02	1.46					
295+00.00	297+50.00	RT	250.00	10.00			2500.00			125.00	208.33	333.33		416.67	458.33			78.70	62.50		57.55			11.57	16.43					
297+50.00	297+94.13	RT	44.13	10.00			441.30		14.71		36.78	58.84						11.53	9.26		8.41			2.04	2.38					
297+94.13	300+94.13	RT	300.00	10.00	0.9949	0.9941	2984.70		99.41		248.53	397.64						77.99	62.64		56.85			13.82	16.12					
300+94.13	305+30.56	RT	436.43	10.00			4364.30		145.48		363.69	581.91						114.05	91.60		83.12			20.21	23.57					
305+30.56	306+50.00	RT	119.44	10.00	1.0315	1.0367	1232.02		41.27		103.19	165.10						32.20	25.87		23.47			5.70	6.65					
306+50.00	307+30.56	RT	80.56	8.06	1.0323	1.0365	670.29		27.83		69.58	111.33						17.75	14.47		12.88			3.10	3.62					
307+30.56	308+00.00	RT	69.44	5.06	1.0314	1.0341	362.40		23.94		59.84	95.74						9.98	8.48		7.16			1.68	1.96					
308+00.00	308+15.76	RT	15.76	4.00	1.0309	1.0330	64.99		5.43		13.57	21.71						1.84	1.61		1.31			0.30	0.35					
7+36.18	7+48.73	RT	12.55	4.00	1.0309	1.0330	51.75		4.32		10.80	17.29						1.46	1.28		1.04			0.24	0.28					
7+48.73	7+65.76	RT	17.03		CADD			60.52					25.55					1.49	1.59		1.11			0.28	0.33			18.15		
9+97.74	9+99.70	RT	1.96		CADD			4.16										0.10	0.08		0.08			0.02	0.02					
9+99.70	10+00.00	RT	0.30	4.00	1.0618	1.0660	1.27			0.16	0.27	0.43		0.53	0.59			0.05	0.04		0.04			0.01	0.01					
10+00.00	10+30.00	RT	30.00	7.00	1.0648	1.0721	223.61			16.08	26.80	42.88		53.61	58.97			7.71	6.23		5.61			1.04	1.58					
10+30.00	11+00.00	RT	70.00	10.00	1.0674	1.0779	747.18			37.73	62.88	100.60		125.76	138.33			23.57	18.73		17.23			3.46	4.92					
11+00.00	13+87.73	RT	287.73	10.00	1.0670	1.0775	3070.08			155.01	258.36	413.37		516.72	568.39			96.86	76.95		70.81			14.21	20.21					
13+87.73	14+00.00	RT	12.27	10.00	0.9812	0.9782	120.39			6.00	10.00	16.00		20.00	22.00			3.79	3.01		2.77			0.56	0.79					
14+00.00	15+45.66	RT	145.66	10.00	0.9812	0.9782	1429.22		47.49		118.74	189.98						37.34	29.99		27.22			6.62	7.72					
24+64.81	32+64.81	RT	800.00	10.00			8000.00		266.67		666.67	1066.67						209.05	167.90		152.37			37.04	43.21					
32+64.81	33+39.75	RT	74.94	10.00			749.40		24.98		62.45	99.92						19.58	15.73		14.27			3.47	4.05					
33+39.75	33+82.00	RT	42.25	10.46			441.94		14.08		35.21	56.33						11.52	9.23		8.40			2.05	2.39					
			RAMP C																											
FULL DEPTH LANES																														
576+00.00	577+52.62	LT	152.62	12.00	0.9995		1830.52											45.20	33.90		33.56			8.47	9.89	18.36				
576+00.00	577+52.62	LT	152.62		CADD			101.62										2.51	1.88		1.86			0.47	0.55	1.02				
577+52.62	580+17.46	LT	264.84	13.43	0.9995		3555.02											87.78	65.83		65.18			16.46	19.20	35.66				
580+17.46	581+24.01	LT	106.55	15.43			1644.07											40.59	30.45		30.14			7.61	8.88	16.49				
581+24.01	583+16.40	LT	192.39	16.00			3078.24											76.01	57.00		56.43			14.25	16.63	30.88				
583+16.40	585+16.40	LT	200.00	16.00	1.0028		3208.96											79.23	59.43		58.83			14.86	17.33	32.19				
585+16.40	593+03.36	LT	786.96	16.00	1.0056		12661.87											312.64	234.48		232.13			58.62	68.39	127.01				
593+03.36	596+40.00	LT	336.64	16.00	1.0112		5446.57											134.48	100.86		99.85			25.22	29.42	54.64				
596+40.00	599+38.22	LT	298.22	23.74	1.0166		7197.27											177.71	133.28		131.95			33.32	38.87	72.19				
599+38.22	600+60.00	LT	121.78	17.74	1.0062		2173.77											53.67	40.26		39.85			10.06	11.74	21.80				
600+60.00	601+37.81	LT	77.81	16.00	1.0056		1251.93											30.91	23.18		22.95			5.80	6.76	12.56				
601+37.81	603+37.81	LT	200.00	16.00	1.0028		3208.96											79.23	59.43		58.83			14.86	17.33	32.19				
603+37.81	606+67.88	LT	330.07	16.00			5281.12											130.40	97.80		96.82			24.45	28.52	52.97				
277+50.00 (I.R. 277)	277+72.76 (I.R. 277)	RT	22.76	15.77			358.93											8.86	6.65		6.58			1.66	1.94	3.60				
277+72.76 (I.R. 277)	279+50.00 (I.R. 277)	RT	177.24	13.77	0.9932		2424.00											59.85	44.89		44.44			11.22	13.09	24.31				
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																		**2083**	**1603**		**1535**			**376**	**447**	**536**		**19**		

