

INPUT: BARRIERS

I-215/Barton Road Interchange

LSA Associates, Inc.	16 February 2012
Teak Kim	TNM 2.5

INPUT: BARRIERS

PROJECT/CONTRACT: I-215/Barton Road Interchange  
 RUN: ALT 7

Barrier									Points										
Name	Type	Height		If Wall	If Berm			Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment				
		Min	Max	\$ per	\$ per	Top	Run:Rise	\$ per			X	Y	Z	at	Seg	Ht	Perturbs	On	Important
				Unit	Unit	Width		Unit						Point	Incre-	#Up	#Dn	Struct?	Reflec-
		ft	ft	Area	Vol.		ft:ft	Length			ft	ft	ft	ft	ment				tions?
				\$/sq ft	\$/cu yd			\$/ft											
Existing Wall 5a	W	0.00	99.99	0.00				0.00	point1	1	6,765,620.0	1,836,382.8	976.00	5.30	0.00	0	0		
									point2	2	6,765,864.0	1,836,319.2	978.00	5.30					
Existing Wall 5b	W	0.00	99.99	0.00				0.00	point12	12	6,765,864.0	1,836,319.2	978.00	6.00	0.00	0	0		
									point3	3	6,765,829.5	1,836,147.2	979.00	6.00	0.00	0	0		
									point4	4	6,765,796.0	1,835,975.8	980.00	6.00	0.00	0	0		
									point5	5	6,765,763.5	1,835,803.6	981.00	6.00	0.00	0	0		
									point6	6	6,765,763.5	1,835,768.5	981.00	6.00	0.00	0	0		
									point7	7	6,765,732.5	1,835,698.8	981.00	6.00	0.00	0	0		
									point8	8	6,765,730.0	1,835,678.2	981.00	6.00	0.00	0	0		
									point9	9	6,765,662.0	1,835,503.8	980.00	6.00	0.00	0	0		
									point10	10	6,765,646.5	1,835,439.5	979.00	6.00	0.00	0	0		
									point11	11	6,765,594.5	1,835,438.8	980.00	6.00					
Existing Wall 4a	W	0.00	99.99	0.00				0.00	point13	13	6,765,869.5	1,836,346.2	979.00	8.00	0.00	0	0		
									point14	14	6,765,916.0	1,836,333.8	981.00	8.00	0.00	0	0		
									point15	15	6,765,915.0	1,836,327.8	979.00	8.00	0.00	0	0		
									point16	16	6,766,063.5	1,836,287.8	983.00	8.00					
Existing Wall 4b	W	0.00	99.99	0.00				0.00	point97	97	6,766,063.5	1,836,287.8	983.00	12.60	0.00	0	0		
									point96	96	6,766,033.0	1,836,126.5	983.00	12.60	0.00	0	0		
									point20	20	6,765,994.0	1,835,945.6	983.50	12.60					
Existing Wall 8	W	0.00	99.99	0.00				0.00	point21	21	6,767,611.0	1,837,334.2	1,022.00	5.30	0.00	0	0		
									point22	22	6,767,553.0	1,837,234.8	1,020.00	5.30	0.00	0	0		
									point23	23	6,767,487.5	1,837,125.2	1,017.00	5.30	0.00	0	0		
									point24	24	6,767,378.5	1,836,937.0	1,011.00	5.30	0.00	0	0		
									point25	25	6,767,307.5	1,836,819.0	1,009.00	5.30	0.00	0	0		
									point26	26	6,767,281.0	1,836,834.0	1,009.00	5.30	0.00	0	0		
									point27	27	6,767,278.0	1,836,829.9	1,009.00	5.30	0.00	0	0		
									point28	28	6,767,208.5	1,836,870.8	1,009.00	5.30	0.00	0	0		
									point29	29	6,767,191.5	1,836,819.8	1,004.00	5.30					
Existing Wall 7	W	0.00	99.99	0.00				0.00	point30	30	6,767,180.5	1,836,792.1	1,003.20	5.30	0.00	0	0		
									point31	31	6,767,171.0	1,836,693.8	998.00	5.30	0.00	0	0		
									point32	32	6,767,163.5	1,836,607.9	996.50	5.30	0.00	0	0		
									point33	33	6,767,096.0	1,836,615.8	992.80	5.30					
Building Barrier 3	W	0.00	99.99	0.00				0.00	point44	44	6,767,050.0	1,836,050.0	1,001.00	15.00	0.00	0	0		
									point45	45	6,767,159.5	1,835,772.5	1,002.00	15.00					
Building Barrier 10	W	0.00	99.99	0.00				0.00	point83	83	6,765,886.5	1,835,926.6	981.00	15.00	0.00	0	0		

INPUT: BARRIERS

I-215/Barton Road Interchange

									point84	84	6,765,879.0	1,835,875.9	981.00	15.00				
Existing Wall 6	W	0.00	99.99	0.00			0.00	point121	35	6,767,308.5	1,836,361.8	1,009.00	6.00	0.00	0	0		
								point120	36	6,767,257.5	1,836,378.1	1,006.00	6.00	0.00	0	0		
								point119	37	6,767,311.5	1,836,437.0	1,007.20	6.00					
Building Barrier 2	W	0.00	99.99	0.00			0.00	point89	89	6,766,954.5	1,836,000.5	998.00	15.00	0.00	0	0		
								point90	90	6,767,044.5	1,836,034.0	1,001.00	15.00	0.00	0	0		
								point91	91	6,767,086.0	1,835,921.8	1,001.00	15.00	0.00	0	0		
								point92	92	6,767,042.0	1,835,904.8	999.00	15.00	0.00	0	0		
								point93	93	6,767,018.5	1,835,968.4	999.00	15.00	0.00	0	0		
								point94	94	6,766,972.5	1,835,953.4	998.00	15.00	0.00	0	0		
								point96	95	6,766,954.5	1,836,000.5	998.00	15.00					
Building Barrier 11	W	0.00	99.99	0.00			0.00	point99	99	6,765,362.5	1,836,146.8	971.00	15.00	0.00	0	0		
								point98	98	6,765,359.5	1,836,207.0	971.00	15.00					
Building Barrier 12	W	0.00	99.99	0.00			0.00	point101	101	6,765,434.5	1,836,239.1	972.00	15.00	0.00	0	0		
								point100	100	6,765,445.5	1,836,298.2	972.00	15.00					
Building Barrier 13	W	0.00	99.99	0.00			0.00	point103	103	6,765,464.0	1,836,324.2	971.80	15.00	0.00	0	0		
								point102	102	6,765,473.0	1,836,362.2	971.80	15.00					
Building Barrier 1	W	0.00	99.99	0.00			0.00	point105	105	6,768,092.5	1,835,263.4	1,022.00	15.00	0.00	0	0		
								point104	104	6,768,134.5	1,835,263.8	1,022.00	15.00					
Building Barrier 4	W	0.00	99.99	0.00			0.00	point107	107	6,767,727.5	1,835,604.6	1,009.00	15.00	0.00	0	0		
								point106	106	6,767,804.0	1,835,605.8	1,009.00	15.00					
Building Barrier 5	W	0.00	99.99	0.00			0.00	point109	109	6,767,833.5	1,835,514.8	1,012.00	15.00	0.00	0	0		
								point108	108	6,767,893.0	1,835,513.5	1,012.00	15.00					
Building Barrier 7	W	0.00	99.99	0.00			0.00	point113	113	6,768,044.5	1,835,564.4	1,018.00	15.00	0.00	0	0		
								point112	112	6,768,106.0	1,835,546.8	1,018.00	15.00					
Building Barrier 8	W	0.00	99.99	0.00			0.00	point115	115	6,768,178.0	1,835,579.8	1,021.00	15.00	0.00	0	0		
								point114	114	6,768,181.5	1,835,514.8	1,021.00	15.00					
Building Barrier 9	W	0.00	99.99	0.00			0.00	point117	117	6,768,269.0	1,835,583.4	1,024.00	15.00	0.00	0	0		
								point116	116	6,768,297.5	1,835,584.5	1,024.00	15.00					
Building Barrier 14	W	0.00	99.99	0.00			0.00	point119	119	6,765,485.5	1,836,373.8	971.80	15.00	0.00	0	0		
								point118	118	6,765,488.5	1,836,414.1	971.80	15.00					
Building Barrier 15	W	0.00	99.99	0.00			0.00	point121	121	6,765,481.5	1,836,423.1	972.50	15.00	0.00	0	0		
								point120	120	6,765,481.5	1,836,477.8	972.50	15.00					
Building Barrier 16	W	0.00	99.99	0.00			0.00	point123	123	6,765,488.0	1,836,500.4	973.50	15.00	0.00	0	0		
								point122	122	6,765,501.0	1,836,565.8	973.50	15.00					
Building Barrier 17	W	0.00	99.99	0.00			0.00	point125	125	6,765,479.5	1,836,628.8	975.00	15.00	0.00	0	0		
								point124	124	6,765,491.5	1,836,710.2	975.00	15.00					
Building Barrier 18	W	0.00	99.99	0.00			0.00	point127	127	6,765,541.0	1,836,756.8	976.50	15.00	0.00	0	0		
								point126	126	6,765,558.5	1,836,831.6	976.50	15.00					
Building Barrier 19	W	0.00	99.99	0.00			0.00	point129	129	6,765,579.0	1,836,884.0	978.00	15.00	0.00	0	0		
								point128	128	6,765,590.0	1,836,938.8	978.00	15.00					
Building Barrier 20	W	0.00	99.99	0.00			0.00	point131	131	6,765,569.0	1,836,979.1	979.30	15.00	0.00	0	0		
								point130	130	6,765,577.0	1,837,024.2	979.30	15.00					
SB No. 16a	W	0.00	99.99	0.00			0.00	point437	437	6,764,520.0	1,833,459.5	939.10	6.00	2.00	5	0		
								point67	132	6,764,739.0	1,833,697.0	948.40	6.00	2.00	5	0		
								point68	133	6,764,907.5	1,833,874.6	945.70	6.00	2.00	5	0		
								point69	134	6,765,002.0	1,833,976.2	946.70	6.00	2.00	5	0		
								point70	135	6,765,184.5	1,834,172.5	949.30	6.00	2.00	5	0		
								point71	136	6,765,304.5	1,834,300.5	955.60	6.00	2.00	5	0		

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I-215/Barton Road Interchange

									point83	137	6,765,441.0	1,834,426.1	958.70	6.00	2.00	5	0		
									point72	138	6,765,589.0	1,834,561.6	962.80	6.00	2.00	5	0		
									point73	139	6,765,700.5	1,834,662.8	968.80	6.00	2.00	5	0		
									point74	140	6,765,784.0	1,834,738.4	971.00	6.00	2.00	5	0		
									point75	141	6,765,848.0	1,834,796.8	972.50	6.00	2.00	5	0		
									point76	142	6,765,902.5	1,834,842.2	971.00	6.00					
SB No. 21	W	0.00	99.99	0.00				0.00	point24	228	6,767,429.0	1,837,022.5	1,014.00	6.00	2.00	5	0		
									point235	229	6,767,387.5	1,836,950.8	1,011.00	6.00	2.00	5	0		
									point25	230	6,767,348.0	1,836,884.0	1,010.00	6.00	2.00	5	0		
									point26	231	6,767,308.0	1,836,817.2	1,009.00	6.00	2.00	5	0		
									point352	352	6,767,281.5	1,836,832.2	1,009.00	6.00	2.00	5	0		
									point353	353	6,767,278.0	1,836,828.8	1,009.00	6.00	2.00	5	0		
									point354	354	6,767,209.0	1,836,868.6	1,007.00	6.00					
Existing Wall 9	W	0.00	99.99	0.00				0.00	point97	235	6,766,521.5	1,835,483.5	986.00	6.00	0.00	0	0		
									point98	236	6,766,552.0	1,835,438.2	986.00	6.00	0.00	0	0		
									point99	237	6,766,680.5	1,835,440.1	987.00	6.00	0.00	0	0		
									point100	238	6,766,789.5	1,835,442.2	989.00	6.00	0.00	0	0		
									point101	239	6,766,909.5	1,835,440.9	993.00	6.00	0.00	0	0		
									point102	240	6,767,024.0	1,835,443.5	996.00	6.00					
Building Barrier 6	W	0.00	99.99	0.00				0.00	point126	243	6,767,945.0	1,835,556.1	1,015.00	15.00	0.00	0	0		
									point125	244	6,768,006.5	1,835,555.0	1,015.00	15.00					
Existing Wall 6	W	0.00	99.99	0.00				0.00	point252	252	6,767,311.5	1,836,437.0	1,007.20	7.00	0.00	0	0		
									point118	38	6,767,337.5	1,836,424.8	1,009.00	7.00	0.00	0	0		
									point117	39	6,767,370.5	1,836,489.2	1,009.20	7.00	0.00	0	0		
									point116	40	6,767,383.5	1,836,494.4	1,009.20	7.00					
Existing Wall 6	W	0.00	99.99	0.00				0.00	point253	253	6,767,383.5	1,836,494.4	1,009.20	6.00	0.00	0	0		
									point115	41	6,767,440.0	1,836,538.4	1,010.00	6.00	0.00	0	0		
									point114	42	6,767,433.5	1,836,545.9	1,010.00	6.00	0.00	0	0		
									point113	43	6,767,489.0	1,836,604.6	1,009.00	6.00	0.00	0	0		
									point217	217	6,767,490.5	1,836,601.6	1,009.30	6.00	0.00	0	0		
									point218	218	6,767,515.0	1,836,627.5	1,010.00	6.00	0.00	0	0		
									point219	219	6,767,518.5	1,836,635.2	1,010.00	6.00	0.00	0	0		
									point220	220	6,767,536.5	1,836,655.9	1,009.00	6.00	0.00	0	0		
									point221	221	6,767,534.5	1,836,658.5	1,009.00	6.00	0.00	0	0		
									point245	245	6,767,540.0	1,836,664.6	1,009.00	6.00	0.00	0	0		
									point246	246	6,767,609.5	1,836,623.9	1,012.30	6.00	0.00	0	0		
									point247	247	6,767,664.5	1,836,734.8	1,012.30	6.00	0.00	0	0		
									point248	248	6,767,627.0	1,836,757.2	1,011.00	6.00	0.00	0	0		
									point249	249	6,767,675.5	1,836,811.1	1,011.00	6.00					
Existing Wall 6	W	0.00	99.99	0.00				0.00	point255	255	6,767,729.5	1,836,868.9	1,013.00	5.00	0.00	0	0		
									point251	251	6,767,816.0	1,836,961.2	1,016.00	5.00					
Existing Wall 6	W	0.00	99.99	0.00				0.00	point256	256	6,767,675.5	1,836,811.1	1,011.00	5.00	0.00	0	0		
									point250	250	6,767,715.0	1,836,788.8	1,013.50	5.00					
SB No. 17b	W	0.00	99.99	0.00				0.00	point257	257	6,767,335.0	1,836,504.0	1,005.00	6.00	2.00	5	0		
									point258	258	6,767,422.0	1,836,600.2	1,004.50	6.00	2.00	5	0		
									point259	259	6,767,489.0	1,836,673.1	1,006.50	6.00	2.00	5	0		
									point260	260	6,767,578.5	1,836,768.8	1,008.00	6.00	2.00	5	0		
									point261	261	6,767,676.0	1,836,874.0	1,008.30	6.00	2.00	5	0		
									point262	262	6,767,775.0	1,836,980.4	1,010.00	6.00	2.00	5	0		

INPUT: BARRIERS

I-215/Barton Road Interchange

									point329	329	6,767,816.0	1,837,024.5	1,011.00	6.00				
SB No. 17a	W	0.00	99.99	0.00			0.00	point266	266	6,766,551.0	1,835,436.2	986.00	6.00	2.00	5	0		
								point267	267	6,766,510.0	1,835,491.2	988.70	6.00	2.00	5	0		
								point268	268	6,766,561.5	1,835,560.5	987.00	6.00	2.00	5	0		
								point269	269	6,766,622.0	1,835,642.1	984.00	6.00	2.00	5	0		
								point270	270	6,766,679.5	1,835,719.2	983.00	6.00	2.00	5	0		
								point271	271	6,766,747.5	1,835,810.8	983.00	6.00	2.00	5	0		
								point272	272	6,766,810.0	1,835,891.4	985.00	6.00	2.00	5	0		
								point273	273	6,766,875.5	1,835,967.9	990.00	6.00	2.00	5	0		
								point274	274	6,766,939.5	1,836,042.1	993.00	6.00	2.00	5	0		
								point275	275	6,767,003.5	1,836,116.5	996.00	6.00	2.00	5	0		
								point276	276	6,767,056.5	1,836,177.8	997.70	6.00	2.00	5	0		
								point277	277	6,767,126.0	1,836,253.8	1,000.60	6.00	2.00	5	0		
								point278	278	6,767,199.0	1,836,332.2	1,004.50	6.00	2.00	5	0		
								point279	279	6,767,265.0	1,836,403.4	1,005.70	6.00	2.00	5	0		
								point280	280	6,767,328.0	1,836,471.6	1,007.00	6.00	2.00	5	0		
								point281	281	6,767,361.5	1,836,507.2	1,007.00	6.00	2.00	5	0		
								point282	282	6,767,404.5	1,836,542.0	1,007.00	6.00					
SB No. 20	W	0.00	99.99	0.00			0.00	point419	419	6,767,688.0	1,837,118.2	1,017.70	6.00	2.00	5	0		
								point418	418	6,767,584.0	1,837,006.2	1,014.70	6.00	2.00	5	0		
								point417	417	6,767,527.5	1,836,945.0	1,012.80	6.00	2.00	5	0		
								point416	416	6,767,461.5	1,836,873.9	1,009.40	6.00	2.00	5	0		
								point415	415	6,767,372.5	1,836,778.4	1,005.00	6.00	2.00	5	0		
								point414	414	6,767,269.5	1,836,667.4	999.50	6.00	2.00	5	0		
								point413	413	6,767,203.0	1,836,595.5	995.00	6.00	2.00	5	0		
								point412	412	6,767,146.5	1,836,534.8	996.00	6.00	2.00	5	0		
								point371	371	6,767,129.0	1,836,516.1	998.00	6.00	2.00	5	0		
								point326	326	6,767,016.5	1,836,412.5	1,001.40	6.00	2.00	5	0		
								point320	320	6,766,904.5	1,836,312.8	999.50	6.00	2.00	5	0		
								point305	305	6,766,799.5	1,836,219.5	996.30	6.00	2.00	5	0		
								point306	306	6,766,692.5	1,836,182.0	995.00	6.00	2.00	5	0		
								point307	307	6,766,634.0	1,836,154.2	994.50	6.00	2.00	5	0		
								point308	308	6,766,599.0	1,836,139.1	993.50	6.00					
SB No. 16b	W	0.00	99.99	0.00			0.00	point331	331	6,764,460.5	1,833,366.4	942.00	6.00	2.00	5	0		
								point332	332	6,764,591.5	1,833,507.2	947.70	6.00					
Building Barrier 27	W	0.00	99.99	0.00			0.00	point390	390	6,765,417.0	1,836,053.8	970.50	15.00	0.00	0	0		
								point389	389	6,765,431.0	1,836,120.9	970.50	15.00					
Building Barrier 26	W	0.00	99.99	0.00			0.00	point392	392	6,765,416.5	1,835,958.0	970.00	15.00	0.00	0	0		
								point391	391	6,765,421.5	1,835,986.5	970.00	15.00					
Building Barrier 25	W	0.00	99.99	0.00			0.00	point394	394	6,765,375.0	1,835,894.9	968.00	15.00	0.00	0	0		
								point393	393	6,765,373.0	1,835,940.1	968.00	15.00					
Building Barrier 24	W	0.00	99.99	0.00			0.00	point396	396	6,765,329.0	1,835,780.8	967.50	15.00	0.00	0	0		
								point395	395	6,765,328.0	1,835,829.5	967.50	15.00					
Building Barrier 23	W	0.00	99.99	0.00			0.00	point398	398	6,765,345.0	1,835,696.2	967.50	15.00	0.00	0	0		
								point397	397	6,765,344.0	1,835,747.4	967.50	15.00					
Building Barrier 22	W	0.00	99.99	0.00			0.00	point400	400	6,765,348.0	1,835,616.6	967.00	15.00	0.00	0	0		
								point399	399	6,765,348.0	1,835,659.4	967.00	15.00					
Building Barrier 21	W	0.00	99.99	0.00			0.00	point402	402	6,765,335.5	1,835,452.5	969.00	15.00	0.00	0	0		
								point401	401	6,765,334.5	1,835,495.2	969.00	15.00					

**INPUT: BARRIERS**

**I-215/Barton Road Interchange**

SB No. 18	W	0.00	99.99	0.00				0.00	point411	411	6,765,726.5	1,835,654.2	980.00	6.00	2.00	5	0		
									point410	410	6,765,702.5	1,835,595.4	980.00	6.00	2.00	5	0		
									point409	409	6,765,676.5	1,835,528.6	979.00	6.00	2.00	5	0		
									point408	408	6,765,647.5	1,835,438.1	977.00	6.00	2.00	5	0		
									point407	407	6,765,608.0	1,835,437.2	978.00	6.00	2.00	5	0		
									point406	406	6,765,544.5	1,835,437.6	979.30	6.00	2.00	5	0		
									point405	405	6,765,492.5	1,835,435.8	978.00	6.00	2.00	5	0		
									point404	404	6,765,451.5	1,835,436.4	976.70	6.00	2.00	5	0		
									point403	403	6,765,430.0	1,835,461.5	975.00	6.00					
SB No. 22	W	0.00	99.99	0.00				0.00	point425	425	6,767,100.5	1,836,209.1	1,004.00	6.00	2.00	5	0		
									point424	424	6,767,136.5	1,836,250.6	1,004.00	6.00	2.00	5	0		
									point423	423	6,767,211.5	1,836,328.8	1,005.00	6.00	2.00	5	0		
									point422	422	6,767,233.0	1,836,352.5	1,005.30	6.00	2.00	5	0		
									point421	421	6,767,257.0	1,836,377.9	1,006.00	6.00	2.00	5	0		
									point420	420	6,767,308.5	1,836,361.2	1,009.00	6.00					
SB No. 19	W	0.00	99.99	0.00				0.00	point432	432	6,766,014.0	1,835,955.5	989.00	6.00	2.00	5	0		
									point431	431	6,765,965.0	1,835,898.9	981.00	6.00	2.00	5	0		
									point430	430	6,765,936.0	1,835,845.2	981.00	6.00	2.00	5	0		
									point429	429	6,765,918.5	1,835,784.8	982.00	6.00	2.00	5	0		
									point428	428	6,765,904.5	1,835,730.0	982.00	6.00	2.00	5	0		
									point427	427	6,765,892.0	1,835,679.6	982.00	6.00	2.00	5	0		
									point426	426	6,765,879.5	1,835,630.6	982.70	6.00					
SB No. 23	W	0.00	99.99	0.00				0.00	point436	436	6,767,715.5	1,836,789.4	1,013.50	6.00	2.00	5	0		
									point435	435	6,767,676.0	1,836,811.8	1,012.00	6.00	2.00	5	0		
									point434	434	6,767,729.0	1,836,867.9	1,013.00	6.00	2.00	5	0		
									point433	433	6,767,762.5	1,836,853.1	1,015.00	6.00					

**RESULTS: BARRIER DESCRIPTIONS**

**I-215/Barton Road Interchange**

LSA Associates, Inc.				16 February 2012						
Teak Kim				TNM 2.5						

**RESULTS: BARRIER DESCRIPTIONS**

<b>PROJECT/CONTRACT:</b>	<b>I-215/Barton Road Interchange</b>									
<b>RUN:</b>	<b>ALT 7</b>									
<b>BARRIER DESIGN:</b>	<b>INPUT HEIGHTS</b>									

<b>Barriers</b>										
<b>Name</b>	<b>Type</b>	<b>Heights along Barrier</b>			<b>Length</b>	<b>If Wall</b>	<b>If Berm</b>	<b>Top</b>	<b>Run:Rise</b>	<b>Cost</b>
		<b>Min</b>	<b>Avg</b>	<b>Max</b>						
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	\$
Existing Wall 5a	W	5.30	5.30	5.30	252	1336				0
Existing Wall 5b	W	6.00	6.00	6.00	963	5777				0
Existing Wall 4a	W	8.00	8.00	8.00	208	1664				0
Existing Wall 4b	W	12.60	12.60	12.60	349	4399				0
Existing Wall 8	W	5.30	5.30	5.30	768	4070				0
Existing Wall 7	W	5.30	5.30	5.30	253	1341				0
Building Barrier 3	W	15.00	15.00	15.00	298	4475				0
Building Barrier 10	W	15.00	15.00	15.00	51	770				0
Existing Wall 6	W	6.00	6.00	6.00	133	801				0
Building Barrier 2	W	15.00	15.00	15.00	430	6443				0
Building Barrier 11	W	15.00	15.00	15.00	60	905				0
Building Barrier 12	W	15.00	15.00	15.00	60	902				0
Building Barrier 13	W	15.00	15.00	15.00	39	586				0
Building Barrier 1	W	15.00	15.00	15.00	42	630				0
Building Barrier 4	W	15.00	15.00	15.00	77	1148				0
Building Barrier 5	W	15.00	15.00	15.00	60	893				0
Building Barrier 7	W	15.00	15.00	15.00	64	960				0
Building Barrier 8	W	15.00	15.00	15.00	65	976				0
Building Barrier 9	W	15.00	15.00	15.00	29	428				0
Building Barrier 14	W	15.00	15.00	15.00	40	607				0
Building Barrier 15	W	15.00	15.00	15.00	55	819				0
Building Barrier 16	W	15.00	15.00	15.00	67	1000				0
Building Barrier 17	W	15.00	15.00	15.00	82	1236				0

**RESULTS: BARRIER DESCRIPTIONS**

**I-215/Barton Road Interchange**

Building Barrier 18	W	15.00	15.00	15.00	77	1153				0
Building Barrier 19	W	15.00	15.00	15.00	56	838				0
Building Barrier 20	W	15.00	15.00	15.00	46	687				0
SB No. 16a	W	6.00	6.00	6.00	1957	11743				0
SB No. 21	W	6.00	6.00	6.00	353	2120				0
Existing Wall 9	W	6.00	6.00	6.00	527	3160				0
Building Barrier 6	W	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	7.00	7.00	7.00	115	806				0
Existing Wall 6	W	6.00	6.00	6.00	569	3416				0
Existing Wall 6	W	5.00	5.00	5.00	127	633				0
Existing Wall 6	W	5.00	5.00	5.00	45	227				0
SB No. 17b	W	6.00	6.00	6.00	709	4252				0
SB No. 17a	W	6.00	6.00	6.00	1451	8705				0
SB No. 20	W	6.00	6.00	6.00	1481	8887				0
SB No. 16b	W	6.00	6.00	6.00	192	1154				0
Building Barrier 27	W	15.00	15.00	15.00	69	1029				0
Building Barrier 26	W	15.00	15.00	15.00	29	434				0
Building Barrier 25	W	15.00	15.00	15.00	45	679				0
Building Barrier 24	W	15.00	15.00	15.00	49	731				0
Building Barrier 23	W	15.00	15.00	15.00	51	767				0
Building Barrier 22	W	15.00	15.00	15.00	43	641				0
Building Barrier 21	W	15.00	15.00	15.00	43	641				0
SB No. 18	W	6.00	6.00	6.00	459	2756				0
SB No. 22	W	6.00	6.00	6.00	284	1706				0
SB No. 19	W	6.00	6.00	6.00	358	2147				0
SB No. 23	W	6.00	6.00	6.00	159	955				0
									Total Cost:	0





**RESULTS: BARRIER-SEGMENT DESCRIPTIONS**

**I-215/Barton Road Interchange**

		point28	28	5.30	5.30	5.30	54	285				0
Existing Wall 7	W	point30	30	5.30	5.30	5.30	99	524				0
		point31	31	5.30	5.30	5.30	86	457				0
		point32	32	5.30	5.30	5.30	68	360				0
Building Barrier 3	W	point44	44	15.00	15.00	15.00	298	4475				0
Building Barrier 10	W	point83	83	15.00	15.00	15.00	51	770				0
Existing Wall 6	W	point121	35	6.00	6.00	6.00	54	321				0
		point120	36	6.00	6.00	6.00	80	479				0
Building Barrier 2	W	point89	89	15.00	15.00	15.00	96	1440				0
		point90	90	15.00	15.00	15.00	120	1795				0
		point91	91	15.00	15.00	15.00	47	708				0
		point92	92	15.00	15.00	15.00	68	1017				0
		point93	93	15.00	15.00	15.00	48	726				0
		point94	94	15.00	15.00	15.00	50	757				0
Building Barrier 11	W	point99	99	15.00	15.00	15.00	60	905				0
Building Barrier 12	W	point101	101	15.00	15.00	15.00	60	902				0
Building Barrier 13	W	point103	103	15.00	15.00	15.00	39	586				0
Building Barrier 1	W	point105	105	15.00	15.00	15.00	42	630				0
Building Barrier 4	W	point107	107	15.00	15.00	15.00	77	1148				0
Building Barrier 5	W	point109	109	15.00	15.00	15.00	60	893				0
Building Barrier 7	W	point113	113	15.00	15.00	15.00	64	960				0
Building Barrier 8	W	point115	115	15.00	15.00	15.00	65	976				0
Building Barrier 9	W	point117	117	15.00	15.00	15.00	29	428				0
Building Barrier 14	W	point119	119	15.00	15.00	15.00	40	607				0

**RESULTS: BARRIER-SEGMENT DESCRIPTIONS**

**I-215/Barton Road Interchange**

Building Barrier 15	W	point121	121	15.00	15.00	15.00	55	819				0
Building Barrier 16	W	point123	123	15.00	15.00	15.00	67	1000				0
Building Barrier 17	W	point125	125	15.00	15.00	15.00	82	1236				0
Building Barrier 18	W	point127	127	15.00	15.00	15.00	77	1153				0
Building Barrier 19	W	point129	129	15.00	15.00	15.00	56	838				0
Building Barrier 20	W	point131	131	15.00	15.00	15.00	46	687				0
SB No. 16a	W	point437	437	6.00	6.00	6.00	323	1938				0
		point67	132	6.00	6.00	6.00	245	1469				0
		point68	133	6.00	6.00	6.00	139	833				0
		point69	134	6.00	6.00	6.00	268	1608				0
		point70	135	6.00	6.00	6.00	175	1053				0
		point71	136	6.00	6.00	6.00	186	1113				0
		point83	137	6.00	6.00	6.00	201	1204				0
		point72	138	6.00	6.00	6.00	151	903				0
		point73	139	6.00	6.00	6.00	113	676				0
		point74	140	6.00	6.00	6.00	87	520				0
		point75	141	6.00	6.00	6.00	71	426				0
SB No. 21	W	point24	228	6.00	6.00	6.00	83	497				0
		point235	229	6.00	6.00	6.00	78	465				0
		point25	230	6.00	6.00	6.00	78	467				0
		point26	231	6.00	6.00	6.00	30	183				0
		point352	352	6.00	6.00	6.00	5	30				0
		point353	353	6.00	6.00	6.00	80	478				0
Existing Wall 9	W	point97	235	6.00	6.00	6.00	55	327				0
		point98	236	6.00	6.00	6.00	129	771				0
		point99	237	6.00	6.00	6.00	109	654				0
		point100	238	6.00	6.00	6.00	120	720				0
		point101	239	6.00	6.00	6.00	115	687				0
Building Barrier 6	W	point126	243	15.00	15.00	15.00	62	923				0

**RESULTS: BARRIER-SEGMENT DESCRIPTIONS**

**I-215/Barton Road Interchange**

Existing Wall 6	W	point252	252	7.00	7.00	7.00	29	201					0
		point118	38	7.00	7.00	7.00	72	507					0
		point117	39	7.00	7.00	7.00	14	98					0
Existing Wall 6	W	point253	253	6.00	6.00	6.00	72	430					0
		point115	41	6.00	6.00	6.00	10	60					0
		point114	42	6.00	6.00	6.00	81	485					0
		point113	43	6.00	6.00	6.00	3	20					0
		point217	217	6.00	6.00	6.00	36	214					0
		point218	218	6.00	6.00	6.00	9	51					0
		point219	219	6.00	6.00	6.00	27	164					0
		point220	220	6.00	6.00	6.00	3	20					0
		point221	221	6.00	6.00	6.00	8	49					0
		point245	245	6.00	6.00	6.00	81	483					0
		point246	246	6.00	6.00	6.00	124	743					0
		point247	247	6.00	6.00	6.00	44	262					0
		point248	248	6.00	6.00	6.00	72	435					0
Existing Wall 6	W	point255	255	5.00	5.00	5.00	127	633					0
Existing Wall 6	W	point256	256	5.00	5.00	5.00	45	227					0
SB No. 17b	W	point257	257	6.00	6.00	6.00	130	778					0
		point258	258	6.00	6.00	6.00	99	594					0
		point259	259	6.00	6.00	6.00	131	786					0
		point260	260	6.00	6.00	6.00	143	861					0
		point261	261	6.00	6.00	6.00	145	872					0
		point262	262	6.00	6.00	6.00	60	361					0
SB No. 17a	W	point266	266	6.00	6.00	6.00	69	412					0
		point267	267	6.00	6.00	6.00	86	518					0
		point268	268	6.00	6.00	6.00	102	610					0
		point269	269	6.00	6.00	6.00	96	577					0
		point270	270	6.00	6.00	6.00	114	684					0
		point271	271	6.00	6.00	6.00	102	612					0
		point272	272	6.00	6.00	6.00	101	604					0
		point273	273	6.00	6.00	6.00	98	588					0
		point274	274	6.00	6.00	6.00	98	589					0

**RESULTS: BARRIER-SEGMENT DESCRIPTIONS**

**I-215/Barton Road Interchange**

		point275	275	6.00	6.00	6.00	81	486				0
		point276	276	6.00	6.00	6.00	103	618				0
		point277	277	6.00	6.00	6.00	107	643				0
		point278	278	6.00	6.00	6.00	97	582				0
		point279	279	6.00	6.00	6.00	93	557				0
		point280	280	6.00	6.00	6.00	49	293				0
		point281	281	6.00	6.00	6.00	55	332				0
SB No. 20	W	point419	419	6.00	6.00	6.00	153	917				0
		point418	418	6.00	6.00	6.00	83	500				0
		point417	417	6.00	6.00	6.00	97	582				0
		point416	416	6.00	6.00	6.00	131	783				0
		point415	415	6.00	6.00	6.00	151	909				0
		point414	414	6.00	6.00	6.00	98	588				0
		point413	413	6.00	6.00	6.00	83	498				0
		point412	412	6.00	6.00	6.00	26	153				0
		point371	371	6.00	6.00	6.00	153	918				0
		point326	326	6.00	6.00	6.00	150	900				0
		point320	320	6.00	6.00	6.00	140	843				0
		point305	305	6.00	6.00	6.00	113	680				0
		point306	306	6.00	6.00	6.00	65	388				0
		point307	307	6.00	6.00	6.00	38	229				0
SB No. 16b	W	point331	331	6.00	6.00	6.00	192	1154				0
Building Barrier 27	W	point390	390	15.00	15.00	15.00	69	1029				0
Building Barrier 26	W	point392	392	15.00	15.00	15.00	29	434				0
Building Barrier 25	W	point394	394	15.00	15.00	15.00	45	679				0
Building Barrier 24	W	point396	396	15.00	15.00	15.00	49	731				0
Building Barrier 23	W	point398	398	15.00	15.00	15.00	51	767				0
Building Barrier 22	W	point400	400	15.00	15.00	15.00	43	641				0
Building Barrier 21	W	point402	402	15.00	15.00	15.00	43	641				0

**RESULTS: BARRIER-SEGMENT DESCRIPTIONS**

**I-215/Barton Road Interchange**

SB No. 18	W	point411	411	6.00	6.00	6.00	64	381				0
		point410	410	6.00	6.00	6.00	72	430				0
		point409	409	6.00	6.00	6.00	95	570				0
		point408	408	6.00	6.00	6.00	40	237				0
		point407	407	6.00	6.00	6.00	64	381				0
		point406	406	6.00	6.00	6.00	52	312				0
		point405	405	6.00	6.00	6.00	41	246				0
		point404	404	6.00	6.00	6.00	33	198				0
SB No. 22	W	point425	425	6.00	6.00	6.00	55	330				0
		point424	424	6.00	6.00	6.00	108	650				0
		point423	423	6.00	6.00	6.00	32	192				0
		point422	422	6.00	6.00	6.00	35	210				0
		point421	421	6.00	6.00	6.00	54	325				0
SB No. 19	W	point432	432	6.00	6.00	6.00	75	449				0
		point431	431	6.00	6.00	6.00	61	366				0
		point430	430	6.00	6.00	6.00	63	378				0
		point429	429	6.00	6.00	6.00	57	339				0
		point428	428	6.00	6.00	6.00	52	311				0
		point427	427	6.00	6.00	6.00	51	303				0
SB No. 23	W	point436	436	6.00	6.00	6.00	45	272				0
		point435	435	6.00	6.00	6.00	77	463				0
		point434	434	6.00	6.00	6.00	37	220				0

