

A P P E N D I X B

LEVEL OF SERVICE CALCULATION
SHEETS



City of San Carlos General Plan

Summary Scenario Comparison Report (With Average Critical Delay)
Future Volume Alternative

Intersection	Existing AM				Bkgrd AM (Resid+Non-res)				Project AM (Resid+Retail+Empl)						???			
	LOS	Avg Del (sec)	Crit V/C	Avg Crit Del (sec)	LOS	Avg Del (sec)	Crit V/C	Avg Crit Del (sec)	LOS	Avg Del (sec)	Crit V/C	Crit V/C Change	Avg Crit Del (sec)	Avg Crit Del Change	LOS	Avg Del (sec)	Crit V/C	Avg Crit Del (sec)
#8 El Camino Real/San Carlos	A	16.5	0.493	18.7	A	17.0	0.512	19.4	B	19.2	0.605	+ 0.093	22.7	+ 3.4	?	xx.x	x.xxx	xx.x
#20 Industrial/Brittan	A	23.2	0.481	22.5	A	25.0	0.550	24.7	C	45.6	0.772	+ 0.222	49.1	+ 24.4	?	xx.x	x.xxx	xx.x
#28 Alameda De Las Pulgas/Brittan	B	25.2	0.621	27.3	B	27.1	0.656	34.0	C	32.9	0.733	+ 0.078	37.1	+ 3.0	?	xx.x	x.xxx	xx.x
#29 Alameda De Las Pulgas/San Carlos	A	12.3	0.480	15.6	A	12.6	0.501	15.9	A	12.8	0.518	+ 0.017	16.3	+ 0.4	?	xx.x	x.xxx	xx.x
#33 San Carlos/Dartmouth	A	31.1	0.512	35.9	A	33.8	0.530	40.2	A	35.6	0.536	+ 0.006	60.8	+ 20.5	?	xx.x	x.xxx	xx.x

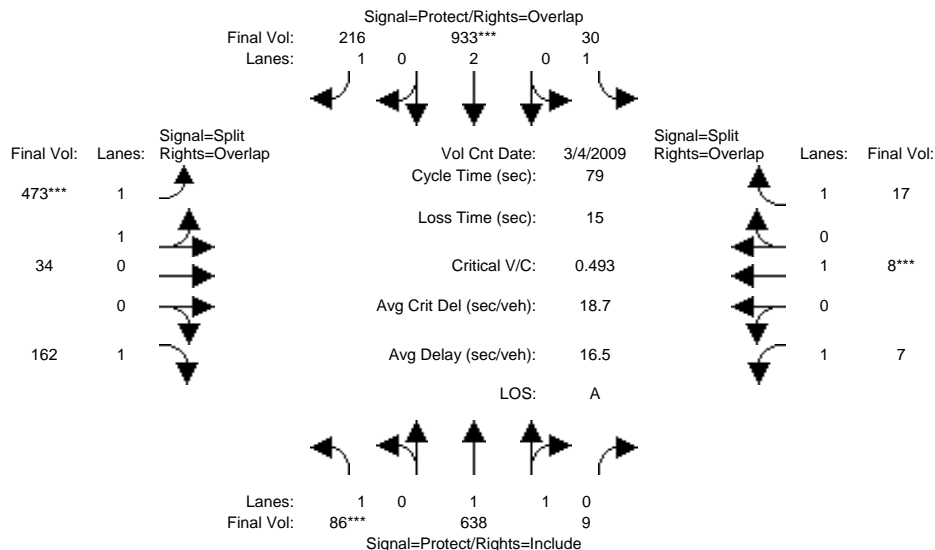
City of San Carlos General Plan

Summary Scenario Comparison Report (With Average Critical Delay)
Future Volume Alternative