CALCULATED LRK

CHECKED PJE

PAVEMENT CALCULATIONS (FLEXIBLE)

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 10" EXTENSION	AREA FOR 16" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	AREA FOR 22.875" EXTENSION		302 8" ASPHALT CONCRETE BASE, PG64-22	304 6" AGGREGATE BASE		407 NON-TRACKING TACK COAT (0.055 GAL/SY - 3 APPLICATIONS)			442 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	442 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN	442 ANTI-SEGREGATION EQUIPMENT		609 CURB, TYPE 4-C, AS PER PLAN	
			FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	SF	SF		CY	CY		GAL			CY	CY	CY		FT	
			RAMP C CONTD.																										
FULL DEPTH SHOULDER																													
581+23.61	581+50.00	LT	26.39		CADD			104.76	8.80		21.99	35.19						2.97	2.59		2.11			0.49	0.57				
581+50.00	583+16.40	LT	166.40	4.00			665.60		55.47		138.67	221.87						18.83	16.43		13.39			3.08	3.60				
583+16.40	585+16.40	LT	200.00	4.00	1.0063	1.0070	805.04		67.13		167.83	268.53						22.78	19.88		16.19			3.73	4.35				
585+16.40	592+97.65	LT	781.25	4.00	1.0126	1.0140	3164.38		264.06		660.16	1056.25						89.54	78.16		63.66			14.65	17.09				
596+40.00	599+38.22	LT	298.22	4.00	1.0359	1.0387	1235.70		103.25		258.13	413.01						34.97	30.53		24.86			5.72	6.67				
599+38.22	600+60.00	LT	121.78	4.00	1.0138	1.0152	493.84		41.21		103.03	164.84						13.97	12.20		9.94			2.29	2.67				
600+60.00	600+64.00	LT	4.00		CADD			15.05	1.33		3.33	5.33						0.43	0.38		0.30			0.07	0.08				
576+00.00	580+17.46	RT	417.46	10.00	1.0004	1.0008	4176.27		139.26		348.16	557.06						109.14	87.65		79.54			19.33	22.56				
580+17.46	581+24.01	RT	106.55	10.00			1065.50		35.52		88.79	142.07						27.84	22.36		20.29			4.93	5.76				
581+24.01	582+24.01	RT	100.00	8.00			800.00		33.33		83.33	133.33						21.19	17.28		15.38			3.70	4.32				
582+24.01	583+16.40	RT	92.39	6.00			554.34		30.80		76.99	123.19						15.02	12.55		10.82			2.57	2.99				
583+16.40	585+16.40	RT	200.00	6.00	0.9990	0.9979	1198.80		66.53		166.32	266.11						32.47	27.13		23.40			5.55	6.48				
585+16.40	593+03.36	RT	786.96	6.00	0.9979	0.9958	4711.84		261.22		653.05	1044.87						127.63	106.61		91.97			21.81	25.45				
593+03.36	599+38.22	RT	634.86	6.00	0.9958	0.9916	3793.16		209.84		524.61	839.37						102.73	85.79		74.03			17.56	20.49				
599+38.22	601+37.81	RT	199.59	6.00	0.9979	0.9958	1195.03		66.25		165.63	265.00						32.37	27.04		23.33			5.53	6.45				