**INPUT: BUILDING ROWS**

**I-215/Barton Road Interchange**

LSA Associates, Inc.			16 February 2012			
Teak Kim			TNM 2.5			
<b>INPUT: BUILDING ROWS</b>						
<b>PROJECT/CONTRACT:</b>			<b>I-215/Barton Road Interchange</b>			
<b>RUN:</b>			<b>ALT 7</b>			
Building Row			Points			
Name	Average Height	Building Percent	No.	Coordinates (ground)		
	ft	%		X	Y	Z
				ft	ft	ft
Building1	15.00	70	1	6,767,025.0	1,835,788.8	996.00
			2	6,767,044.5	1,835,478.4	997.00
Building9	15.00	70	22	6,765,592.0	1,835,474.4	977.50
			23	6,765,604.0	1,835,545.6	977.00
			24	6,765,624.5	1,835,612.0	977.00
			25	6,765,637.5	1,835,686.2	977.00
			26	6,765,651.5	1,835,762.1	976.00
			27	6,765,681.0	1,835,876.9	975.50
			28	6,765,697.5	1,835,994.0	976.00
			29	6,765,738.5	1,836,146.9	976.00
			40	6,765,766.5	1,836,294.5	977.00
Building10	15.00	70	30	6,765,519.5	1,835,475.2	977.50
			31	6,765,541.0	1,835,555.0	975.00
			32	6,765,561.0	1,835,615.0	975.00
			33	6,765,570.5	1,835,682.9	974.50
			34	6,765,589.5	1,835,762.4	974.00
			36	6,765,622.5	1,835,884.6	974.00
			37	6,765,635.0	1,835,995.0	974.50
			38	6,765,672.0	1,836,156.9	975.00
			39	6,765,695.0	1,836,317.1	976.00
Building11	15.00	70	41	6,767,116.5	1,836,615.1	994.00
			42	6,767,133.0	1,836,792.8	1,002.00
			48	6,767,178.5	1,836,928.8	1,008.00
			43	6,767,289.0	1,836,876.6	1,010.50

**INPUT: BUILDING ROWS**

**I-215/Barton Road Interchange**

			44	6,767,384.0	1,837,041.9	1,013.80
			45	6,767,459.5	1,837,171.1	1,016.50
			46	6,767,537.0	1,837,328.2	1,019.80
Building12	15.00	70	49	6,767,252.0	1,836,961.2	1,010.00
			50	6,767,314.0	1,837,061.5	1,013.20
			51	6,767,354.5	1,837,123.5	1,014.60
			52	6,767,394.5	1,837,188.8	1,015.70
			53	6,767,443.0	1,837,284.8	1,016.90
Building2	15.00	70	63	6,767,332.0	1,836,142.8	1,011.00
			64	6,767,395.0	1,836,353.2	1,011.00
			65	6,767,447.5	1,836,458.5	1,011.00
			66	6,767,585.0	1,836,609.2	1,012.00
Building6	15.00	70	73	6,767,849.0	1,836,361.1	1,023.00
			74	6,767,766.0	1,836,525.2	1,021.00
			75	6,767,752.0	1,836,656.4	1,015.00
			76	6,767,793.5	1,836,819.4	1,015.00
			77	6,767,853.5	1,836,903.6	1,017.00
			78	6,768,046.0	1,836,891.9	1,027.00
Building7	20.00	80	79	6,768,334.0	1,836,863.1	1,039.00
			80	6,768,350.0	1,837,069.9	1,039.00
Building8	20.00	80	81	6,768,634.5	1,837,260.8	1,041.00
			82	6,768,640.0	1,837,460.0	1,041.00
Building3	15.00	50	83	6,767,491.0	1,835,936.8	1,013.00
			84	6,767,511.5	1,836,192.4	1,014.00
Building5	15.00	80	87	6,767,589.5	1,836,564.0	1,013.50
			88	6,767,683.5	1,836,611.1	1,015.00
			89	6,767,766.5	1,836,841.2	1,014.00
			90	6,767,837.0	1,836,901.5	1,015.00
Building4	15.00	80	91	6,767,639.0	1,836,566.8	1,013.50
			92	6,767,663.0	1,836,524.9	1,014.00
			93	6,767,683.5	1,836,473.0	1,014.00
			94	6,767,665.5	1,836,433.1	1,014.50
			95	6,767,597.0	1,836,386.5	1,014.50
			98	6,767,575.5	1,836,365.1	1,015.00
			99	6,767,524.0	1,836,367.2	1,014.00
			100	6,767,500.5	1,836,295.2	1,013.50





**INPUT: RECEIVERS**

**I-215/Barton Road Interchange**

R-23	25	1	6,766,800.0	1,835,732.4	991.00	5.00	0.00	66	12.0	5.0
R-24	26	1	6,766,904.0	1,835,862.9	995.00	5.00	0.00	66	12.0	5.0
R-25	27	1	6,766,949.5	1,835,989.5	998.00	5.00	0.00	66	12.0	5.0
R-26	28	1	6,767,358.0	1,836,154.8	1,010.00	5.00	0.00	66	12.0	5.0
R-27	29	1	6,767,277.5	1,836,233.9	1,010.00	5.00	0.00	66	12.0	5.0
R-28	30	1	6,767,223.0	1,836,270.5	1,007.00	5.00	0.00	66	12.0	5.0
R-29	31	1	6,767,312.0	1,836,257.5	1,011.00	5.00	0.00	66	12.0	5.0
R-30	32	1	6,767,346.0	1,836,387.4	1,010.00	5.00	0.00	66	12.0	5.0
R-31	33	1	6,767,427.5	1,836,506.8	1,010.00	5.00	0.00	66	12.0	5.0
R-32	34	1	6,767,537.5	1,836,615.4	1,011.00	5.00	0.00	66	12.0	5.0
R-33	35	1	6,767,654.5	1,836,580.0	1,014.00	5.00	0.00	66	12.0	5.0
R-34	36	1	6,767,654.0	1,836,659.0	1,013.00	5.00	0.00	66	12.0	5.0
R-35	45	1	6,767,720.5	1,836,824.5	1,014.00	5.00	0.00	66	12.0	5.0
R-36	46	1	6,767,967.0	1,836,587.1	1,021.00	5.00	0.00	66	12.0	5.0
R-37	47	1	6,767,952.0	1,836,657.6	1,021.00	5.00	0.00	66	12.0	5.0
R-38	48	1	6,767,948.0	1,836,724.2	1,022.00	5.00	0.00	66	12.0	5.0
R-43	49	1	6,767,403.0	1,835,621.4	1,010.00	5.00	0.00	66	12.0	5.0
R-44	50	1	6,767,441.0	1,835,724.9	1,012.00	5.00	0.00	66	12.0	5.0
R-45	51	1	6,767,505.0	1,835,755.1	1,012.00	5.00	0.00	66	12.0	5.0
R-46	52	1	6,767,488.0	1,836,140.5	1,013.00	5.00	0.00	66	12.0	5.0
R-47	53	1	6,767,521.0	1,836,333.1	1,014.00	5.00	0.00	66	12.0	5.0
R-48	63	1	6,767,622.0	1,836,368.2	1,020.00	5.00	0.00	66	12.0	5.0
R-49	64	1	6,767,667.0	1,836,407.6	1,015.00	5.00	0.00	66	12.0	5.0
R-50	65	1	6,767,729.5	1,836,490.5	1,021.00	5.00	0.00	66	12.0	5.0
R-51	66	1	6,767,779.5	1,836,375.9	1,025.00	5.00	0.00	66	12.0	5.0
R-60	67	1	6,765,877.0	1,835,854.8	981.00	5.00	0.00	66	12.0	5.0
R-61	68	1	6,765,898.0	1,835,977.1	980.00	5.00	0.00	66	12.0	5.0
R-62	175	1	6,765,910.5	1,836,023.6	980.00	5.00	0.00	66	12.0	5.0
R-63	176	1	6,765,920.0	1,836,066.9	979.00	5.00	0.00	66	12.0	5.0
R-64	177	1	6,765,935.5	1,836,123.2	979.40	5.00	0.00	66	12.0	5.0
R-65	178	1	6,765,941.5	1,836,167.2	979.00	5.00	0.00	66	12.0	5.0
R-66	179	1	6,765,950.5	1,836,226.0	978.50	5.00	0.00	66	12.0	5.0
R-67	180	1	6,766,741.0	1,836,294.1	998.00	5.00	0.00	66	12.0	5.0
R-68	181	1	6,766,698.5	1,836,227.2	995.00	5.00	0.00	66	12.0	5.0
R-70	182	1	6,765,632.0	1,835,524.8	979.00	5.00	0.00	66	12.0	5.0
R-71	183	1	6,765,656.0	1,835,634.1	978.00	5.00	0.00	66	12.0	5.0

**INPUT: RECEIVERS**

**I-215/Barton Road Interchange**

R-72	184	1	6,765,701.0	1,835,772.5	979.00	5.00	0.00	66	12.0	5.0
R-73	185	1	6,765,732.0	1,835,874.2	976.00	5.00	0.00	66	12.0	5.0
R-74	186	1	6,765,718.0	1,835,959.0	976.00	5.00	0.00	66	12.0	5.0
R-75	187	1	6,765,763.5	1,836,088.0	977.00	5.00	0.00	66	12.0	5.0
R-76	188	1	6,765,784.0	1,836,232.2	977.00	5.00	0.00	66	12.0	5.0
R-77	189	1	6,765,563.5	1,835,525.6	977.00	5.00	0.00	66	12.0	5.0
R-78	190	1	6,765,587.0	1,835,635.9	975.00	5.00	0.00	66	12.0	5.0
R-79	191	1	6,765,615.0	1,835,766.5	975.00	5.00	0.00	66	12.0	5.0
R-80	192	1	6,765,658.5	1,835,877.6	975.00	5.00	0.00	66	12.0	5.0
R-81	193	1	6,765,687.0	1,836,088.9	976.00	5.00	0.00	66	12.0	5.0
R-82	194	1	6,765,712.0	1,836,247.5	977.00	5.00	0.00	66	12.0	5.0
R-83	195	1	6,765,489.5	1,835,529.0	975.00	5.00	0.00	66	12.0	5.0
R-84	196	1	6,765,536.0	1,835,642.6	974.00	5.00	0.00	66	12.0	5.0
R-85	197	1	6,765,573.5	1,835,777.5	974.00	5.00	0.00	66	12.0	5.0
R-86	198	1	6,765,568.5	1,835,881.9	974.00	5.00	0.00	66	12.0	5.0
R-87	199	1	6,765,615.0	1,835,965.9	974.00	5.00	0.00	66	12.0	5.0
R-88	200	1	6,765,612.5	1,836,106.6	974.00	5.00	0.00	66	12.0	5.0
R-89	201	1	6,765,654.0	1,836,264.4	976.00	5.00	0.00	66	12.0	5.0
R-90	202	1	6,766,453.0	1,836,433.5	992.00	5.00	0.00	66	12.0	5.0
R-91	203	1	6,766,387.0	1,836,469.0	991.00	5.00	0.00	66	12.0	5.0
R-92	204	1	6,766,320.5	1,836,505.8	989.00	5.00	0.00	66	12.0	5.0
R-93	205	1	6,765,532.5	1,836,786.1	975.00	5.00	0.00	66	12.0	5.0
R-94	210	1	6,765,459.0	1,836,690.6	975.00	5.00	0.00	66	12.0	5.0
R-95	211	1	6,765,429.5	1,836,537.6	973.00	5.00	0.00	66	12.0	5.0
R-96	212	1	6,765,440.5	1,836,442.1	972.00	5.00	0.00	66	12.0	5.0
R-97	69	1	6,765,418.5	1,836,398.0	971.00	5.00	0.00	66	12.0	5.0
R-98	213	1	6,765,426.0	1,836,349.0	971.80	5.00	0.00	66	12.0	5.0
R-99	214	1	6,765,416.0	1,836,267.4	971.00	5.00	0.00	66	12.0	5.0
R-100	215	1	6,765,310.0	1,836,184.2	971.00	5.00	0.00	66	12.0	5.0
R-101	217	1	6,765,368.0	1,836,085.5	971.00	5.00	0.00	66	12.0	5.0
R-102	218	1	6,765,362.0	1,835,984.2	969.00	5.00	0.00	66	12.0	5.0
R-103	219	1	6,765,327.0	1,835,920.5	968.00	5.00	0.00	66	12.0	5.0
R-104	220	1	6,765,297.0	1,835,826.5	968.00	5.00	0.00	66	12.0	5.0
R-105	221	1	6,765,304.0	1,835,724.1	966.00	5.00	0.00	66	12.0	5.0
R-106	222	1	6,765,306.5	1,835,636.2	967.00	5.00	0.00	66	12.0	5.0
R-107	225	1	6,765,307.5	1,835,477.2	968.00	5.00	0.00	66	12.0	5.0

**INPUT: RECEIVERS**

**I-215/Barton Road Interchange**

R-108	226	1	6,766,541.0	1,836,707.8	991.00	5.00	0.00	66	12.0	5.0	
R-109	227	1	6,766,612.0	1,836,622.0	998.00	5.00	0.00	66	12.0	5.0	
R-110	231	1	6,766,720.0	1,836,587.8	995.00	5.00	0.00	66	12.0	5.0	
R-111	232	1	6,766,824.0	1,836,554.8	997.00	5.00	0.00	66	12.0	5.0	
R-112	243	1	6,766,929.0	1,836,453.1	1,000.00	5.00	0.00	66	12.0	5.0	
R-113	244	1	6,767,159.0	1,836,632.9	996.00	5.00	0.00	66	12.0	5.0	
R-114	245	1	6,767,164.0	1,836,736.6	997.50	5.00	0.00	66	12.0	5.0	
R-115	251	1	6,767,303.5	1,836,841.5	1,010.00	5.00	0.00	66	12.0	5.0	
R-116	252	1	6,767,392.0	1,836,979.4	1,013.00	5.00	0.00	66	12.0	5.0	
R-117	253	1	6,767,436.0	1,837,051.5	1,015.00	5.00	0.00	66	12.0	5.0	
R-121	254	1	6,767,059.0	1,836,750.2	1,000.00	5.00	0.00	66	12.0	5.0	
R-122	255	1	6,767,191.5	1,836,881.5	1,009.00	5.00	0.00	66	12.0	5.0	
R-123	256	1	6,767,257.0	1,836,858.2	1,010.00	5.00	0.00	66	12.0	5.0	
R-124	257	1	6,767,094.5	1,836,933.1	1,007.00	5.00	0.00	66	12.0	5.0	
R-125	258	1	6,767,228.5	1,836,996.1	1,011.00	5.00	0.00	66	12.0	5.0	
R-126	259	1	6,767,283.0	1,837,075.9	1,014.00	5.00	0.00	66	12.0	5.0	
R-127	260	1	6,767,322.5	1,837,142.9	1,015.00	5.00	0.00	66	12.0	5.0	
R-131	261	1	6,763,952.0	1,832,516.0	939.00	5.00	0.00	66	12.0	5.0	Y
R-132	262	1	6,763,508.5	1,832,790.1	931.00	5.00	0.00	66	12.0	5.0	Y
R-133	263	1	6,764,050.5	1,833,322.9	940.50	5.00	0.00	66	12.0	5.0	Y
R-134	264	1	6,765,092.0	1,833,721.5	951.50	5.00	0.00	66	12.0	5.0	Y
R-135	265	1	6,764,850.5	1,834,201.0	954.50	5.00	0.00	66	12.0	5.0	Y
R-136	266	1	6,765,410.5	1,834,805.2	966.10	5.00	0.00	66	12.0	5.0	Y
R-137	267	1	6,765,924.0	1,834,797.2	972.00	5.00	0.00	66	12.0	5.0	Y
R-138	268	1	6,766,287.0	1,834,683.0	976.30	5.00	0.00	66	12.0	5.0	Y
R-139	269	1	6,765,103.0	1,835,458.5	966.00	5.00	0.00	66	12.0	5.0	Y
R-140	270	1	6,765,251.0	1,835,315.6	970.00	5.00	0.00	66	12.0	5.0	Y
R-141	271	1	6,765,497.0	1,835,284.2	975.70	5.00	0.00	66	12.0	5.0	Y
R-142	272	1	6,767,362.0	1,835,298.0	1,001.60	5.00	0.00	66	12.0	5.0	Y
R-143	273	1	6,767,765.5	1,835,318.6	1,010.00	5.00	0.00	66	12.0	5.0	Y

INPUT: ROADWAYS

I-215/Barton Road Interchange

LSA Associates, Inc.		16 February 2012	
Teak Kim		TNM 2.5	
INPUT: ROADWAYS		Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA	
PROJECT/CONTRACT:	I-215/Barton Road Interchange		
RUN:	ALT 7		

Roadway Name	Width	Points			Coordinates (pavement)			Flow Control		Segment		
		Name	No.		X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft				ft	ft	ft		mph	%		
I-215 NB Lane 3	12.0	point995	995		6,763,412.5	1,832,210.4	915.20				Average	
		point994	994		6,763,599.0	1,832,457.8	915.20				Average	
		point993	993		6,763,748.5	1,832,658.0	915.60				Average	
		point992	992		6,763,903.0	1,832,849.8	916.50				Average	
		point991	991		6,764,062.0	1,833,036.2	917.70				Average	
		point990	990		6,764,229.5	1,833,219.0	919.20				Average	
		point989	989		6,764,410.0	1,833,414.0	925.20				Average	
		point988	988		6,764,550.0	1,833,565.5	932.10				Average	
		point987	987		6,764,700.0	1,833,727.6	940.00				Average	
		point986	986		6,764,868.0	1,833,909.1	949.00				Average	
		point985	985		6,765,009.0	1,834,061.4	955.20				Average	
		point984	984		6,765,172.0	1,834,236.5	959.20				Average	
		point983	983		6,765,341.5	1,834,418.8	960.40				Average	
		point982	982		6,765,523.0	1,834,615.0	961.20				Average	
		point981	981		6,765,696.5	1,834,801.8	961.90				Average	
		point980	980		6,765,886.5	1,835,006.6	962.30				Average	
		point979	979		6,766,046.0	1,835,177.8	962.90				Average	
		point978	978		6,766,214.5	1,835,359.8	963.00				Average	
		point977	977		6,766,398.5	1,835,558.5	968.10				Average	
		point976	976		6,766,566.5	1,835,739.5	976.00				Average	
		point975	975		6,766,739.0	1,835,924.5	985.00				Average	
		point974	974		6,766,877.5	1,836,075.8	992.00				Average	
		point973	973		6,767,041.0	1,836,251.2	999.10				Average	
		point972	972		6,767,221.5	1,836,445.2	1,004.30				Average	
		point971	971		6,767,404.0	1,836,643.1	1,006.70				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point970	970	6,767,565.0	1,836,816.2	1,006.80				Average	
		point969	969	6,767,717.0	1,836,979.8	1,007.50				Average	
		point968	968	6,767,871.0	1,837,146.5	1,007.40				Average	
		point967	967	6,768,042.5	1,837,331.1	1,004.80				Average	
		point966	966	6,768,195.5	1,837,495.9	1,002.30				Average	
		point115	115	6,768,375.5	1,837,689.5	998.70				Average	
		point114	114	6,768,528.5	1,837,853.6	995.60				Average	
		point113	113	6,768,685.0	1,838,014.2	993.30				Average	
		point112	112	6,768,834.0	1,838,157.8	990.10				Average	
		point111	111	6,768,991.0	1,838,305.2	985.20				Average	
		point110	110	6,769,163.0	1,838,454.1	979.50				Average	
		point109	109	6,769,343.0	1,838,609.0	973.70				Average	
		point108	108	6,769,536.5	1,838,771.2	966.90					
I-215 SB Lane 3	12.0	point1054	1054	6,769,492.5	1,838,810.1	967.00				Average	
		point1053	1053	6,769,298.0	1,838,648.0	973.60				Average	
		point1052	1052	6,769,120.0	1,838,495.2	979.80				Average	
		point1051	1051	6,768,947.5	1,838,345.2	985.60				Average	
		point1050	1050	6,768,791.0	1,838,197.2	990.80				Average	
		point1049	1049	6,768,642.0	1,838,053.2	993.50				Average	
		point1048	1048	6,768,486.0	1,837,892.1	996.00				Average	
		point1047	1047	6,768,329.5	1,837,726.0	998.70				Average	
		point1046	1046	6,768,152.0	1,837,534.1	1,002.00				Average	
		point1045	1045	6,768,000.0	1,837,368.9	1,004.60				Average	
		point1044	1044	6,767,826.0	1,837,182.5	1,007.00				Average	
		point1043	1043	6,767,673.5	1,837,018.0	1,007.30				Average	
		point1042	1042	6,767,522.0	1,836,855.2	1,007.10				Average	
		point1041	1041	6,767,361.5	1,836,681.6	1,006.40				Average	
		point1040	1040	6,767,176.5	1,836,483.1	1,004.10				Average	
		point1039	1039	6,766,996.0	1,836,287.2	999.10				Average	
		point1038	1038	6,766,834.5	1,836,110.1	992.10				Average	
		point1037	1037	6,766,696.5	1,835,960.2	984.90				Average	
		point1036	1036	6,766,525.0	1,835,772.2	976.10				Average	
		point1035	1035	6,766,357.5	1,835,589.2	967.90				Average	
		point1034	1034	6,766,144.5	1,835,358.8	963.10				Average	
		point1033	1033	6,766,010.0	1,835,212.1	963.00				Average	
		point1032	1032	6,765,848.0	1,835,037.8	962.30				Average	
		point1031	1031	6,765,658.0	1,834,832.4	961.80				Average	
		point1030	1030	6,765,485.5	1,834,646.8	961.20				Average	
		point1029	1029	6,765,303.5	1,834,451.0	960.40				Average	

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point1028	1028	6,765,135.5	1,834,269.2	959.10				Average	
		point1027	1027	6,764,971.0	1,834,092.2	955.20				Average	
		point1026	1026	6,764,829.0	1,833,941.0	948.90				Average	
		point257	257	6,764,659.5	1,833,760.5	940.00				Average	
		point256	256	6,764,508.5	1,833,600.0	932.10				Average	
		point255	255	6,764,369.5	1,833,452.8	925.10				Average	
		point254	254	6,764,184.0	1,833,255.2	919.20				Average	
		point253	253	6,764,018.5	1,833,072.5	917.90				Average	
		point252	252	6,763,856.5	1,832,885.2	916.80				Average	
		point251	251	6,763,703.5	1,832,694.2	916.00				Average	
		point250	250	6,763,553.5	1,832,493.9	915.20				Average	
		point436	436	6,763,365.5	1,832,244.2	915.20					
Barton EB (Cadena to Grand Terrace)	14.0	point260	260	6,764,014.5	1,835,366.6	953.90				Average	
		point421	421	6,764,147.0	1,835,365.1	953.00				Average	
		point259	259	6,764,493.0	1,835,375.4	965.50				Average	
		point258	258	6,764,792.5	1,835,372.9	979.70					
Barton EB (Cadena to Grand Terrace)	16.0	point2022	2022	6,764,792.5	1,835,372.9	979.70				Average	
		point2021	2021	6,764,806.5	1,835,373.2	979.70				Average	
		point2020	2020	6,764,908.0	1,835,374.0	976.50				Average	
		point2019	2019	6,764,989.5	1,835,373.2	973.60				Average	
		point1071	1071	6,765,075.5	1,835,374.1	972.30				Average	
		point1070	1070	6,765,206.0	1,835,365.1	970.30				Average	
		point1069	1069	6,765,342.5	1,835,358.8	974.00					
Barton EB (Grand Terrace to SB Ramps)	36.0	point2025	2025	6,765,342.5	1,835,358.8	974.00	Signal	0.00	100	Average	
		point1075	1075	6,765,437.5	1,835,359.5	975.00				Average	
		point1478	1478	6,765,505.5	1,835,360.0	976.00				Average	
		point1479	1479	6,765,606.5	1,835,361.4	978.00				Average	
		point1074	1074	6,765,706.0	1,835,362.4	980.00				Average	
		point1073	1073	6,765,800.0	1,835,362.4	982.00					
Barton EB (SB Ramps to NB Ramps)	24.0	point1076	1076	6,765,800.0	1,835,362.4	979.00	Signal	0.00	100	Average	Y
		point2027	2027	6,765,867.5	1,835,361.1	981.17				Average	Y
		point2028	2028	6,765,921.0	1,835,360.0	983.33				Average	Y
		point313	424	6,765,995.5	1,835,358.8	985.50				Average	Y
		point312	312	6,766,047.0	1,835,359.5	989.00					
Barton EB (SB Ramps to NB Ramps)	36.0	point2023	2023	6,766,047.5	1,835,365.1	987.00				Average	Y
		point1077	1077	6,766,105.5	1,835,365.5	988.50				Average	Y
		point399	399	6,766,206.5	1,835,366.8	989.00				Average	Y
		point403	403	6,766,306.0	1,835,368.1	990.00				Average	Y
		point404	404	6,766,394.5	1,835,368.5	990.00					

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

Barton EB (NB Ramps to Commerce)	24.0	point2024	2024	6,766,394.5	1,835,368.5	990.00	Signal	0.00	100	Average	
		point400	400	6,766,418.0	1,835,369.8	990.00				Average	
		point1486	1486	6,766,506.0	1,835,363.0	990.00				Average	
		point1487	1487	6,766,606.0	1,835,364.6	989.00				Average	
		point406	406	6,766,705.5	1,835,366.1	988.10				Average	
		point407	407	6,766,806.0	1,835,367.6	990.00				Average	
		point326	326	6,766,907.0	1,835,368.6	991.50				Average	
		point325	325	6,767,006.5	1,835,368.6	994.00				Average	
		point324	324	6,767,105.0	1,835,370.8	996.00				Average	
		point323	323	6,767,179.5	1,835,369.5	998.00					
Barton EB (East of Commerce)	24.0	point1090	1090	6,767,179.5	1,835,369.5	998.00	Signal	0.00	100	Average	
		point1494	1494	6,767,226.0	1,835,369.2	998.60				Average	
		point1495	1495	6,767,271.0	1,835,371.8	998.60				Average	
		point1089	1089	6,767,321.5	1,835,372.9	999.70				Average	
		point1088	1088	6,767,406.0	1,835,373.8	1,002.00				Average	
		point1087	1087	6,767,506.0	1,835,375.1	1,003.60				Average	
		point1086	1086	6,767,608.0	1,835,379.5	1,006.50				Average	
		point1085	1085	6,767,706.5	1,835,389.0	1,008.50				Average	
		point1084	1084	6,767,806.5	1,835,392.8	1,011.20				Average	
		point1083	1083	6,767,906.0	1,835,393.2	1,013.50				Average	
		point1082	1082	6,768,006.0	1,835,394.9	1,016.00				Average	
		point1081	1081	6,768,106.5	1,835,396.1	1,018.50				Average	
		point1080	1080	6,768,206.0	1,835,396.6	1,021.00				Average	
		point1079	1079	6,768,306.0	1,835,397.8	1,024.00				Average	
		point1078	1078	6,768,405.5	1,835,398.2	1,026.50				Average	
		point333	333	6,768,505.5	1,835,399.5	1,029.40				Average	
		point332	332	6,768,743.5	1,835,397.5	1,029.40				Average	
		point331	331	6,768,981.5	1,835,401.2	1,029.40				Average	
		point330	330	6,769,183.0	1,835,402.8	1,029.40				Average	
		point329	329	6,769,419.0	1,835,404.5	1,029.40				Average	
		point328	328	6,769,596.0	1,835,403.5	1,029.40					
Barton WB (Cadena to Grand Terrace)	14.0	point337	337	6,764,792.0	1,835,392.9	980.00				Average	
		point336	336	6,764,491.5	1,835,388.1	965.40				Average	
		point335	335	6,764,147.5	1,835,388.1	953.50				Average	
		point334	334	6,764,014.5	1,835,393.6	953.90					
Barton WB (Cadena to Grand Terrace)	16.0	point1111	1111	6,765,206.5	1,835,396.0	970.30				Average	
		point1474	1474	6,765,074.0	1,835,391.2	972.50				Average	
		point1475	1475	6,764,988.5	1,835,389.2	973.60				Average	
		point338	338	6,764,907.0	1,835,390.6	976.50				Average	

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point411	411	6,764,806.5	1,835,391.2	980.00				Average	
		point410	410	6,764,792.0	1,835,392.9	980.00					
Barton WB (Cadena to Grand Terrace)	36.0	point344	344	6,765,437.0	1,835,404.2	975.00	Signal	0.00	100	Average	
		point2033	2033	6,765,394.0	1,835,403.9	974.70				Average	
		point2034	2034	6,765,377.0	1,835,403.6	974.30				Average	
		point2029	2029	6,765,342.0	1,835,403.2	974.00				Average	
		point2030	2030	6,765,206.5	1,835,396.0	970.30					
Barton WB (Grand Terrace to SB Ramp)	36.0	point1118	1118	6,765,605.5	1,835,407.2	978.00				Average	
		point1482	1482	6,765,505.5	1,835,405.1	976.00				Average	
		point1483	1483	6,765,437.0	1,835,404.2	975.00					
Barton WB (Grand Terrace to SB Ramps)	24.0	point2032	2032	6,765,994.0	1,835,400.0	985.50	Signal	0.00	100	Average	Y
		point1991	1991	6,765,930.0	1,835,401.2	984.00				Average	
		point1990	1990	6,765,873.0	1,835,400.2	984.00				Average	
		point1989	1989	6,765,800.5	1,835,398.2	982.00				Average	
		point1988	1988	6,765,706.5	1,835,397.4	980.00				Average	
		point372	372	6,765,606.5	1,835,398.2	978.00					
Barton WB (SB Ramps to NB Ramps)	36.0	point2031	2031	6,766,503.5	1,835,405.6	990.00	Signal	0.00	100	Average	Y
		point1121	1121	6,766,462.5	1,835,406.2	990.00				Average	Y
		point1490	1490	6,766,393.5	1,835,412.1	990.00				Average	Y
		point1491	1491	6,766,305.5	1,835,416.1	990.00				Average	Y
		point381	381	6,766,206.0	1,835,414.8	989.00				Average	Y
		point382	382	6,766,105.5	1,835,413.5	988.00				Average	Y
		point383	383	6,765,994.0	1,835,413.1	988.00					
Barton WB (NB Ramps to Commerce)	36.0	point388	388	6,766,737.5	1,835,408.8	988.10				Average	
		point387	387	6,766,705.5	1,835,408.8	988.10				Average	
		point386	386	6,766,605.0	1,835,407.2	989.00				Average	
		point385	385	6,766,503.5	1,835,405.6	990.00					
Vivienda Ct WB	14.0	point1467	1467	6,765,734.0	1,837,004.4	979.20	Stop	0.00	100	Average	
		point1466	1466	6,765,713.5	1,837,015.4	978.00				Average	
		point1166	1166	6,765,701.5	1,837,021.2	978.60				Average	
		point392	392	6,765,684.5	1,837,028.4	978.30				Average	
		point391	391	6,765,524.0	1,837,110.9	978.30				Average	
		point390	390	6,765,433.5	1,837,135.9	978.30				Average	
		point389	389	6,765,249.5	1,837,200.4	978.30					
Vivienda Ct WB	14.0	point395	395	6,766,821.5	1,836,349.1	999.00				Average	
		point394	394	6,766,387.5	1,836,610.4	992.00				Average	
		point393	393	6,765,952.0	1,836,871.0	985.30				Average	
		point418	418	6,765,734.0	1,837,004.4	979.20					
Vivienda Ct WB	20.0	point1123	1123	6,767,374.5	1,836,033.4	1,006.40				Average	



**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point440	440	6,767,360.0	1,836,041.5	1,006.50				Average
		point457	457	6,767,204.0	1,836,136.2	1,007.50				Average
		point458	458	6,767,103.0	1,836,197.5	1,003.60				
Vivienda Ct EB	14.0	point693	693	6,765,246.0	1,837,187.5	978.40				Average
		point82	82	6,765,431.5	1,837,127.8	978.40				Average
		point81	81	6,765,520.0	1,837,101.2	978.40				Average
		point80	80	6,765,681.0	1,837,018.0	978.40				
Vivienda Ct EB	14.0	point1469	1469	6,765,681.0	1,837,018.0	978.40	Stop	0.00	100	Average
		point1468	1468	6,765,697.0	1,837,009.1	978.80				Average
		point698	698	6,765,707.0	1,837,002.5	978.70				Average
		point45	45	6,765,726.0	1,836,994.4	979.60				Average
		point44	44	6,765,946.5	1,836,861.4	985.30				Average
		point43	43	6,766,385.0	1,836,601.9	992.00				Average
		point42	42	6,766,821.5	1,836,338.2	999.00				
Vivienda Ct EB	20.0	point1145	1145	6,767,094.0	1,836,184.8	1,003.60				Average
		point1144	1144	6,767,197.5	1,836,120.8	1,007.50				Average
		point1143	1143	6,767,352.0	1,836,022.4	1,006.50				Average
		point1142	1142	6,767,370.0	1,836,012.4	1,004.70				
Vivienda NB	32.0	point1492	1492	6,767,280.5	1,835,407.9	998.60				Average
		point1154	1154	6,767,292.0	1,835,458.1	1,002.00				Average
		point1153	1153	6,767,330.0	1,835,667.5	1,003.20				Average
		point1152	1152	6,767,372.0	1,835,924.6	1,004.50				Average
		point1151	1151	6,767,431.0	1,836,204.8	1,010.00				Average
		point1150	1150	6,767,464.0	1,836,350.5	1,010.50				Average
		point1149	1149	6,767,489.5	1,836,404.0	1,011.00				Average
		point1148	1148	6,767,538.0	1,836,447.5	1,011.30				Average
		point1147	1147	6,767,570.5	1,836,450.9	1,011.30				Average
		point1146	1146	6,767,603.5	1,836,483.4	1,011.70				
Vivienda SB	32.0	point1165	1165	6,767,587.0	1,836,506.8	1,011.40				Average
		point1164	1164	6,767,541.0	1,836,484.5	1,011.00				Average
		point1163	1163	6,767,524.5	1,836,463.8	1,011.00				Average
		point1162	1162	6,767,474.5	1,836,413.6	1,010.50				Average
		point1161	1161	6,767,444.0	1,836,358.0	1,010.50				Average
		point1160	1160	6,767,414.0	1,836,206.2	1,009.80				Average
		point1159	1159	6,767,392.5	1,836,112.9	1,008.10				Average
		point1158	1158	6,767,374.5	1,836,033.4	1,006.40				Average
		point1157	1157	6,767,370.0	1,836,012.4	1,004.70				Average
		point1156	1156	6,767,298.5	1,835,670.8	1,003.30				Average
		point1493	1493	6,767,260.5	1,835,457.4	1,001.30				Average

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point1155	1155	6,767,247.0	1,835,407.6	998.60					
Commerce NB	36.0	point1179	1179	6,765,969.0	1,834,734.2	971.00				Average	
		point1178	1178	6,766,050.0	1,834,794.6	971.00				Average	
		point1177	1177	6,766,132.5	1,834,844.0	972.30				Average	
		point1176	1176	6,766,315.5	1,834,922.8	973.30				Average	
		point1175	1175	6,766,604.5	1,834,970.1	977.50				Average	
		point1174	1174	6,766,913.0	1,834,972.6	985.00				Average	
		point1173	1173	6,766,951.5	1,834,975.2	985.70				Average	
		point1172	1172	6,766,979.0	1,834,975.8	986.40				Average	
		point1470	1470	6,767,001.0	1,834,978.8	987.00				Average	
		point1471	1471	6,767,116.5	1,835,036.1	989.50				Average	
		point1171	1171	6,767,220.0	1,835,166.9	993.00				Average	
		point1170	1170	6,767,258.0	1,835,315.8	997.00				Average	
		point1169	1169	6,767,271.0	1,835,371.8	998.60					
Commerce SB	36.0	point1180	1180	6,767,226.0	1,835,369.2	998.60				Average	
		point1496	1496	6,767,206.0	1,835,309.1	997.00				Average	
		point1181	1181	6,767,179.0	1,835,180.2	993.00				Average	
		point1182	1182	6,767,094.5	1,835,072.2	989.50				Average	
		point1183	1183	6,766,999.5	1,835,025.0	987.00				Average	
		point1184	1184	6,766,913.5	1,835,021.2	985.00				Average	
		point1185	1185	6,766,604.0	1,835,006.1	977.50				Average	
		point1186	1186	6,766,304.5	1,834,956.2	973.30				Average	
		point1187	1187	6,766,118.0	1,834,875.8	972.30				Average	
		point1188	1188	6,766,034.0	1,834,815.8	971.00				Average	
		point1189	1189	6,765,955.5	1,834,753.8	971.00					
Newport WB	12.0	point1192	1192	6,768,168.5	1,837,048.9	1,028.00				Average	
		point1193	1193	6,768,095.5	1,837,089.5	1,028.00				Average	
		point1194	1194	6,767,954.5	1,837,171.9	1,026.80				Average	Y
		point1195	1195	6,767,801.0	1,837,261.8	1,025.70				Average	
		point1196	1196	6,767,549.0	1,837,409.4	1,023.30				Average	
		point1197	1197	6,767,275.5	1,837,569.2	1,021.00					
Newport EB	12.0	point1203	1203	6,767,271.0	1,837,561.9	1,021.00				Average	
		point1202	1202	6,767,544.5	1,837,402.0	1,023.30				Average	
		point1201	1201	6,767,796.5	1,837,254.2	1,025.70				Average	Y
		point1200	1200	6,767,950.0	1,837,164.5	1,026.80				Average	
		point1199	1199	6,768,091.0	1,837,082.1	1,028.00				Average	
		point1198	1198	6,768,164.0	1,837,041.5	1,028.00					
Barton NB Off Ramp	30.0	point1225	1225	6,765,081.0	1,834,084.5	955.00				Average	
		point1224	1224	6,765,179.5	1,834,200.4	955.00				Average	