Intersection	Existing PM				Bkgrd PM (Resid+Non-res)				Project PM (Resid+Retail+Empl)						???			
	LOS	Avg Del (sec)	Crit V/C	Avg Crit Del (sec)	LOS	Avg Del (sec)	Crit V/C	Avg Crit Del (sec)	LOS	Avg Del (sec)	Crit V/C	Change	Avg Crit Del (sec)	Avg Crit Del Change	LOS	Avg Del (sec)	Crit V/C	Avg Crit Del (sec)
#8 El Camino Real/San Carlos	A	15.8	0.494	30.9	A	16.1	0.514	33.4	B	19.3	0.634	+ 0.120	52.8	+ 19.4	?	xx.x	x.xxx	xx.x
#20 Industrial/Brittan	A	27.8	0.577	33.5	B	31.8	0.647	40.6	E	118.6	0.948	+ 0.302	154.5	+ 113.9	?	xx.x	x.xxx	xx.x
#28 Alameda De Las Pulgas/Brittan	B	29.0	0.694	36.0	C	31.7	0.723	36.1	C	41.3	0.792	+ 0.069	52.0	+ 15.8	?	xx.x	x.xxx	xx.x
#29 Alameda De Las Pulgas/San Carlos	A	12.2	0.543	11.2	A	12.5	0.563	11.5	A	12.9	0.580	+ 0.017	11.9	+ 0.4	?	xx.x	x.xxx	xx.x
#33 San Carlos/Dartmouth	A	17.4	0.458	20.2	A	18.3	0.479	22.2	A	19.3	0.489	+ 0.010	23.3	+ 1.1	?	xx.x	x.xxx	xx.x

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Existing AM

Intersection #8: El Camino Real/San Carlos



Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	6	10	10	4	10	10	4	4	4	6	6	6
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Volume Module:	>> Count Date: 4 Mar 2009 <<											
Base Vol:	86	638	9	30	933	216	473	34	162	7	8	17
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	86	638	9	30	933	216	473	34	162	7	8	17
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	86	638	9	30	933	216	473	34	162	7	8	17
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	86	638	9	30	933	216	473	34	162	7	8	17
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	86	638	9	30	933	216	473	34	162	7	8	17
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	86	638	9	30	933	216	473	34	162	7	8	17

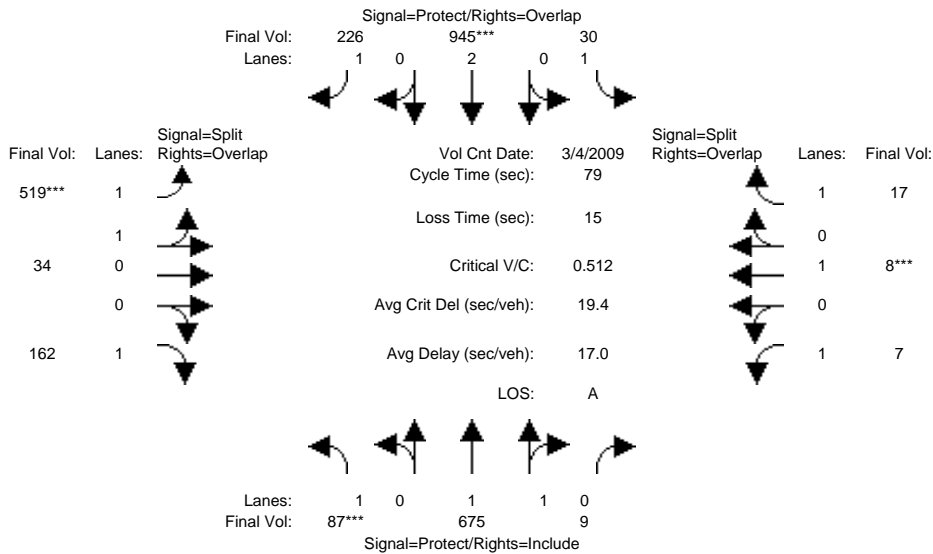
Saturation Flow Module:												
Sat/Lane:	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	1.97	0.03	1.00	2.00	1.00	1.87	0.13	1.00	1.00	1.00	1.00
Final Sat.:	1650	3254	46	1650	3300	1650	3079	221	1650	1650	1650	1650

Capacity Analysis Module:												
Vol/Sat:	0.05	0.20	0.20	0.02	0.28	0.13	0.15	0.15	0.10	0.00	0.00	0.01
Crit Volume:	86			467			254			8		
Crit Moves:	****			****			****			****		

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Bkgrd AM (Resid+Non-res)