601+37.81	602+87.81	RT	150.00	6.00	0.9990	0.9979	899.10		49.90		124.74	199.58						24.36	20.35		17.55			4.16	4.86				
602+87.81	603+37.81	RT	50.00	7.00	0.9988	0.9976	349.58		16.63		41.57	66.51						9.35	7.71		6.76			1.62	1.89				
603+37.81	606+67.88	RT	330.07	8.00			2640.56		110.02		275.06	440.09						69.95	57.05		50.76			12.22	14.26				
277+50.00 (I.R. 277)	277+72.76 (I.R. 277)	RT	22.76	8.00			182.08		7.59		18.97	30.35						4.82	3.93		3.50			0.84	0.98				
277+72.76 (I.R. 277)	277+80.00 (I.R. 277)	RT	7.24	8.00	0.9910	0.9903	57.40		2.39		5.97	9.56						1.52	1.24		1.10			0.27	0.31				
277+80.00 (I.R. 277)	279+50.00 (I.R. 277)	RT	170.00	9.70	0.9912	0.9903	1634.49		56.12		140.29	224.47						42.78	34.43		31.17			7.57	8.83				
			RAMP C-1																										
FULL DEPTH LANES																													
679+50.26	680+48.74	LT	98.48		CADD			1381.06										34.10	25.58		25.32			6.39	7.46	13.85			
680+48.74	683+18.39	LT	269.65	16.00	1.0027		4326.05											106.82	80.11		79.31			20.03	23.37	43.40			
683+18.39	685+18.39	LT	200.00	16.00	1.0181		3257.92											80.44	60.33		59.73			15.08	17.60	32.68			
685+18.39	691+94.95	LT	676.56	16.00	1.0335		11187.60											276.24	207.18		205.11			51.79	60.43	112.22			
691+94.95	694+94.95	LT	300.00	16.00	1.0168		4880.64											120.51	90.38		89.48			22.60	26.36	48.96			
694+94.95	700+11.57	LT	516.62	16.00			8265.92											204.10	153.07		151.54			38.27	44.65	82.92			
700+11.57	702+11.45	LT	199.88	14.00			2798.32											69.09	51.82		51.30			12.96	15.11	28.07			
FULL DEPTH SHOULDER																													
682+95.09	683+18.39	LT	23.30		CADD			69.70	7.77		19.42	31.07						2.06	1.87		1.44			0.32	0.38				
683+18.39	685+18.39	LT	200.00	3.00	1.0396	1.0430	623.76		69.53		173.83	278.13						18.41	16.70		12.92			2.89	3.37				
685+18.39	691+94.95	LT	676.56	3.00	1.0733	1.0796	2178.46		243.47		608.68	973.89						64.31	58.38		45.15			10.09	11.77				
691+94.95	693+50.00	LT	155.05	3.00	1.0367	1.0398	482.22		53.74		134.35	214.96						14.23	12.91		9.99			2.23	2.60				
693+50.00	693+70.06	LT	20.06		CADD			61.35	6.69		16.72	26.75						1.80	1.63		1.27			0.28	0.33				
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																		**1797**	**1432**		**1313**			**321**	**375**	**363**			

CALCULATED LRK

CHECKED PJE

PAVEMENT CALCULATIONS (FLEXIBLE)