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point1223	1223	6,765,279.5	1,834,307.6	957.00				Average
		point1222	1222	6,765,429.0	1,834,443.1	959.50				Average
		point1221	1221	6,765,503.5	1,834,510.8	959.70				Average
		point1220	1220	6,765,577.0	1,834,578.2	960.30				Average
		point1219	1219	6,765,650.5	1,834,644.8	960.70				Average
		point1218	1218	6,765,725.0	1,834,712.8	961.00				Average
		point1217	1217	6,765,799.0	1,834,780.0	963.00				Average
		point1216	1216	6,765,874.0	1,834,844.9	966.40				Average
		point1215	1215	6,765,954.0	1,834,901.9	970.00				Average
		point1214	1214	6,766,040.0	1,834,952.2	973.00				Average
		point1213	1213	6,766,127.5	1,835,003.4	977.00				Average
		point1212	1212	6,766,214.0	1,835,053.2	980.00				Average
		point1211	1211	6,766,297.5	1,835,111.0	984.50				Average
		point1210	1210	6,766,366.5	1,835,186.1	986.50				Average
		point1209	1209	6,766,397.0	1,835,280.2	987.50				Average
		point1208	1208	6,766,407.0	1,835,325.2	989.00				Average
		point1207	1207	6,766,418.0	1,835,369.8	990.00				
Michigan NB	28.0	point1355	1355	6,766,988.0	1,834,055.4	991.30				Average
		point1354	1354	6,766,985.0	1,834,125.2	991.30				Average
		point1353	1353	6,766,983.5	1,834,511.9	991.30				Average
		point1352	1352	6,766,981.0	1,834,720.1	992.10				Average
		point1351	1351	6,766,979.0	1,834,975.8	986.40				
Michigan NB	24.0	point2026	2026	6,767,009.0	1,832,948.9	991.30				Average
		point1359	1359	6,767,001.0	1,833,231.8	991.30				Average
		point1358	1358	6,766,993.5	1,833,648.6	991.30				Average
		point1357	1357	6,766,988.0	1,834,055.4	991.30				
Michigan SB	28.0	point1363	1363	6,766,951.5	1,834,975.2	985.70				Average
		point1362	1362	6,766,956.0	1,834,719.2	992.40				Average
		point1361	1361	6,766,958.0	1,834,514.4	991.20				Average
		point1360	1360	6,766,960.5	1,834,125.5	991.20				
Michigan SB	24.0	point1372	1372	6,766,963.5	1,834,126.0	991.20				Average
		point1371	1371	6,766,964.0	1,834,054.5	991.20				Average
		point1370	1370	6,766,976.0	1,833,647.6	991.20				Average
		point1369	1369	6,766,982.5	1,833,230.0	991.20				Average
		point1368	1368	6,766,983.5	1,832,948.8	991.20				
La Crosse NB	16.0	point1400	1400	6,765,466.0	1,834,747.4	966.00				Average
		point1399	1399	6,765,639.0	1,834,951.2	969.00				Average
		point1398	1398	6,765,719.0	1,835,047.8	971.00				Average
		point1397	1397	6,765,795.0	1,835,143.9	975.00				Average

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point1396	1396	6,765,869.5	1,835,255.9	980.00				Average
		point1395	1395	6,765,921.0	1,835,360.0	983.30				
La Crosse SB	16.0	point1480	1480	6,765,867.5	1,835,361.1	981.20				Average
		point1402	1402	6,765,848.0	1,835,263.8	980.00				Average
		point1403	1403	6,765,783.5	1,835,151.5	975.00				Average
		point1404	1404	6,765,708.5	1,835,054.6	970.50				Average
		point1405	1405	6,765,626.0	1,834,958.0	969.00				Average
		point1406	1406	6,765,457.5	1,834,753.8	964.50				
Grand Terrace NB	20.0	point1477	1477	6,765,394.0	1,835,403.9	974.70				Average
		point1462	1462	6,765,400.5	1,835,438.6	973.00				Average
		point1461	1461	6,765,426.5	1,835,582.0	971.00				Average
		point1429	1429	6,765,464.5	1,835,756.8	971.00				Average
		point1428	1428	6,765,515.5	1,836,008.1	972.00				Average
		point1427	1427	6,765,566.5	1,836,269.1	974.00				Average
		point1426	1426	6,765,596.5	1,836,448.8	976.00				Average
		point1425	1425	6,765,696.5	1,836,976.8	979.30				
Grand Terrace NB	18.0	point1439	1439	6,765,696.5	1,836,976.8	979.30	Stop	0.00	100	Average
		point1438	1438	6,765,707.0	1,837,002.5	978.70				Average
		point1437	1437	6,765,713.5	1,837,015.4	978.00				Average
		point1436	1436	6,765,725.5	1,837,037.5	977.40				Average
		point1435	1435	6,765,777.5	1,837,150.5	969.50				Average
		point1434	1434	6,765,800.5	1,837,183.2	969.50				Average
		point1433	1433	6,765,829.5	1,837,210.5	969.50				Average
		point1432	1432	6,765,853.0	1,837,247.2	969.50				Average
		point1431	1431	6,765,892.0	1,837,349.2	969.50				Average
		point1430	1430	6,765,991.0	1,837,558.8	969.50				
Grand Terrace SB	20.0	point1440	1440	6,765,711.0	1,837,042.0	977.10	Stop	0.00	100	Average
		point1472	1472	6,765,701.5	1,837,021.2	978.60				Average
		point1473	1473	6,765,697.0	1,837,009.1	978.80				Average
		point1441	1441	6,765,687.5	1,836,981.9	979.30				Average
		point1442	1442	6,765,583.0	1,836,449.9	976.00				Average
		point1443	1443	6,765,546.5	1,836,273.5	975.00				Average
		point1444	1444	6,765,495.5	1,836,012.1	974.00				Average
		point1445	1445	6,765,443.0	1,835,759.0	973.70				Average
		point1446	1446	6,765,412.0	1,835,584.8	973.00				Average
		point1447	1447	6,765,384.0	1,835,438.9	972.00				Average
		point1448	1448	6,765,377.0	1,835,403.6	974.30				
Grand Terrace SB	18.0	point1460	1460	6,765,977.0	1,837,563.9	968.90				Average
		point1459	1459	6,765,879.5	1,837,352.8	968.90				Average

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point1458	1458	6,765,839.5	1,837,252.1	968.90				Average
		point1457	1457	6,765,817.5	1,837,216.2	968.90				Average
		point1456	1456	6,765,789.5	1,837,190.9	968.90				Average
		point1455	1455	6,765,764.0	1,837,157.6	968.90				Average
		point1454	1454	6,765,711.0	1,837,042.0	977.10				
Barton NB On Ramp	14.0	point1538	1538	6,766,462.5	1,835,406.2	990.00	Onramp	35.00	100	Average
		point1537	1537	6,766,465.0	1,835,462.8	989.00				Average
		point1536	1536	6,766,490.5	1,835,510.2	988.00				Average
		point1535	1535	6,766,550.0	1,835,589.2	985.00				Average
		point1534	1534	6,766,610.5	1,835,669.2	983.50				Average
		point1533	1533	6,766,672.5	1,835,748.2	983.00				Average
		point1532	1532	6,766,734.5	1,835,827.2	983.40				Average
		point1531	1531	6,766,787.0	1,835,914.8	985.00				Average
		point1530	1530	6,766,853.5	1,835,990.2	987.00				Average
		point1529	1529	6,766,919.0	1,836,064.9	991.70				Average
		point1528	1528	6,766,986.0	1,836,139.1	994.80				Average
		point1527	1527	6,767,049.0	1,836,212.5	998.00				Average
		point1526	1526	6,767,116.5	1,836,291.1	1,000.20				Average
		point1525	1525	6,767,183.0	1,836,365.9	1,002.00				Average
		point1524	1524	6,767,250.5	1,836,440.8	1,003.00				Average
		point1523	1523	6,767,304.0	1,836,500.9	1,004.80				Average
		point1522	1522	6,767,419.0	1,836,628.2	1,006.20				Average
		point1521	1521	6,767,579.0	1,836,802.9	1,006.90				Average
		point1520	1520	6,767,729.5	1,836,965.6	1,007.10				Average
		point1519	1519	6,767,886.0	1,837,132.9	1,007.00				Average
		point1518	1518	6,768,057.5	1,837,318.9	1,004.90				Average
		point1517	1517	6,768,209.0	1,837,481.0	1,002.00				Average
		point1516	1516	6,768,390.5	1,837,677.2	998.40				Average
		point1515	1515	6,768,541.5	1,837,840.1	995.40				Average
		point1514	1514	6,768,698.5	1,838,000.9	993.00				Average
		point1513	1513	6,768,847.0	1,838,142.5	990.00				Average
		point1512	1512	6,769,004.5	1,838,291.0	985.00				Average
		point1511	1511	6,769,176.0	1,838,439.2	979.50				Average
		point1510	1510	6,769,356.0	1,838,594.1	973.60				Average
		point1509	1509	6,769,549.5	1,838,756.2	966.40				
Barton Median	30.0	point1612	1612	6,764,806.5	1,835,379.9	979.70				Average
		point1623	1623	6,764,907.5	1,835,380.8	976.50				Average
		point1624	1624	6,764,989.0	1,835,381.0	973.60				Average
		point1625	1625	6,765,075.0	1,835,382.5	972.50				Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point1622	1622	6,765,206.5	1,835,383.2	970.30				Average	
		point1620	1620	6,765,343.0	1,835,385.2	974.00				Average	
		point1621	1621	6,765,437.5	1,835,385.9	975.00				Average	
		point1611	1611	6,765,505.5	1,835,387.0	976.00				Average	
		point1610	1610	6,765,643.5	1,835,381.1	981.00				Average	
		point1609	1609	6,765,800.5	1,835,380.8	982.00				Average	Y
		point1608	1608	6,766,006.0	1,835,383.1	986.00				Average	Y
		point1607	1607	6,766,105.5	1,835,383.4	988.00				Average	Y
		point1606	1606	6,766,205.5	1,835,385.0	989.00				Average	Y
		point1605	1605	6,766,306.0	1,835,386.5	990.00				Average	Y
		point1604	1604	6,766,394.5	1,835,387.4	990.00				Average	Y
		point1603	1603	6,766,524.0	1,835,389.1	989.50				Average	
		point1602	1602	6,766,738.5	1,835,391.1	988.10				Average	
		point1601	1601	6,766,806.5	1,835,391.2	990.00				Average	
		point1600	1600	6,766,906.5	1,835,392.4	991.50				Average	
		point1599	1599	6,767,006.0	1,835,391.8	994.00				Average	
		point1598	1598	6,767,105.5	1,835,394.4	996.00				Average	
		point1597	1597	6,767,195.0	1,835,395.4	998.00				Average	
		point1596	1596	6,767,322.5	1,835,396.4	999.70				Average	
		point1595	1595	6,767,406.0	1,835,397.0	1,002.00				Average	
		point1594	1594	6,767,506.0	1,835,398.5	1,003.60				Average	
		point1593	1593	6,767,606.0	1,835,400.1	1,006.50				Average	
		point1592	1592	6,767,705.5	1,835,406.6	1,008.50				Average	
		point1591	1591	6,767,805.5	1,835,410.4	1,011.20				Average	
		point1590	1590	6,767,905.5	1,835,411.5	1,013.50				Average	
		point1589	1589	6,768,005.5	1,835,412.4	1,016.00				Average	
		point1588	1588	6,768,105.5	1,835,413.0	1,018.50				Average	
		point1587	1587	6,768,205.5	1,835,414.2	1,021.00				Average	
		point1586	1586	6,768,305.0	1,835,415.8	1,024.00				Average	
		point1585	1585	6,768,405.0	1,835,416.6	1,026.50				Average	
		point1584	1584	6,768,505.5	1,835,417.5	1,029.40				Average	
		point1583	1583	6,768,743.0	1,835,415.4	1,029.40				Average	
		point1582	1582	6,768,979.5	1,835,416.8	1,029.40				Average	
		point1581	1581	6,769,182.5	1,835,419.5	1,029.40				Average	
		point1580	1580	6,769,420.5	1,835,421.2	1,029.40				Average	
		point1579	1579	6,769,596.0	1,835,423.5	1,029.40					
Commerce Median	24.0	point1618	1618	6,766,604.5	1,834,987.9	977.50				Average	
		point1617	1617	6,766,913.0	1,834,992.2	985.00				Average	
		point1616	1616	6,766,999.5	1,835,000.9	987.00				Average	

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point1615	1615	6,767,107.0	1,835,052.9	989.50				Average
		point1614	1614	6,767,202.5	1,835,171.9	993.00				Average
		point1619	1619	6,767,237.0	1,835,313.1	997.00				Average
		point1613	1613	6,767,248.0	1,835,370.2	998.60				
Barton SB Off Ramp	25.0	point1731	1731	6,767,307.5	1,836,659.5	1,005.00				Average
		point1732	1732	6,767,236.5	1,836,583.5	1,004.50				Average
		point1733	1733	6,767,168.5	1,836,513.6	1,003.20				Average
		point1734	1734	6,767,095.0	1,836,448.9	1,001.40				Average
		point1735	1735	6,767,021.0	1,836,381.8	999.10				Average
		point1736	1736	6,766,946.5	1,836,314.5	997.00				Average
		point1737	1737	6,766,872.0	1,836,246.8	995.50				Average
		point1738	1738	6,766,799.0	1,836,179.8	999.30				Average
		point1739	1739	6,766,721.0	1,836,118.0	990.50				Average
		point1740	1740	6,766,634.0	1,836,070.8	989.00				Average
		point1741	1741	6,766,541.5	1,836,039.2	986.50				Average
		point1742	1742	6,766,444.5	1,836,014.2	984.00				Average
		point1743	1743	6,766,348.5	1,835,988.4	982.00				Average
		point1744	1744	6,766,251.5	1,835,963.8	980.00				Average
		point1745	1745	6,766,149.0	1,835,949.1	978.60				Average
		point1746	1746	6,766,058.5	1,835,897.5	978.00				Average
		point1747	1747	6,765,987.0	1,835,815.6	978.00				Average
		point1748	1748	6,765,953.0	1,835,717.6	979.00				Average
		point1749	1749	6,765,928.5	1,835,620.8	981.00				Average
		point1750	1750	6,765,903.5	1,835,523.6	982.00				Average
		point1751	1751	6,765,885.0	1,835,452.8	981.80				Average
		point1752	1752	6,765,872.5	1,835,407.1	984.00				
Barton SB On Ramp	30.0	point1899	1899	6,766,230.0	1,835,608.1	963.00	Onramp	35.00	100	Average
		point1332	1332	6,766,164.5	1,835,532.8	958.80				Average
		point1333	1333	6,766,100.5	1,835,458.8	960.00				Average
		point1334	1334	6,766,034.5	1,835,382.2	959.80				Average
		point1335	1335	6,765,970.5	1,835,306.6	960.00				Average
		point1336	1336	6,765,906.5	1,835,227.2	960.50				Average
		point1337	1337	6,765,850.0	1,835,144.8	961.00				Average
		point1338	1338	6,765,787.0	1,835,067.4	961.50				Average
		point1339	1339	6,765,725.5	1,834,986.5	961.30				Average
		point1340	1340	6,765,665.0	1,834,908.9	961.20				Average
		point1341	1341	6,765,601.5	1,834,832.1	961.00				Average
		point1342	1342	6,765,534.5	1,834,756.9	960.00				Average
		point1343	1343	6,765,469.0	1,834,681.5	960.50				Average

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point1344	1344	6,765,342.5	1,834,536.9	959.20				Average
		point1345	1345	6,765,278.5	1,834,460.8	958.90				Average
		point1485	1485	6,765,211.0	1,834,386.1	958.60				Average
		point1346	1346	6,765,144.5	1,834,311.4	958.60				Average
		point1558	1886	6,765,092.5	1,834,251.1	958.70				Average
		point1557	1887	6,764,964.5	1,834,113.2	954.80				Average
		point1556	1888	6,764,823.5	1,833,962.4	948.40				Average
		point1555	1889	6,764,650.5	1,833,782.9	939.80				Average
		point1554	1890	6,764,501.0	1,833,621.2	932.00				Average
		point1553	1891	6,764,366.5	1,833,478.9	925.50				Average
		point1552	1892	6,764,175.5	1,833,277.1	919.50				Average
		point1551	1893	6,764,009.5	1,833,094.8	918.20				Average
		point1550	1894	6,763,846.5	1,832,905.2	917.10				Average
		point1549	1895	6,763,707.0	1,832,732.8	916.30				Average
		point1577	1896	6,763,536.0	1,832,506.8	915.40				Average
		point1548	1897	6,763,352.5	1,832,260.6	915.40				
Barton SB On Ramp	30.0	point1900	1900	6,765,930.0	1,835,408.1	984.00	Onramp	10.00	100	Average
		point1323	1323	6,765,937.5	1,835,453.4	982.30				Average
		point1324	1324	6,765,966.5	1,835,568.8	981.00				Average
		point1325	1325	6,765,992.5	1,835,667.2	980.00				Average
		point1326	1326	6,766,020.5	1,835,757.0	977.50				Average
		point1327	1327	6,766,082.5	1,835,810.8	977.00				Average
		point1328	1328	6,766,169.5	1,835,816.0	974.50				Average
		point1329	1329	6,766,237.5	1,835,768.5	970.00				Average
		point1866	1866	6,766,260.5	1,835,687.9	966.00				Average
		point1331	1331	6,766,230.0	1,835,608.1	963.00				
I-215 NB HOV	36.0	point1938	1938	6,763,403.5	1,832,218.2	915.20				Average
		point1903	1902	6,763,590.0	1,832,465.5	915.20				Average
		point1904	1904	6,763,739.5	1,832,665.0	915.60				Average
		point1905	1905	6,763,893.5	1,832,857.4	916.50				Average
		point1906	1906	6,764,053.0	1,833,044.1	917.70				Average
		point1907	1907	6,764,220.5	1,833,226.8	919.20				Average
		point1908	1908	6,764,401.0	1,833,421.8	925.20				Average
		point1909	1909	6,764,541.0	1,833,573.0	932.10				Average
		point1910	1910	6,764,691.5	1,833,735.8	940.00				Average
		point1911	1911	6,764,859.5	1,833,916.4	949.00				Average
		point1912	1912	6,765,000.0	1,834,068.5	955.20				Average
		point1913	1913	6,765,163.5	1,834,244.4	959.20				Average
		point1914	1914	6,765,332.5	1,834,426.5	960.40				Average



**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point1915	1915	6,765,514.0	1,834,622.8	961.20				Average	
		point1916	1916	6,765,687.5	1,834,809.5	961.90				Average	
		point1917	1917	6,765,877.0	1,835,014.1	962.30				Average	
		point1918	1918	6,766,037.0	1,835,185.5	962.90				Average	
		point1919	1919	6,766,205.5	1,835,367.5	963.00				Average	
		point1920	1920	6,766,389.5	1,835,566.2	968.10				Average	
		point1921	1921	6,766,557.5	1,835,747.2	976.00				Average	
		point1922	1922	6,766,730.0	1,835,932.2	985.00				Average	
		point1923	1923	6,766,868.5	1,836,083.5	992.00				Average	
		point1924	1924	6,767,032.0	1,836,259.1	999.10				Average	
		point1925	1925	6,767,212.5	1,836,453.1	1,004.30				Average	
		point1926	1926	6,767,395.0	1,836,650.9	1,006.70				Average	
		point1927	1927	6,767,556.0	1,836,824.1	1,006.80				Average	
		point1928	1928	6,767,708.0	1,836,987.5	1,007.50				Average	
		point1929	1929	6,767,862.0	1,837,154.2	1,007.40				Average	
		point1930	1930	6,768,033.5	1,837,338.9	1,004.80				Average	
		point1931	1931	6,768,186.5	1,837,503.8	1,002.30				Average	
		point1932	1932	6,768,366.5	1,837,697.2	998.70				Average	
		point1933	1933	6,768,519.5	1,837,861.4	995.60				Average	
		point1934	1934	6,768,676.0	1,838,022.1	993.30				Average	
		point1935	1935	6,768,825.0	1,838,165.5	990.10				Average	
		point1936	1936	6,768,982.0	1,838,313.1	985.20				Average	
		point1937	1937	6,769,154.0	1,838,461.9	979.50				Average	
		point1903	1903	6,769,334.0	1,838,616.8	973.70				Average	
		point1901	1901	6,769,527.5	1,838,779.1	966.90					
I-215 SB HOV	36.0	point1976	1976	6,769,501.0	1,838,802.5	967.00				Average	
		point1940	1940	6,769,306.5	1,838,640.4	973.60				Average	
		point1941	1941	6,769,128.5	1,838,487.8	979.80				Average	
		point1942	1942	6,768,956.0	1,838,337.6	985.60				Average	
		point1943	1943	6,768,799.5	1,838,189.8	990.80				Average	
		point1944	1944	6,768,650.5	1,838,045.8	993.50				Average	
		point1945	1945	6,768,494.5	1,837,884.5	996.00				Average	
		point1946	1946	6,768,338.0	1,837,718.4	998.70				Average	
		point1947	1947	6,768,160.5	1,837,526.5	1,002.00				Average	
		point1948	1948	6,768,008.5	1,837,361.2	1,004.60				Average	
		point1949	1949	6,767,834.5	1,837,174.9	1,007.00				Average	
		point1950	1950	6,767,682.0	1,837,010.4	1,007.30				Average	
		point1951	1951	6,767,530.5	1,836,847.8	1,007.10				Average	
		point1952	1952	6,767,370.0	1,836,674.0	1,006.40				Average	

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point1953	1953	6,767,186.0	1,836,475.1	1,004.10				Average
		point1954	1954	6,767,004.5	1,836,279.8	999.10				Average
		point1955	1955	6,766,842.5	1,836,103.0	992.10				Average
		point1956	1956	6,766,705.0	1,835,952.0	984.90				Average
		point1957	1957	6,766,533.5	1,835,764.8	976.10				Average
		point1958	1958	6,766,365.5	1,835,581.6	967.90				Average
		point1959	1959	6,766,153.5	1,835,351.2	963.10				Average
		point1960	1960	6,766,018.0	1,835,204.5	963.00				Average
		point1961	1961	6,765,856.0	1,835,030.1	962.30				Average
		point1962	1962	6,765,666.5	1,834,824.8	961.80				Average
		point1963	1963	6,765,493.5	1,834,639.2	961.20				Average
		point1964	1964	6,765,312.0	1,834,443.2	960.40				Average
		point1965	1965	6,765,143.5	1,834,261.8	959.10				Average
		point1966	1966	6,764,979.5	1,834,084.8	955.20				Average
		point1967	1967	6,764,837.5	1,833,933.4	948.90				Average
		point1968	1968	6,764,668.0	1,833,752.5	940.00				Average
		point1969	1969	6,764,516.5	1,833,592.0	932.10				Average
		point1970	1970	6,764,378.0	1,833,444.5	925.10				Average
		point1971	1971	6,764,192.5	1,833,247.8	919.20				Average
		point1972	1972	6,764,027.0	1,833,064.9	917.90				Average
		point1973	1973	6,763,866.0	1,832,877.9	916.80				Average
		point1974	1974	6,763,712.0	1,832,686.6	916.00				Average
		point1975	1975	6,763,562.0	1,832,486.2	915.20				Average
		point1939	1939	6,763,374.0	1,832,236.8	915.20				
I-215 NB Aux	12.0	point1978	1978	6,763,440.0	1,832,186.9	914.50				Average
		point1979	1979	6,763,627.0	1,832,434.1	914.50				Average
		point1980	1980	6,763,776.5	1,832,634.8	915.10				Average
		point1981	1981	6,763,929.5	1,832,826.0	916.10				Average
		point1982	1982	6,764,088.0	1,833,010.8	917.00				Average
		point1983	1983	6,764,254.5	1,833,194.1	918.50				Average
		point1984	1984	6,764,435.0	1,833,388.2	925.00				Average
		point1985	1985	6,764,576.5	1,833,540.5	932.00				Average
		point1986	1986	6,764,727.5	1,833,704.2	940.00				Average
		point1987	1987	6,764,894.5	1,833,883.6	949.00				Average
		point1977	1977	6,765,036.0	1,834,035.8	955.00				
Barton WB (NB Ramps to Commerce)	24.0	point1993	1993	6,767,323.5	1,835,408.8	999.70				Average
		point1994	1994	6,767,280.5	1,835,407.9	998.60				Average
		point1995	1995	6,767,247.0	1,835,407.6	998.60				Average
		point1996	1996	6,767,201.5	1,835,406.5	998.00				Average

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point1997	1997	6,767,106.0	1,835,405.6	996.00				Average
		point1998	1998	6,767,006.0	1,835,405.1	994.00				Average
		point1999	1999	6,766,906.5	1,835,403.8	991.50				Average
		point2000	2000	6,766,806.0	1,835,403.0	990.00				Average
		point1992	1992	6,766,738.0	1,835,403.0	988.10				
Barton WB (East of Commerce)	24.0	point2002	2002	6,769,595.5	1,835,444.8	1,029.40				Average
		point2003	2003	6,769,418.5	1,835,440.4	1,029.40				Average
		point2004	2004	6,769,181.0	1,835,437.1	1,029.40				Average
		point2005	2005	6,768,981.0	1,835,433.8	1,029.40				Average
		point2006	2006	6,768,743.5	1,835,431.0	1,029.40				Average
		point2007	2007	6,768,505.0	1,835,435.8	1,028.70				Average
		point2008	2008	6,768,405.5	1,835,434.6	1,025.70				Average
		point2009	2009	6,768,304.5	1,835,433.1	1,023.70				Average
		point2010	2010	6,768,205.5	1,835,432.2	1,021.00				Average
		point2011	2011	6,768,105.5	1,835,431.2	1,018.50				Average
		point2012	2012	6,768,005.5	1,835,430.6	1,016.00				Average
		point2013	2013	6,767,905.0	1,835,429.8	1,013.50				Average
		point2014	2014	6,767,805.5	1,835,428.0	1,011.20				Average
		point2015	2015	6,767,705.0	1,835,424.8	1,008.50				Average
		point2016	2016	6,767,605.5	1,835,415.2	1,006.50				Average
		point2017	2017	6,767,505.5	1,835,410.8	1,003.60				Average
		point2018	2018	6,767,405.5	1,835,409.8	1,002.00				Average
		point2001	2001	6,767,323.5	1,835,408.8	999.70				
I-215 NB Lanes 1 & 2	24.0	point965	965	6,763,426.5	1,832,199.9	914.50				Average
		point964	964	6,763,613.5	1,832,447.1	914.50				Average
		point963	963	6,763,763.5	1,832,646.5	915.10				Average
		point962	962	6,763,917.0	1,832,838.2	916.10				Average
		point961	961	6,764,075.5	1,833,023.5	917.00				Average
		point960	960	6,764,242.5	1,833,207.2	918.50				Average
		point959	959	6,764,422.0	1,833,401.6	925.00				Average
		point958	958	6,764,563.5	1,833,553.2	932.00				Average
		point957	957	6,764,713.5	1,833,715.5	940.00				Average
		point956	956	6,764,881.5	1,833,896.2	949.00				Average
		point1629	1629	6,765,022.5	1,834,048.8	955.00				Average
		point954	954	6,765,185.5	1,834,224.4	958.90				Average
		point953	953	6,765,355.0	1,834,406.8	960.20				Average
		point952	952	6,765,536.5	1,834,602.8	960.80				Average
		point951	951	6,765,709.5	1,834,788.9	961.60				Average
		point950	950	6,765,900.0	1,834,994.6	962.10				Average

INPUT: ROADWAYS

I-215/Barton Road Interchange

		point949	949	6,766,058.0	1,835,164.9	962.90				Average
		point1626	1626	6,766,228.0	1,835,348.8	963.20				Average
		point947	947	6,766,412.5	1,835,547.1	968.00				Average
		point946	946	6,766,580.5	1,835,727.4	976.00				Average
		point945	945	6,766,751.5	1,835,912.1	985.00				Average
		point944	944	6,766,891.5	1,836,063.8	992.00				Average
		point943	943	6,767,054.5	1,836,239.2	999.00				Average
		point942	942	6,767,235.5	1,836,433.4	1,004.00				Average
		point941	941	6,767,417.5	1,836,631.0	1,006.20				Average
		point940	940	6,767,578.5	1,836,804.0	1,006.40				Average
		point939	939	6,767,729.0	1,836,966.8	1,007.10				Average
		point938	938	6,767,884.5	1,837,134.2	1,007.00				Average
		point937	937	6,768,057.0	1,837,320.1	1,004.90				Average
		point936	936	6,768,208.0	1,837,482.4	1,002.00				Average
		point935	935	6,768,390.0	1,837,678.5	998.40				Average
		point934	934	6,768,541.0	1,837,841.4	995.40				Average
		point38	38	6,768,698.0	1,838,002.0	993.00				Average
		point37	37	6,768,846.5	1,838,143.8	990.00				Average
		point36	36	6,769,004.0	1,838,292.2	985.00				Average
		point35	35	6,769,175.5	1,838,440.5	979.50				Average
		point34	34	6,769,355.5	1,838,595.4	973.60				Average
		point33	33	6,769,549.0	1,838,757.5	966.40				
I-215 SB Lanes 1 & 2	24.0	point1025	1025	6,769,477.5	1,838,823.0	966.50				Average
		point1024	1024	6,769,284.0	1,838,661.8	973.10				Average
		point1023	1023	6,769,106.0	1,838,508.8	979.80				Average
		point1022	1022	6,768,933.5	1,838,359.0	985.80				Average
		point1021	1021	6,768,779.0	1,838,210.1	991.00				Average
		point1020	1020	6,768,629.5	1,838,067.2	994.00				Average
		point1019	1019	6,768,473.5	1,837,908.0	996.50				Average
		point1018	1018	6,768,316.5	1,837,739.8	998.70				Average
		point1017	1017	6,768,138.5	1,837,547.4	1,001.90				Average
		point1016	1016	6,767,986.0	1,837,383.0	1,004.80				Average
		point1015	1015	6,767,812.5	1,837,195.1	1,006.90				Average
		point1014	1014	6,767,660.0	1,837,030.8	1,007.10				Average
		point1628	1628	6,767,508.5	1,836,867.2	1,006.70				Average
		point1012	1012	6,767,347.0	1,836,693.6	1,006.20				Average
		point1011	1011	6,767,163.0	1,836,494.9	1,004.00				Average
		point1010	1010	6,766,982.0	1,836,299.6	998.90				Average
		point1009	1009	6,766,821.5	1,836,122.1	992.00				Average

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point1008	1008	6,766,683.5	1,835,971.6	984.50				Average	
		point1007	1007	6,766,513.0	1,835,784.2	976.00				Average	
		point1006	1006	6,766,345.0	1,835,600.4	967.80				Average	
		point1627	1627	6,766,133.0	1,835,369.0	963.30				Average	
		point1004	1004	6,765,997.5	1,835,223.2	962.80				Average	
		point1003	1003	6,765,836.0	1,835,048.6	962.20				Average	
		point1002	1002	6,765,645.5	1,834,843.9	961.70				Average	
		point1001	1001	6,765,473.0	1,834,658.0	960.90				Average	
		point1000	1000	6,765,291.5	1,834,462.1	960.40				Average	
		point999	999	6,765,123.5	1,834,281.1	958.70				Average	
		point998	998	6,764,959.0	1,834,103.5	954.80				Average	
		point997	997	6,764,817.5	1,833,952.8	948.40				Average	
		point996	996	6,764,647.5	1,833,772.5	939.80				Average	
		point157	157	6,764,496.0	1,833,612.2	932.00				Average	
		point156	156	6,764,357.5	1,833,465.8	925.50				Average	
		point155	155	6,764,170.0	1,833,267.6	919.50				Average	
		point154	154	6,764,004.0	1,833,085.2	918.20				Average	
		point153	153	6,763,841.5	1,832,895.2	917.10				Average	
		point152	152	6,763,689.0	1,832,704.4	916.30				Average	
		point151	151	6,763,537.0	1,832,505.9	915.40				Average	
		point150	150	6,763,353.0	1,832,259.9	915.40					

**INPUT: TERRAIN LINES**

**I-215/Barton Road Interchange**

LSA Associates, Inc.		16 February 2012		
Teak Kim		TNM 2.5		
<b>INPUT: TERRAIN LINES</b>				
<b>PROJECT/CONTRACT:</b>		<b>I-215/Barton Road Interchange</b>		
<b>RUN:</b>		<b>ALT 7</b>		
<b>Terrain Line</b>	<b>Points</b>			
<b>Name</b>	<b>No.</b>	<b>Coordinates (ground)</b>		
		<b>X</b>	<b>Y</b>	<b>Z</b>
		ft	ft	ft
Terrain Line7	14	6,766,044.0	1,835,121.5	965.00
	15	6,766,207.0	1,835,265.2	975.00
	125	6,766,242.5	1,835,299.6	978.00
	126	6,766,278.5	1,835,333.9	981.00
Terrain Line10	39	6,767,978.0	1,837,172.2	1,025.00
	40	6,768,233.0	1,837,429.4	1,029.00
	41	6,768,377.0	1,837,567.2	1,034.00
	42	6,768,576.0	1,837,758.8	1,041.00
	43	6,768,746.5	1,837,915.9	1,045.00
	44	6,768,841.5	1,838,004.2	1,047.00
Terrain Line2	45	6,764,494.0	1,832,926.2	924.00
	46	6,764,638.5	1,833,187.1	925.00
	47	6,764,766.0	1,833,421.2	930.00
	48	6,765,012.5	1,833,853.2	925.00
	49	6,765,106.5	1,834,048.0	926.00
Terrain Line3	50	6,764,705.0	1,833,226.8	918.00
	51	6,764,789.0	1,833,305.8	927.00
	52	6,764,855.0	1,833,425.2	930.00
	53	6,764,934.0	1,833,562.2	932.00
	54	6,765,013.5	1,833,712.8	933.00
	55	6,765,116.0	1,833,891.8	934.00
	56	6,765,261.0	1,834,037.8	935.00
Terrain Line4	57	6,764,490.5	1,832,773.4	942.00
	58	6,764,662.5	1,833,022.9	942.00

**INPUT: TERRAIN LINES**

**I-215/Barton Road Interchange**

	59	6,764,786.0	1,833,228.0	941.00
	60	6,764,916.0	1,833,469.8	948.00
	61	6,765,021.5	1,833,646.2	950.00
	62	6,765,132.5	1,833,841.2	953.00
	63	6,765,197.5	1,833,923.8	955.00
	64	6,765,284.5	1,834,005.1	958.00
	65	6,765,341.0	1,834,033.8	958.00
	66	6,765,352.5	1,833,955.9	958.00
	67	6,765,401.0	1,833,994.2	958.00
	68	6,765,399.5	1,834,028.6	958.00
	69	6,765,485.5	1,834,044.5	959.00
	70	6,765,619.0	1,834,045.1	962.00
Terrain Line17	71	6,768,573.0	1,838,171.6	1,060.00
	72	6,768,506.0	1,838,095.1	1,055.00
	73	6,768,407.5	1,837,982.2	1,052.00
	74	6,768,335.0	1,837,893.2	1,049.00
	75	6,768,229.5	1,837,766.8	1,044.00
	76	6,768,119.0	1,837,633.9	1,038.00
	77	6,768,046.0	1,837,532.1	1,032.00
	78	6,767,959.0	1,837,420.8	1,027.00
	79	6,767,826.0	1,837,264.5	1,021.00
Terrain Line16	80	6,767,782.5	1,837,238.9	1,024.00
	81	6,767,742.5	1,837,189.8	1,019.00
	82	6,767,696.0	1,837,126.5	1,018.00
	83	6,767,589.5	1,837,009.4	1,015.00
	84	6,767,492.0	1,836,902.8	1,011.00
	85	6,767,415.5	1,836,819.2	1,008.00
	86	6,767,382.0	1,836,766.4	1,006.00
Terrain Line13	95	6,766,721.0	1,836,062.0	993.00
	96	6,766,564.5	1,835,911.9	994.00
	97	6,766,455.5	1,835,809.6	995.00
	98	6,766,337.0	1,835,690.9	991.00
Terrain Line6	113	6,766,027.0	1,835,016.4	974.20
	112	6,766,044.5	1,835,032.0	974.60
	12	6,766,091.5	1,835,075.8	975.00
	13	6,766,193.5	1,835,138.2	975.00

**INPUT: TERRAIN LINES**

Terrain Line15	122	6,767,189.0	1,836,790.6	1,003.20
	118	6,767,168.5	1,836,608.0	997.00
	124	6,767,147.5	1,836,590.5	992.00
Terrain Line1	249	6,764,537.5	1,833,455.2	946.00
	3	6,764,635.0	1,833,563.1	949.00
	4	6,764,743.5	1,833,693.9	949.00
	5	6,765,008.5	1,833,974.9	943.00
	6	6,765,092.0	1,834,048.8	945.00
Terrain Line14	250	6,766,827.0	1,836,303.5	997.90
	251	6,766,972.5	1,836,425.9	1,001.00
	252	6,767,077.5	1,836,487.2	999.80