Intersection #8: El Camino Real/San Carlos

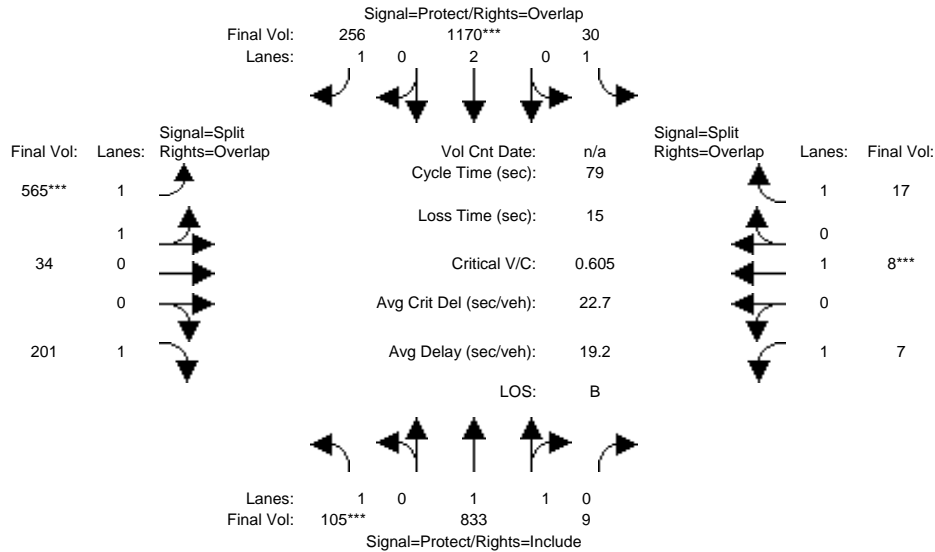


Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	6	10	10	4	10	10	4	4	4	6	6	6
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 4 Mar 2009 <<												
Base Vol:	86	638	9	30	933	216	473	34	162	7	8	17
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	86	638	9	30	933	216	473	34	162	7	8	17
Added Vol:	0	28	0	0	11	9	40	0	0	0	0	0
ResTrips:	1	9	0	0	1	1	6	0	0	0	0	0
Initial Fut:	87	675	9	30	945	226	519	34	162	7	8	17
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	87	675	9	30	945	226	519	34	162	7	8	17
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	87	675	9	30	945	226	519	34	162	7	8	17
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	87	675	9	30	945	226	519	34	162	7	8	17
Saturation Flow Module:												
Sat/Lane:	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	1.97	0.03	1.00	2.00	1.00	1.88	0.12	1.00	1.00	1.00	1.00
Final Sat.:	1650	3257	43	1650	3300	1650	3097	203	1650	1650	1650	1650
Capacity Analysis Module:												
Vol/Sat:	0.05	0.21	0.21	0.02	0.29	0.14	0.17	0.17	0.10	0.00	0.00	0.01
Crit Volume:	87				472		277				8	
Crit Moves:	***				****		****				****	

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Project AM (Resid+Retail+Empl)

Intersection #8: El Camino Real/San Carlos



Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	6	10	10	4	10	10	4	4	4	6	6	6
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Volume Module:												
Base Vol:	87	675	9	30	945	226	519	34	162	7	8	17
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	87	675	9	30	945	226	519	34	162	7	8	17
Added Vol:	3	66	0	0	17	9	36	0	13	0	0	0
ATI:	15	92	0	0	208	21	10	0	26	0	0	0
Initial Fut:	105	833	9	30	1170	256	565	34	201	7	8	17
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	105	833	9	30	1170	256	565	34	201	7	8	17
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	105	833	9	30	1170	256	565	34	201	7	8	17
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	105	833	9	30	1170	256	565	34	201	7	8	17