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 10" EXTENSION	AREA FOR 16" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	AREA FOR 22.875" EXTENSION		302 8" ASPHALT CONCRETE BASE, PG64-22	304 6" AGGREGATE BASE		407 NON-TRACKING TACK COAT (0.055 GAL/SY - 3 APPLICATIONS)			442 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	442 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN	442 ANTI-SEGREGATION EQUIPMENT		609 CURB, TYPE 4-C, AS PER PLAN	
			FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	SF	SF		CY	CY		GAL			CY	CY	CY		FT	
			RAMP C-1 CONTD.																										
FULL DEPTH SHOULDER CONTD.																													
679+57.98	679+60.74	RT	2.76	6.76	0.9989	0.9977	18.64											0.46	0.35		0.34			0.09	0.10				
679+60.74	680+00.00	RT	39.26	6.76	0.9989	0.9977	265.11		13.06		32.64	52.23						7.11	5.88		5.14			1.23	1.43				
680+00.00	680+32.00	RT	32.00	7.38	0.9988	0.9975	235.88		10.64		26.60	42.56						6.28	5.16		4.55			1.09	1.27				
680+32.00	682+95.50	RT	263.50	8.00	0.9987	0.9973	2105.26		87.60		218.99	350.38						55.77	45.47		40.47			9.75	11.37				
682+95.50	683+18.39	RT	22.89	7.54	0.9987	0.9975	172.37		7.61		19.03	30.44						4.58	3.76		3.32			0.80	0.93				
683+18.39	683+45.50	RT	27.11	6.54	0.9926	0.9852	175.99		8.90		22.26	35.61						4.73	3.92		3.42			0.81	0.95				
683+45.50	685+18.39	RT	172.89	6.00	0.9932	0.9864	1030.29		56.85		142.12	227.38						27.90	23.29		20.10			4.77	5.56				
685+18.39	691+94.95	RT	676.56	6.00	0.9874	0.9749	4008.21		219.86		549.65	879.44						108.47	90.51		78.19			18.56	21.65				
691+94.95	694+44.95	RT	250.00	6.00	0.9937	0.9874	1490.55		82.28		205.71	329.13						40.36	33.70		29.09			6.90	8.05				
694+44.95	694+94.95	RT	50.00	7.00	0.9927	0.9853	347.45		16.42		41.05	65.69						9.29	7.65		6.72			1.61	1.88				
694+94.95	698+46.04	RT	351.09	8.00			2808.72		117.03		292.57	468.12						74.41	60.68		54.00			13.00	15.17				
698+46.04	698+64.18	RT	18.14	8.00			145.12						27.21					3.58	3.19		2.66			0.67	0.78			18.14	
698+64.18	700+29.18	RT	165.00	8.00			1320.00			82.50	137.50	220.00		275.00	302.50			43.80	35.14		31.93			6.11	9.06				
700+29.18	702+11.45	RT	182.27	8.00			1458.16		60.76		151.89	243.03						38.63	31.50		28.03			6.75	7.88				
			RAMP C-2																										
FULL DEPTH LANES																													
781+45.30	782+90.99	LT	145.69	14.00	0.9906		2020.49											49.89	37.42		37.04			9.35	10.91	20.26			
782+90.99	782+93.84	LT	2.85	16.00	0.9893		45.11											1.11	0.84		0.83			0.21	0.24	0.45			