**I-215/Barton Road Interchange**



INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

LSA Associates, Inc.		16 February 2012										
Teak Kim		TNM 2.5										
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:		I-215/Barton Road Interchange										
RUN:		ALT 7										
Roadway	Points											
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles	
			Autos		V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
I-215 NB Lane 3	point995	995	1794	65	78	65	78	55	0	0	0	0
	point994	994	1794	65	78	65	78	55	0	0	0	0
	point993	993	1794	65	78	65	78	55	0	0	0	0
	point992	992	1794	65	78	65	78	55	0	0	0	0
	point991	991	1794	65	78	65	78	55	0	0	0	0
	point990	990	1794	65	78	65	78	55	0	0	0	0
	point989	989	1794	65	78	65	78	55	0	0	0	0
	point988	988	1794	65	78	65	78	55	0	0	0	0
	point987	987	1794	65	78	65	78	55	0	0	0	0
	point986	986	1794	65	78	65	78	55	0	0	0	0
	point985	985	1794	65	78	65	78	55	0	0	0	0
	point984	984	1794	65	78	65	78	55	0	0	0	0
	point983	983	1794	65	78	65	78	55	0	0	0	0
	point982	982	1794	65	78	65	78	55	0	0	0	0
	point981	981	1794	65	78	65	78	55	0	0	0	0
	point980	980	1794	65	78	65	78	55	0	0	0	0
	point979	979	1794	65	78	65	78	55	0	0	0	0
	point978	978	1794	65	78	65	78	55	0	0	0	0
	point977	977	1794	65	78	65	78	55	0	0	0	0
	point976	976	1794	65	78	65	78	55	0	0	0	0
	point975	975	1794	65	78	65	78	55	0	0	0	0
	point974	974	1794	65	78	65	78	55	0	0	0	0
	point973	973	1794	65	78	65	78	55	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point972	972	1794	65	78	65	78	55	0	0	0	0
	point971	971	1794	65	78	65	78	55	0	0	0	0
	point970	970	1794	65	78	65	78	55	0	0	0	0
	point969	969	1794	65	78	65	78	55	0	0	0	0
	point968	968	1794	65	78	65	78	55	0	0	0	0
	point967	967	1794	65	78	65	78	55	0	0	0	0
	point966	966	1794	65	78	65	78	55	0	0	0	0
	point115	115	1794	65	78	65	78	55	0	0	0	0
	point114	114	1794	65	78	65	78	55	0	0	0	0
	point113	113	1794	65	78	65	78	55	0	0	0	0
	point112	112	1794	65	78	65	78	55	0	0	0	0
	point111	111	1794	65	78	65	78	55	0	0	0	0
	point110	110	1794	65	78	65	78	55	0	0	0	0
	point109	109	1794	65	78	65	78	55	0	0	0	0
	point108	108										
I-215 SB Lane 3	point1054	1054	1794	65	78	65	78	55	0	0	0	0
	point1053	1053	1794	65	78	65	78	55	0	0	0	0
	point1052	1052	1794	65	78	65	78	55	0	0	0	0
	point1051	1051	1794	65	78	65	78	55	0	0	0	0
	point1050	1050	1794	65	78	65	78	55	0	0	0	0
	point1049	1049	1794	65	78	65	78	55	0	0	0	0
	point1048	1048	1794	65	78	65	78	55	0	0	0	0
	point1047	1047	1794	65	78	65	78	55	0	0	0	0
	point1046	1046	1794	65	78	65	78	55	0	0	0	0
	point1045	1045	1794	65	78	65	78	55	0	0	0	0
	point1044	1044	1794	65	78	65	78	55	0	0	0	0
	point1043	1043	1794	65	78	65	78	55	0	0	0	0
	point1042	1042	1794	65	78	65	78	55	0	0	0	0
	point1041	1041	1794	65	78	65	78	55	0	0	0	0
	point1040	1040	1794	65	78	65	78	55	0	0	0	0
	point1039	1039	1794	65	78	65	78	55	0	0	0	0
	point1038	1038	1794	65	78	65	78	55	0	0	0	0
	point1037	1037	1794	65	78	65	78	55	0	0	0	0
	point1036	1036	1794	65	78	65	78	55	0	0	0	0
	point1035	1035	1794	65	78	65	78	55	0	0	0	0
	point1034	1034	1794	65	78	65	78	55	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point1033	1033	1794	65	78	65	78	55	0	0	0	0
	point1032	1032	1794	65	78	65	78	55	0	0	0	0
	point1031	1031	1794	65	78	65	78	55	0	0	0	0
	point1030	1030	1794	65	78	65	78	55	0	0	0	0
	point1029	1029	1794	65	78	65	78	55	0	0	0	0
	point1028	1028	1794	65	78	65	78	55	0	0	0	0
	point1027	1027	1794	65	78	65	78	55	0	0	0	0
	point1026	1026	1794	65	78	65	78	55	0	0	0	0
	point257	257	1794	65	78	65	78	55	0	0	0	0
	point256	256	1794	65	78	65	78	55	0	0	0	0
	point255	255	1794	65	78	65	78	55	0	0	0	0
	point254	254	1794	65	78	65	78	55	0	0	0	0
	point253	253	1794	65	78	65	78	55	0	0	0	0
	point252	252	1794	65	78	65	78	55	0	0	0	0
	point251	251	1794	65	78	65	78	55	0	0	0	0
	point250	250	1794	65	78	65	78	55	0	0	0	0
	point436	436										
Barton EB (Cadena to Grand Terrace)	point260	260	1139	40	48	40	24	35	0	0	0	0
	point421	421	1139	40	48	40	24	35	0	0	0	0
	point259	259	1139	40	48	40	24	35	0	0	0	0
	point258	258										
Barton EB (Cadena to Grand Terrace)	point2022	2022	1139	40	48	40	24	35	0	0	0	0
	point2021	2021	1139	40	48	40	24	35	0	0	0	0
	point2020	2020	1139	40	48	40	24	35	0	0	0	0
	point2019	2019	1139	40	48	40	24	35	0	0	0	0
	point1071	1071	1139	40	48	40	24	35	0	0	0	0
	point1070	1070	1139	40	48	40	24	35	0	0	0	0
	point1069	1069										
Barton EB (Grand Terrace to SB Ramps)	point2025	2025	1423	40	61	40	30	35	0	0	0	0
	point1075	1075	1423	40	61	40	30	35	0	0	0	0
	point1478	1478	1423	40	61	40	30	35	0	0	0	0
	point1479	1479	1423	40	61	40	30	35	0	0	0	0
	point1074	1074	1423	40	61	40	30	35	0	0	0	0
	point1073	1073										
Barton EB (SB Ramps to NB Ramps)	point1076	1076	1672	40	71	40	36	35	0	0	0	0
	point2027	2027	1672	40	71	40	36	35	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point2028	2028	1672	40	71	40	36	35	0	0	0	0
	point313	424	1672	40	71	40	36	35	0	0	0	0
	point312	312										
Barton EB (SB Ramps to NB Ramps)	point2023	2023	1672	40	71	40	36	35	0	0	0	0
	point1077	1077	1672	40	71	40	36	35	0	0	0	0
	point399	399	1672	40	71	40	36	35	0	0	0	0
	point403	403	1672	40	71	40	36	35	0	0	0	0
	point404	404										
Barton EB (NB Ramps to Commerce)	point2024	2024	2256	40	96	40	48	35	0	0	0	0
	point400	400	2256	40	96	40	48	35	0	0	0	0
	point1486	1486	2256	40	96	40	48	35	0	0	0	0
	point1487	1487	2256	40	96	40	48	35	0	0	0	0
	point406	406	2256	40	96	40	48	35	0	0	0	0
	point407	407	2256	40	96	40	48	35	0	0	0	0
	point326	326	2256	40	96	40	48	35	0	0	0	0
	point325	325	2256	40	96	40	48	35	0	0	0	0
	point324	324	2256	40	96	40	48	35	0	0	0	0
	point323	323										
Barton EB (East of Commerce)	point1090	1090	1922	40	82	40	41	35	0	0	0	0
	point1494	1494	1922	40	82	40	41	35	0	0	0	0
	point1495	1495	1922	40	82	40	41	35	0	0	0	0
	point1089	1089	1922	40	82	40	41	35	0	0	0	0
	point1088	1088	1922	40	82	40	41	35	0	0	0	0
	point1087	1087	1922	40	82	40	41	35	0	0	0	0
	point1086	1086	1922	40	82	40	41	35	0	0	0	0
	point1085	1085	1922	40	82	40	41	35	0	0	0	0
	point1084	1084	1922	40	82	40	41	35	0	0	0	0
	point1083	1083	1922	40	82	40	41	35	0	0	0	0
	point1082	1082	1922	40	82	40	41	35	0	0	0	0
	point1081	1081	1922	40	82	40	41	35	0	0	0	0
	point1080	1080	1922	40	82	40	41	35	0	0	0	0
	point1079	1079	1922	40	82	40	41	35	0	0	0	0
	point1078	1078	1922	40	82	40	41	35	0	0	0	0
	point333	333	1922	40	82	40	41	35	0	0	0	0
	point332	332	1922	40	82	40	41	35	0	0	0	0
	point331	331	1922	40	82	40	41	35	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point330	330	1922	40	82	40	41	35	0	0	0	0
	point329	329	1922	40	82	40	41	35	0	0	0	0
	point328	328										
Barton WB (Cadena to Grand Terrace)	point337	337	807	40	34	40	17	35	0	0	0	0
	point336	336	807	40	34	40	17	35	0	0	0	0
	point335	335	807	40	34	40	17	35	0	0	0	0
	point334	334										
Barton WB (Cadena to Grand Terrace)	point1111	1111	807	40	34	40	17	35	0	0	0	0
	point1474	1474	807	40	34	40	17	35	0	0	0	0
	point1475	1475	807	40	34	40	17	35	0	0	0	0
	point338	338	807	40	34	40	17	35	0	0	0	0
	point411	411	807	40	34	40	17	35	0	0	0	0
	point410	410										
Barton WB (Cadena to Grand Terrace)	point344	344	807	40	34	40	17	35	0	0	0	0
	point2033	2033	807	40	34	40	17	35	0	0	0	0
	point2034	2034	807	40	34	40	17	35	0	0	0	0
	point2029	2029	807	40	34	40	17	35	0	0	0	0
	point2030	2030										
Barton WB (Grand Terrace to SB Ramp)	point1118	1118	843	40	36	40	18	35	0	0	0	0
	point1482	1482	843	40	36	40	18	35	0	0	0	0
	point1483	1483										
Barton WB (Grand Terrace to SB Ramps)	point2032	2032	0	0	0	0	0	0	0	0	0	0
	point1991	1991	843	40	36	40	18	35	0	0	0	0
	point1990	1990	843	40	36	40	18	35	0	0	0	0
	point1989	1989	843	40	36	40	18	35	0	0	0	0
	point1988	1988	843	40	36	40	18	35	0	0	0	0
	point372	372										
Barton WB (SB Ramps to NB Ramps)	point2031	2031	0	0	0	0	0	0	0	0	0	0
	point1121	1121	1408	40	60	40	30	35	0	0	0	0
	point1490	1490	1408	40	60	40	30	35	0	0	0	0
	point1491	1491	1408	40	60	40	30	35	0	0	0	0
	point381	381	1408	40	60	40	30	35	0	0	0	0
	point382	382	1408	40	60	40	30	35	0	0	0	0
	point383	383										
Barton WB (NB Ramps to Commerce)	point388	388	2101	40	89	40	45	35	0	0	0	0
	point387	387	2101	40	89	40	45	35	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point386	386	2101	40	89	40	45	35	0	0	0	0
	point385	385										
Vivienda Ct WB	point1467	1467	0	0	0	0	0	0	0	0	0	0
	point1466	1466	0	0	0	0	0	0	0	0	0	0
	point1166	1166	0	0	0	0	0	0	0	0	0	0
	point392	392	0	0	0	0	0	0	0	0	0	0
	point391	391	0	0	0	0	0	0	0	0	0	0
	point390	390	0	0	0	0	0	0	0	0	0	0
	point389	389										
Vivienda Ct WB	point395	395	0	0	0	0	0	0	0	0	0	0
	point394	394	0	0	0	0	0	0	0	0	0	0
	point393	393	0	0	0	0	0	0	0	0	0	0
	point418	418										
Vivienda Ct WB	point1123	1123	0	0	0	0	0	0	0	0	0	0
	point440	440	0	0	0	0	0	0	0	0	0	0
	point457	457	0	0	0	0	0	0	0	0	0	0
	point458	458										
Vivienda Ct EB	point693	693	0	0	0	0	0	0	0	0	0	0
	point82	82	0	0	0	0	0	0	0	0	0	0
	point81	81	0	0	0	0	0	0	0	0	0	0
	point80	80										
Vivienda Ct EB	point1469	1469	0	0	0	0	0	0	0	0	0	0
	point1468	1468	0	0	0	0	0	0	0	0	0	0
	point698	698	0	0	0	0	0	0	0	0	0	0
	point45	45	0	0	0	0	0	0	0	0	0	0
	point44	44	0	0	0	0	0	0	0	0	0	0
	point43	43	0	0	0	0	0	0	0	0	0	0
	point42	42										
Vivienda Ct EB	point1145	1145	0	0	0	0	0	0	0	0	0	0
	point1144	1144	0	0	0	0	0	0	0	0	0	0
	point1143	1143	0	0	0	0	0	0	0	0	0	0
	point1142	1142										
Vivienda NB	point1492	1492	261	30	0	0	0	0	0	0	0	0
	point1154	1154	261	30	0	0	0	0	0	0	0	0
	point1153	1153	261	30	0	0	0	0	0	0	0	0
	point1152	1152	261	30	0	0	0	0	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point1151	1151	261	30	0	0	0	0	0	0	0	0
	point1150	1150	261	30	0	0	0	0	0	0	0	0
	point1149	1149	261	30	0	0	0	0	0	0	0	0
	point1148	1148	261	30	0	0	0	0	0	0	0	0
	point1147	1147	261	30	0	0	0	0	0	0	0	0
	point1146	1146										
Vivienda SB	point1165	1165	186	30	0	0	0	0	0	0	0	0
	point1164	1164	186	30	0	0	0	0	0	0	0	0
	point1163	1163	186	30	0	0	0	0	0	0	0	0
	point1162	1162	186	30	0	0	0	0	0	0	0	0
	point1161	1161	186	30	0	0	0	0	0	0	0	0
	point1160	1160	186	30	0	0	0	0	0	0	0	0
	point1159	1159	186	30	0	0	0	0	0	0	0	0
	point1158	1158	186	30	0	0	0	0	0	0	0	0
	point1157	1157	186	30	0	0	0	0	0	0	0	0
	point1156	1156	186	30	0	0	0	0	0	0	0	0
	point1493	1493	186	30	0	0	0	0	0	0	0	0
	point1155	1155										
Commerce NB	point1179	1179	920	35	60	35	20	30	0	0	0	0
	point1178	1178	920	35	60	35	20	30	0	0	0	0
	point1177	1177	920	35	60	35	20	30	0	0	0	0
	point1176	1176	920	35	60	35	20	30	0	0	0	0
	point1175	1175	920	35	60	35	20	30	0	0	0	0
	point1174	1174	920	35	60	35	20	30	0	0	0	0
	point1173	1173	920	35	60	35	20	30	0	0	0	0
	point1172	1172	920	35	60	35	20	30	0	0	0	0
	point1470	1470	920	35	60	35	20	30	0	0	0	0
	point1471	1471	920	35	60	35	20	30	0	0	0	0
	point1171	1171	920	35	60	35	20	30	0	0	0	0
	point1170	1170	920	35	60	35	20	30	0	0	0	0
	point1169	1169										
Commerce SB	point1180	1180	811	35	53	35	18	30	0	0	0	0
	point1496	1496	811	35	53	35	18	30	0	0	0	0
	point1181	1181	811	35	53	35	18	30	0	0	0	0
	point1182	1182	811	35	53	35	18	30	0	0	0	0
	point1183	1183	811	35	53	35	18	30	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point1184	1184	811	35	53	35	18	30	0	0	0	0
	point1185	1185	811	35	53	35	18	30	0	0	0	0
	point1186	1186	811	35	53	35	18	30	0	0	0	0
	point1187	1187	811	35	53	35	18	30	0	0	0	0
	point1188	1188	811	35	53	35	18	30	0	0	0	0
	point1189	1189										
Newport WB	point1192	1192	0	0	0	0	0	0	0	0	0	0
	point1193	1193	0	0	0	0	0	0	0	0	0	0
	point1194	1194	0	0	0	0	0	0	0	0	0	0
	point1195	1195	0	0	0	0	0	0	0	0	0	0
	point1196	1196	0	0	0	0	0	0	0	0	0	0
	point1197	1197										
Newport EB	point1203	1203	0	0	0	0	0	0	0	0	0	0
	point1202	1202	0	0	0	0	0	0	0	0	0	0
	point1201	1201	0	0	0	0	0	0	0	0	0	0
	point1200	1200	0	0	0	0	0	0	0	0	0	0
	point1199	1199	0	0	0	0	0	0	0	0	0	0
	point1198	1198										
Barton NB Off Ramp	point1225	1225	851	45	56	45	28	40	0	0	0	0
	point1224	1224	851	45	56	45	28	40	0	0	0	0
	point1223	1223	851	45	56	45	28	40	0	0	0	0
	point1222	1222	851	45	56	45	28	40	0	0	0	0
	point1221	1221	851	45	56	45	28	40	0	0	0	0
	point1220	1220	851	45	56	45	28	40	0	0	0	0
	point1219	1219	851	45	56	45	28	40	0	0	0	0
	point1218	1218	851	45	56	45	28	40	0	0	0	0
	point1217	1217	851	45	56	45	28	40	0	0	0	0
	point1216	1216	851	45	56	45	28	40	0	0	0	0
	point1215	1215	851	45	56	45	28	40	0	0	0	0
	point1214	1214	851	45	56	45	28	40	0	0	0	0
	point1213	1213	851	45	56	45	28	40	0	0	0	0
	point1212	1212	851	45	56	45	28	40	0	0	0	0
	point1211	1211	851	45	56	45	28	40	0	0	0	0
	point1210	1210	851	45	56	45	28	40	0	0	0	0
	point1209	1209	851	45	56	45	28	40	0	0	0	0
	point1208	1208	851	40	56	40	28	35	0	0	0	0



**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point1207	1207										
Michigan NB	point1355	1355	920	35	60	35	20	30	0	0	0	0
	point1354	1354	920	35	60	35	20	30	0	0	0	0
	point1353	1353	920	35	60	35	20	30	0	0	0	0
	point1352	1352	920	35	60	35	20	30	0	0	0	0
	point1351	1351										
Michigan NB	point2026	2026	0	0	0	0	0	0	0	0	0	0
	point1359	1359	0	0	0	0	0	0	0	0	0	0
	point1358	1358	0	0	0	0	0	0	0	0	0	0
	point1357	1357										
Michigan SB	point1363	1363	806	35	53	35	18	30	0	0	0	0
	point1362	1362	806	35	53	35	18	30	0	0	0	0
	point1361	1361	806	35	53	35	18	30	0	0	0	0
	point1360	1360										
Michigan SB	point1372	1372	0	0	0	0	0	0	0	0	0	0
	point1371	1371	0	0	0	0	0	0	0	0	0	0
	point1370	1370	0	0	0	0	0	0	0	0	0	0
	point1369	1369	0	0	0	0	0	0	0	0	0	0
	point1368	1368										
La Crosse NB	point1400	1400	180	30	12	30	0	0	0	0	0	0
	point1399	1399	180	30	12	30	0	0	0	0	0	0
	point1398	1398	180	30	12	30	0	0	0	0	0	0
	point1397	1397	180	30	12	30	0	0	0	0	0	0
	point1396	1396	180	30	12	30	0	0	0	0	0	0
	point1395	1395										
La Crosse SB	point1480	1480	66	30	4	30	0	0	0	0	0	0
	point1402	1402	66	30	4	30	0	0	0	0	0	0
	point1403	1403	66	30	4	30	0	0	0	0	0	0
	point1404	1404	66	30	4	30	0	0	0	0	0	0
	point1405	1405	66	30	4	30	0	0	0	0	0	0
	point1406	1406										
Grand Terrace NB	point1477	1477	244	30	13	30	0	0	0	0	0	0
	point1462	1462	244	30	13	30	0	0	0	0	0	0
	point1461	1461	244	30	13	30	0	0	0	0	0	0
	point1429	1429	244	30	13	30	0	0	0	0	0	0
	point1428	1428	244	30	13	30	0	0	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point1427	1427	244	30	13	30	0	0	0	0	0	0
	point1426	1426	244	30	13	30	0	0	0	0	0	0
	point1425	1425										
Grand Terrace NB	point1439	1439	244	30	13	30	0	0	0	0	0	0
	point1438	1438	244	30	13	30	0	0	0	0	0	0
	point1437	1437	244	30	13	30	0	0	0	0	0	0
	point1436	1436	244	30	13	30	0	0	0	0	0	0
	point1435	1435	244	30	13	30	0	0	0	0	0	0
	point1434	1434	244	30	13	30	0	0	0	0	0	0
	point1433	1433	244	30	13	30	0	0	0	0	0	0
	point1432	1432	244	30	13	30	0	0	0	0	0	0
	point1431	1431	244	30	13	30	0	0	0	0	0	0
	point1430	1430										
Grand Terrace SB	point1440	1440	203	30	11	30	0	0	0	0	0	0
	point1472	1472	203	30	11	30	0	0	0	0	0	0
	point1473	1473	203	30	11	30	0	0	0	0	0	0
	point1441	1441	203	30	11	30	0	0	0	0	0	0
	point1442	1442	203	30	11	30	0	0	0	0	0	0
	point1443	1443	203	30	11	30	0	0	0	0	0	0
	point1444	1444	203	30	11	30	0	0	0	0	0	0
	point1445	1445	203	30	11	30	0	0	0	0	0	0
	point1446	1446	203	30	11	30	0	0	0	0	0	0
	point1447	1447	203	30	11	30	0	0	0	0	0	0
	point1448	1448										
Grand Terrace SB	point1460	1460	203	30	11	30	0	0	0	0	0	0
	point1459	1459	203	30	11	30	0	0	0	0	0	0
	point1458	1458	203	30	11	30	0	0	0	0	0	0
	point1457	1457	203	30	11	30	0	0	0	0	0	0
	point1456	1456	203	30	11	30	0	0	0	0	0	0
	point1455	1455	203	30	11	30	0	0	0	0	0	0
	point1454	1454										
Barton NB On Ramp	point1538	1538	996	65	66	65	33	55	0	0	0	0
	point1537	1537	996	65	66	65	33	55	0	0	0	0
	point1536	1536	996	65	66	65	33	55	0	0	0	0
	point1535	1535	996	65	66	65	33	55	0	0	0	0
	point1534	1534	996	65	66	65	33	55	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point1533	1533	996	65	66	65	33	55	0	0	0	0
	point1532	1532	996	65	66	65	33	55	0	0	0	0
	point1531	1531	996	65	66	65	33	55	0	0	0	0
	point1530	1530	996	65	66	65	33	55	0	0	0	0
	point1529	1529	996	65	66	65	33	55	0	0	0	0
	point1528	1528	996	65	66	65	33	55	0	0	0	0
	point1527	1527	996	65	66	65	33	55	0	0	0	0
	point1526	1526	996	65	66	65	33	55	0	0	0	0
	point1525	1525	996	65	66	65	33	55	0	0	0	0
	point1524	1524	996	65	66	65	33	55	0	0	0	0
	point1523	1523	996	65	66	65	33	55	0	0	0	0
	point1522	1522	996	65	66	65	33	55	0	0	0	0
	point1521	1521	996	65	66	65	33	55	0	0	0	0
	point1520	1520	996	65	66	65	33	55	0	0	0	0
	point1519	1519	996	65	66	65	33	55	0	0	0	0
	point1518	1518	996	65	66	65	33	55	0	0	0	0
	point1517	1517	996	65	66	65	33	55	0	0	0	0
	point1516	1516	996	65	66	65	33	55	0	0	0	0
	point1515	1515	996	65	66	65	33	55	0	0	0	0
	point1514	1514	996	65	66	65	33	55	0	0	0	0
	point1513	1513	996	65	66	65	33	55	0	0	0	0
	point1512	1512	996	65	66	65	33	55	0	0	0	0
	point1511	1511	996	65	66	65	33	55	0	0	0	0
	point1510	1510	996	65	66	65	33	55	0	0	0	0
	point1509	1509										
Barton Median	point1612	1612	0	0	0	0	0	0	0	0	0	0
	point1623	1623	0	0	0	0	0	0	0	0	0	0
	point1624	1624	0	0	0	0	0	0	0	0	0	0
	point1625	1625	0	0	0	0	0	0	0	0	0	0
	point1622	1622	0	0	0	0	0	0	0	0	0	0
	point1620	1620	0	0	0	0	0	0	0	0	0	0
	point1621	1621	0	0	0	0	0	0	0	0	0	0
	point1611	1611	0	0	0	0	0	0	0	0	0	0
	point1610	1610	0	0	0	0	0	0	0	0	0	0
	point1609	1609	0	0	0	0	0	0	0	0	0	0
	point1608	1608	0	0	0	0	0	0	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point1607	1607	0	0	0	0	0	0	0	0	0	0
	point1606	1606	0	0	0	0	0	0	0	0	0	0
	point1605	1605	0	0	0	0	0	0	0	0	0	0
	point1604	1604	0	0	0	0	0	0	0	0	0	0
	point1603	1603	0	0	0	0	0	0	0	0	0	0
	point1602	1602	0	0	0	0	0	0	0	0	0	0
	point1601	1601	0	0	0	0	0	0	0	0	0	0
	point1600	1600	0	0	0	0	0	0	0	0	0	0
	point1599	1599	0	0	0	0	0	0	0	0	0	0
	point1598	1598	0	0	0	0	0	0	0	0	0	0
	point1597	1597	0	0	0	0	0	0	0	0	0	0
	point1596	1596	0	0	0	0	0	0	0	0	0	0
	point1595	1595	0	0	0	0	0	0	0	0	0	0
	point1594	1594	0	0	0	0	0	0	0	0	0	0
	point1593	1593	0	0	0	0	0	0	0	0	0	0
	point1592	1592	0	0	0	0	0	0	0	0	0	0
	point1591	1591	0	0	0	0	0	0	0	0	0	0
	point1590	1590	0	0	0	0	0	0	0	0	0	0
	point1589	1589	0	0	0	0	0	0	0	0	0	0
	point1588	1588	0	0	0	0	0	0	0	0	0	0
	point1587	1587	0	0	0	0	0	0	0	0	0	0
	point1586	1586	0	0	0	0	0	0	0	0	0	0
	point1585	1585	0	0	0	0	0	0	0	0	0	0
	point1584	1584	0	0	0	0	0	0	0	0	0	0
	point1583	1583	0	0	0	0	0	0	0	0	0	0
	point1582	1582	0	0	0	0	0	0	0	0	0	0
	point1581	1581	0	0	0	0	0	0	0	0	0	0
	point1580	1580	0	0	0	0	0	0	0	0	0	0
	point1579	1579										
Commerce Median	point1618	1618	0	0	0	0	0	0	0	0	0	0
	point1617	1617	0	0	0	0	0	0	0	0	0	0
	point1616	1616	0	0	0	0	0	0	0	0	0	0
	point1615	1615	0	0	0	0	0	0	0	0	0	0
	point1614	1614	0	0	0	0	0	0	0	0	0	0
	point1619	1619	0	0	0	0	0	0	0	0	0	0
	point1613	1613										

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

Barton SB Off Ramp	point1731	1731	804	45	53	45	26	40	0	0	0	0
	point1732	1732	804	45	53	45	26	40	0	0	0	0
	point1733	1733	804	45	53	45	26	40	0	0	0	0
	point1734	1734	804	45	53	45	26	40	0	0	0	0
	point1735	1735	804	45	53	45	26	40	0	0	0	0
	point1736	1736	804	45	53	45	26	40	0	0	0	0
	point1737	1737	804	45	53	45	26	40	0	0	0	0
	point1738	1738	804	45	53	45	26	40	0	0	0	0
	point1739	1739	804	45	53	45	26	40	0	0	0	0
	point1740	1740	804	45	53	45	26	40	0	0	0	0
	point1741	1741	804	45	53	45	26	40	0	0	0	0
	point1742	1742	804	45	53	45	26	40	0	0	0	0
	point1743	1743	804	45	53	45	26	40	0	0	0	0
	point1744	1744	804	45	53	45	26	40	0	0	0	0
	point1745	1745	804	45	53	45	26	40	0	0	0	0
	point1746	1746	804	45	53	45	26	40	0	0	0	0
	point1747	1747	804	45	53	45	26	40	0	0	0	0
	point1748	1748	804	45	53	45	26	40	0	0	0	0
	point1749	1749	804	45	53	45	26	40	0	0	0	0
	point1750	1750	804	45	53	45	26	40	0	0	0	0
	point1751	1751	804	45	53	45	26	40	0	0	0	0
	point1752	1752										
Barton SB On Ramp	point1899	1899	934	65	62	65	31	55	0	0	0	0
	point1332	1332	934	65	62	65	31	55	0	0	0	0
	point1333	1333	934	65	62	65	31	55	0	0	0	0
	point1334	1334	934	65	62	65	31	55	0	0	0	0
	point1335	1335	934	65	62	65	31	55	0	0	0	0
	point1336	1336	934	65	62	65	31	55	0	0	0	0
	point1337	1337	934	65	62	65	31	55	0	0	0	0
	point1338	1338	934	65	62	65	31	55	0	0	0	0
	point1339	1339	934	65	62	65	31	55	0	0	0	0
	point1340	1340	934	65	62	65	31	55	0	0	0	0
	point1341	1341	934	65	62	65	31	55	0	0	0	0
	point1342	1342	934	65	62	65	31	55	0	0	0	0
	point1343	1343	934	65	62	65	31	55	0	0	0	0
	point1344	1344	934	65	62	65	31	55	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point1345	1345	934	65	62	65	31	55	0	0	0	0
	point1485	1485	934	65	62	65	31	55	0	0	0	0
	point1346	1346	934	65	62	65	31	55	0	0	0	0
	point1558	1886	934	65	62	65	31	55	0	0	0	0
	point1557	1887	934	65	62	65	31	55	0	0	0	0
	point1556	1888	934	65	62	65	31	55	0	0	0	0
	point1555	1889	934	65	62	65	31	55	0	0	0	0
	point1554	1890	934	65	62	65	31	55	0	0	0	0
	point1553	1891	934	65	62	65	31	55	0	0	0	0
	point1552	1892	934	65	62	65	31	55	0	0	0	0
	point1551	1893	934	65	62	65	31	55	0	0	0	0
	point1550	1894	934	65	62	65	31	55	0	0	0	0
	point1549	1895	934	65	62	65	31	55	0	0	0	0
	point1577	1896	934	65	62	65	31	55	0	0	0	0
	point1548	1897										
Barton SB On Ramp	point1900	1900	934	35	62	35	31	30	0	0	0	0
	point1323	1323	934	35	62	35	31	30	0	0	0	0
	point1324	1324	934	35	62	35	31	30	0	0	0	0
	point1325	1325	934	35	62	35	31	30	0	0	0	0
	point1326	1326	934	35	62	35	31	30	0	0	0	0
	point1327	1327	934	35	62	35	31	30	0	0	0	0
	point1328	1328	934	35	62	35	31	30	0	0	0	0
	point1329	1329	934	35	62	35	31	30	0	0	0	0
	point1866	1866	934	35	62	35	31	30	0	0	0	0
	point1331	1331										
I-215 NB HOV	point1938	1938	1410	65	90	65	0	0	0	0	0	0
	point1903	1902	1410	65	90	65	0	0	0	0	0	0
	point1904	1904	1410	65	90	65	0	0	0	0	0	0
	point1905	1905	1410	65	90	65	0	0	0	0	0	0
	point1906	1906	1410	65	90	65	0	0	0	0	0	0
	point1907	1907	1410	65	90	65	0	0	0	0	0	0
	point1908	1908	1410	65	90	65	0	0	0	0	0	0
	point1909	1909	1410	65	90	65	0	0	0	0	0	0
	point1910	1910	1410	65	90	65	0	0	0	0	0	0
	point1911	1911	1410	65	90	65	0	0	0	0	0	0
	point1912	1912	1410	65	90	65	0	0	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point1913	1913	1410	65	90	65	0	0	0	0	0	0
	point1914	1914	1410	65	90	65	0	0	0	0	0	0
	point1915	1915	1410	65	90	65	0	0	0	0	0	0
	point1916	1916	1410	65	90	65	0	0	0	0	0	0
	point1917	1917	1410	65	90	65	0	0	0	0	0	0
	point1918	1918	1410	65	90	65	0	0	0	0	0	0
	point1919	1919	1410	65	90	65	0	0	0	0	0	0
	point1920	1920	1410	65	90	65	0	0	0	0	0	0
	point1921	1921	1410	65	90	65	0	0	0	0	0	0
	point1922	1922	1410	65	90	65	0	0	0	0	0	0
	point1923	1923	1410	65	90	65	0	0	0	0	0	0
	point1924	1924	1410	65	90	65	0	0	0	0	0	0
	point1925	1925	1410	65	90	65	0	0	0	0	0	0
	point1926	1926	1410	65	90	65	0	0	0	0	0	0
	point1927	1927	1410	65	90	65	0	0	0	0	0	0
	point1928	1928	1410	65	90	65	0	0	0	0	0	0
	point1929	1929	1410	65	90	65	0	0	0	0	0	0
	point1930	1930	1410	65	90	65	0	0	0	0	0	0
	point1931	1931	1410	65	90	65	0	0	0	0	0	0
	point1932	1932	1410	65	90	65	0	0	0	0	0	0
	point1933	1933	1410	65	90	65	0	0	0	0	0	0
	point1934	1934	1410	65	90	65	0	0	0	0	0	0
	point1935	1935	1410	65	90	65	0	0	0	0	0	0
	point1936	1936	1410	65	90	65	0	0	0	0	0	0
	point1937	1937	1410	65	90	65	0	0	0	0	0	0
	point1903	1903	1410	65	90	65	0	0	0	0	0	0
	point1901	1901										
I-215 SB HOV	point1976	1976	1410	65	90	65	0	0	0	0	0	0
	point1940	1940	1410	65	90	65	0	0	0	0	0	0
	point1941	1941	1410	65	90	65	0	0	0	0	0	0
	point1942	1942	1410	65	90	65	0	0	0	0	0	0
	point1943	1943	1410	65	90	65	0	0	0	0	0	0
	point1944	1944	1410	65	90	65	0	0	0	0	0	0
	point1945	1945	1410	65	90	65	0	0	0	0	0	0
	point1946	1946	1410	65	90	65	0	0	0	0	0	0
	point1947	1947	1410	65	90	65	0	0	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point1948	1948	1410	65	90	65	0	0	0	0	0	0
	point1949	1949	1410	65	90	65	0	0	0	0	0	0
	point1950	1950	1410	65	90	65	0	0	0	0	0	0
	point1951	1951	1410	65	90	65	0	0	0	0	0	0
	point1952	1952	1410	65	90	65	0	0	0	0	0	0
	point1953	1953	1410	65	90	65	0	0	0	0	0	0
	point1954	1954	1410	65	90	65	0	0	0	0	0	0
	point1955	1955	1410	65	90	65	0	0	0	0	0	0
	point1956	1956	1410	65	90	65	0	0	0	0	0	0
	point1957	1957	1410	65	90	65	0	0	0	0	0	0
	point1958	1958	1410	65	90	65	0	0	0	0	0	0
	point1959	1959	1410	65	90	65	0	0	0	0	0	0
	point1960	1960	1410	65	90	65	0	0	0	0	0	0
	point1961	1961	1410	65	90	65	0	0	0	0	0	0
	point1962	1962	1410	65	90	65	0	0	0	0	0	0
	point1963	1963	1410	65	90	65	0	0	0	0	0	0
	point1964	1964	1410	65	90	65	0	0	0	0	0	0
	point1965	1965	1410	65	90	65	0	0	0	0	0	0
	point1966	1966	1410	65	90	65	0	0	0	0	0	0
	point1967	1967	1410	65	90	65	0	0	0	0	0	0
	point1968	1968	1410	65	90	65	0	0	0	0	0	0
	point1969	1969	1410	65	90	65	0	0	0	0	0	0
	point1970	1970	1410	65	90	65	0	0	0	0	0	0
	point1971	1971	1410	65	90	65	0	0	0	0	0	0
	point1972	1972	1410	65	90	65	0	0	0	0	0	0
	point1973	1973	1410	65	90	65	0	0	0	0	0	0
	point1974	1974	1410	65	90	65	0	0	0	0	0	0
	point1975	1975	1410	65	90	65	0	0	0	0	0	0
	point1939	1939										
I-215 NB Aux	point1978	1978	851	65	56	65	28	55	0	0	0	0
	point1979	1979	851	65	56	65	28	55	0	0	0	0
	point1980	1980	851	65	56	65	28	55	0	0	0	0
	point1981	1981	851	65	56	65	28	55	0	0	0	0
	point1982	1982	851	65	56	65	28	55	0	0	0	0
	point1983	1983	851	65	56	65	28	55	0	0	0	0
	point1984	1984	851	65	56	65	28	55	0	0	0	0