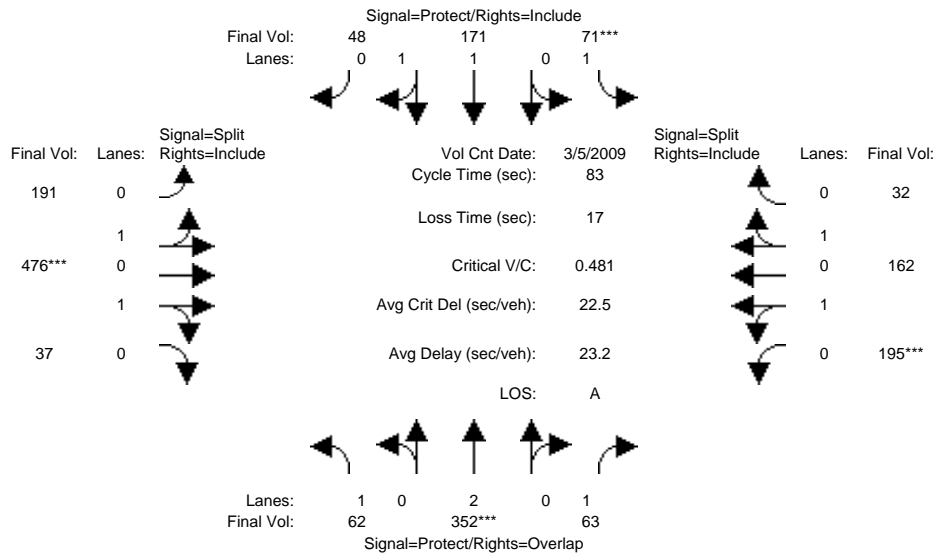
Saturation Flow Module:												
Sat/Lane:	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	1.98	0.02	1.00	2.00	1.00	1.89	0.11	1.00	1.00	1.00	1.00
Final Sat.:	1650	3265	35	1650	3300	1650	3113	187	1650	1650	1650	1650

Capacity Analysis Module:												
Vol/Sat:	0.06	0.26	0.26	0.02	0.35	0.16	0.18	0.18	0.12	0.00	0.00	0.01
Crit Volume:	105				585		300				8	
Crit Moves:	***				****		****				****	

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Existing AM

Intersection #20: Industrial/Brittan

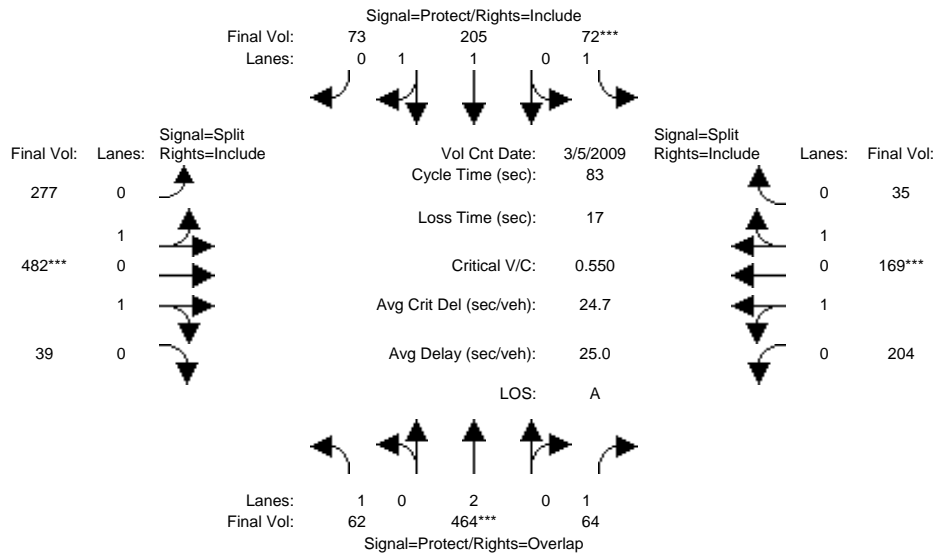


Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	3	8	8	3	8	8	3	3	3	3	3	3
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 5 Mar 2009 <<												
Base Vol:	62	352	63	71	171	48	191	476	37	195	162	32
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	62	352	63	71	171	48	191	476	37	195	162	32
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	62	352	63	71	171	48	191	476	37	195	162	32
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	62	352	63	71	171	48	191	476	37	195	162	32
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	62	352	63	71	171	48	191	476	37	195	162	32
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	62	352	63	71	171	48	191	476	37	195	162	32
Saturation Flow Module:												
Sat/Lane:	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.00	1.00	1.00	1.56	0.44	0.54	1.35	0.11	1.00	0.84	0.16
Final Sat.:	1650	3300	1650	1650	2577	723	895	2231	173	1650	1379	271
Capacity Analysis Module:												
Vol/Sat:	0.04	0.11	0.04	0.04	0.07	0.07	0.21	0.21	0.21	0.12	0.12	0.12
Crit Volume:	176			71			352			195		
Crit Moves:	****			****			****			****		

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Bkgrd AM (Resid+Non-res)