782+93.84	784+43.84	LT	150.00	16.00	0.9947		2387.28											58.95	44.21		43.77			11.05	12.89	23.94			
784+43.84	784+82.53	LT	38.69	16.00			619.04											15.28	11.46		11.35			2.87	3.34	6.21			
784+82.53	787+32.53	LT	250.00	16.00	1.0105		4042.00											99.80	74.85		74.10			18.71	21.83	40.54			
787+32.53	788+82.95	LT	150.42	16.00	1.0209		2457.02											60.67	45.50		45.05			11.38	13.27	24.65			
793+17.70	796+95.44	LT	377.74	16.00	1.0021		6056.53											149.54	112.16		111.04			28.04	32.71	60.75			
FULL DEPTH SHOULDER																													
785+00.84	785+25.00	LT	24.16	CADD				142.13	8.05		20.13	32.21						3.86	3.23		2.78			0.66	0.77				
785+25.00	787+32.53	LT	207.53	6.00	1.0249	1.0288	1276.18		71.17		177.92	284.68						34.59	28.90		24.92			5.91	6.89				
787+32.53	788+82.95	LT	150.42	6.00	1.0497	1.0576	947.38		53.03		132.57	212.11						25.68	21.47		18.50			4.39	5.12				
793+17.70	793+51.56	LT	33.86	6.00	1.0050	1.0058	204.18			17.03	28.38	45.41		56.76	62.44			7.35	5.99		5.34			0.95	1.50				
793+51.56	793+69.60	LT	18.04	6.00	1.0050	1.0058	108.78						27.22					2.69	2.52		1.99			0.50	0.59			18.14	
793+69.60	796+75.00	LT	305.40	6.00	1.0050	1.0058	1841.56		102.39		255.98	409.56						49.89	41.69		35.95			8.53	9.95				
796+75.00	796+96.15	LT	21.15	CADD				125.38	7.05		17.62	28.20						3.40	2.84		2.45			0.58	0.68				
781+45.30	782+93.84	RT	148.54	4.00	1.0027	1.0053	595.76		49.78		124.44	199.10						16.86	14.72		11.99			2.76	3.22				
782+93.84	784+43.84	RT	150.00	4.00	1.0013	1.0027	600.78		50.14		125.34	200.54						17.00	14.84		12.09			2.78	3.24				
784+43.84	784+82.53	RT	38.69	4.00			154.76		12.90		32.24	51.59						4.38	3.82		3.11			0.72	0.84				
784+82.53	787+32.53	RT	250.00	4.00	0.9974	0.9948	997.40		82.90		207.25	331.60						28.21	24.61		20.06			4.62	5.39				
787+32.53	788+82.95	RT	150.42	4.00	0.9948	0.9895	598.55		49.61		124.03	198.45						16.92	14.76		12.03			2.77	3.23				
793+17.70	794+85.02	RT	167.32	4.00	0.9995	0.9990	668.95											16.52	12.39		12.26			3.10	3.61				
794+85.02	795+19.05	RT	34.03	4.00	0.9995	0.9990	136.05			17.00	28.33	45.33		56.66	62.33			5.67	4.72		4.09			0.63	1.13				
795+19.05	795+37.22	RT	18.17	4.00	0.9995	0.9990	72.64						27.23					1.79	1.85		1.33			0.34	0.39			18.15	
795+37.22	795+95.44	RT	58.22	4.00	0.9995	0.9990	232.76		19.39		48.47	77.55						6.58	5.75		4.68			1.08	1.26				
795+95.44	796+95.44	RT	100.00	6.00	0.9992	0.9984	599.52		33.28		83.20	133.12						16.24	13.57		11.70			2.78	3.24				
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																		**1119**	**895**		**817**			**197**	**233**	**177**		**55**	