**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point1985	1985	851	65	56	65	28	55	0	0	0	0
	point1986	1986	851	65	56	65	28	55	0	0	0	0
	point1987	1987	851	65	56	65	28	55	0	0	0	0
	point1977	1977										
Barton WB (NB Ramps to Commerce)	point1993	1993	2101	40	89	40	45	35	0	0	0	0
	point1994	1994	2101	40	89	40	45	35	0	0	0	0
	point1995	1995	2101	40	89	40	45	35	0	0	0	0
	point1996	1996	2101	40	89	40	45	35	0	0	0	0
	point1997	1997	2101	40	89	40	45	35	0	0	0	0
	point1998	1998	2101	40	89	40	45	35	0	0	0	0
	point1999	1999	2101	40	89	40	45	35	0	0	0	0
	point2000	2000	2101	40	89	40	45	35	0	0	0	0
	point1992	1992										
Barton WB (East of Commerce)	point2002	2002	1358	40	58	40	29	35	0	0	0	0
	point2003	2003	1358	40	58	40	29	35	0	0	0	0
	point2004	2004	1358	40	58	40	29	35	0	0	0	0
	point2005	2005	1358	40	58	40	29	35	0	0	0	0
	point2006	2006	1358	40	58	40	29	35	0	0	0	0
	point2007	2007	1358	40	58	40	29	35	0	0	0	0
	point2008	2008	1358	40	58	40	29	35	0	0	0	0
	point2009	2009	1358	40	58	40	29	35	0	0	0	0
	point2010	2010	1358	40	58	40	29	35	0	0	0	0
	point2011	2011	1358	40	58	40	29	35	0	0	0	0
	point2012	2012	1358	40	58	40	29	35	0	0	0	0
	point2013	2013	1358	40	58	40	29	35	0	0	0	0
	point2014	2014	1358	40	58	40	29	35	0	0	0	0
	point2015	2015	1358	40	58	40	29	35	0	0	0	0
	point2016	2016	1358	40	58	40	29	35	0	0	0	0
	point2017	2017	1358	40	58	40	29	35	0	0	0	0
	point2018	2018	1358	40	58	40	29	35	0	0	0	0
	point2001	2001										
I-215 NB Lanes 1 & 2	point965	965	2392	65	104	65	104	55	0	0	0	0
	point964	964	2392	65	104	65	104	55	0	0	0	0
	point963	963	2392	65	104	65	104	55	0	0	0	0
	point962	962	2392	65	104	65	104	55	0	0	0	0
	point961	961	2392	65	104	65	104	55	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point960	960	2392	65	104	65	104	55	0	0	0	0
	point959	959	2392	65	104	65	104	55	0	0	0	0
	point958	958	2392	65	104	65	104	55	0	0	0	0
	point957	957	2392	65	104	65	104	55	0	0	0	0
	point956	956	2392	65	104	65	104	55	0	0	0	0
	point1629	1629	2392	65	104	65	104	55	0	0	0	0
	point954	954	2392	65	104	65	104	55	0	0	0	0
	point953	953	2392	65	104	65	104	55	0	0	0	0
	point952	952	2392	65	104	65	104	55	0	0	0	0
	point951	951	2392	65	104	65	104	55	0	0	0	0
	point950	950	2392	65	104	65	104	55	0	0	0	0
	point949	949	2392	65	104	65	104	55	0	0	0	0
	point1626	1626	2392	65	104	65	104	55	0	0	0	0
	point947	947	2392	65	104	65	104	55	0	0	0	0
	point946	946	2392	65	104	65	104	55	0	0	0	0
	point945	945	2392	65	104	65	104	55	0	0	0	0
	point944	944	2392	65	104	65	104	55	0	0	0	0
	point943	943	2392	65	104	65	104	55	0	0	0	0
	point942	942	2392	65	104	65	104	55	0	0	0	0
	point941	941	2392	65	104	65	104	55	0	0	0	0
	point940	940	2392	65	104	65	104	55	0	0	0	0
	point939	939	2392	65	104	65	104	55	0	0	0	0
	point938	938	2392	65	104	65	104	55	0	0	0	0
	point937	937	2392	65	104	65	104	55	0	0	0	0
	point936	936	2392	65	104	65	104	55	0	0	0	0
	point935	935	2392	65	104	65	104	55	0	0	0	0
	point934	934	2392	65	104	65	104	55	0	0	0	0
	point38	38	2392	65	104	65	104	55	0	0	0	0
	point37	37	2392	65	104	65	104	55	0	0	0	0
	point36	36	2392	65	104	65	104	55	0	0	0	0
	point35	35	2392	65	104	65	104	55	0	0	0	0
	point34	34	2392	65	104	65	104	55	0	0	0	0
	point33	33										
I-215 SB Lanes 1 & 2	point1025	1025	2392	65	104	65	104	55	0	0	0	0
	point1024	1024	2392	65	104	65	104	55	0	0	0	0
	point1023	1023	2392	65	104	65	104	55	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point1022	1022	2392	65	104	65	104	55	0	0	0	0
	point1021	1021	2392	65	104	65	104	55	0	0	0	0
	point1020	1020	2392	65	104	65	104	55	0	0	0	0
	point1019	1019	2392	65	104	65	104	55	0	0	0	0
	point1018	1018	2392	65	104	65	104	55	0	0	0	0
	point1017	1017	2392	65	104	65	104	55	0	0	0	0
	point1016	1016	2392	65	104	65	104	55	0	0	0	0
	point1015	1015	2392	65	104	65	104	55	0	0	0	0
	point1014	1014	2392	65	104	65	104	55	0	0	0	0
	point1628	1628	2392	65	104	65	104	55	0	0	0	0
	point1012	1012	2392	65	104	65	104	55	0	0	0	0
	point1011	1011	2392	65	104	65	104	55	0	0	0	0
	point1010	1010	2392	65	104	65	104	55	0	0	0	0
	point1009	1009	2392	65	104	65	104	55	0	0	0	0
	point1008	1008	2392	65	104	65	104	55	0	0	0	0
	point1007	1007	2392	65	104	65	104	55	0	0	0	0
	point1006	1006	2392	65	104	65	104	55	0	0	0	0
	point1627	1627	2392	65	104	65	104	55	0	0	0	0
	point1004	1004	2392	65	104	65	104	55	0	0	0	0
	point1003	1003	2392	65	104	65	104	55	0	0	0	0
	point1002	1002	2392	65	104	65	104	55	0	0	0	0
	point1001	1001	2392	65	104	65	104	55	0	0	0	0
	point1000	1000	2392	65	104	65	104	55	0	0	0	0
	point999	999	2392	65	104	65	104	55	0	0	0	0
	point998	998	2392	65	104	65	104	55	0	0	0	0
	point997	997	2392	65	104	65	104	55	0	0	0	0
	point996	996	2392	65	104	65	104	55	0	0	0	0
	point157	157	2392	65	104	65	104	55	0	0	0	0
	point156	156	2392	65	104	65	104	55	0	0	0	0
	point155	155	2392	65	104	65	104	55	0	0	0	0
	point154	154	2392	65	104	65	104	55	0	0	0	0
	point153	153	2392	65	104	65	104	55	0	0	0	0
	point152	152	2392	65	104	65	104	55	0	0	0	0
	point151	151	2392	65	104	65	104	55	0	0	0	0
	point150	150										

**RESULTS: BARRIER DESCRIPTIONS**

**I-215/Barton Road Interchange**

LSA Associates, Inc.				16 February 2012						
Teak Kim				TNM 2.5						

**RESULTS: BARRIER DESCRIPTIONS**

**PROJECT/CONTRACT:** I-215/Barton Road Interchange

**RUN:** ALT 7

**BARRIER DESIGN:** INPUT HEIGHTS

Barriers										
Name	Type	Heights along Barrier			Length	If Wall	If Berm	Top	Run:Rise	Cost
		Min	Avg	Max						
		ft	ft	ft	ft	sq ft	cu yd	ft	ft:ft	\$
Existing Wall 5a	W	5.30	5.30	5.30	252	1336				0
Existing Wall 5b	W	6.00	6.00	6.00	963	5777				0
Existing Wall 4a	W	8.00	8.00	8.00	208	1664				0
Existing Wall 4b	W	12.60	12.60	12.60	349	4399				0
Existing Wall 8	W	5.30	5.30	5.30	768	4070				0
Existing Wall 7	W	5.30	5.30	5.30	253	1341				0
Building Barrier 3	W	15.00	15.00	15.00	298	4475				0
Building Barrier 10	W	15.00	15.00	15.00	51	770				0
Existing Wall 6	W	6.00	6.00	6.00	133	801				0
Building Barrier 2	W	15.00	15.00	15.00	430	6443				0
Building Barrier 11	W	15.00	15.00	15.00	60	905				0
Building Barrier 12	W	15.00	15.00	15.00	60	902				0
Building Barrier 13	W	15.00	15.00	15.00	39	586				0
Building Barrier 1	W	15.00	15.00	15.00	42	630				0
Building Barrier 4	W	15.00	15.00	15.00	77	1148				0
Building Barrier 5	W	15.00	15.00	15.00	60	893				0
Building Barrier 7	W	15.00	15.00	15.00	64	960				0
Building Barrier 8	W	15.00	15.00	15.00	65	976				0
Building Barrier 9	W	15.00	15.00	15.00	29	428				0
Building Barrier 14	W	15.00	15.00	15.00	40	607				0
Building Barrier 15	W	15.00	15.00	15.00	55	819				0
Building Barrier 16	W	15.00	15.00	15.00	67	1000				0
Building Barrier 17	W	15.00	15.00	15.00	82	1236				0

**RESULTS: BARRIER DESCRIPTIONS**

**I-215/Barton Road Interchange**

Building Barrier 18	W	15.00	15.00	15.00	77	1153				0
Building Barrier 19	W	15.00	15.00	15.00	56	838				0
Building Barrier 20	W	15.00	15.00	15.00	46	687				0
SB No. 16a	W	6.00	6.00	6.00	1957	11743				0
SB No. 21	W	6.00	6.00	6.00	353	2120				0
Existing Wall 9	W	6.00	6.00	6.00	527	3160				0
Building Barrier 6	W	15.00	15.00	15.00	62	923				0
Existing Wall 6	W	7.00	7.00	7.00	115	806				0
Existing Wall 6	W	6.00	6.00	6.00	569	3416				0
Existing Wall 6	W	5.00	5.00	5.00	127	633				0
Existing Wall 6	W	5.00	5.00	5.00	45	227				0
SB No. 17b	W	6.00	6.00	6.00	709	4252				0
SB No. 17a	W	6.00	6.00	6.00	1451	8705				0
SB No. 20	W	6.00	6.00	6.00	1481	8887				0
SB No. 16b	W	6.00	6.00	6.00	192	1154				0
Building Barrier 27	W	15.00	15.00	15.00	69	1029				0
Building Barrier 26	W	15.00	15.00	15.00	29	434				0
Building Barrier 25	W	15.00	15.00	15.00	45	679				0
Building Barrier 24	W	15.00	15.00	15.00	49	731				0
Building Barrier 23	W	15.00	15.00	15.00	51	767				0
Building Barrier 22	W	15.00	15.00	15.00	43	641				0
Building Barrier 21	W	15.00	15.00	15.00	43	641				0
SB No. 18	W	6.00	6.00	6.00	459	2756				0
SB No. 22	W	6.00	6.00	6.00	284	1706				0
SB No. 19	W	6.00	6.00	6.00	358	2147				0
SB No. 23	W	6.00	6.00	6.00	159	955				0
									Total Cost:	0



**RESULTS: BARRIER-SEGMENT DESCRIPTIONS**

**I-215/Barton Road Interchange**

		point28	28	5.30	5.30	5.30	54	285				0
Existing Wall 7	W	point30	30	5.30	5.30	5.30	99	524				0
		point31	31	5.30	5.30	5.30	86	457				0
		point32	32	5.30	5.30	5.30	68	360				0
Building Barrier 3	W	point44	44	15.00	15.00	15.00	298	4475				0
Building Barrier 10	W	point83	83	15.00	15.00	15.00	51	770				0
Existing Wall 6	W	point121	35	6.00	6.00	6.00	54	321				0
		point120	36	6.00	6.00	6.00	80	479				0
Building Barrier 2	W	point89	89	15.00	15.00	15.00	96	1440				0
		point90	90	15.00	15.00	15.00	120	1795				0
		point91	91	15.00	15.00	15.00	47	708				0
		point92	92	15.00	15.00	15.00	68	1017				0
		point93	93	15.00	15.00	15.00	48	726				0
		point94	94	15.00	15.00	15.00	50	757				0
Building Barrier 11	W	point99	99	15.00	15.00	15.00	60	905				0
Building Barrier 12	W	point101	101	15.00	15.00	15.00	60	902				0
Building Barrier 13	W	point103	103	15.00	15.00	15.00	39	586				0
Building Barrier 1	W	point105	105	15.00	15.00	15.00	42	630				0
Building Barrier 4	W	point107	107	15.00	15.00	15.00	77	1148				0
Building Barrier 5	W	point109	109	15.00	15.00	15.00	60	893				0
Building Barrier 7	W	point113	113	15.00	15.00	15.00	64	960				0
Building Barrier 8	W	point115	115	15.00	15.00	15.00	65	976				0
Building Barrier 9	W	point117	117	15.00	15.00	15.00	29	428				0
Building Barrier 14	W	point119	119	15.00	15.00	15.00	40	607				0

**RESULTS: BARRIER-SEGMENT DESCRIPTIONS**

**I-215/Barton Road Interchange**

Building Barrier 15	W	point121	121	15.00	15.00	15.00	55	819				0
Building Barrier 16	W	point123	123	15.00	15.00	15.00	67	1000				0
Building Barrier 17	W	point125	125	15.00	15.00	15.00	82	1236				0
Building Barrier 18	W	point127	127	15.00	15.00	15.00	77	1153				0
Building Barrier 19	W	point129	129	15.00	15.00	15.00	56	838				0
Building Barrier 20	W	point131	131	15.00	15.00	15.00	46	687				0
SB No. 16a	W	point437	437	6.00	6.00	6.00	323	1938				0
		point67	132	6.00	6.00	6.00	245	1469				0
		point68	133	6.00	6.00	6.00	139	833				0
		point69	134	6.00	6.00	6.00	268	1608				0
		point70	135	6.00	6.00	6.00	175	1053				0
		point71	136	6.00	6.00	6.00	186	1113				0
		point83	137	6.00	6.00	6.00	201	1204				0
		point72	138	6.00	6.00	6.00	151	903				0
		point73	139	6.00	6.00	6.00	113	676				0
		point74	140	6.00	6.00	6.00	87	520				0
		point75	141	6.00	6.00	6.00	71	426				0
SB No. 21	W	point24	228	6.00	6.00	6.00	83	497				0
		point235	229	6.00	6.00	6.00	78	465				0
		point25	230	6.00	6.00	6.00	78	467				0
		point26	231	6.00	6.00	6.00	30	183				0
		point352	352	6.00	6.00	6.00	5	30				0
		point353	353	6.00	6.00	6.00	80	478				0
Existing Wall 9	W	point97	235	6.00	6.00	6.00	55	327				0
		point98	236	6.00	6.00	6.00	129	771				0
		point99	237	6.00	6.00	6.00	109	654				0
		point100	238	6.00	6.00	6.00	120	720				0
		point101	239	6.00	6.00	6.00	115	687				0
Building Barrier 6	W	point126	243	15.00	15.00	15.00	62	923				0



**RESULTS: BARRIER-SEGMENT DESCRIPTIONS**

**I-215/Barton Road Interchange**

Existing Wall 6	W	point252	252	7.00	7.00	7.00	29	201					0
		point118	38	7.00	7.00	7.00	72	507					0
		point117	39	7.00	7.00	7.00	14	98					0
Existing Wall 6	W	point253	253	6.00	6.00	6.00	72	430					0
		point115	41	6.00	6.00	6.00	10	60					0
		point114	42	6.00	6.00	6.00	81	485					0
		point113	43	6.00	6.00	6.00	3	20					0
		point217	217	6.00	6.00	6.00	36	214					0
		point218	218	6.00	6.00	6.00	9	51					0
		point219	219	6.00	6.00	6.00	27	164					0
		point220	220	6.00	6.00	6.00	3	20					0
		point221	221	6.00	6.00	6.00	8	49					0
		point245	245	6.00	6.00	6.00	81	483					0
		point246	246	6.00	6.00	6.00	124	743					0
		point247	247	6.00	6.00	6.00	44	262					0
		point248	248	6.00	6.00	6.00	72	435					0
Existing Wall 6	W	point255	255	5.00	5.00	5.00	127	633					0
Existing Wall 6	W	point256	256	5.00	5.00	5.00	45	227					0
SB No. 17b	W	point257	257	6.00	6.00	6.00	130	778					0
		point258	258	6.00	6.00	6.00	99	594					0
		point259	259	6.00	6.00	6.00	131	786					0
		point260	260	6.00	6.00	6.00	143	861					0
		point261	261	6.00	6.00	6.00	145	872					0
		point262	262	6.00	6.00	6.00	60	361					0
SB No. 17a	W	point266	266	6.00	6.00	6.00	69	412					0
		point267	267	6.00	6.00	6.00	86	518					0
		point268	268	6.00	6.00	6.00	102	610					0
		point269	269	6.00	6.00	6.00	96	577					0
		point270	270	6.00	6.00	6.00	114	684					0
		point271	271	6.00	6.00	6.00	102	612					0
		point272	272	6.00	6.00	6.00	101	604					0
		point273	273	6.00	6.00	6.00	98	588					0
		point274	274	6.00	6.00	6.00	98	589					0

**RESULTS: BARRIER-SEGMENT DESCRIPTIONS**

**I-215/Barton Road Interchange**

		point275	275	6.00	6.00	6.00	81	486				0
		point276	276	6.00	6.00	6.00	103	618				0
		point277	277	6.00	6.00	6.00	107	643				0
		point278	278	6.00	6.00	6.00	97	582				0
		point279	279	6.00	6.00	6.00	93	557				0
		point280	280	6.00	6.00	6.00	49	293				0
		point281	281	6.00	6.00	6.00	55	332				0
SB No. 20	W	point419	419	6.00	6.00	6.00	153	917				0
		point418	418	6.00	6.00	6.00	83	500				0
		point417	417	6.00	6.00	6.00	97	582				0
		point416	416	6.00	6.00	6.00	131	783				0
		point415	415	6.00	6.00	6.00	151	909				0
		point414	414	6.00	6.00	6.00	98	588				0
		point413	413	6.00	6.00	6.00	83	498				0
		point412	412	6.00	6.00	6.00	26	153				0
		point371	371	6.00	6.00	6.00	153	918				0
		point326	326	6.00	6.00	6.00	150	900				0
		point320	320	6.00	6.00	6.00	140	843				0
		point305	305	6.00	6.00	6.00	113	680				0
		point306	306	6.00	6.00	6.00	65	388				0
		point307	307	6.00	6.00	6.00	38	229				0
SB No. 16b	W	point331	331	6.00	6.00	6.00	192	1154				0
Building Barrier 27	W	point390	390	15.00	15.00	15.00	69	1029				0
Building Barrier 26	W	point392	392	15.00	15.00	15.00	29	434				0
Building Barrier 25	W	point394	394	15.00	15.00	15.00	45	679				0
Building Barrier 24	W	point396	396	15.00	15.00	15.00	49	731				0
Building Barrier 23	W	point398	398	15.00	15.00	15.00	51	767				0
Building Barrier 22	W	point400	400	15.00	15.00	15.00	43	641				0
Building Barrier 21	W	point402	402	15.00	15.00	15.00	43	641				0

**RESULTS: BARRIER-SEGMENT DESCRIPTIONS**

**I-215/Barton Road Interchange**

SB No. 18	W	point411	411	6.00	6.00	6.00	64	381				0
		point410	410	6.00	6.00	6.00	72	430				0
		point409	409	6.00	6.00	6.00	95	570				0
		point408	408	6.00	6.00	6.00	40	237				0
		point407	407	6.00	6.00	6.00	64	381				0
		point406	406	6.00	6.00	6.00	52	312				0
		point405	405	6.00	6.00	6.00	41	246				0
		point404	404	6.00	6.00	6.00	33	198				0
SB No. 22	W	point425	425	6.00	6.00	6.00	55	330				0
		point424	424	6.00	6.00	6.00	108	650				0
		point423	423	6.00	6.00	6.00	32	192				0
		point422	422	6.00	6.00	6.00	35	210				0
		point421	421	6.00	6.00	6.00	54	325				0
SB No. 19	W	point432	432	6.00	6.00	6.00	75	449				0
		point431	431	6.00	6.00	6.00	61	366				0
		point430	430	6.00	6.00	6.00	63	378				0
		point429	429	6.00	6.00	6.00	57	339				0
		point428	428	6.00	6.00	6.00	52	311				0
		point427	427	6.00	6.00	6.00	51	303				0
SB No. 23	W	point436	436	6.00	6.00	6.00	45	272				0
		point435	435	6.00	6.00	6.00	77	463				0
		point434	434	6.00	6.00	6.00	37	220				0

INPUT: BARRIERS

I-215/Barton Road Interchange

LSA Associates, Inc.	16 February 2012
Teak Kim	TNM 2.5

INPUT: BARRIERS

PROJECT/CONTRACT: I-215/Barton Road Interchange  
 RUN: ALT 7

Barrier									Points										
Name	Type	Height		If Wall	If Berm			Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment				
		Min	Max	\$ per	\$ per	Top	Run:Rise	\$ per			X	Y	Z	at	Seg	Ht	Perturbs	On	Important
				Unit	Unit	Width		Unit						Point	Incre-	#Up	#Dn	Struct?	Reflec-
		ft	ft	Area	Vol.		ft:ft	Length			ft	ft	ft	ft	ment				tions?
				\$/sq ft	\$/cu yd			\$/ft											
Existing Wall 5a	W	0.00	99.99	0.00				0.00	point1	1	6,765,620.0	1,836,382.8	976.00	5.30	0.00	0	0		
									point2	2	6,765,864.0	1,836,319.2	978.00	5.30					
Existing Wall 5b	W	0.00	99.99	0.00				0.00	point12	12	6,765,864.0	1,836,319.2	978.00	6.00	0.00	0	0		
									point3	3	6,765,829.5	1,836,147.2	979.00	6.00	0.00	0	0		
									point4	4	6,765,796.0	1,835,975.8	980.00	6.00	0.00	0	0		
									point5	5	6,765,763.5	1,835,803.6	981.00	6.00	0.00	0	0		
									point6	6	6,765,763.5	1,835,768.5	981.00	6.00	0.00	0	0		
									point7	7	6,765,732.5	1,835,698.8	981.00	6.00	0.00	0	0		
									point8	8	6,765,730.0	1,835,678.2	981.00	6.00	0.00	0	0		
									point9	9	6,765,662.0	1,835,503.8	980.00	6.00	0.00	0	0		
									point10	10	6,765,646.5	1,835,439.5	979.00	6.00	0.00	0	0		
									point11	11	6,765,594.5	1,835,438.8	980.00	6.00					
Existing Wall 4a	W	0.00	99.99	0.00				0.00	point13	13	6,765,869.5	1,836,346.2	979.00	8.00	0.00	0	0		
									point14	14	6,765,916.0	1,836,333.8	981.00	8.00	0.00	0	0		
									point15	15	6,765,915.0	1,836,327.8	979.00	8.00	0.00	0	0		
									point16	16	6,766,063.5	1,836,287.8	983.00	8.00					
Existing Wall 4b	W	0.00	99.99	0.00				0.00	point97	97	6,766,063.5	1,836,287.8	983.00	12.60	0.00	0	0		
									point96	96	6,766,033.0	1,836,126.5	983.00	12.60	0.00	0	0		
									point20	20	6,765,994.0	1,835,945.6	983.50	12.60					
Existing Wall 8	W	0.00	99.99	0.00				0.00	point21	21	6,767,611.0	1,837,334.2	1,022.00	5.30	0.00	0	0		
									point22	22	6,767,553.0	1,837,234.8	1,020.00	5.30	0.00	0	0		
									point23	23	6,767,487.5	1,837,125.2	1,017.00	5.30	0.00	0	0		
									point24	24	6,767,378.5	1,836,937.0	1,011.00	5.30	0.00	0	0		
									point25	25	6,767,307.5	1,836,819.0	1,009.00	5.30	0.00	0	0		
									point26	26	6,767,281.0	1,836,834.0	1,009.00	5.30	0.00	0	0		
									point27	27	6,767,278.0	1,836,829.9	1,009.00	5.30	0.00	0	0		
									point28	28	6,767,208.5	1,836,870.8	1,009.00	5.30	0.00	0	0		
									point29	29	6,767,191.5	1,836,819.8	1,004.00	5.30					
Existing Wall 7	W	0.00	99.99	0.00				0.00	point30	30	6,767,180.5	1,836,792.1	1,003.20	5.30	0.00	0	0		
									point31	31	6,767,171.0	1,836,693.8	998.00	5.30	0.00	0	0		
									point32	32	6,767,163.5	1,836,607.9	996.50	5.30	0.00	0	0		
									point33	33	6,767,096.0	1,836,615.8	992.80	5.30					
Building Barrier 3	W	0.00	99.99	0.00				0.00	point44	44	6,767,050.0	1,836,050.0	1,001.00	15.00	0.00	0	0		
									point45	45	6,767,159.5	1,835,772.5	1,002.00	15.00					
Building Barrier 10	W	0.00	99.99	0.00				0.00	point83	83	6,765,886.5	1,835,926.6	981.00	15.00	0.00	0	0		

INPUT: BARRIERS

I-215/Barton Road Interchange

									point84	84	6,765,879.0	1,835,875.9	981.00	15.00				
Existing Wall 6	W	0.00	99.99	0.00			0.00	point121	35	6,767,308.5	1,836,361.8	1,009.00	6.00	0.00	0	0		
								point120	36	6,767,257.5	1,836,378.1	1,006.00	6.00	0.00	0	0		
								point119	37	6,767,311.5	1,836,437.0	1,007.20	6.00					
Building Barrier 2	W	0.00	99.99	0.00			0.00	point89	89	6,766,954.5	1,836,000.5	998.00	15.00	0.00	0	0		
								point90	90	6,767,044.5	1,836,034.0	1,001.00	15.00	0.00	0	0		
								point91	91	6,767,086.0	1,835,921.8	1,001.00	15.00	0.00	0	0		
								point92	92	6,767,042.0	1,835,904.8	999.00	15.00	0.00	0	0		
								point93	93	6,767,018.5	1,835,968.4	999.00	15.00	0.00	0	0		
								point94	94	6,766,972.5	1,835,953.4	998.00	15.00	0.00	0	0		
								point96	95	6,766,954.5	1,836,000.5	998.00	15.00					
Building Barrier 11	W	0.00	99.99	0.00			0.00	point99	99	6,765,362.5	1,836,146.8	971.00	15.00	0.00	0	0		
								point98	98	6,765,359.5	1,836,207.0	971.00	15.00					
Building Barrier 12	W	0.00	99.99	0.00			0.00	point101	101	6,765,434.5	1,836,239.1	972.00	15.00	0.00	0	0		
								point100	100	6,765,445.5	1,836,298.2	972.00	15.00					
Building Barrier 13	W	0.00	99.99	0.00			0.00	point103	103	6,765,464.0	1,836,324.2	971.80	15.00	0.00	0	0		
								point102	102	6,765,473.0	1,836,362.2	971.80	15.00					
Building Barrier 1	W	0.00	99.99	0.00			0.00	point105	105	6,768,092.5	1,835,263.4	1,022.00	15.00	0.00	0	0		
								point104	104	6,768,134.5	1,835,263.8	1,022.00	15.00					
Building Barrier 4	W	0.00	99.99	0.00			0.00	point107	107	6,767,727.5	1,835,604.6	1,009.00	15.00	0.00	0	0		
								point106	106	6,767,804.0	1,835,605.8	1,009.00	15.00					
Building Barrier 5	W	0.00	99.99	0.00			0.00	point109	109	6,767,833.5	1,835,514.8	1,012.00	15.00	0.00	0	0		
								point108	108	6,767,893.0	1,835,513.5	1,012.00	15.00					
Building Barrier 7	W	0.00	99.99	0.00			0.00	point113	113	6,768,044.5	1,835,564.4	1,018.00	15.00	0.00	0	0		
								point112	112	6,768,106.0	1,835,546.8	1,018.00	15.00					
Building Barrier 8	W	0.00	99.99	0.00			0.00	point115	115	6,768,178.0	1,835,579.8	1,021.00	15.00	0.00	0	0		
								point114	114	6,768,181.5	1,835,514.8	1,021.00	15.00					
Building Barrier 9	W	0.00	99.99	0.00			0.00	point117	117	6,768,269.0	1,835,583.4	1,024.00	15.00	0.00	0	0		
								point116	116	6,768,297.5	1,835,584.5	1,024.00	15.00					
Building Barrier 14	W	0.00	99.99	0.00			0.00	point119	119	6,765,485.5	1,836,373.8	971.80	15.00	0.00	0	0		
								point118	118	6,765,488.5	1,836,414.1	971.80	15.00					
Building Barrier 15	W	0.00	99.99	0.00			0.00	point121	121	6,765,481.5	1,836,423.1	972.50	15.00	0.00	0	0		
								point120	120	6,765,481.5	1,836,477.8	972.50	15.00					
Building Barrier 16	W	0.00	99.99	0.00			0.00	point123	123	6,765,488.0	1,836,500.4	973.50	15.00	0.00	0	0		
								point122	122	6,765,501.0	1,836,565.8	973.50	15.00					
Building Barrier 17	W	0.00	99.99	0.00			0.00	point125	125	6,765,479.5	1,836,628.8	975.00	15.00	0.00	0	0		
								point124	124	6,765,491.5	1,836,710.2	975.00	15.00					
Building Barrier 18	W	0.00	99.99	0.00			0.00	point127	127	6,765,541.0	1,836,756.8	976.50	15.00	0.00	0	0		
								point126	126	6,765,558.5	1,836,831.6	976.50	15.00					
Building Barrier 19	W	0.00	99.99	0.00			0.00	point129	129	6,765,579.0	1,836,884.0	978.00	15.00	0.00	0	0		
								point128	128	6,765,590.0	1,836,938.8	978.00	15.00					
Building Barrier 20	W	0.00	99.99	0.00			0.00	point131	131	6,765,569.0	1,836,979.1	979.30	15.00	0.00	0	0		
								point130	130	6,765,577.0	1,837,024.2	979.30	15.00					
SB No. 16a	W	0.00	99.99	0.00			0.00	point437	437	6,764,520.0	1,833,459.5	939.10	6.00	2.00	5	0		
								point67	132	6,764,739.0	1,833,697.0	948.40	6.00	2.00	5	0		
								point68	133	6,764,907.5	1,833,874.6	945.70	6.00	2.00	5	0		
								point69	134	6,765,002.0	1,833,976.2	946.70	6.00	2.00	5	0		
								point70	135	6,765,184.5	1,834,172.5	949.30	6.00	2.00	5	0		
								point71	136	6,765,304.5	1,834,300.5	955.60	6.00	2.00	5	0		

INPUT: BARRIERS

I-215/Barton Road Interchange

									point83	137	6,765,441.0	1,834,426.1	958.70	6.00	2.00	5	0		
									point72	138	6,765,589.0	1,834,561.6	962.80	6.00	2.00	5	0		
									point73	139	6,765,700.5	1,834,662.8	968.80	6.00	2.00	5	0		
									point74	140	6,765,784.0	1,834,738.4	971.00	6.00	2.00	5	0		
									point75	141	6,765,848.0	1,834,796.8	972.50	6.00	2.00	5	0		
									point76	142	6,765,902.5	1,834,842.2	971.00	6.00					
SB No. 21	W	0.00	99.99	0.00				0.00	point24	228	6,767,429.0	1,837,022.5	1,014.00	6.00	2.00	5	0		
									point235	229	6,767,387.5	1,836,950.8	1,011.00	6.00	2.00	5	0		
									point25	230	6,767,348.0	1,836,884.0	1,010.00	6.00	2.00	5	0		
									point26	231	6,767,308.0	1,836,817.2	1,009.00	6.00	2.00	5	0		
									point352	352	6,767,281.5	1,836,832.2	1,009.00	6.00	2.00	5	0		
									point353	353	6,767,278.0	1,836,828.8	1,009.00	6.00	2.00	5	0		
									point354	354	6,767,209.0	1,836,868.6	1,007.00	6.00					
Existing Wall 9	W	0.00	99.99	0.00				0.00	point97	235	6,766,521.5	1,835,483.5	986.00	6.00	0.00	0	0		
									point98	236	6,766,552.0	1,835,438.2	986.00	6.00	0.00	0	0		
									point99	237	6,766,680.5	1,835,440.1	987.00	6.00	0.00	0	0		
									point100	238	6,766,789.5	1,835,442.2	989.00	6.00	0.00	0	0		
									point101	239	6,766,909.5	1,835,440.9	993.00	6.00	0.00	0	0		
									point102	240	6,767,024.0	1,835,443.5	996.00	6.00					
Building Barrier 6	W	0.00	99.99	0.00				0.00	point126	243	6,767,945.0	1,835,556.1	1,015.00	15.00	0.00	0	0		
									point125	244	6,768,006.5	1,835,555.0	1,015.00	15.00					
Existing Wall 6	W	0.00	99.99	0.00				0.00	point252	252	6,767,311.5	1,836,437.0	1,007.20	7.00	0.00	0	0		
									point118	38	6,767,337.5	1,836,424.8	1,009.00	7.00	0.00	0	0		
									point117	39	6,767,370.5	1,836,489.2	1,009.20	7.00	0.00	0	0		
									point116	40	6,767,383.5	1,836,494.4	1,009.20	7.00					
Existing Wall 6	W	0.00	99.99	0.00				0.00	point253	253	6,767,383.5	1,836,494.4	1,009.20	6.00	0.00	0	0		
									point115	41	6,767,440.0	1,836,538.4	1,010.00	6.00	0.00	0	0		
									point114	42	6,767,433.5	1,836,545.9	1,010.00	6.00	0.00	0	0		
									point113	43	6,767,489.0	1,836,604.6	1,009.00	6.00	0.00	0	0		
									point217	217	6,767,490.5	1,836,601.6	1,009.30	6.00	0.00	0	0		
									point218	218	6,767,515.0	1,836,627.5	1,010.00	6.00	0.00	0	0		
									point219	219	6,767,518.5	1,836,635.2	1,010.00	6.00	0.00	0	0		
									point220	220	6,767,536.5	1,836,655.9	1,009.00	6.00	0.00	0	0		
									point221	221	6,767,534.5	1,836,658.5	1,009.00	6.00	0.00	0	0		
									point245	245	6,767,540.0	1,836,664.6	1,009.00	6.00	0.00	0	0		
									point246	246	6,767,609.5	1,836,623.9	1,012.30	6.00	0.00	0	0		
									point247	247	6,767,664.5	1,836,734.8	1,012.30	6.00	0.00	0	0		
									point248	248	6,767,627.0	1,836,757.2	1,011.00	6.00	0.00	0	0		
									point249	249	6,767,675.5	1,836,811.1	1,011.00	6.00					
Existing Wall 6	W	0.00	99.99	0.00				0.00	point255	255	6,767,729.5	1,836,868.9	1,013.00	5.00	0.00	0	0		
									point251	251	6,767,816.0	1,836,961.2	1,016.00	5.00					
Existing Wall 6	W	0.00	99.99	0.00				0.00	point256	256	6,767,675.5	1,836,811.1	1,011.00	5.00	0.00	0	0		
									point250	250	6,767,715.0	1,836,788.8	1,013.50	5.00					
SB No. 17b	W	0.00	99.99	0.00				0.00	point257	257	6,767,335.0	1,836,504.0	1,005.00	6.00	2.00	5	0		
									point258	258	6,767,422.0	1,836,600.2	1,004.50	6.00	2.00	5	0		
									point259	259	6,767,489.0	1,836,673.1	1,006.50	6.00	2.00	5	0		
									point260	260	6,767,578.5	1,836,768.8	1,008.00	6.00	2.00	5	0		
									point261	261	6,767,676.0	1,836,874.0	1,008.30	6.00	2.00	5	0		
									point262	262	6,767,775.0	1,836,980.4	1,010.00	6.00	2.00	5	0		