Intersection #20: Industrial/Brittan

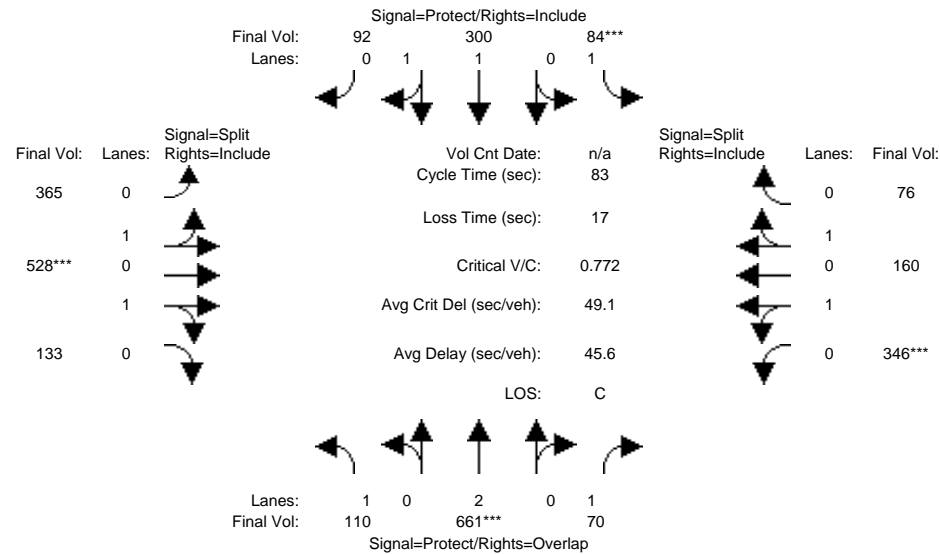


Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	3	8	8	3	8	8	3	3	3	3	3	3
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 5 Mar 2009 <<												
Base Vol:	62	352	63	71	171	48	191	476	37	195	162	32
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	62	352	63	71	171	48	191	476	37	195	162	32
Added Vol:	0	112	1	1	34	25	86	1	2	9	6	3
ResTrips:	0	0	0	0	0	0	0	5	0	0	1	0
Initial Fut:	62	464	64	72	205	73	277	482	39	204	169	35
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	62	464	64	72	205	73	277	482	39	204	169	35
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	62	464	64	72	205	73	277	482	39	204	169	35
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	62	464	64	72	205	73	277	482	39	204	169	35
Saturation Flow Module:												
Sat/Lane:	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.00	1.00	1.00	1.47	0.53	0.69	1.21	0.10	1.00	0.83	0.17
Final Sat.:	1650	3300	1650	1650	2433	867	1145	1993	161	1650	1367	283
Capacity Analysis Module:												
Vol/Sat:	0.04	0.14	0.04	0.04	0.08	0.08	0.24	0.24	0.24	0.12	0.12	0.12
Crit Volume:	232		72		399		204					
Crit Moves:	****		****		****		****					

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Project AM (Resid+Retail+Empl)

Intersection #20: Industrial/Brittan



Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	3	8	8	3	8	8	3	3	3	3	3	3
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Volume Module:

Base Vol:	62	464	64	72	205	72	277	482	39	204	169	35
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	62	464	64	72	205	72	277	482	39	204	169	35
Added Vol:	1	0	0	0	0	0	1	40	5	0	2	0
ATI:	47	197	6	12	95	20	87	6	89	142	-11	41
Initial Fut:	110	661	70	84	300	92	365	528	133	346	160	76
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	110	661	70	84	300	92	365	528	133	346	160	76
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	110	661	70	84	300	92	365	528	133	346	160	76
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	110	661	70	84	300	92	365	528	133	346	160	76

Saturation Flow Module:

Sat/Lane:	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.00	1.00	1.00	1.53	0.47	0.71	1.03	0.26	1.00	0.74	0.26
Final Sat.:	1650	3300	1650	1650	2526	774	1174	1698	428	1650	1219	431