CALCULATED LRK

CHECKED PJE

PAVEMENT CALCULATIONS (FLEXIBLE)

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA	AREA FOR 4" EXTENSION	AREA FOR 6" EXTENSION	AREA FOR 10" EXTENSION	AREA FOR 16" EXTENSION	AREA FOR 18" EXTENSION	AREA FOR 20" EXTENSION	AREA FOR 22" EXTENSION	AREA FOR 22.875" EXTENSION		302 8" ASPHALT CONCRETE BASE, PG64-22	304 6" AGGREGATE BASE		407 NON-TRACKING TACK COAT (0.055 GAL/SY - 3 APPLICATIONS)			442 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	442 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN	442 ANTI-SEGREGATION EQUIPMENT		609 CURB, TYPE 4-C, AS PER PLAN	
			FT	FT			SF	SF	SF	SF	SF	SF	SF	SF	SF	SF		CY	CY		GAL			CY	CY	CY		FT	
			RAMP D																											
FULL DEPTH LANES																														
269+40.00 (I.R. 277)	272+95.00 (I.R. 277)	LT	355.00	12.00			4260.00											105.19	78.89		78.10			19.72	23.01	42.73				
272+95.00 (I.R. 277)	273+25.00 (I.R. 277)	LT	30.00	11.95			358.50											8.85	6.64		6.57			1.66	1.94	3.60				
887+98.38	889+33.61	LT	135.23	CADD				1715.25										42.35	31.76		31.45			7.94	9.26	17.20				
889+33.61	892+66.83	LT	333.22	14.00	1.0015		4672.08											115.36	86.52		85.65			21.63	25.24	46.87				
892+66.83	895+17.13	LT	250.30	16.00	1.0017		4011.61											99.05	74.29		73.55			18.57	21.67	40.24				
895+17.13	897+17.13	LT	200.00	16.00	1.0028		3208.96											79.23	59.43		58.83			14.86	17.33	32.19				
897+17.13	899+01.12	LT	183.99	16.00	1.0038		2955.03											72.96	54.72		54.18			13.68	15.96	29.64				
899+01.12	901+01.12	LT	200.00	16.00	1.0044		3214.08											79.36	59.52		58.92			14.88	17.36	32.24				
901+01.12	908+55.05	LT	753.93	16.00	1.0049		12121.99											299.31	224.48		222.24			56.12	65.47	121.59				
908+55.05	910+55.05	LT	200.00	16.00	1.0042		3213.44											79.34	59.51		58.91			14.88	17.36	32.24				
910+55.05	914+89.43	LT	434.38	16.00	1.0036		6975.10											172.22	129.17		127.88			32.29	37.67	69.96				
FULL DEPTH SHOULDER																														
892+66.42	893+00.00	LT	33.58	CADD				134.04	11.19		27.98	44.77						3.79	3.31		2.70			0.62	0.72					
893+00.00	895+17.13	LT	217.13	4.00	1.0039	1.0044	871.91		72.70		181.74	290.78						24.67	21.53		17.54			4.04	4.71					
895+17.13	897+17.13	LT	200.00	4.00	1.0063	1.0070	805.04		67.13		167.83	268.53						22.78	19.88		16.19			3.73	4.35					
897+17.13	899+01.12	LT	183.99	4.00	1.0086	1.0096	742.29		61.92		154.80	247.68						21.00	18.33		14.93			3.44	4.01					
899+01.12	901+01.12	LT	200.00	4.00	1.0098	1.0109	807.84		67.39		168.48	269.57						22.86	19.95		16.25			3.74	4.36					
901+01.12	907+50.00	LT	648.88	4.00	1.0110	1.0122	2624.07		218.93		547.33	875.73						74.25	64.81		52.79			12.15	14.17					
907+50.00	907+64.17	LT	14.17	CADD				56.58	4.72		11.81	18.89						1.60	1.40		1.14			0.26	0.31					
269+40.00 (I.R. 277)	272+95.00 (I.R. 277)	LT	355.00	10.00			3550.00		118.33		295.83	473.33						92.77	74.51		67.61			16.44	19.17					
272+95.00 (I.R. 277)	273+25.00 (I.R. 277)	LT	30.00	10.60			318.00		10.00		25.00	40.00						8.28	6.63		6.04			1.47	1.72					
887+98.39	892+66.83	RT	468.44	10.00	0.9989	0.9978	4679.25		155.80		389.51	623.21						122.27	98.19		89.12			21.66	25.27					
892+66.83	893+66.83	RT	100.00	8.00	0.9991	0.9983	799.28		33.28		83.19	133.11						21.17	17.27		15.37			3.70	4.32					
893+66.83	895+17.13	RT	150.30	6.00	0.9993	0.9987	901.17		50.03		125.09	200.14						24.41	20.39		17.59			4.17	4.87					
895+17.13	897+17.13	RT	200.00	6.00	0.9990	0.9979	1198.80		66.53		166.32	266.11						32.47	27.13		23.40			5.55	6.48					
897+17.13	899+01.12	RT	183.99	6.00	0.9986	0.9971	1102.39		61.15		152.88	244.61						29.86	24.94		21.52			5.10	5.95					
899+01.12	901+01.12	RT	200.00	6.00	0.9984	0.9967	1198.08		66.45		166.12	265.79						32.45	27.11		23.39			5.55	6.47					
901+01.12	908+55.05	RT	753.93	6.00	0.9982	0.9963	4515.44		250.38		625.95	1001.52						122.31	102.17		88.14			20.90	24.39					
908+55.05	910+05.05	RT	150.00	6.00	0.9984	0.9968	898.56		49.84		124.60	199.36						24.34	20.33		17.54			4.16	4.85					
910+05.05	910+55.05	RT	50.00	7.00	0.9981	0.9963	349.34		16.61		41.51	66.42						9.34	7.70		6.76			1.62	1.89					
910+55.05	914+75.00	RT	419.95	8.00	0.9982	0.9964	3353.55		139.48		348.70	557.92						88.83	72.43		64.47			15.53	18.11					
914+75.00	914+89.43	RT	14.43	7.71	0.9983	0.9966	111.07		4.79		11.98	19.17						2.95	2.41		2.14			0.51	0.60					
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																		**1936**	**1516**		**1421**			**351**	**409**	**469**				

CALCULATED LRK

CHECKED PJE

PAVEMENT CALCULATIONS (FLEXIBLE)