INPUT: BARRIERS

I-215/Barton Road Interchange

									point329	329	6,767,816.0	1,837,024.5	1,011.00	6.00				
SB No. 17a	W	0.00	99.99	0.00			0.00	point266	266	6,766,551.0	1,835,436.2	986.00	6.00	2.00	5	0		
								point267	267	6,766,510.0	1,835,491.2	988.70	6.00	2.00	5	0		
								point268	268	6,766,561.5	1,835,560.5	987.00	6.00	2.00	2	0		
								point269	269	6,766,622.0	1,835,642.1	984.00	6.00	2.00	5	0		
								point270	270	6,766,679.5	1,835,719.2	983.00	6.00	2.00	5	0		
								point271	271	6,766,747.5	1,835,810.8	983.00	6.00	2.00	5	0		
								point272	272	6,766,810.0	1,835,891.4	985.00	6.00	2.00	5	0		
								point273	273	6,766,875.5	1,835,967.9	990.00	6.00	2.00	5	0		
								point274	274	6,766,939.5	1,836,042.1	993.00	6.00	2.00	5	0		
								point275	275	6,767,003.5	1,836,116.5	996.00	6.00	2.00	5	0		
								point276	276	6,767,056.5	1,836,177.8	997.70	6.00	2.00	5	0		
								point277	277	6,767,126.0	1,836,253.8	1,000.60	6.00	2.00	5	0		
								point278	278	6,767,199.0	1,836,332.2	1,004.50	6.00	2.00	5	0		
								point279	279	6,767,265.0	1,836,403.4	1,005.70	6.00	2.00	5	0		
								point280	280	6,767,328.0	1,836,471.6	1,007.00	6.00	2.00	5	0		
								point281	281	6,767,361.5	1,836,507.2	1,007.00	6.00	2.00	5	0		
								point282	282	6,767,404.5	1,836,542.0	1,007.00	6.00					
SB No. 20	W	0.00	99.99	0.00			0.00	point419	419	6,767,688.0	1,837,118.2	1,017.70	6.00	2.00	5	0		
								point418	418	6,767,584.0	1,837,006.2	1,014.70	6.00	2.00	5	0		
								point417	417	6,767,527.5	1,836,945.0	1,012.80	6.00	2.00	5	0		
								point416	416	6,767,461.5	1,836,873.9	1,009.40	6.00	2.00	5	0		
								point415	415	6,767,372.5	1,836,778.4	1,005.00	6.00	2.00	5	0		
								point414	414	6,767,269.5	1,836,667.4	999.50	6.00	2.00	5	0		
								point413	413	6,767,203.0	1,836,595.5	995.00	6.00	2.00	5	0		
								point412	412	6,767,146.5	1,836,534.8	996.00	6.00	2.00	5	0		
								point371	371	6,767,129.0	1,836,516.1	998.00	6.00	2.00	5	0		
								point326	326	6,767,016.5	1,836,412.5	1,001.40	6.00	2.00	5	0		
								point320	320	6,766,904.5	1,836,312.8	999.50	6.00	2.00	5	0		
								point305	305	6,766,799.5	1,836,219.5	996.30	6.00	2.00	5	0		
								point306	306	6,766,692.5	1,836,182.0	995.00	6.00	2.00	5	0		
								point307	307	6,766,634.0	1,836,154.2	994.50	6.00	2.00	5	0		
								point308	308	6,766,599.0	1,836,139.1	993.50	6.00					
SB No. 16b	W	0.00	99.99	0.00			0.00	point331	331	6,764,460.5	1,833,366.4	942.00	6.00	2.00	5	0		
								point332	332	6,764,591.5	1,833,507.2	947.70	6.00					
Building Barrier 27	W	0.00	99.99	0.00			0.00	point390	390	6,765,417.0	1,836,053.8	970.50	15.00	0.00	0	0		
								point389	389	6,765,431.0	1,836,120.9	970.50	15.00					
Building Barrier 26	W	0.00	99.99	0.00			0.00	point392	392	6,765,416.5	1,835,958.0	970.00	15.00	0.00	0	0		
								point391	391	6,765,421.5	1,835,986.5	970.00	15.00					
Building Barrier 25	W	0.00	99.99	0.00			0.00	point394	394	6,765,375.0	1,835,894.9	968.00	15.00	0.00	0	0		
								point393	393	6,765,373.0	1,835,940.1	968.00	15.00					
Building Barrier 24	W	0.00	99.99	0.00			0.00	point396	396	6,765,329.0	1,835,780.8	967.50	15.00	0.00	0	0		
								point395	395	6,765,328.0	1,835,829.5	967.50	15.00					
Building Barrier 23	W	0.00	99.99	0.00			0.00	point398	398	6,765,345.0	1,835,696.2	967.50	15.00	0.00	0	0		
								point397	397	6,765,344.0	1,835,747.4	967.50	15.00					
Building Barrier 22	W	0.00	99.99	0.00			0.00	point400	400	6,765,348.0	1,835,616.6	967.00	15.00	0.00	0	0		
								point399	399	6,765,348.0	1,835,659.4	967.00	15.00					
Building Barrier 21	W	0.00	99.99	0.00			0.00	point402	402	6,765,335.5	1,835,452.5	969.00	15.00	0.00	0	0		
								point401	401	6,765,334.5	1,835,495.2	969.00	15.00					

**INPUT: BARRIERS**

**I-215/Barton Road Interchange**

SB No. 18	W	0.00	99.99	0.00				0.00	point411	411	6,765,726.5	1,835,654.2	980.00	6.00	2.00	5	0		
									point410	410	6,765,702.5	1,835,595.4	980.00	6.00	2.00	5	0		
									point409	409	6,765,676.5	1,835,528.6	979.00	6.00	2.00	5	0		
									point408	408	6,765,647.5	1,835,438.1	977.00	6.00	2.00	5	0		
									point407	407	6,765,608.0	1,835,437.2	978.00	6.00	2.00	5	0		
									point406	406	6,765,544.5	1,835,437.6	979.30	6.00	2.00	5	0		
									point405	405	6,765,492.5	1,835,435.8	978.00	6.00	2.00	5	0		
									point404	404	6,765,451.5	1,835,436.4	976.70	6.00	2.00	5	0		
									point403	403	6,765,430.0	1,835,461.5	975.00	6.00					
SB No. 22	W	0.00	99.99	0.00				0.00	point425	425	6,767,100.5	1,836,209.1	1,004.00	6.00	2.00	5	0		
									point424	424	6,767,136.5	1,836,250.6	1,004.00	6.00	2.00	5	0		
									point423	423	6,767,211.5	1,836,328.8	1,005.00	6.00	2.00	5	0		
									point422	422	6,767,233.0	1,836,352.5	1,005.30	6.00	2.00	5	0		
									point421	421	6,767,257.0	1,836,377.9	1,006.00	6.00	2.00	5	0		
									point420	420	6,767,308.5	1,836,361.2	1,009.00	6.00					
SB No. 19	W	0.00	99.99	0.00				0.00	point432	432	6,766,014.0	1,835,955.5	989.00	6.00	2.00	5	0		
									point431	431	6,765,965.0	1,835,898.9	981.00	6.00	2.00	5	0		
									point430	430	6,765,936.0	1,835,845.2	981.00	6.00	2.00	5	0		
									point429	429	6,765,918.5	1,835,784.8	982.00	6.00	2.00	5	0		
									point428	428	6,765,904.5	1,835,730.0	982.00	6.00	2.00	5	0		
									point427	427	6,765,892.0	1,835,679.6	982.00	6.00	2.00	5	0		
									point426	426	6,765,879.5	1,835,630.6	982.70	6.00					
SB No. 23	W	0.00	99.99	0.00				0.00	point436	436	6,767,715.5	1,836,789.4	1,013.50	6.00	2.00	5	0		
									point435	435	6,767,676.0	1,836,811.8	1,012.00	6.00	2.00	5	0		
									point434	434	6,767,729.0	1,836,867.9	1,013.00	6.00	2.00	5	0		
									point433	433	6,767,762.5	1,836,853.1	1,015.00	6.00					



**INPUT: BUILDING ROWS**

**I-215/Barton Road Interchange**

LSA Associates, Inc.			16 February 2012			
Teak Kim			TNM 2.5			
<b>INPUT: BUILDING ROWS</b>						
<b>PROJECT/CONTRACT:</b>			I-215/Barton Road Interchange			
<b>RUN:</b>			ALT 7			
Building Row			Points			
Name	Average Height	Building Percent	No.	Coordinates (ground)		
	ft	%		X	Y	Z
				ft	ft	ft
Building1	15.00	70	1	6,767,025.0	1,835,788.8	996.00
			2	6,767,044.5	1,835,478.4	997.00
Building9	15.00	70	22	6,765,592.0	1,835,474.4	977.50
			23	6,765,604.0	1,835,545.6	977.00
			24	6,765,624.5	1,835,612.0	977.00
			25	6,765,637.5	1,835,686.2	977.00
			26	6,765,651.5	1,835,762.1	976.00
			27	6,765,681.0	1,835,876.9	975.50
			28	6,765,697.5	1,835,994.0	976.00
			29	6,765,738.5	1,836,146.9	976.00
			40	6,765,766.5	1,836,294.5	977.00
Building10	15.00	70	30	6,765,519.5	1,835,475.2	977.50
			31	6,765,541.0	1,835,555.0	975.00
			32	6,765,561.0	1,835,615.0	975.00
			33	6,765,570.5	1,835,682.9	974.50
			34	6,765,589.5	1,835,762.4	974.00
			36	6,765,622.5	1,835,884.6	974.00
			37	6,765,635.0	1,835,995.0	974.50
			38	6,765,672.0	1,836,156.9	975.00
			39	6,765,695.0	1,836,317.1	976.00
Building11	15.00	70	41	6,767,116.5	1,836,615.1	994.00
			42	6,767,133.0	1,836,792.8	1,002.00
			48	6,767,178.5	1,836,928.8	1,008.00
			43	6,767,289.0	1,836,876.6	1,010.50

**INPUT: BUILDING ROWS**

**I-215/Barton Road Interchange**

			44	6,767,384.0	1,837,041.9	1,013.80
			45	6,767,459.5	1,837,171.1	1,016.50
			46	6,767,537.0	1,837,328.2	1,019.80
Building12	15.00	70	49	6,767,252.0	1,836,961.2	1,010.00
			50	6,767,314.0	1,837,061.5	1,013.20
			51	6,767,354.5	1,837,123.5	1,014.60
			52	6,767,394.5	1,837,188.8	1,015.70
			53	6,767,443.0	1,837,284.8	1,016.90
Building2	15.00	70	63	6,767,332.0	1,836,142.8	1,011.00
			64	6,767,395.0	1,836,353.2	1,011.00
			65	6,767,447.5	1,836,458.5	1,011.00
			66	6,767,585.0	1,836,609.2	1,012.00
Building6	15.00	70	73	6,767,849.0	1,836,361.1	1,023.00
			74	6,767,766.0	1,836,525.2	1,021.00
			75	6,767,752.0	1,836,656.4	1,015.00
			76	6,767,793.5	1,836,819.4	1,015.00
			77	6,767,853.5	1,836,903.6	1,017.00
			78	6,768,046.0	1,836,891.9	1,027.00
Building7	20.00	80	79	6,768,334.0	1,836,863.1	1,039.00
			80	6,768,350.0	1,837,069.9	1,039.00
Building8	20.00	80	81	6,768,634.5	1,837,260.8	1,041.00
			82	6,768,640.0	1,837,460.0	1,041.00
Building3	15.00	50	83	6,767,491.0	1,835,936.8	1,013.00
			84	6,767,511.5	1,836,192.4	1,014.00
Building5	15.00	80	87	6,767,589.5	1,836,564.0	1,013.50
			88	6,767,683.5	1,836,611.1	1,015.00
			89	6,767,766.5	1,836,841.2	1,014.00
			90	6,767,837.0	1,836,901.5	1,015.00
Building4	15.00	80	91	6,767,639.0	1,836,566.8	1,013.50
			92	6,767,663.0	1,836,524.9	1,014.00
			93	6,767,683.5	1,836,473.0	1,014.00
			94	6,767,665.5	1,836,433.1	1,014.50
			95	6,767,597.0	1,836,386.5	1,014.50
			98	6,767,575.5	1,836,365.1	1,015.00
			99	6,767,524.0	1,836,367.2	1,014.00
			100	6,767,500.5	1,836,295.2	1,013.50

**INPUT: RECEIVERS**

**I-215/Barton Road Interchange**

LSA Associates, Inc.						16 February 2012					
Teak Kim						TNM 2.5					
<b>INPUT: RECEIVERS</b>											
<b>PROJECT/CONTRACT:</b>		<b>I-215/Barton Road Interchange</b>									
<b>RUN:</b>		<b>ALT 7</b>									
<b>Receiver</b>											
<b>Name</b>	<b>No.</b>	<b>#DUs</b>	<b>Coordinates (ground)</b>			<b>Height</b>	<b>Input Sound Levels and Criteria</b>				<b>Active</b>
			<b>X</b>	<b>Y</b>	<b>Z</b>	<b>above</b>	<b>Existing</b>	<b>Impact Criteria</b>		<b>NR</b>	<b>in</b>
						<b>Ground</b>	<b>LAeq1h</b>	<b>LAeq1h</b>	<b>Sub'l</b>	<b>Goal</b>	<b>Calc.</b>
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Exterior/Interior 1	1	1	6,767,040.0	1,836,048.1	1,000.00	5.00	0.00	66	12.0	5.0	



**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point970	970	6,767,565.0	1,836,816.2	1,006.80				Average	
		point969	969	6,767,717.0	1,836,979.8	1,007.50				Average	
		point968	968	6,767,871.0	1,837,146.5	1,007.40				Average	
		point967	967	6,768,042.5	1,837,331.1	1,004.80				Average	
		point966	966	6,768,195.5	1,837,495.9	1,002.30				Average	
		point115	115	6,768,375.5	1,837,689.5	998.70				Average	
		point114	114	6,768,528.5	1,837,853.6	995.60				Average	
		point113	113	6,768,685.0	1,838,014.2	993.30				Average	
		point112	112	6,768,834.0	1,838,157.8	990.10				Average	
		point111	111	6,768,991.0	1,838,305.2	985.20				Average	
		point110	110	6,769,163.0	1,838,454.1	979.50				Average	
		point109	109	6,769,343.0	1,838,609.0	973.70				Average	
		point108	108	6,769,536.5	1,838,771.2	966.90					
I-215 SB Lane 3	12.0	point1054	1054	6,769,492.5	1,838,810.1	967.00				Average	
		point1053	1053	6,769,298.0	1,838,648.0	973.60				Average	
		point1052	1052	6,769,120.0	1,838,495.2	979.80				Average	
		point1051	1051	6,768,947.5	1,838,345.2	985.60				Average	
		point1050	1050	6,768,791.0	1,838,197.2	990.80				Average	
		point1049	1049	6,768,642.0	1,838,053.2	993.50				Average	
		point1048	1048	6,768,486.0	1,837,892.1	996.00				Average	
		point1047	1047	6,768,329.5	1,837,726.0	998.70				Average	
		point1046	1046	6,768,152.0	1,837,534.1	1,002.00				Average	
		point1045	1045	6,768,000.0	1,837,368.9	1,004.60				Average	
		point1044	1044	6,767,826.0	1,837,182.5	1,007.00				Average	
		point1043	1043	6,767,673.5	1,837,018.0	1,007.30				Average	
		point1042	1042	6,767,522.0	1,836,855.2	1,007.10				Average	
		point1041	1041	6,767,361.5	1,836,681.6	1,006.40				Average	
		point1040	1040	6,767,176.5	1,836,483.1	1,004.10				Average	
		point1039	1039	6,766,996.0	1,836,287.2	999.10				Average	
		point1038	1038	6,766,834.5	1,836,110.1	992.10				Average	
		point1037	1037	6,766,696.5	1,835,960.2	984.90				Average	
		point1036	1036	6,766,525.0	1,835,772.2	976.10				Average	
		point1035	1035	6,766,357.5	1,835,589.2	967.90				Average	
		point1034	1034	6,766,144.5	1,835,358.8	963.10				Average	
		point1033	1033	6,766,010.0	1,835,212.1	963.00				Average	
		point1032	1032	6,765,848.0	1,835,037.8	962.30				Average	
		point1031	1031	6,765,658.0	1,834,832.4	961.80				Average	
		point1030	1030	6,765,485.5	1,834,646.8	961.20				Average	
		point1029	1029	6,765,303.5	1,834,451.0	960.40				Average	

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point1028	1028	6,765,135.5	1,834,269.2	959.10				Average	
		point1027	1027	6,764,971.0	1,834,092.2	955.20				Average	
		point1026	1026	6,764,829.0	1,833,941.0	948.90				Average	
		point257	257	6,764,659.5	1,833,760.5	940.00				Average	
		point256	256	6,764,508.5	1,833,600.0	932.10				Average	
		point255	255	6,764,369.5	1,833,452.8	925.10				Average	
		point254	254	6,764,184.0	1,833,255.2	919.20				Average	
		point253	253	6,764,018.5	1,833,072.5	917.90				Average	
		point252	252	6,763,856.5	1,832,885.2	916.80				Average	
		point251	251	6,763,703.5	1,832,694.2	916.00				Average	
		point250	250	6,763,553.5	1,832,493.9	915.20				Average	
		point436	436	6,763,365.5	1,832,244.2	915.20					
Barton EB (Cadena to Grand Terrace)	14.0	point260	260	6,764,014.5	1,835,366.6	953.90				Average	
		point421	421	6,764,147.0	1,835,365.1	953.00				Average	
		point259	259	6,764,493.0	1,835,375.4	965.50				Average	
		point258	258	6,764,792.5	1,835,372.9	979.70					
Barton EB (Cadena to Grand Terrace)	16.0	point2022	2022	6,764,792.5	1,835,372.9	979.70				Average	
		point2021	2021	6,764,806.5	1,835,373.2	979.70				Average	
		point2020	2020	6,764,908.0	1,835,374.0	976.50				Average	
		point2019	2019	6,764,989.5	1,835,373.2	973.60				Average	
		point1071	1071	6,765,075.5	1,835,374.1	972.30				Average	
		point1070	1070	6,765,206.0	1,835,365.1	970.30				Average	
		point1069	1069	6,765,342.5	1,835,358.8	974.00					
Barton EB (Grand Terrace to SB Ramps)	36.0	point2025	2025	6,765,342.5	1,835,358.8	974.00	Signal	0.00	100	Average	
		point1075	1075	6,765,437.5	1,835,359.5	975.00				Average	
		point1478	1478	6,765,505.5	1,835,360.0	976.00				Average	
		point1479	1479	6,765,606.5	1,835,361.4	978.00				Average	
		point1074	1074	6,765,706.0	1,835,362.4	980.00				Average	
		point1073	1073	6,765,800.0	1,835,362.4	982.00					
Barton EB (SB Ramps to NB Ramps)	24.0	point1076	1076	6,765,800.0	1,835,362.4	979.00	Signal	0.00	100	Average	Y
		point2027	2027	6,765,867.5	1,835,361.1	981.17				Average	Y
		point2028	2028	6,765,921.0	1,835,360.0	983.33				Average	Y
		point313	424	6,765,995.5	1,835,358.8	985.50				Average	Y
		point312	312	6,766,047.0	1,835,359.5	989.00					
Barton EB (SB Ramps to NB Ramps)	36.0	point2023	2023	6,766,047.5	1,835,365.1	987.00				Average	Y
		point1077	1077	6,766,105.5	1,835,365.5	988.50				Average	Y
		point399	399	6,766,206.5	1,835,366.8	989.00				Average	Y
		point403	403	6,766,306.0	1,835,368.1	990.00				Average	Y
		point404	404	6,766,394.5	1,835,368.5	990.00					

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

Barton EB (NB Ramps to Commerce)	24.0	point2024	2024	6,766,394.5	1,835,368.5	990.00	Signal	0.00	100	Average	
		point400	400	6,766,418.0	1,835,369.8	990.00				Average	
		point1486	1486	6,766,506.0	1,835,363.0	990.00				Average	
		point1487	1487	6,766,606.0	1,835,364.6	989.00				Average	
		point406	406	6,766,705.5	1,835,366.1	988.10				Average	
		point407	407	6,766,806.0	1,835,367.6	990.00				Average	
		point326	326	6,766,907.0	1,835,368.6	991.50				Average	
		point325	325	6,767,006.5	1,835,368.6	994.00				Average	
		point324	324	6,767,105.0	1,835,370.8	996.00				Average	
		point323	323	6,767,179.5	1,835,369.5	998.00					
Barton EB (East of Commerce)	24.0	point1090	1090	6,767,179.5	1,835,369.5	998.00	Signal	0.00	100	Average	
		point1494	1494	6,767,226.0	1,835,369.2	998.60				Average	
		point1495	1495	6,767,271.0	1,835,371.8	998.60				Average	
		point1089	1089	6,767,321.5	1,835,372.9	999.70				Average	
		point1088	1088	6,767,406.0	1,835,373.8	1,002.00				Average	
		point1087	1087	6,767,506.0	1,835,375.1	1,003.60				Average	
		point1086	1086	6,767,608.0	1,835,379.5	1,006.50				Average	
		point1085	1085	6,767,706.5	1,835,389.0	1,008.50				Average	
		point1084	1084	6,767,806.5	1,835,392.8	1,011.20				Average	
		point1083	1083	6,767,906.0	1,835,393.2	1,013.50				Average	
		point1082	1082	6,768,006.0	1,835,394.9	1,016.00				Average	
		point1081	1081	6,768,106.5	1,835,396.1	1,018.50				Average	
		point1080	1080	6,768,206.0	1,835,396.6	1,021.00				Average	
		point1079	1079	6,768,306.0	1,835,397.8	1,024.00				Average	
		point1078	1078	6,768,405.5	1,835,398.2	1,026.50				Average	
		point333	333	6,768,505.5	1,835,399.5	1,029.40				Average	
		point332	332	6,768,743.5	1,835,397.5	1,029.40				Average	
		point331	331	6,768,981.5	1,835,401.2	1,029.40				Average	
		point330	330	6,769,183.0	1,835,402.8	1,029.40				Average	
		point329	329	6,769,419.0	1,835,404.5	1,029.40				Average	
		point328	328	6,769,596.0	1,835,403.5	1,029.40					
Barton WB (Cadena to Grand Terrace)	14.0	point337	337	6,764,792.0	1,835,392.9	980.00				Average	
		point336	336	6,764,491.5	1,835,388.1	965.40				Average	
		point335	335	6,764,147.5	1,835,388.1	953.50				Average	
		point334	334	6,764,014.5	1,835,393.6	953.90					
Barton WB (Cadena to Grand Terrace)	16.0	point1111	1111	6,765,206.5	1,835,396.0	970.30				Average	
		point1474	1474	6,765,074.0	1,835,391.2	972.50				Average	
		point1475	1475	6,764,988.5	1,835,389.2	973.60				Average	
		point338	338	6,764,907.0	1,835,390.6	976.50				Average	

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point411	411	6,764,806.5	1,835,391.2	980.00				Average	
		point410	410	6,764,792.0	1,835,392.9	980.00					
Barton WB (Cadena to Grand Terrace)	36.0	point344	344	6,765,437.0	1,835,404.2	975.00	Signal	0.00	100	Average	
		point2033	2033	6,765,394.0	1,835,403.9	974.70				Average	
		point2034	2034	6,765,377.0	1,835,403.6	974.30				Average	
		point2029	2029	6,765,342.0	1,835,403.2	974.00				Average	
		point2030	2030	6,765,206.5	1,835,396.0	970.30					
Barton WB (Grand Terrace to SB Ramp)	36.0	point1118	1118	6,765,605.5	1,835,407.2	978.00				Average	
		point1482	1482	6,765,505.5	1,835,405.1	976.00				Average	
		point1483	1483	6,765,437.0	1,835,404.2	975.00					
Barton WB (Grand Terrace to SB Ramps)	24.0	point2032	2032	6,765,994.0	1,835,400.0	985.50	Signal	0.00	100	Average	Y
		point1991	1991	6,765,930.0	1,835,401.2	984.00				Average	
		point1990	1990	6,765,873.0	1,835,400.2	984.00				Average	
		point1989	1989	6,765,800.5	1,835,398.2	982.00				Average	
		point1988	1988	6,765,706.5	1,835,397.4	980.00				Average	
		point372	372	6,765,606.5	1,835,398.2	978.00					
Barton WB (SB Ramps to NB Ramps)	36.0	point2031	2031	6,766,503.5	1,835,405.6	990.00	Signal	0.00	100	Average	Y
		point1121	1121	6,766,462.5	1,835,406.2	990.00				Average	Y
		point1490	1490	6,766,393.5	1,835,412.1	990.00				Average	Y
		point1491	1491	6,766,305.5	1,835,416.1	990.00				Average	Y
		point381	381	6,766,206.0	1,835,414.8	989.00				Average	Y
		point382	382	6,766,105.5	1,835,413.5	988.00				Average	Y
		point383	383	6,765,994.0	1,835,413.1	988.00					
Barton WB (NB Ramps to Commerce)	36.0	point388	388	6,766,737.5	1,835,408.8	988.10				Average	
		point387	387	6,766,705.5	1,835,408.8	988.10				Average	
		point386	386	6,766,605.0	1,835,407.2	989.00				Average	
		point385	385	6,766,503.5	1,835,405.6	990.00					
Vivienda Ct WB	14.0	point1467	1467	6,765,734.0	1,837,004.4	979.20	Stop	0.00	100	Average	
		point1466	1466	6,765,713.5	1,837,015.4	978.00				Average	
		point1166	1166	6,765,701.5	1,837,021.2	978.60				Average	
		point392	392	6,765,684.5	1,837,028.4	978.30				Average	
		point391	391	6,765,524.0	1,837,110.9	978.30				Average	
		point390	390	6,765,433.5	1,837,135.9	978.30				Average	
		point389	389	6,765,249.5	1,837,200.4	978.30					
Vivienda Ct WB	14.0	point395	395	6,766,821.5	1,836,349.1	999.00				Average	
		point394	394	6,766,387.5	1,836,610.4	992.00				Average	
		point393	393	6,765,952.0	1,836,871.0	985.30				Average	
		point418	418	6,765,734.0	1,837,004.4	979.20					
Vivienda Ct WB	20.0	point1123	1123	6,767,374.5	1,836,033.4	1,006.40				Average	



**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point440	440	6,767,360.0	1,836,041.5	1,006.50				Average
		point457	457	6,767,204.0	1,836,136.2	1,007.50				Average
		point458	458	6,767,103.0	1,836,197.5	1,003.60				
Vivienda Ct EB	14.0	point693	693	6,765,246.0	1,837,187.5	978.40				Average
		point82	82	6,765,431.5	1,837,127.8	978.40				Average
		point81	81	6,765,520.0	1,837,101.2	978.40				Average
		point80	80	6,765,681.0	1,837,018.0	978.40				
Vivienda Ct EB	14.0	point1469	1469	6,765,681.0	1,837,018.0	978.40	Stop	0.00	100	Average
		point1468	1468	6,765,697.0	1,837,009.1	978.80				Average
		point698	698	6,765,707.0	1,837,002.5	978.70				Average
		point45	45	6,765,726.0	1,836,994.4	979.60				Average
		point44	44	6,765,946.5	1,836,861.4	985.30				Average
		point43	43	6,766,385.0	1,836,601.9	992.00				Average
		point42	42	6,766,821.5	1,836,338.2	999.00				
Vivienda Ct EB	20.0	point1145	1145	6,767,094.0	1,836,184.8	1,003.60				Average
		point1144	1144	6,767,197.5	1,836,120.8	1,007.50				Average
		point1143	1143	6,767,352.0	1,836,022.4	1,006.50				Average
		point1142	1142	6,767,370.0	1,836,012.4	1,004.70				
Vivienda NB	32.0	point1492	1492	6,767,280.5	1,835,407.9	998.60				Average
		point1154	1154	6,767,292.0	1,835,458.1	1,002.00				Average
		point1153	1153	6,767,330.0	1,835,667.5	1,003.20				Average
		point1152	1152	6,767,372.0	1,835,924.6	1,004.50				Average
		point1151	1151	6,767,431.0	1,836,204.8	1,010.00				Average
		point1150	1150	6,767,464.0	1,836,350.5	1,010.50				Average
		point1149	1149	6,767,489.5	1,836,404.0	1,011.00				Average
		point1148	1148	6,767,538.0	1,836,447.5	1,011.30				Average
		point1147	1147	6,767,570.5	1,836,450.9	1,011.30				Average
		point1146	1146	6,767,603.5	1,836,483.4	1,011.70				
Vivienda SB	32.0	point1165	1165	6,767,587.0	1,836,506.8	1,011.40				Average
		point1164	1164	6,767,541.0	1,836,484.5	1,011.00				Average
		point1163	1163	6,767,524.5	1,836,463.8	1,011.00				Average
		point1162	1162	6,767,474.5	1,836,413.6	1,010.50				Average
		point1161	1161	6,767,444.0	1,836,358.0	1,010.50				Average
		point1160	1160	6,767,414.0	1,836,206.2	1,009.80				Average
		point1159	1159	6,767,392.5	1,836,112.9	1,008.10				Average
		point1158	1158	6,767,374.5	1,836,033.4	1,006.40				Average
		point1157	1157	6,767,370.0	1,836,012.4	1,004.70				Average
		point1156	1156	6,767,298.5	1,835,670.8	1,003.30				Average
		point1493	1493	6,767,260.5	1,835,457.4	1,001.30				Average

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point1155	1155	6,767,247.0	1,835,407.6	998.60					
Commerce NB	36.0	point1179	1179	6,765,969.0	1,834,734.2	971.00				Average	
		point1178	1178	6,766,050.0	1,834,794.6	971.00				Average	
		point1177	1177	6,766,132.5	1,834,844.0	972.30				Average	
		point1176	1176	6,766,315.5	1,834,922.8	973.30				Average	
		point1175	1175	6,766,604.5	1,834,970.1	977.50				Average	
		point1174	1174	6,766,913.0	1,834,972.6	985.00				Average	
		point1173	1173	6,766,951.5	1,834,975.2	985.70				Average	
		point1172	1172	6,766,979.0	1,834,975.8	986.40				Average	
		point1470	1470	6,767,001.0	1,834,978.8	987.00				Average	
		point1471	1471	6,767,116.5	1,835,036.1	989.50				Average	
		point1171	1171	6,767,220.0	1,835,166.9	993.00				Average	
		point1170	1170	6,767,258.0	1,835,315.8	997.00				Average	
		point1169	1169	6,767,271.0	1,835,371.8	998.60					
Commerce SB	36.0	point1180	1180	6,767,226.0	1,835,369.2	998.60				Average	
		point1496	1496	6,767,206.0	1,835,309.1	997.00				Average	
		point1181	1181	6,767,179.0	1,835,180.2	993.00				Average	
		point1182	1182	6,767,094.5	1,835,072.2	989.50				Average	
		point1183	1183	6,766,999.5	1,835,025.0	987.00				Average	
		point1184	1184	6,766,913.5	1,835,021.2	985.00				Average	
		point1185	1185	6,766,604.0	1,835,006.1	977.50				Average	
		point1186	1186	6,766,304.5	1,834,956.2	973.30				Average	
		point1187	1187	6,766,118.0	1,834,875.8	972.30				Average	
		point1188	1188	6,766,034.0	1,834,815.8	971.00				Average	
		point1189	1189	6,765,955.5	1,834,753.8	971.00					
Newport WB	12.0	point1192	1192	6,768,168.5	1,837,048.9	1,028.00				Average	
		point1193	1193	6,768,095.5	1,837,089.5	1,028.00				Average	
		point1194	1194	6,767,954.5	1,837,171.9	1,026.80				Average	Y
		point1195	1195	6,767,801.0	1,837,261.8	1,025.70				Average	
		point1196	1196	6,767,549.0	1,837,409.4	1,023.30				Average	
		point1197	1197	6,767,275.5	1,837,569.2	1,021.00					
Newport EB	12.0	point1203	1203	6,767,271.0	1,837,561.9	1,021.00				Average	
		point1202	1202	6,767,544.5	1,837,402.0	1,023.30				Average	
		point1201	1201	6,767,796.5	1,837,254.2	1,025.70				Average	Y
		point1200	1200	6,767,950.0	1,837,164.5	1,026.80				Average	
		point1199	1199	6,768,091.0	1,837,082.1	1,028.00				Average	
		point1198	1198	6,768,164.0	1,837,041.5	1,028.00					
Barton NB Off Ramp	30.0	point1225	1225	6,765,081.0	1,834,084.5	955.00				Average	
		point1224	1224	6,765,179.5	1,834,200.4	955.00				Average	

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point1223	1223	6,765,279.5	1,834,307.6	957.00				Average
		point1222	1222	6,765,429.0	1,834,443.1	959.50				Average
		point1221	1221	6,765,503.5	1,834,510.8	959.70				Average
		point1220	1220	6,765,577.0	1,834,578.2	960.30				Average
		point1219	1219	6,765,650.5	1,834,644.8	960.70				Average
		point1218	1218	6,765,725.0	1,834,712.8	961.00				Average
		point1217	1217	6,765,799.0	1,834,780.0	963.00				Average
		point1216	1216	6,765,874.0	1,834,844.9	966.40				Average
		point1215	1215	6,765,954.0	1,834,901.9	970.00				Average
		point1214	1214	6,766,040.0	1,834,952.2	973.00				Average
		point1213	1213	6,766,127.5	1,835,003.4	977.00				Average
		point1212	1212	6,766,214.0	1,835,053.2	980.00				Average
		point1211	1211	6,766,297.5	1,835,111.0	984.50				Average
		point1210	1210	6,766,366.5	1,835,186.1	986.50				Average
		point1209	1209	6,766,397.0	1,835,280.2	987.50				Average
		point1208	1208	6,766,407.0	1,835,325.2	989.00				Average
		point1207	1207	6,766,418.0	1,835,369.8	990.00				
Michigan NB	28.0	point1355	1355	6,766,988.0	1,834,055.4	991.30				Average
		point1354	1354	6,766,985.0	1,834,125.2	991.30				Average
		point1353	1353	6,766,983.5	1,834,511.9	991.30				Average
		point1352	1352	6,766,981.0	1,834,720.1	992.10				Average
		point1351	1351	6,766,979.0	1,834,975.8	986.40				
Michigan NB	24.0	point2026	2026	6,767,009.0	1,832,948.9	991.30				Average
		point1359	1359	6,767,001.0	1,833,231.8	991.30				Average
		point1358	1358	6,766,993.5	1,833,648.6	991.30				Average
		point1357	1357	6,766,988.0	1,834,055.4	991.30				
Michigan SB	28.0	point1363	1363	6,766,951.5	1,834,975.2	985.70				Average
		point1362	1362	6,766,956.0	1,834,719.2	992.40				Average
		point1361	1361	6,766,958.0	1,834,514.4	991.20				Average
		point1360	1360	6,766,960.5	1,834,125.5	991.20				
Michigan SB	24.0	point1372	1372	6,766,963.5	1,834,126.0	991.20				Average
		point1371	1371	6,766,964.0	1,834,054.5	991.20				Average
		point1370	1370	6,766,976.0	1,833,647.6	991.20				Average
		point1369	1369	6,766,982.5	1,833,230.0	991.20				Average
		point1368	1368	6,766,983.5	1,832,948.8	991.20				
La Crosse NB	16.0	point1400	1400	6,765,466.0	1,834,747.4	966.00				Average
		point1399	1399	6,765,639.0	1,834,951.2	969.00				Average
		point1398	1398	6,765,719.0	1,835,047.8	971.00				Average
		point1397	1397	6,765,795.0	1,835,143.9	975.00				Average

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point1396	1396	6,765,869.5	1,835,255.9	980.00				Average
		point1395	1395	6,765,921.0	1,835,360.0	983.30				
La Crosse SB	16.0	point1480	1480	6,765,867.5	1,835,361.1	981.20				Average
		point1402	1402	6,765,848.0	1,835,263.8	980.00				Average
		point1403	1403	6,765,783.5	1,835,151.5	975.00				Average
		point1404	1404	6,765,708.5	1,835,054.6	970.50				Average
		point1405	1405	6,765,626.0	1,834,958.0	969.00				Average
		point1406	1406	6,765,457.5	1,834,753.8	964.50				
Grand Terrace NB	20.0	point1477	1477	6,765,394.0	1,835,403.9	974.70				Average
		point1462	1462	6,765,400.5	1,835,438.6	973.00				Average
		point1461	1461	6,765,426.5	1,835,582.0	971.00				Average
		point1429	1429	6,765,464.5	1,835,756.8	971.00				Average
		point1428	1428	6,765,515.5	1,836,008.1	972.00				Average
		point1427	1427	6,765,566.5	1,836,269.1	974.00				Average
		point1426	1426	6,765,596.5	1,836,448.8	976.00				Average
		point1425	1425	6,765,696.5	1,836,976.8	979.30				
Grand Terrace NB	18.0	point1439	1439	6,765,696.5	1,836,976.8	979.30	Stop	0.00	100	Average
		point1438	1438	6,765,707.0	1,837,002.5	978.70				Average
		point1437	1437	6,765,713.5	1,837,015.4	978.00				Average
		point1436	1436	6,765,725.5	1,837,037.5	977.40				Average
		point1435	1435	6,765,777.5	1,837,150.5	969.50				Average
		point1434	1434	6,765,800.5	1,837,183.2	969.50				Average
		point1433	1433	6,765,829.5	1,837,210.5	969.50				Average
		point1432	1432	6,765,853.0	1,837,247.2	969.50				Average
		point1431	1431	6,765,892.0	1,837,349.2	969.50				Average
		point1430	1430	6,765,991.0	1,837,558.8	969.50				
Grand Terrace SB	20.0	point1440	1440	6,765,711.0	1,837,042.0	977.10	Stop	0.00	100	Average
		point1472	1472	6,765,701.5	1,837,021.2	978.60				Average
		point1473	1473	6,765,697.0	1,837,009.1	978.80				Average
		point1441	1441	6,765,687.5	1,836,981.9	979.30				Average
		point1442	1442	6,765,583.0	1,836,449.9	976.00				Average
		point1443	1443	6,765,546.5	1,836,273.5	975.00				Average
		point1444	1444	6,765,495.5	1,836,012.1	974.00				Average
		point1445	1445	6,765,443.0	1,835,759.0	973.70				Average
		point1446	1446	6,765,412.0	1,835,584.8	973.00				Average
		point1447	1447	6,765,384.0	1,835,438.9	972.00				Average
		point1448	1448	6,765,377.0	1,835,403.6	974.30				
Grand Terrace SB	18.0	point1460	1460	6,765,977.0	1,837,563.9	968.90				Average
		point1459	1459	6,765,879.5	1,837,352.8	968.90				Average

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point1458	1458	6,765,839.5	1,837,252.1	968.90				Average
		point1457	1457	6,765,817.5	1,837,216.2	968.90				Average
		point1456	1456	6,765,789.5	1,837,190.9	968.90				Average
		point1455	1455	6,765,764.0	1,837,157.6	968.90				Average
		point1454	1454	6,765,711.0	1,837,042.0	977.10				
Barton NB On Ramp	14.0	point1538	1538	6,766,462.5	1,835,406.2	990.00	Onramp	35.00	100	Average
		point1537	1537	6,766,465.0	1,835,462.8	989.00				Average
		point1536	1536	6,766,490.5	1,835,510.2	988.00				Average
		point1535	1535	6,766,550.0	1,835,589.2	985.00				Average
		point1534	1534	6,766,610.5	1,835,669.2	983.50				Average
		point1533	1533	6,766,672.5	1,835,748.2	983.00				Average
		point1532	1532	6,766,734.5	1,835,827.2	983.40				Average
		point1531	1531	6,766,787.0	1,835,914.8	985.00				Average
		point1530	1530	6,766,853.5	1,835,990.2	987.00				Average
		point1529	1529	6,766,919.0	1,836,064.9	991.70				Average
		point1528	1528	6,766,986.0	1,836,139.1	994.80				Average
		point1527	1527	6,767,049.0	1,836,212.5	998.00				Average
		point1526	1526	6,767,116.5	1,836,291.1	1,000.20				Average
		point1525	1525	6,767,183.0	1,836,365.9	1,002.00				Average
		point1524	1524	6,767,250.5	1,836,440.8	1,003.00				Average
		point1523	1523	6,767,304.0	1,836,500.9	1,004.80				Average
		point1522	1522	6,767,419.0	1,836,628.2	1,006.20				Average
		point1521	1521	6,767,579.0	1,836,802.9	1,006.90				Average
		point1520	1520	6,767,729.5	1,836,965.6	1,007.10				Average
		point1519	1519	6,767,886.0	1,837,132.9	1,007.00				Average
		point1518	1518	6,768,057.5	1,837,318.9	1,004.90				Average
		point1517	1517	6,768,209.0	1,837,481.0	1,002.00				Average
		point1516	1516	6,768,390.5	1,837,677.2	998.40				Average
		point1515	1515	6,768,541.5	1,837,840.1	995.40				Average
		point1514	1514	6,768,698.5	1,838,000.9	993.00				Average
		point1513	1513	6,768,847.0	1,838,142.5	990.00				Average
		point1512	1512	6,769,004.5	1,838,291.0	985.00				Average
		point1511	1511	6,769,176.0	1,838,439.2	979.50				Average
		point1510	1510	6,769,356.0	1,838,594.1	973.60				Average
		point1509	1509	6,769,549.5	1,838,756.2	966.40				
Barton Median	30.0	point1612	1612	6,764,806.5	1,835,379.9	979.70				Average
		point1623	1623	6,764,907.5	1,835,380.8	976.50				Average
		point1624	1624	6,764,989.0	1,835,381.0	973.60				Average
		point1625	1625	6,765,075.0	1,835,382.5	972.50				Average

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point1622	1622	6,765,206.5	1,835,383.2	970.30				Average	
		point1620	1620	6,765,343.0	1,835,385.2	974.00				Average	
		point1621	1621	6,765,437.5	1,835,385.9	975.00				Average	
		point1611	1611	6,765,505.5	1,835,387.0	976.00				Average	
		point1610	1610	6,765,643.5	1,835,381.1	981.00				Average	
		point1609	1609	6,765,800.5	1,835,380.8	982.00				Average	Y
		point1608	1608	6,766,006.0	1,835,383.1	986.00				Average	Y
		point1607	1607	6,766,105.5	1,835,383.4	988.00				Average	Y
		point1606	1606	6,766,205.5	1,835,385.0	989.00				Average	Y
		point1605	1605	6,766,306.0	1,835,386.5	990.00				Average	Y
		point1604	1604	6,766,394.5	1,835,387.4	990.00				Average	Y
		point1603	1603	6,766,524.0	1,835,389.1	989.50				Average	
		point1602	1602	6,766,738.5	1,835,391.1	988.10				Average	
		point1601	1601	6,766,806.5	1,835,391.2	990.00				Average	
		point1600	1600	6,766,906.5	1,835,392.4	991.50				Average	
		point1599	1599	6,767,006.0	1,835,391.8	994.00				Average	
		point1598	1598	6,767,105.5	1,835,394.4	996.00				Average	
		point1597	1597	6,767,195.0	1,835,395.4	998.00				Average	
		point1596	1596	6,767,322.5	1,835,396.4	999.70				Average	
		point1595	1595	6,767,406.0	1,835,397.0	1,002.00				Average	
		point1594	1594	6,767,506.0	1,835,398.5	1,003.60				Average	
		point1593	1593	6,767,606.0	1,835,400.1	1,006.50				Average	
		point1592	1592	6,767,705.5	1,835,406.6	1,008.50				Average	
		point1591	1591	6,767,805.5	1,835,410.4	1,011.20				Average	
		point1590	1590	6,767,905.5	1,835,411.5	1,013.50				Average	
		point1589	1589	6,768,005.5	1,835,412.4	1,016.00				Average	
		point1588	1588	6,768,105.5	1,835,413.0	1,018.50				Average	
		point1587	1587	6,768,205.5	1,835,414.2	1,021.00				Average	
		point1586	1586	6,768,305.0	1,835,415.8	1,024.00				Average	
		point1585	1585	6,768,405.0	1,835,416.6	1,026.50				Average	
		point1584	1584	6,768,505.5	1,835,417.5	1,029.40				Average	
		point1583	1583	6,768,743.0	1,835,415.4	1,029.40				Average	
		point1582	1582	6,768,979.5	1,835,416.8	1,029.40				Average	
		point1581	1581	6,769,182.5	1,835,419.5	1,029.40				Average	
		point1580	1580	6,769,420.5	1,835,421.2	1,029.40				Average	
		point1579	1579	6,769,596.0	1,835,423.5	1,029.40					
Commerce Median	24.0	point1618	1618	6,766,604.5	1,834,987.9	977.50				Average	
		point1617	1617	6,766,913.0	1,834,992.2	985.00				Average	
		point1616	1616	6,766,999.5	1,835,000.9	987.00				Average	

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point1615	1615	6,767,107.0	1,835,052.9	989.50				Average
		point1614	1614	6,767,202.5	1,835,171.9	993.00				Average
		point1619	1619	6,767,237.0	1,835,313.1	997.00				Average
		point1613	1613	6,767,248.0	1,835,370.2	998.60				
Barton SB Off Ramp	25.0	point1731	1731	6,767,307.5	1,836,659.5	1,005.00				Average
		point1732	1732	6,767,236.5	1,836,583.5	1,004.50				Average
		point1733	1733	6,767,168.5	1,836,513.6	1,003.20				Average
		point1734	1734	6,767,095.0	1,836,448.9	1,001.40				Average
		point1735	1735	6,767,021.0	1,836,381.8	999.10				Average
		point1736	1736	6,766,946.5	1,836,314.5	997.00				Average
		point1737	1737	6,766,872.0	1,836,246.8	995.50				Average
		point1738	1738	6,766,799.0	1,836,179.8	999.30				Average
		point1739	1739	6,766,721.0	1,836,118.0	990.50				Average
		point1740	1740	6,766,634.0	1,836,070.8	989.00				Average
		point1741	1741	6,766,541.5	1,836,039.2	986.50				Average
		point1742	1742	6,766,444.5	1,836,014.2	984.00				Average
		point1743	1743	6,766,348.5	1,835,988.4	982.00				Average
		point1744	1744	6,766,251.5	1,835,963.8	980.00				Average
		point1745	1745	6,766,149.0	1,835,949.1	978.60				Average
		point1746	1746	6,766,058.5	1,835,897.5	978.00				Average
		point1747	1747	6,765,987.0	1,835,815.6	978.00				Average
		point1748	1748	6,765,953.0	1,835,717.6	979.00				Average
		point1749	1749	6,765,928.5	1,835,620.8	981.00				Average
		point1750	1750	6,765,903.5	1,835,523.6	982.00				Average
		point1751	1751	6,765,885.0	1,835,452.8	981.80				Average
		point1752	1752	6,765,872.5	1,835,407.1	984.00				
Barton SB On Ramp	30.0	point1899	1899	6,766,230.0	1,835,608.1	963.00	Onramp	35.00	100	Average
		point1332	1332	6,766,164.5	1,835,532.8	958.80				Average
		point1333	1333	6,766,100.5	1,835,458.8	960.00				Average
		point1334	1334	6,766,034.5	1,835,382.2	959.80				Average
		point1335	1335	6,765,970.5	1,835,306.6	960.00				Average
		point1336	1336	6,765,906.5	1,835,227.2	960.50				Average
		point1337	1337	6,765,850.0	1,835,144.8	961.00				Average
		point1338	1338	6,765,787.0	1,835,067.4	961.50				Average
		point1339	1339	6,765,725.5	1,834,986.5	961.30				Average
		point1340	1340	6,765,665.0	1,834,908.9	961.20				Average
		point1341	1341	6,765,601.5	1,834,832.1	961.00				Average
		point1342	1342	6,765,534.5	1,834,756.9	960.00				Average
		point1343	1343	6,765,469.0	1,834,681.5	960.50				Average

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point1344	1344	6,765,342.5	1,834,536.9	959.20				Average
		point1345	1345	6,765,278.5	1,834,460.8	958.90				Average
		point1485	1485	6,765,211.0	1,834,386.1	958.60				Average
		point1346	1346	6,765,144.5	1,834,311.4	958.60				Average
		point1558	1886	6,765,092.5	1,834,251.1	958.70				Average
		point1557	1887	6,764,964.5	1,834,113.2	954.80				Average
		point1556	1888	6,764,823.5	1,833,962.4	948.40				Average
		point1555	1889	6,764,650.5	1,833,782.9	939.80				Average
		point1554	1890	6,764,501.0	1,833,621.2	932.00				Average
		point1553	1891	6,764,366.5	1,833,478.9	925.50				Average
		point1552	1892	6,764,175.5	1,833,277.1	919.50				Average
		point1551	1893	6,764,009.5	1,833,094.8	918.20				Average
		point1550	1894	6,763,846.5	1,832,905.2	917.10				Average
		point1549	1895	6,763,707.0	1,832,732.8	916.30				Average
		point1577	1896	6,763,536.0	1,832,506.8	915.40				Average
		point1548	1897	6,763,352.5	1,832,260.6	915.40				
Barton SB On Ramp	30.0	point1900	1900	6,765,930.0	1,835,408.1	984.00	Onramp	10.00	100	Average
		point1323	1323	6,765,937.5	1,835,453.4	982.30				Average
		point1324	1324	6,765,966.5	1,835,568.8	981.00				Average
		point1325	1325	6,765,992.5	1,835,667.2	980.00				Average
		point1326	1326	6,766,020.5	1,835,757.0	977.50				Average
		point1327	1327	6,766,082.5	1,835,810.8	977.00				Average
		point1328	1328	6,766,169.5	1,835,816.0	974.50				Average
		point1329	1329	6,766,237.5	1,835,768.5	970.00				Average
		point1866	1866	6,766,260.5	1,835,687.9	966.00				Average
		point1331	1331	6,766,230.0	1,835,608.1	963.00				
I-215 NB HOV	36.0	point1938	1938	6,763,403.5	1,832,218.2	915.20				Average
		point1903	1894	6,763,590.0	1,832,465.5	915.20				Average
		point1904	1904	6,763,739.5	1,832,665.0	915.60				Average
		point1905	1905	6,763,893.5	1,832,857.4	916.50				Average
		point1906	1906	6,764,053.0	1,833,044.1	917.70				Average
		point1907	1907	6,764,220.5	1,833,226.8	919.20				Average
		point1908	1908	6,764,401.0	1,833,421.8	925.20				Average
		point1909	1909	6,764,541.0	1,833,573.0	932.10				Average
		point1910	1910	6,764,691.5	1,833,735.8	940.00				Average
		point1911	1911	6,764,859.5	1,833,916.4	949.00				Average
		point1912	1912	6,765,000.0	1,834,068.5	955.20				Average
		point1913	1913	6,765,163.5	1,834,244.4	959.20				Average
		point1914	1914	6,765,332.5	1,834,426.5	960.40				Average



**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point1915	1915	6,765,514.0	1,834,622.8	961.20				Average
		point1916	1916	6,765,687.5	1,834,809.5	961.90				Average
		point1917	1917	6,765,877.0	1,835,014.1	962.30				Average
		point1918	1918	6,766,037.0	1,835,185.5	962.90				Average
		point1919	1919	6,766,205.5	1,835,367.5	963.00				Average
		point1920	1920	6,766,389.5	1,835,566.2	968.10				Average
		point1921	1921	6,766,557.5	1,835,747.2	976.00				Average
		point1922	1922	6,766,730.0	1,835,932.2	985.00				Average
		point1923	1923	6,766,868.5	1,836,083.5	992.00				Average
		point1924	1924	6,767,032.0	1,836,259.1	999.10				Average
		point1925	1925	6,767,212.5	1,836,453.1	1,004.30				Average
		point1926	1926	6,767,395.0	1,836,650.9	1,006.70				Average
		point1927	1927	6,767,556.0	1,836,824.1	1,006.80				Average
		point1928	1928	6,767,708.0	1,836,987.5	1,007.50				Average
		point1929	1929	6,767,862.0	1,837,154.2	1,007.40				Average
		point1930	1930	6,768,033.5	1,837,338.9	1,004.80				Average
		point1931	1931	6,768,186.5	1,837,503.8	1,002.30				Average
		point1932	1932	6,768,366.5	1,837,697.2	998.70				Average
		point1933	1933	6,768,519.5	1,837,861.4	995.60				Average
		point1934	1934	6,768,676.0	1,838,022.1	993.30				Average
		point1935	1935	6,768,825.0	1,838,165.5	990.10				Average
		point1936	1936	6,768,982.0	1,838,313.1	985.20				Average
		point1937	1937	6,769,154.0	1,838,461.9	979.50				Average
		point1903	1903	6,769,334.0	1,838,616.8	973.70				Average
		point1901	1901	6,769,527.5	1,838,779.1	966.90				
I-215 SB HOV	36.0	point1976	1976	6,769,501.0	1,838,802.5	967.00				Average
		point1940	1940	6,769,306.5	1,838,640.4	973.60				Average
		point1941	1941	6,769,128.5	1,838,487.8	979.80				Average
		point1942	1942	6,768,956.0	1,838,337.6	985.60				Average
		point1943	1943	6,768,799.5	1,838,189.8	990.80				Average
		point1944	1944	6,768,650.5	1,838,045.8	993.50				Average
		point1945	1945	6,768,494.5	1,837,884.5	996.00				Average
		point1946	1946	6,768,338.0	1,837,718.4	998.70				Average
		point1947	1947	6,768,160.5	1,837,526.5	1,002.00				Average
		point1948	1948	6,768,008.5	1,837,361.2	1,004.60				Average
		point1949	1949	6,767,834.5	1,837,174.9	1,007.00				Average
		point1950	1950	6,767,682.0	1,837,010.4	1,007.30				Average
		point1951	1951	6,767,530.5	1,836,847.8	1,007.10				Average
		point1952	1952	6,767,370.0	1,836,674.0	1,006.40				Average

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point1953	1953	6,767,186.0	1,836,475.1	1,004.10				Average
		point1954	1954	6,767,004.5	1,836,279.8	999.10				Average
		point1955	1955	6,766,842.5	1,836,103.0	992.10				Average
		point1956	1956	6,766,705.0	1,835,952.0	984.90				Average
		point1957	1957	6,766,533.5	1,835,764.8	976.10				Average
		point1958	1958	6,766,365.5	1,835,581.6	967.90				Average
		point1959	1959	6,766,153.5	1,835,351.2	963.10				Average
		point1960	1960	6,766,018.0	1,835,204.5	963.00				Average
		point1961	1961	6,765,856.0	1,835,030.1	962.30				Average
		point1962	1962	6,765,666.5	1,834,824.8	961.80				Average
		point1963	1963	6,765,493.5	1,834,639.2	961.20				Average
		point1964	1964	6,765,312.0	1,834,443.2	960.40				Average
		point1965	1965	6,765,143.5	1,834,261.8	959.10				Average
		point1966	1966	6,764,979.5	1,834,084.8	955.20				Average
		point1967	1967	6,764,837.5	1,833,933.4	948.90				Average
		point1968	1968	6,764,668.0	1,833,752.5	940.00				Average
		point1969	1969	6,764,516.5	1,833,592.0	932.10				Average
		point1970	1970	6,764,378.0	1,833,444.5	925.10				Average
		point1971	1971	6,764,192.5	1,833,247.8	919.20				Average
		point1972	1972	6,764,027.0	1,833,064.9	917.90				Average
		point1973	1973	6,763,866.0	1,832,877.9	916.80				Average
		point1974	1974	6,763,712.0	1,832,686.6	916.00				Average
		point1975	1975	6,763,562.0	1,832,486.2	915.20				Average
		point1939	1939	6,763,374.0	1,832,236.8	915.20				
I-215 NB Aux	12.0	point1978	1978	6,763,440.0	1,832,186.9	914.50				Average
		point1979	1979	6,763,627.0	1,832,434.1	914.50				Average
		point1980	1980	6,763,776.5	1,832,634.8	915.10				Average
		point1981	1981	6,763,929.5	1,832,826.0	916.10				Average
		point1982	1982	6,764,088.0	1,833,010.8	917.00				Average
		point1983	1983	6,764,254.5	1,833,194.1	918.50				Average
		point1984	1984	6,764,435.0	1,833,388.2	925.00				Average
		point1985	1985	6,764,576.5	1,833,540.5	932.00				Average
		point1986	1986	6,764,727.5	1,833,704.2	940.00				Average
		point1987	1987	6,764,894.5	1,833,883.6	949.00				Average
		point1977	1977	6,765,036.0	1,834,035.8	955.00				
Barton WB (NB Ramps to Commerce)	24.0	point1993	1993	6,767,323.5	1,835,408.8	999.70				Average
		point1994	1994	6,767,280.5	1,835,407.9	998.60				Average
		point1995	1995	6,767,247.0	1,835,407.6	998.60				Average
		point1996	1996	6,767,201.5	1,835,406.5	998.00				Average

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point1997	1997	6,767,106.0	1,835,405.6	996.00				Average
		point1998	1998	6,767,006.0	1,835,405.1	994.00				Average
		point1999	1999	6,766,906.5	1,835,403.8	991.50				Average
		point2000	2000	6,766,806.0	1,835,403.0	990.00				Average
		point1992	1992	6,766,738.0	1,835,403.0	988.10				
Barton WB (East of Commerce)	24.0	point2002	2002	6,769,595.5	1,835,444.8	1,029.40				Average
		point2003	2003	6,769,418.5	1,835,440.4	1,029.40				Average
		point2004	2004	6,769,181.0	1,835,437.1	1,029.40				Average
		point2005	2005	6,768,981.0	1,835,433.8	1,029.40				Average
		point2006	2006	6,768,743.5	1,835,431.0	1,029.40				Average
		point2007	2007	6,768,505.0	1,835,435.8	1,028.70				Average
		point2008	2008	6,768,405.5	1,835,434.6	1,025.70				Average
		point2009	2009	6,768,304.5	1,835,433.1	1,023.70				Average
		point2010	2010	6,768,205.5	1,835,432.2	1,021.00				Average
		point2011	2011	6,768,105.5	1,835,431.2	1,018.50				Average
		point2012	2012	6,768,005.5	1,835,430.6	1,016.00				Average
		point2013	2013	6,767,905.0	1,835,429.8	1,013.50				Average
		point2014	2014	6,767,805.5	1,835,428.0	1,011.20				Average
		point2015	2015	6,767,705.0	1,835,424.8	1,008.50				Average
		point2016	2016	6,767,605.5	1,835,415.2	1,006.50				Average
		point2017	2017	6,767,505.5	1,835,410.8	1,003.60				Average
		point2018	2018	6,767,405.5	1,835,409.8	1,002.00				Average
		point2001	2001	6,767,323.5	1,835,408.8	999.70				
I-215 NB Lanes 1 & 2	24.0	point965	965	6,763,426.5	1,832,199.9	914.50				Average
		point964	964	6,763,613.5	1,832,447.1	914.50				Average
		point963	963	6,763,763.5	1,832,646.5	915.10				Average
		point962	962	6,763,917.0	1,832,838.2	916.10				Average
		point961	961	6,764,075.5	1,833,023.5	917.00				Average
		point960	960	6,764,242.5	1,833,207.2	918.50				Average
		point959	959	6,764,422.0	1,833,401.6	925.00				Average
		point958	958	6,764,563.5	1,833,553.2	932.00				Average
		point957	957	6,764,713.5	1,833,715.5	940.00				Average
		point956	956	6,764,881.5	1,833,896.2	949.00				Average
		point1629	1629	6,765,022.5	1,834,048.8	955.00				Average
		point954	954	6,765,185.5	1,834,224.4	958.90				Average
		point953	953	6,765,355.0	1,834,406.8	960.20				Average
		point952	952	6,765,536.5	1,834,602.8	960.80				Average
		point951	951	6,765,709.5	1,834,788.9	961.60				Average
		point950	950	6,765,900.0	1,834,994.6	962.10				Average

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point949	949	6,766,058.0	1,835,164.9	962.90				Average
		point1626	1626	6,766,228.0	1,835,348.8	963.20				Average
		point947	947	6,766,412.5	1,835,547.1	968.00				Average
		point946	946	6,766,580.5	1,835,727.4	976.00				Average
		point945	945	6,766,751.5	1,835,912.1	985.00				Average
		point944	944	6,766,891.5	1,836,063.8	992.00				Average
		point943	943	6,767,054.5	1,836,239.2	999.00				Average
		point942	942	6,767,235.5	1,836,433.4	1,004.00				Average
		point941	941	6,767,417.5	1,836,631.0	1,006.20				Average
		point940	940	6,767,578.5	1,836,804.0	1,006.40				Average
		point939	939	6,767,729.0	1,836,966.8	1,007.10				Average
		point938	938	6,767,884.5	1,837,134.2	1,007.00				Average
		point937	937	6,768,057.0	1,837,320.1	1,004.90				Average
		point936	936	6,768,208.0	1,837,482.4	1,002.00				Average
		point935	935	6,768,390.0	1,837,678.5	998.40				Average
		point934	934	6,768,541.0	1,837,841.4	995.40				Average
		point38	38	6,768,698.0	1,838,002.0	993.00				Average
		point37	37	6,768,846.5	1,838,143.8	990.00				Average
		point36	36	6,769,004.0	1,838,292.2	985.00				Average
		point35	35	6,769,175.5	1,838,440.5	979.50				Average
		point34	34	6,769,355.5	1,838,595.4	973.60				Average
		point33	33	6,769,549.0	1,838,757.5	966.40				
I-215 SB Lanes 1 & 2	24.0	point1025	1025	6,769,477.5	1,838,823.0	966.50				Average
		point1024	1024	6,769,284.0	1,838,661.8	973.10				Average
		point1023	1023	6,769,106.0	1,838,508.8	979.80				Average
		point1022	1022	6,768,933.5	1,838,359.0	985.80				Average
		point1021	1021	6,768,779.0	1,838,210.1	991.00				Average
		point1020	1020	6,768,629.5	1,838,067.2	994.00				Average
		point1019	1019	6,768,473.5	1,837,908.0	996.50				Average
		point1018	1018	6,768,316.5	1,837,739.8	998.70				Average
		point1017	1017	6,768,138.5	1,837,547.4	1,001.90				Average
		point1016	1016	6,767,986.0	1,837,383.0	1,004.80				Average
		point1015	1015	6,767,812.5	1,837,195.1	1,006.90				Average
		point1014	1014	6,767,660.0	1,837,030.8	1,007.10				Average
		point1628	1628	6,767,508.5	1,836,867.2	1,006.70				Average
		point1012	1012	6,767,347.0	1,836,693.6	1,006.20				Average
		point1011	1011	6,767,163.0	1,836,494.9	1,004.00				Average
		point1010	1010	6,766,982.0	1,836,299.6	998.90				Average
		point1009	1009	6,766,821.5	1,836,122.1	992.00				Average

**INPUT: ROADWAYS**

**I-215/Barton Road Interchange**

		point1008	1008	6,766,683.5	1,835,971.6	984.50				Average	
		point1007	1007	6,766,513.0	1,835,784.2	976.00				Average	
		point1006	1006	6,766,345.0	1,835,600.4	967.80				Average	
		point1627	1627	6,766,133.0	1,835,369.0	963.30				Average	
		point1004	1004	6,765,997.5	1,835,223.2	962.80				Average	
		point1003	1003	6,765,836.0	1,835,048.6	962.20				Average	
		point1002	1002	6,765,645.5	1,834,843.9	961.70				Average	
		point1001	1001	6,765,473.0	1,834,658.0	960.90				Average	
		point1000	1000	6,765,291.5	1,834,462.1	960.40				Average	
		point999	999	6,765,123.5	1,834,281.1	958.70				Average	
		point998	998	6,764,959.0	1,834,103.5	954.80				Average	
		point997	997	6,764,817.5	1,833,952.8	948.40				Average	
		point996	996	6,764,647.5	1,833,772.5	939.80				Average	
		point157	157	6,764,496.0	1,833,612.2	932.00				Average	
		point156	156	6,764,357.5	1,833,465.8	925.50				Average	
		point155	155	6,764,170.0	1,833,267.6	919.50				Average	
		point154	154	6,764,004.0	1,833,085.2	918.20				Average	
		point153	153	6,763,841.5	1,832,895.2	917.10				Average	
		point152	152	6,763,689.0	1,832,704.4	916.30				Average	
		point151	151	6,763,537.0	1,832,505.9	915.40				Average	
		point150	150	6,763,353.0	1,832,259.9	915.40					

**INPUT: TERRAIN LINES**

**I-215/Barton Road Interchange**

LSA Associates, Inc.			16 February 2012	
Teak Kim			TNM 2.5	
<b>INPUT: TERRAIN LINES</b>				
<b>PROJECT/CONTRACT:</b>	<b>I-215/Barton Road Interchange</b>			
<b>RUN:</b>	<b>ALT 7</b>			
<b>Terrain Line</b>	<b>Points</b>			
<b>Name</b>	<b>No.</b>	<b>Coordinates (ground)</b>		
		<b>X</b>	<b>Y</b>	<b>Z</b>
		ft	ft	ft
Terrain Line7	14	6,766,044.0	1,835,121.5	965.00
	15	6,766,207.0	1,835,265.2	975.00
	125	6,766,242.5	1,835,299.6	978.00
	126	6,766,278.5	1,835,333.9	981.00
Terrain Line10	39	6,767,978.0	1,837,172.2	1,025.00
	40	6,768,233.0	1,837,429.4	1,029.00
	41	6,768,377.0	1,837,567.2	1,034.00
	42	6,768,576.0	1,837,758.8	1,041.00
	43	6,768,746.5	1,837,915.9	1,045.00
	44	6,768,841.5	1,838,004.2	1,047.00
Terrain Line2	45	6,764,494.0	1,832,926.2	924.00
	46	6,764,638.5	1,833,187.1	925.00
	47	6,764,766.0	1,833,421.2	930.00
	48	6,765,012.5	1,833,853.2	925.00
	49	6,765,106.5	1,834,048.0	926.00
Terrain Line3	50	6,764,705.0	1,833,226.8	918.00
	51	6,764,789.0	1,833,305.8	927.00
	52	6,764,855.0	1,833,425.2	930.00
	53	6,764,934.0	1,833,562.2	932.00
	54	6,765,013.5	1,833,712.8	933.00
	55	6,765,116.0	1,833,891.8	934.00
	56	6,765,261.0	1,834,037.8	935.00
Terrain Line4	57	6,764,490.5	1,832,773.4	942.00
	58	6,764,662.5	1,833,022.9	942.00

**INPUT: TERRAIN LINES**

**I-215/Barton Road Interchange**

	59	6,764,786.0	1,833,228.0	941.00
	60	6,764,916.0	1,833,469.8	948.00
	61	6,765,021.5	1,833,646.2	950.00
	62	6,765,132.5	1,833,841.2	953.00
	63	6,765,197.5	1,833,923.8	955.00
	64	6,765,284.5	1,834,005.1	958.00
	65	6,765,341.0	1,834,033.8	958.00
	66	6,765,352.5	1,833,955.9	958.00
	67	6,765,401.0	1,833,994.2	958.00
	68	6,765,399.5	1,834,028.6	958.00
	69	6,765,485.5	1,834,044.5	959.00
	70	6,765,619.0	1,834,045.1	962.00
Terrain Line17	71	6,768,573.0	1,838,171.6	1,060.00
	72	6,768,506.0	1,838,095.1	1,055.00
	73	6,768,407.5	1,837,982.2	1,052.00
	74	6,768,335.0	1,837,893.2	1,049.00
	75	6,768,229.5	1,837,766.8	1,044.00
	76	6,768,119.0	1,837,633.9	1,038.00
	77	6,768,046.0	1,837,532.1	1,032.00
	78	6,767,959.0	1,837,420.8	1,027.00
	79	6,767,826.0	1,837,264.5	1,021.00
Terrain Line16	80	6,767,782.5	1,837,238.9	1,024.00
	81	6,767,742.5	1,837,189.8	1,019.00
	82	6,767,696.0	1,837,126.5	1,018.00
	83	6,767,589.5	1,837,009.4	1,015.00
	84	6,767,492.0	1,836,902.8	1,011.00
	85	6,767,415.5	1,836,819.2	1,008.00
	86	6,767,382.0	1,836,766.4	1,006.00
Terrain Line13	95	6,766,721.0	1,836,062.0	993.00
	96	6,766,564.5	1,835,911.9	994.00
	97	6,766,455.5	1,835,809.6	995.00
	98	6,766,337.0	1,835,690.9	991.00
Terrain Line6	113	6,766,027.0	1,835,016.4	974.20
	112	6,766,044.5	1,835,032.0	974.60
	12	6,766,091.5	1,835,075.8	975.00
	13	6,766,193.5	1,835,138.2	975.00

**INPUT: TERRAIN LINES**

Terrain Line15	122	6,767,189.0	1,836,790.6	1,003.20
	118	6,767,168.5	1,836,608.0	997.00
	124	6,767,147.5	1,836,590.5	992.00
Terrain Line1	249	6,764,537.5	1,833,455.2	946.00
	3	6,764,635.0	1,833,563.1	949.00
	4	6,764,743.5	1,833,693.9	949.00
	5	6,765,008.5	1,833,974.9	943.00
	6	6,765,092.0	1,834,048.8	945.00
Terrain Line14	250	6,766,827.0	1,836,303.5	997.90
	251	6,766,972.5	1,836,425.9	1,001.00
	252	6,767,077.5	1,836,487.2	999.80