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA									618 RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)
FROM	TO		FT	FT			SF	SF									MILE
			RUMBLE STRIPS														
NORTHBOUND I.R. 77 CL																	
371+50.00	382+74.74	RT/OUT	1124.74														0.213
388+24.90	424+86.43	RT/OUT	3661.53														0.693
426+92.00	428+88.10	RT/OUT	196.10														0.037
431+01.84	469+46.33	RT/OUT	3844.49														0.728
371+50.00	425+01.96	RT/IN	5351.96														1.014
427+07.53	428+99.15	RT/IN	191.62														0.036
431+13.70	469+46.33	RT/IN	3832.63														0.726
SOUTHBOUND I.R. 77 CL																	
391+37.36	425+23.89	LT/OUT	3386.53														0.641
427+29.45	429+14.88	LT/OUT	185.43														0.035
431+30.58	469+46.33	LT/OUT	3815.75														0.723
391+37.36	425+08.36	LT/IN	3371.00														0.638
427+13.92	429+03.72	LT/IN	189.80														0.036
431+18.60	469+46.33	LT/IN	3827.73														0.725
NORTHBOUND I.R. 77 BL																	
469+46.96	485+64.96	LT	1618.00														0.306
493+84.83	514+85.00	LT	2100.17														0.398
469+46.96	476+00.00	RT	653.04														0.124
480+17.43	496+66.26	RT	1648.83														0.312
502+11.45	511+39.58	RT	928.13														0.176
SOUTHBOUND I.R. 77 BL																	
469+42.49	486+63.69	LT	1721.20														0.326
490+33.35	494+44.48	LT	411.13														0.078
469+42.49	494+44.48	RT	2501.99														0.474
ARLINGTON RD. RAMP D																	
82+67.98	88+18.25	RT	550.27														0.104
RAMP A																	
86+63.69	90+27.54	LT	363.85														0.069
106+71.40	114+13.78	LT	742.38														0.141
237+00.00 (I.R. 277)	237+37.85 (I.R. 277)	RT	37.85														0.007
RAMP B-1																	
419+54.46	421+39.23	LT	184.77														0.035
RAMP B-2																	
285+64.96	293+80.97	LT	816.01														0.155
30+31.93	33+82.00	RT	350.07														0.066
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																	**10**

CALCULATED LRK

CHECKED PJF

PAVEMENT CALCULATIONS (FLEXIBLE)

SUM-77/277/224 VARIOUS

STATION FROM	STATION TO	SIDE	LENGTH (L)	AVERAGE WIDTH (W)	CURVE CORRECTION RATIO	EDGE EXT. CURVE CORRECTION RATIO	SURFACE AREA (A=LxW)	CADD AREA									618							442					
																	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)							1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN					
FROM	TO		FT	FT			SF	SF									MILE							CY					
RUMBLE STRIPS CONTD.																													
RAMP C																													
576+00.00	580+23.48	RT	423.48														0.080												
603+42.51	606+67.88	RT	325.37														0.062												
277+50.00 (I.R. 277)	279+50.00 (I.R. 277)	RT	200.00														0.038												
RAMP C-1																													
679+55.22	681+96.95	RT	241.73														0.046												
696+66.15	702+11.45	RT	545.30														0.103												
RAMP D																													
269+40.00 (I.R. 277)	273+25.00 (I.R. 277)	LT	385.00														0.073												
887+98.38	891+68.04	RT	369.66														0.070												
911+52.31	914+89.43	RT	337.12														0.064												
EASTBOUND/WESTBOUND I.R. 277 CL																													
228+50.00	248+80.74	LT	2030.74														0.385												
256+75.50	265+70.74	LT	895.24														0.170												
244+79.53	251+29.29	RT	649.76														0.123												
259+76.94	260+76.94	RT	100.00														0.019												
271+44.10	274+24.70	RT	280.60														0.053												
BARRIER DEDUCTIONS																													
NORTHBOUND/SOUTHBOUND I.R. 77 CL																													
371+50.00	398+00.00	LT/RT	2650.00	2.81			7446.50																	-34.47					
398+00.00	421+00.00	LT/RT	2300.00	2.81			6463.00																	-29.92					
421+00.00	425+05.16	LT/RT	405.16	2.81			1138.50																	-5.27					
427+10.73	429+01.43	LT/RT	190.70	2.81			535.87																	-2.48					
431+16.15	469+36.72	LT/RT	3820.57	2.81			10735.80																	-49.70					
TOTALS CARRIED TO PAVEMENT SUBSUMMARY																	2							-122					

CALCULATED LRK

CHECKED PJF

PAVEMENT CALCULATIONS (FLEXIBLE)

SUM-77/277/224 VARIOUS