**I-215/Barton Road Interchange**



INPUT: TRAFFIC FOR LAeq1h Volumes

I-215/Barton Road Interchange

LSA Associates, Inc.		16 February 2012										
Teak Kim		TNM 2.5										
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:		I-215/Barton Road Interchange										
RUN:		ALT 7										
Roadway	Points											
Name	Name	No.	Segment		MTrucks		HTrucks		Buses		Motorcycles	
			Autos		V	S	V	S	V	S	V	S
					veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
I-215 NB Lane 3	point995	995	1794	65	78	65	78	55	0	0	0	0
	point994	994	1794	65	78	65	78	55	0	0	0	0
	point993	993	1794	65	78	65	78	55	0	0	0	0
	point992	992	1794	65	78	65	78	55	0	0	0	0
	point991	991	1794	65	78	65	78	55	0	0	0	0
	point990	990	1794	65	78	65	78	55	0	0	0	0
	point989	989	1794	65	78	65	78	55	0	0	0	0
	point988	988	1794	65	78	65	78	55	0	0	0	0
	point987	987	1794	65	78	65	78	55	0	0	0	0
	point986	986	1794	65	78	65	78	55	0	0	0	0
	point985	985	1794	65	78	65	78	55	0	0	0	0
	point984	984	1794	65	78	65	78	55	0	0	0	0
	point983	983	1794	65	78	65	78	55	0	0	0	0
	point982	982	1794	65	78	65	78	55	0	0	0	0
	point981	981	1794	65	78	65	78	55	0	0	0	0
	point980	980	1794	65	78	65	78	55	0	0	0	0
	point979	979	1794	65	78	65	78	55	0	0	0	0
	point978	978	1794	65	78	65	78	55	0	0	0	0
	point977	977	1794	65	78	65	78	55	0	0	0	0
	point976	976	1794	65	78	65	78	55	0	0	0	0
	point975	975	1794	65	78	65	78	55	0	0	0	0
	point974	974	1794	65	78	65	78	55	0	0	0	0
	point973	973	1794	65	78	65	78	55	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point972	972	1794	65	78	65	78	55	0	0	0	0
	point971	971	1794	65	78	65	78	55	0	0	0	0
	point970	970	1794	65	78	65	78	55	0	0	0	0
	point969	969	1794	65	78	65	78	55	0	0	0	0
	point968	968	1794	65	78	65	78	55	0	0	0	0
	point967	967	1794	65	78	65	78	55	0	0	0	0
	point966	966	1794	65	78	65	78	55	0	0	0	0
	point115	115	1794	65	78	65	78	55	0	0	0	0
	point114	114	1794	65	78	65	78	55	0	0	0	0
	point113	113	1794	65	78	65	78	55	0	0	0	0
	point112	112	1794	65	78	65	78	55	0	0	0	0
	point111	111	1794	65	78	65	78	55	0	0	0	0
	point110	110	1794	65	78	65	78	55	0	0	0	0
	point109	109	1794	65	78	65	78	55	0	0	0	0
	point108	108										
I-215 SB Lane 3	point1054	1054	1794	65	78	65	78	55	0	0	0	0
	point1053	1053	1794	65	78	65	78	55	0	0	0	0
	point1052	1052	1794	65	78	65	78	55	0	0	0	0
	point1051	1051	1794	65	78	65	78	55	0	0	0	0
	point1050	1050	1794	65	78	65	78	55	0	0	0	0
	point1049	1049	1794	65	78	65	78	55	0	0	0	0
	point1048	1048	1794	65	78	65	78	55	0	0	0	0
	point1047	1047	1794	65	78	65	78	55	0	0	0	0
	point1046	1046	1794	65	78	65	78	55	0	0	0	0
	point1045	1045	1794	65	78	65	78	55	0	0	0	0
	point1044	1044	1794	65	78	65	78	55	0	0	0	0
	point1043	1043	1794	65	78	65	78	55	0	0	0	0
	point1042	1042	1794	65	78	65	78	55	0	0	0	0
	point1041	1041	1794	65	78	65	78	55	0	0	0	0
	point1040	1040	1794	65	78	65	78	55	0	0	0	0
	point1039	1039	1794	65	78	65	78	55	0	0	0	0
	point1038	1038	1794	65	78	65	78	55	0	0	0	0
	point1037	1037	1794	65	78	65	78	55	0	0	0	0
	point1036	1036	1794	65	78	65	78	55	0	0	0	0
	point1035	1035	1794	65	78	65	78	55	0	0	0	0
	point1034	1034	1794	65	78	65	78	55	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point1033	1033	1794	65	78	65	78	55	0	0	0	0
	point1032	1032	1794	65	78	65	78	55	0	0	0	0
	point1031	1031	1794	65	78	65	78	55	0	0	0	0
	point1030	1030	1794	65	78	65	78	55	0	0	0	0
	point1029	1029	1794	65	78	65	78	55	0	0	0	0
	point1028	1028	1794	65	78	65	78	55	0	0	0	0
	point1027	1027	1794	65	78	65	78	55	0	0	0	0
	point1026	1026	1794	65	78	65	78	55	0	0	0	0
	point257	257	1794	65	78	65	78	55	0	0	0	0
	point256	256	1794	65	78	65	78	55	0	0	0	0
	point255	255	1794	65	78	65	78	55	0	0	0	0
	point254	254	1794	65	78	65	78	55	0	0	0	0
	point253	253	1794	65	78	65	78	55	0	0	0	0
	point252	252	1794	65	78	65	78	55	0	0	0	0
	point251	251	1794	65	78	65	78	55	0	0	0	0
	point250	250	1794	65	78	65	78	55	0	0	0	0
	point436	436										
Barton EB (Cadena to Grand Terrace)	point260	260	1139	40	48	40	24	35	0	0	0	0
	point421	421	1139	40	48	40	24	35	0	0	0	0
	point259	259	1139	40	48	40	24	35	0	0	0	0
	point258	258										
Barton EB (Cadena to Grand Terrace)	point2022	2022	1139	40	48	40	24	35	0	0	0	0
	point2021	2021	1139	40	48	40	24	35	0	0	0	0
	point2020	2020	1139	40	48	40	24	35	0	0	0	0
	point2019	2019	1139	40	48	40	24	35	0	0	0	0
	point1071	1071	1139	40	48	40	24	35	0	0	0	0
	point1070	1070	1139	40	48	40	24	35	0	0	0	0
	point1069	1069										
Barton EB (Grand Terrace to SB Ramps)	point2025	2025	1423	40	61	40	30	35	0	0	0	0
	point1075	1075	1423	40	61	40	30	35	0	0	0	0
	point1478	1478	1423	40	61	40	30	35	0	0	0	0
	point1479	1479	1423	40	61	40	30	35	0	0	0	0
	point1074	1074	1423	40	61	40	30	35	0	0	0	0
	point1073	1073										
Barton EB (SB Ramps to NB Ramps)	point1076	1076	1672	40	71	40	36	35	0	0	0	0
	point2027	2027	1672	40	71	40	36	35	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point2028	2028	1672	40	71	40	36	35	0	0	0	0
	point313	424	1672	40	71	40	36	35	0	0	0	0
	point312	312										
Barton EB (SB Ramps to NB Ramps)	point2023	2023	1672	40	71	40	36	35	0	0	0	0
	point1077	1077	1672	40	71	40	36	35	0	0	0	0
	point399	399	1672	40	71	40	36	35	0	0	0	0
	point403	403	1672	40	71	40	36	35	0	0	0	0
	point404	404										
Barton EB (NB Ramps to Commerce)	point2024	2024	2256	40	96	40	48	35	0	0	0	0
	point400	400	2256	40	96	40	48	35	0	0	0	0
	point1486	1486	2256	40	96	40	48	35	0	0	0	0
	point1487	1487	2256	40	96	40	48	35	0	0	0	0
	point406	406	2256	40	96	40	48	35	0	0	0	0
	point407	407	2256	40	96	40	48	35	0	0	0	0
	point326	326	2256	40	96	40	48	35	0	0	0	0
	point325	325	2256	40	96	40	48	35	0	0	0	0
	point324	324	2256	40	96	40	48	35	0	0	0	0
	point323	323										
Barton EB (East of Commerce)	point1090	1090	1922	40	82	40	41	35	0	0	0	0
	point1494	1494	1922	40	82	40	41	35	0	0	0	0
	point1495	1495	1922	40	82	40	41	35	0	0	0	0
	point1089	1089	1922	40	82	40	41	35	0	0	0	0
	point1088	1088	1922	40	82	40	41	35	0	0	0	0
	point1087	1087	1922	40	82	40	41	35	0	0	0	0
	point1086	1086	1922	40	82	40	41	35	0	0	0	0
	point1085	1085	1922	40	82	40	41	35	0	0	0	0
	point1084	1084	1922	40	82	40	41	35	0	0	0	0
	point1083	1083	1922	40	82	40	41	35	0	0	0	0
	point1082	1082	1922	40	82	40	41	35	0	0	0	0
	point1081	1081	1922	40	82	40	41	35	0	0	0	0
	point1080	1080	1922	40	82	40	41	35	0	0	0	0
	point1079	1079	1922	40	82	40	41	35	0	0	0	0
	point1078	1078	1922	40	82	40	41	35	0	0	0	0
	point333	333	1922	40	82	40	41	35	0	0	0	0
	point332	332	1922	40	82	40	41	35	0	0	0	0
	point331	331	1922	40	82	40	41	35	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point330	330	1922	40	82	40	41	35	0	0	0	0
	point329	329	1922	40	82	40	41	35	0	0	0	0
	point328	328										
Barton WB (Cadena to Grand Terrace)	point337	337	807	40	34	40	17	35	0	0	0	0
	point336	336	807	40	34	40	17	35	0	0	0	0
	point335	335	807	40	34	40	17	35	0	0	0	0
	point334	334										
Barton WB (Cadena to Grand Terrace)	point1111	1111	807	40	34	40	17	35	0	0	0	0
	point1474	1474	807	40	34	40	17	35	0	0	0	0
	point1475	1475	807	40	34	40	17	35	0	0	0	0
	point338	338	807	40	34	40	17	35	0	0	0	0
	point411	411	807	40	34	40	17	35	0	0	0	0
	point410	410										
Barton WB (Cadena to Grand Terrace)	point344	344	807	40	34	40	17	35	0	0	0	0
	point2033	2033	807	40	34	40	17	35	0	0	0	0
	point2034	2034	807	40	34	40	17	35	0	0	0	0
	point2029	2029	807	40	34	40	17	35	0	0	0	0
	point2030	2030										
Barton WB (Grand Terrace to SB Ramp)	point1118	1118	843	40	36	40	18	35	0	0	0	0
	point1482	1482	843	40	36	40	18	35	0	0	0	0
	point1483	1483										
Barton WB (Grand Terrace to SB Ramps)	point2032	2032	0	0	0	0	0	0	0	0	0	0
	point1991	1991	843	40	36	40	18	35	0	0	0	0
	point1990	1990	843	40	36	40	18	35	0	0	0	0
	point1989	1989	843	40	36	40	18	35	0	0	0	0
	point1988	1988	843	40	36	40	18	35	0	0	0	0
	point372	372										
Barton WB (SB Ramps to NB Ramps)	point2031	2031	0	0	0	0	0	0	0	0	0	0
	point1121	1121	1408	40	60	40	30	35	0	0	0	0
	point1490	1490	1408	40	60	40	30	35	0	0	0	0
	point1491	1491	1408	40	60	40	30	35	0	0	0	0
	point381	381	1408	40	60	40	30	35	0	0	0	0
	point382	382	1408	40	60	40	30	35	0	0	0	0
	point383	383										
Barton WB (NB Ramps to Commerce)	point388	388	2101	40	89	40	45	35	0	0	0	0
	point387	387	2101	40	89	40	45	35	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point386	386	2101	40	89	40	45	35	0	0	0	0
	point385	385										
Vivienda Ct WB	point1467	1467	0	0	0	0	0	0	0	0	0	0
	point1466	1466	0	0	0	0	0	0	0	0	0	0
	point1166	1166	0	0	0	0	0	0	0	0	0	0
	point392	392	0	0	0	0	0	0	0	0	0	0
	point391	391	0	0	0	0	0	0	0	0	0	0
	point390	390	0	0	0	0	0	0	0	0	0	0
	point389	389										
Vivienda Ct WB	point395	395	0	0	0	0	0	0	0	0	0	0
	point394	394	0	0	0	0	0	0	0	0	0	0
	point393	393	0	0	0	0	0	0	0	0	0	0
	point418	418										
Vivienda Ct WB	point1123	1123	0	0	0	0	0	0	0	0	0	0
	point440	440	0	0	0	0	0	0	0	0	0	0
	point457	457	0	0	0	0	0	0	0	0	0	0
	point458	458										
Vivienda Ct EB	point693	693	0	0	0	0	0	0	0	0	0	0
	point82	82	0	0	0	0	0	0	0	0	0	0
	point81	81	0	0	0	0	0	0	0	0	0	0
	point80	80										
Vivienda Ct EB	point1469	1469	0	0	0	0	0	0	0	0	0	0
	point1468	1468	0	0	0	0	0	0	0	0	0	0
	point698	698	0	0	0	0	0	0	0	0	0	0
	point45	45	0	0	0	0	0	0	0	0	0	0
	point44	44	0	0	0	0	0	0	0	0	0	0
	point43	43	0	0	0	0	0	0	0	0	0	0
	point42	42										
Vivienda Ct EB	point1145	1145	0	0	0	0	0	0	0	0	0	0
	point1144	1144	0	0	0	0	0	0	0	0	0	0
	point1143	1143	0	0	0	0	0	0	0	0	0	0
	point1142	1142										
Vivienda NB	point1492	1492	261	30	0	0	0	0	0	0	0	0
	point1154	1154	261	30	0	0	0	0	0	0	0	0
	point1153	1153	261	30	0	0	0	0	0	0	0	0
	point1152	1152	261	30	0	0	0	0	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point1151	1151	261	30	0	0	0	0	0	0	0	0
	point1150	1150	261	30	0	0	0	0	0	0	0	0
	point1149	1149	261	30	0	0	0	0	0	0	0	0
	point1148	1148	261	30	0	0	0	0	0	0	0	0
	point1147	1147	261	30	0	0	0	0	0	0	0	0
	point1146	1146										
Vivienda SB	point1165	1165	186	30	0	0	0	0	0	0	0	0
	point1164	1164	186	30	0	0	0	0	0	0	0	0
	point1163	1163	186	30	0	0	0	0	0	0	0	0
	point1162	1162	186	30	0	0	0	0	0	0	0	0
	point1161	1161	186	30	0	0	0	0	0	0	0	0
	point1160	1160	186	30	0	0	0	0	0	0	0	0
	point1159	1159	186	30	0	0	0	0	0	0	0	0
	point1158	1158	186	30	0	0	0	0	0	0	0	0
	point1157	1157	186	30	0	0	0	0	0	0	0	0
	point1156	1156	186	30	0	0	0	0	0	0	0	0
	point1493	1493	186	30	0	0	0	0	0	0	0	0
	point1155	1155										
Commerce NB	point1179	1179	920	35	60	35	20	30	0	0	0	0
	point1178	1178	920	35	60	35	20	30	0	0	0	0
	point1177	1177	920	35	60	35	20	30	0	0	0	0
	point1176	1176	920	35	60	35	20	30	0	0	0	0
	point1175	1175	920	35	60	35	20	30	0	0	0	0
	point1174	1174	920	35	60	35	20	30	0	0	0	0
	point1173	1173	920	35	60	35	20	30	0	0	0	0
	point1172	1172	920	35	60	35	20	30	0	0	0	0
	point1470	1470	920	35	60	35	20	30	0	0	0	0
	point1471	1471	920	35	60	35	20	30	0	0	0	0
	point1171	1171	920	35	60	35	20	30	0	0	0	0
	point1170	1170	920	35	60	35	20	30	0	0	0	0
	point1169	1169										
Commerce SB	point1180	1180	811	35	53	35	18	30	0	0	0	0
	point1496	1496	811	35	53	35	18	30	0	0	0	0
	point1181	1181	811	35	53	35	18	30	0	0	0	0
	point1182	1182	811	35	53	35	18	30	0	0	0	0
	point1183	1183	811	35	53	35	18	30	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point1184	1184	811	35	53	35	18	30	0	0	0	0
	point1185	1185	811	35	53	35	18	30	0	0	0	0
	point1186	1186	811	35	53	35	18	30	0	0	0	0
	point1187	1187	811	35	53	35	18	30	0	0	0	0
	point1188	1188	811	35	53	35	18	30	0	0	0	0
	point1189	1189										
Newport WB	point1192	1192	0	0	0	0	0	0	0	0	0	0
	point1193	1193	0	0	0	0	0	0	0	0	0	0
	point1194	1194	0	0	0	0	0	0	0	0	0	0
	point1195	1195	0	0	0	0	0	0	0	0	0	0
	point1196	1196	0	0	0	0	0	0	0	0	0	0
	point1197	1197										
Newport EB	point1203	1203	0	0	0	0	0	0	0	0	0	0
	point1202	1202	0	0	0	0	0	0	0	0	0	0
	point1201	1201	0	0	0	0	0	0	0	0	0	0
	point1200	1200	0	0	0	0	0	0	0	0	0	0
	point1199	1199	0	0	0	0	0	0	0	0	0	0
	point1198	1198										
Barton NB Off Ramp	point1225	1225	851	45	56	45	28	40	0	0	0	0
	point1224	1224	851	45	56	45	28	40	0	0	0	0
	point1223	1223	851	45	56	45	28	40	0	0	0	0
	point1222	1222	851	45	56	45	28	40	0	0	0	0
	point1221	1221	851	45	56	45	28	40	0	0	0	0
	point1220	1220	851	45	56	45	28	40	0	0	0	0
	point1219	1219	851	45	56	45	28	40	0	0	0	0
	point1218	1218	851	45	56	45	28	40	0	0	0	0
	point1217	1217	851	45	56	45	28	40	0	0	0	0
	point1216	1216	851	45	56	45	28	40	0	0	0	0
	point1215	1215	851	45	56	45	28	40	0	0	0	0
	point1214	1214	851	45	56	45	28	40	0	0	0	0
	point1213	1213	851	45	56	45	28	40	0	0	0	0
	point1212	1212	851	45	56	45	28	40	0	0	0	0
	point1211	1211	851	45	56	45	28	40	0	0	0	0
	point1210	1210	851	45	56	45	28	40	0	0	0	0
	point1209	1209	851	45	56	45	28	40	0	0	0	0
	point1208	1208	851	40	56	40	28	35	0	0	0	0



**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point1207	1207										
Michigan NB	point1355	1355	920	35	60	35	20	30	0	0	0	0
	point1354	1354	920	35	60	35	20	30	0	0	0	0
	point1353	1353	920	35	60	35	20	30	0	0	0	0
	point1352	1352	920	35	60	35	20	30	0	0	0	0
	point1351	1351										
Michigan NB	point2026	2026	0	0	0	0	0	0	0	0	0	0
	point1359	1359	0	0	0	0	0	0	0	0	0	0
	point1358	1358	0	0	0	0	0	0	0	0	0	0
	point1357	1357										
Michigan SB	point1363	1363	806	35	53	35	18	30	0	0	0	0
	point1362	1362	806	35	53	35	18	30	0	0	0	0
	point1361	1361	806	35	53	35	18	30	0	0	0	0
	point1360	1360										
Michigan SB	point1372	1372	0	0	0	0	0	0	0	0	0	0
	point1371	1371	0	0	0	0	0	0	0	0	0	0
	point1370	1370	0	0	0	0	0	0	0	0	0	0
	point1369	1369	0	0	0	0	0	0	0	0	0	0
	point1368	1368										
La Crosse NB	point1400	1400	180	30	12	30	0	0	0	0	0	0
	point1399	1399	180	30	12	30	0	0	0	0	0	0
	point1398	1398	180	30	12	30	0	0	0	0	0	0
	point1397	1397	180	30	12	30	0	0	0	0	0	0
	point1396	1396	180	30	12	30	0	0	0	0	0	0
	point1395	1395										
La Crosse SB	point1480	1480	66	30	4	30	0	0	0	0	0	0
	point1402	1402	66	30	4	30	0	0	0	0	0	0
	point1403	1403	66	30	4	30	0	0	0	0	0	0
	point1404	1404	66	30	4	30	0	0	0	0	0	0
	point1405	1405	66	30	4	30	0	0	0	0	0	0
	point1406	1406										
Grand Terrace NB	point1477	1477	244	30	13	30	0	0	0	0	0	0
	point1462	1462	244	30	13	30	0	0	0	0	0	0
	point1461	1461	244	30	13	30	0	0	0	0	0	0
	point1429	1429	244	30	13	30	0	0	0	0	0	0
	point1428	1428	244	30	13	30	0	0	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point1427	1427	244	30	13	30	0	0	0	0	0	0
	point1426	1426	244	30	13	30	0	0	0	0	0	0
	point1425	1425										
Grand Terrace NB	point1439	1439	244	30	13	30	0	0	0	0	0	0
	point1438	1438	244	30	13	30	0	0	0	0	0	0
	point1437	1437	244	30	13	30	0	0	0	0	0	0
	point1436	1436	244	30	13	30	0	0	0	0	0	0
	point1435	1435	244	30	13	30	0	0	0	0	0	0
	point1434	1434	244	30	13	30	0	0	0	0	0	0
	point1433	1433	244	30	13	30	0	0	0	0	0	0
	point1432	1432	244	30	13	30	0	0	0	0	0	0
	point1431	1431	244	30	13	30	0	0	0	0	0	0
	point1430	1430										
Grand Terrace SB	point1440	1440	203	30	11	30	0	0	0	0	0	0
	point1472	1472	203	30	11	30	0	0	0	0	0	0
	point1473	1473	203	30	11	30	0	0	0	0	0	0
	point1441	1441	203	30	11	30	0	0	0	0	0	0
	point1442	1442	203	30	11	30	0	0	0	0	0	0
	point1443	1443	203	30	11	30	0	0	0	0	0	0
	point1444	1444	203	30	11	30	0	0	0	0	0	0
	point1445	1445	203	30	11	30	0	0	0	0	0	0
	point1446	1446	203	30	11	30	0	0	0	0	0	0
	point1447	1447	203	30	11	30	0	0	0	0	0	0
	point1448	1448										
Grand Terrace SB	point1460	1460	203	30	11	30	0	0	0	0	0	0
	point1459	1459	203	30	11	30	0	0	0	0	0	0
	point1458	1458	203	30	11	30	0	0	0	0	0	0
	point1457	1457	203	30	11	30	0	0	0	0	0	0
	point1456	1456	203	30	11	30	0	0	0	0	0	0
	point1455	1455	203	30	11	30	0	0	0	0	0	0
	point1454	1454										
Barton NB On Ramp	point1538	1538	996	65	66	65	33	55	0	0	0	0
	point1537	1537	996	65	66	65	33	55	0	0	0	0
	point1536	1536	996	65	66	65	33	55	0	0	0	0
	point1535	1535	996	65	66	65	33	55	0	0	0	0
	point1534	1534	996	65	66	65	33	55	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point1533	1533	996	65	66	65	33	55	0	0	0	0
	point1532	1532	996	65	66	65	33	55	0	0	0	0
	point1531	1531	996	65	66	65	33	55	0	0	0	0
	point1530	1530	996	65	66	65	33	55	0	0	0	0
	point1529	1529	996	65	66	65	33	55	0	0	0	0
	point1528	1528	996	65	66	65	33	55	0	0	0	0
	point1527	1527	996	65	66	65	33	55	0	0	0	0
	point1526	1526	996	65	66	65	33	55	0	0	0	0
	point1525	1525	996	65	66	65	33	55	0	0	0	0
	point1524	1524	996	65	66	65	33	55	0	0	0	0
	point1523	1523	996	65	66	65	33	55	0	0	0	0
	point1522	1522	996	65	66	65	33	55	0	0	0	0
	point1521	1521	996	65	66	65	33	55	0	0	0	0
	point1520	1520	996	65	66	65	33	55	0	0	0	0
	point1519	1519	996	65	66	65	33	55	0	0	0	0
	point1518	1518	996	65	66	65	33	55	0	0	0	0
	point1517	1517	996	65	66	65	33	55	0	0	0	0
	point1516	1516	996	65	66	65	33	55	0	0	0	0
	point1515	1515	996	65	66	65	33	55	0	0	0	0
	point1514	1514	996	65	66	65	33	55	0	0	0	0
	point1513	1513	996	65	66	65	33	55	0	0	0	0
	point1512	1512	996	65	66	65	33	55	0	0	0	0
	point1511	1511	996	65	66	65	33	55	0	0	0	0
	point1510	1510	996	65	66	65	33	55	0	0	0	0
	point1509	1509										
Barton Median	point1612	1612	0	0	0	0	0	0	0	0	0	0
	point1623	1623	0	0	0	0	0	0	0	0	0	0
	point1624	1624	0	0	0	0	0	0	0	0	0	0
	point1625	1625	0	0	0	0	0	0	0	0	0	0
	point1622	1622	0	0	0	0	0	0	0	0	0	0
	point1620	1620	0	0	0	0	0	0	0	0	0	0
	point1621	1621	0	0	0	0	0	0	0	0	0	0
	point1611	1611	0	0	0	0	0	0	0	0	0	0
	point1610	1610	0	0	0	0	0	0	0	0	0	0
	point1609	1609	0	0	0	0	0	0	0	0	0	0
	point1608	1608	0	0	0	0	0	0	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point1607	1607	0	0	0	0	0	0	0	0	0	0
	point1606	1606	0	0	0	0	0	0	0	0	0	0
	point1605	1605	0	0	0	0	0	0	0	0	0	0
	point1604	1604	0	0	0	0	0	0	0	0	0	0
	point1603	1603	0	0	0	0	0	0	0	0	0	0
	point1602	1602	0	0	0	0	0	0	0	0	0	0
	point1601	1601	0	0	0	0	0	0	0	0	0	0
	point1600	1600	0	0	0	0	0	0	0	0	0	0
	point1599	1599	0	0	0	0	0	0	0	0	0	0
	point1598	1598	0	0	0	0	0	0	0	0	0	0
	point1597	1597	0	0	0	0	0	0	0	0	0	0
	point1596	1596	0	0	0	0	0	0	0	0	0	0
	point1595	1595	0	0	0	0	0	0	0	0	0	0
	point1594	1594	0	0	0	0	0	0	0	0	0	0
	point1593	1593	0	0	0	0	0	0	0	0	0	0
	point1592	1592	0	0	0	0	0	0	0	0	0	0
	point1591	1591	0	0	0	0	0	0	0	0	0	0
	point1590	1590	0	0	0	0	0	0	0	0	0	0
	point1589	1589	0	0	0	0	0	0	0	0	0	0
	point1588	1588	0	0	0	0	0	0	0	0	0	0
	point1587	1587	0	0	0	0	0	0	0	0	0	0
	point1586	1586	0	0	0	0	0	0	0	0	0	0
	point1585	1585	0	0	0	0	0	0	0	0	0	0
	point1584	1584	0	0	0	0	0	0	0	0	0	0
	point1583	1583	0	0	0	0	0	0	0	0	0	0
	point1582	1582	0	0	0	0	0	0	0	0	0	0
	point1581	1581	0	0	0	0	0	0	0	0	0	0
	point1580	1580	0	0	0	0	0	0	0	0	0	0
	point1579	1579										
Commerce Median	point1618	1618	0	0	0	0	0	0	0	0	0	0
	point1617	1617	0	0	0	0	0	0	0	0	0	0
	point1616	1616	0	0	0	0	0	0	0	0	0	0
	point1615	1615	0	0	0	0	0	0	0	0	0	0
	point1614	1614	0	0	0	0	0	0	0	0	0	0
	point1619	1619	0	0	0	0	0	0	0	0	0	0
	point1613	1613										

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

Barton SB Off Ramp	point1731	1731	804	45	53	45	26	40	0	0	0	0
	point1732	1732	804	45	53	45	26	40	0	0	0	0
	point1733	1733	804	45	53	45	26	40	0	0	0	0
	point1734	1734	804	45	53	45	26	40	0	0	0	0
	point1735	1735	804	45	53	45	26	40	0	0	0	0
	point1736	1736	804	45	53	45	26	40	0	0	0	0
	point1737	1737	804	45	53	45	26	40	0	0	0	0
	point1738	1738	804	45	53	45	26	40	0	0	0	0
	point1739	1739	804	45	53	45	26	40	0	0	0	0
	point1740	1740	804	45	53	45	26	40	0	0	0	0
	point1741	1741	804	45	53	45	26	40	0	0	0	0
	point1742	1742	804	45	53	45	26	40	0	0	0	0
	point1743	1743	804	45	53	45	26	40	0	0	0	0
	point1744	1744	804	45	53	45	26	40	0	0	0	0
	point1745	1745	804	45	53	45	26	40	0	0	0	0
	point1746	1746	804	45	53	45	26	40	0	0	0	0
	point1747	1747	804	45	53	45	26	40	0	0	0	0
	point1748	1748	804	45	53	45	26	40	0	0	0	0
	point1749	1749	804	45	53	45	26	40	0	0	0	0
	point1750	1750	804	45	53	45	26	40	0	0	0	0
	point1751	1751	804	45	53	45	26	40	0	0	0	0
	point1752	1752										
Barton SB On Ramp	point1899	1899	934	65	62	65	31	55	0	0	0	0
	point1332	1332	934	65	62	65	31	55	0	0	0	0
	point1333	1333	934	65	62	65	31	55	0	0	0	0
	point1334	1334	934	65	62	65	31	55	0	0	0	0
	point1335	1335	934	65	62	65	31	55	0	0	0	0
	point1336	1336	934	65	62	65	31	55	0	0	0	0
	point1337	1337	934	65	62	65	31	55	0	0	0	0
	point1338	1338	934	65	62	65	31	55	0	0	0	0
	point1339	1339	934	65	62	65	31	55	0	0	0	0
	point1340	1340	934	65	62	65	31	55	0	0	0	0
	point1341	1341	934	65	62	65	31	55	0	0	0	0
	point1342	1342	934	65	62	65	31	55	0	0	0	0
	point1343	1343	934	65	62	65	31	55	0	0	0	0
	point1344	1344	934	65	62	65	31	55	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point1345	1345	934	65	62	65	31	55	0	0	0	0
	point1485	1485	934	65	62	65	31	55	0	0	0	0
	point1346	1346	934	65	62	65	31	55	0	0	0	0
	point1558	1886	934	65	62	65	31	55	0	0	0	0
	point1557	1887	934	65	62	65	31	55	0	0	0	0
	point1556	1888	934	65	62	65	31	55	0	0	0	0
	point1555	1889	934	65	62	65	31	55	0	0	0	0
	point1554	1890	934	65	62	65	31	55	0	0	0	0
	point1553	1891	934	65	62	65	31	55	0	0	0	0
	point1552	1892	934	65	62	65	31	55	0	0	0	0
	point1551	1893	934	65	62	65	31	55	0	0	0	0
	point1550	1894	934	65	62	65	31	55	0	0	0	0
	point1549	1895	934	65	62	65	31	55	0	0	0	0
	point1577	1896	934	65	62	65	31	55	0	0	0	0
	point1548	1897										
Barton SB On Ramp	point1900	1900	934	35	62	35	31	30	0	0	0	0
	point1323	1323	934	35	62	35	31	30	0	0	0	0
	point1324	1324	934	35	62	35	31	30	0	0	0	0
	point1325	1325	934	35	62	35	31	30	0	0	0	0
	point1326	1326	934	35	62	35	31	30	0	0	0	0
	point1327	1327	934	35	62	35	31	30	0	0	0	0
	point1328	1328	934	35	62	35	31	30	0	0	0	0
	point1329	1329	934	35	62	35	31	30	0	0	0	0
	point1866	1866	934	35	62	35	31	30	0	0	0	0
	point1331	1331										
I-215 NB HOV	point1938	1938	1410	65	90	65	0	0	0	0	0	0
	point1903	1902	1410	65	90	65	0	0	0	0	0	0
	point1904	1904	1410	65	90	65	0	0	0	0	0	0
	point1905	1905	1410	65	90	65	0	0	0	0	0	0
	point1906	1906	1410	65	90	65	0	0	0	0	0	0
	point1907	1907	1410	65	90	65	0	0	0	0	0	0
	point1908	1908	1410	65	90	65	0	0	0	0	0	0
	point1909	1909	1410	65	90	65	0	0	0	0	0	0
	point1910	1910	1410	65	90	65	0	0	0	0	0	0
	point1911	1911	1410	65	90	65	0	0	0	0	0	0
	point1912	1912	1410	65	90	65	0	0	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point1913	1913	1410	65	90	65	0	0	0	0	0	0
	point1914	1914	1410	65	90	65	0	0	0	0	0	0
	point1915	1915	1410	65	90	65	0	0	0	0	0	0
	point1916	1916	1410	65	90	65	0	0	0	0	0	0
	point1917	1917	1410	65	90	65	0	0	0	0	0	0
	point1918	1918	1410	65	90	65	0	0	0	0	0	0
	point1919	1919	1410	65	90	65	0	0	0	0	0	0
	point1920	1920	1410	65	90	65	0	0	0	0	0	0
	point1921	1921	1410	65	90	65	0	0	0	0	0	0
	point1922	1922	1410	65	90	65	0	0	0	0	0	0
	point1923	1923	1410	65	90	65	0	0	0	0	0	0
	point1924	1924	1410	65	90	65	0	0	0	0	0	0
	point1925	1925	1410	65	90	65	0	0	0	0	0	0
	point1926	1926	1410	65	90	65	0	0	0	0	0	0
	point1927	1927	1410	65	90	65	0	0	0	0	0	0
	point1928	1928	1410	65	90	65	0	0	0	0	0	0
	point1929	1929	1410	65	90	65	0	0	0	0	0	0
	point1930	1930	1410	65	90	65	0	0	0	0	0	0
	point1931	1931	1410	65	90	65	0	0	0	0	0	0
	point1932	1932	1410	65	90	65	0	0	0	0	0	0
	point1933	1933	1410	65	90	65	0	0	0	0	0	0
	point1934	1934	1410	65	90	65	0	0	0	0	0	0
	point1935	1935	1410	65	90	65	0	0	0	0	0	0
	point1936	1936	1410	65	90	65	0	0	0	0	0	0
	point1937	1937	1410	65	90	65	0	0	0	0	0	0
	point1903	1903	1410	65	90	65	0	0	0	0	0	0
	point1901	1901										
I-215 SB HOV	point1976	1976	1410	65	90	65	0	0	0	0	0	0
	point1940	1940	1410	65	90	65	0	0	0	0	0	0
	point1941	1941	1410	65	90	65	0	0	0	0	0	0
	point1942	1942	1410	65	90	65	0	0	0	0	0	0
	point1943	1943	1410	65	90	65	0	0	0	0	0	0
	point1944	1944	1410	65	90	65	0	0	0	0	0	0
	point1945	1945	1410	65	90	65	0	0	0	0	0	0
	point1946	1946	1410	65	90	65	0	0	0	0	0	0
	point1947	1947	1410	65	90	65	0	0	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point1948	1948	1410	65	90	65	0	0	0	0	0	0
	point1949	1949	1410	65	90	65	0	0	0	0	0	0
	point1950	1950	1410	65	90	65	0	0	0	0	0	0
	point1951	1951	1410	65	90	65	0	0	0	0	0	0
	point1952	1952	1410	65	90	65	0	0	0	0	0	0
	point1953	1953	1410	65	90	65	0	0	0	0	0	0
	point1954	1954	1410	65	90	65	0	0	0	0	0	0
	point1955	1955	1410	65	90	65	0	0	0	0	0	0
	point1956	1956	1410	65	90	65	0	0	0	0	0	0
	point1957	1957	1410	65	90	65	0	0	0	0	0	0
	point1958	1958	1410	65	90	65	0	0	0	0	0	0
	point1959	1959	1410	65	90	65	0	0	0	0	0	0
	point1960	1960	1410	65	90	65	0	0	0	0	0	0
	point1961	1961	1410	65	90	65	0	0	0	0	0	0
	point1962	1962	1410	65	90	65	0	0	0	0	0	0
	point1963	1963	1410	65	90	65	0	0	0	0	0	0
	point1964	1964	1410	65	90	65	0	0	0	0	0	0
	point1965	1965	1410	65	90	65	0	0	0	0	0	0
	point1966	1966	1410	65	90	65	0	0	0	0	0	0
	point1967	1967	1410	65	90	65	0	0	0	0	0	0
	point1968	1968	1410	65	90	65	0	0	0	0	0	0
	point1969	1969	1410	65	90	65	0	0	0	0	0	0
	point1970	1970	1410	65	90	65	0	0	0	0	0	0
	point1971	1971	1410	65	90	65	0	0	0	0	0	0
	point1972	1972	1410	65	90	65	0	0	0	0	0	0
	point1973	1973	1410	65	90	65	0	0	0	0	0	0
	point1974	1974	1410	65	90	65	0	0	0	0	0	0
	point1975	1975	1410	65	90	65	0	0	0	0	0	0
	point1939	1939										
I-215 NB Aux	point1978	1978	851	65	56	65	28	55	0	0	0	0
	point1979	1979	851	65	56	65	28	55	0	0	0	0
	point1980	1980	851	65	56	65	28	55	0	0	0	0
	point1981	1981	851	65	56	65	28	55	0	0	0	0
	point1982	1982	851	65	56	65	28	55	0	0	0	0
	point1983	1983	851	65	56	65	28	55	0	0	0	0
	point1984	1984	851	65	56	65	28	55	0	0	0	0



**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point1985	1985	851	65	56	65	28	55	0	0	0	0
	point1986	1986	851	65	56	65	28	55	0	0	0	0
	point1987	1987	851	65	56	65	28	55	0	0	0	0
	point1977	1977										
Barton WB (NB Ramps to Commerce)	point1993	1993	2101	40	89	40	45	35	0	0	0	0
	point1994	1994	2101	40	89	40	45	35	0	0	0	0
	point1995	1995	2101	40	89	40	45	35	0	0	0	0
	point1996	1996	2101	40	89	40	45	35	0	0	0	0
	point1997	1997	2101	40	89	40	45	35	0	0	0	0
	point1998	1998	2101	40	89	40	45	35	0	0	0	0
	point1999	1999	2101	40	89	40	45	35	0	0	0	0
	point2000	2000	2101	40	89	40	45	35	0	0	0	0
	point1992	1992										
Barton WB (East of Commerce)	point2002	2002	1358	40	58	40	29	35	0	0	0	0
	point2003	2003	1358	40	58	40	29	35	0	0	0	0
	point2004	2004	1358	40	58	40	29	35	0	0	0	0
	point2005	2005	1358	40	58	40	29	35	0	0	0	0
	point2006	2006	1358	40	58	40	29	35	0	0	0	0
	point2007	2007	1358	40	58	40	29	35	0	0	0	0
	point2008	2008	1358	40	58	40	29	35	0	0	0	0
	point2009	2009	1358	40	58	40	29	35	0	0	0	0
	point2010	2010	1358	40	58	40	29	35	0	0	0	0
	point2011	2011	1358	40	58	40	29	35	0	0	0	0
	point2012	2012	1358	40	58	40	29	35	0	0	0	0
	point2013	2013	1358	40	58	40	29	35	0	0	0	0
	point2014	2014	1358	40	58	40	29	35	0	0	0	0
	point2015	2015	1358	40	58	40	29	35	0	0	0	0
	point2016	2016	1358	40	58	40	29	35	0	0	0	0
	point2017	2017	1358	40	58	40	29	35	0	0	0	0
	point2018	2018	1358	40	58	40	29	35	0	0	0	0
	point2001	2001										
I-215 NB Lanes 1 & 2	point965	965	2392	65	104	65	104	55	0	0	0	0
	point964	964	2392	65	104	65	104	55	0	0	0	0
	point963	963	2392	65	104	65	104	55	0	0	0	0
	point962	962	2392	65	104	65	104	55	0	0	0	0
	point961	961	2392	65	104	65	104	55	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point960	960	2392	65	104	65	104	55	0	0	0	0
	point959	959	2392	65	104	65	104	55	0	0	0	0
	point958	958	2392	65	104	65	104	55	0	0	0	0
	point957	957	2392	65	104	65	104	55	0	0	0	0
	point956	956	2392	65	104	65	104	55	0	0	0	0
	point1629	1629	2392	65	104	65	104	55	0	0	0	0
	point954	954	2392	65	104	65	104	55	0	0	0	0
	point953	953	2392	65	104	65	104	55	0	0	0	0
	point952	952	2392	65	104	65	104	55	0	0	0	0
	point951	951	2392	65	104	65	104	55	0	0	0	0
	point950	950	2392	65	104	65	104	55	0	0	0	0
	point949	949	2392	65	104	65	104	55	0	0	0	0
	point1626	1626	2392	65	104	65	104	55	0	0	0	0
	point947	947	2392	65	104	65	104	55	0	0	0	0
	point946	946	2392	65	104	65	104	55	0	0	0	0
	point945	945	2392	65	104	65	104	55	0	0	0	0
	point944	944	2392	65	104	65	104	55	0	0	0	0
	point943	943	2392	65	104	65	104	55	0	0	0	0
	point942	942	2392	65	104	65	104	55	0	0	0	0
	point941	941	2392	65	104	65	104	55	0	0	0	0
	point940	940	2392	65	104	65	104	55	0	0	0	0
	point939	939	2392	65	104	65	104	55	0	0	0	0
	point938	938	2392	65	104	65	104	55	0	0	0	0
	point937	937	2392	65	104	65	104	55	0	0	0	0
	point936	936	2392	65	104	65	104	55	0	0	0	0
	point935	935	2392	65	104	65	104	55	0	0	0	0
	point934	934	2392	65	104	65	104	55	0	0	0	0
	point38	38	2392	65	104	65	104	55	0	0	0	0
	point37	37	2392	65	104	65	104	55	0	0	0	0
	point36	36	2392	65	104	65	104	55	0	0	0	0
	point35	35	2392	65	104	65	104	55	0	0	0	0
	point34	34	2392	65	104	65	104	55	0	0	0	0
	point33	33										
I-215 SB Lanes 1 & 2	point1025	1025	2392	65	104	65	104	55	0	0	0	0
	point1024	1024	2392	65	104	65	104	55	0	0	0	0
	point1023	1023	2392	65	104	65	104	55	0	0	0	0

**INPUT: TRAFFIC FOR LAeq1h Volumes**

**I-215/Barton Road Interchange**

	point1022	1022	2392	65	104	65	104	55	0	0	0	0
	point1021	1021	2392	65	104	65	104	55	0	0	0	0
	point1020	1020	2392	65	104	65	104	55	0	0	0	0
	point1019	1019	2392	65	104	65	104	55	0	0	0	0
	point1018	1018	2392	65	104	65	104	55	0	0	0	0
	point1017	1017	2392	65	104	65	104	55	0	0	0	0
	point1016	1016	2392	65	104	65	104	55	0	0	0	0
	point1015	1015	2392	65	104	65	104	55	0	0	0	0
	point1014	1014	2392	65	104	65	104	55	0	0	0	0
	point1628	1628	2392	65	104	65	104	55	0	0	0	0
	point1012	1012	2392	65	104	65	104	55	0	0	0	0
	point1011	1011	2392	65	104	65	104	55	0	0	0	0
	point1010	1010	2392	65	104	65	104	55	0	0	0	0
	point1009	1009	2392	65	104	65	104	55	0	0	0	0
	point1008	1008	2392	65	104	65	104	55	0	0	0	0
	point1007	1007	2392	65	104	65	104	55	0	0	0	0
	point1006	1006	2392	65	104	65	104	55	0	0	0	0
	point1627	1627	2392	65	104	65	104	55	0	0	0	0
	point1004	1004	2392	65	104	65	104	55	0	0	0	0
	point1003	1003	2392	65	104	65	104	55	0	0	0	0
	point1002	1002	2392	65	104	65	104	55	0	0	0	0
	point1001	1001	2392	65	104	65	104	55	0	0	0	0
	point1000	1000	2392	65	104	65	104	55	0	0	0	0
	point999	999	2392	65	104	65	104	55	0	0	0	0
	point998	998	2392	65	104	65	104	55	0	0	0	0
	point997	997	2392	65	104	65	104	55	0	0	0	0
	point996	996	2392	65	104	65	104	55	0	0	0	0
	point157	157	2392	65	104	65	104	55	0	0	0	0
	point156	156	2392	65	104	65	104	55	0	0	0	0
	point155	155	2392	65	104	65	104	55	0	0	0	0
	point154	154	2392	65	104	65	104	55	0	0	0	0
	point153	153	2392	65	104	65	104	55	0	0	0	0
	point152	152	2392	65	104	65	104	55	0	0	0	0
	point151	151	2392	65	104	65	104	55	0	0	0	0
	point150	150										