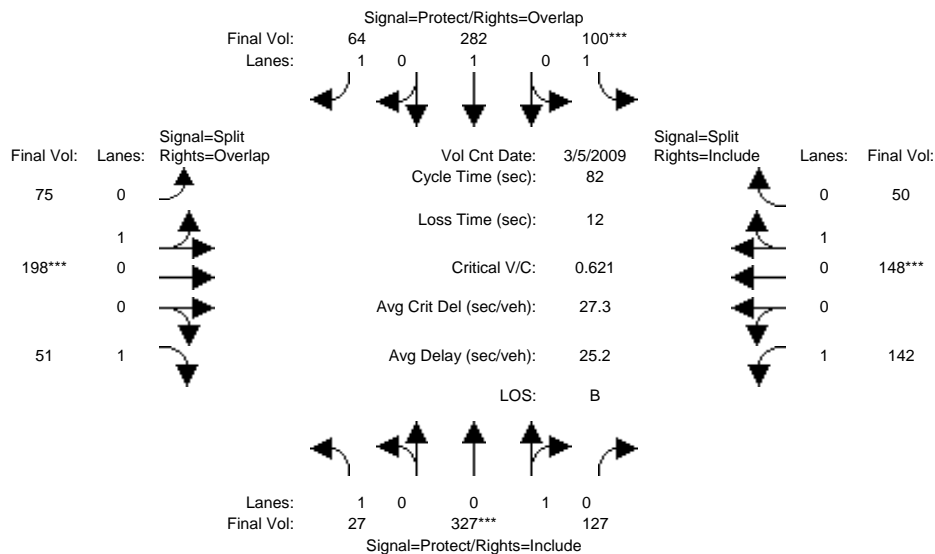
Capacity Analysis Module:

Vol/Sat:	0.07	0.20	0.04	0.05	0.12	0.12	0.31	0.31	0.31	0.21	0.13	0.18
Crit Volume:		331			84			513		346		
Crit Moves:		****			****			****		****		

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Existing AM

Intersection #28: Alameda De Las Pulgas/Brittan

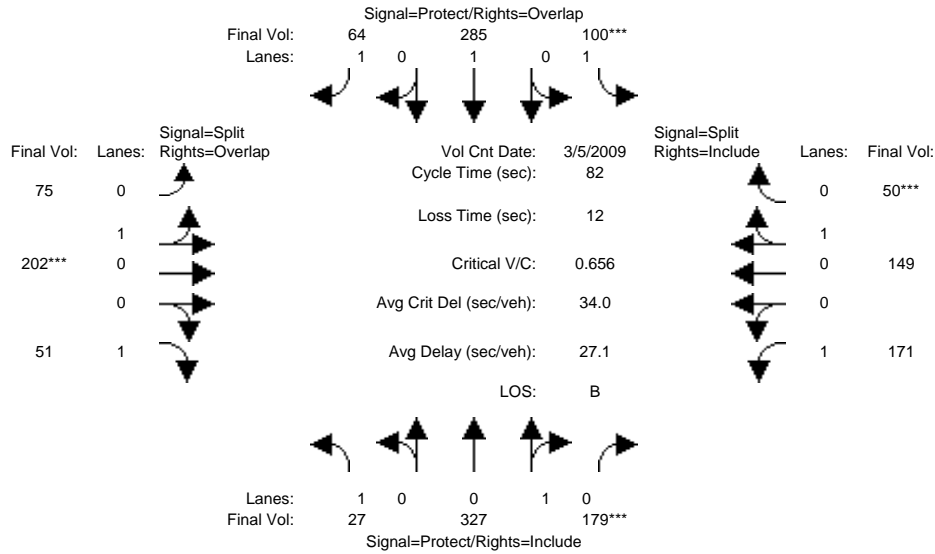


Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	5	10	10	5	10	10	5	5	5	5	5	5
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 5 Mar 2009 <<												
Base Vol:	27	327	127	100	282	64	75	198	51	142	148	50
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	27	327	127	100	282	64	75	198	51	142	148	50
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	27	327	127	100	282	64	75	198	51	142	148	50
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	27	327	127	100	282	64	75	198	51	142	148	50
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	27	327	127	100	282	64	75	198	51	142	148	50
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	27	327	127	100	282	64	75	198	51	142	148	50
Saturation Flow Module:												
Sat/Lane:	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.72	0.28	1.00	1.00	1.00	0.27	0.73	1.00	1.00	0.75	0.25
Final Sat.:	1650	1188	462	1650	1650	1650	453	1197	1650	1650	1233	417
Capacity Analysis Module:												
Vol/Sat:	0.02	0.28	0.28	0.06	0.17	0.04	0.17	0.17	0.03	0.09	0.12	0.12
Crit Volume:	454			100			273			198		
Crit Moves:	****			****			****			****		

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Bkgrd AM (Resid+Non-res)

Intersection #28: Alameda De Las Pulgas/Brittan

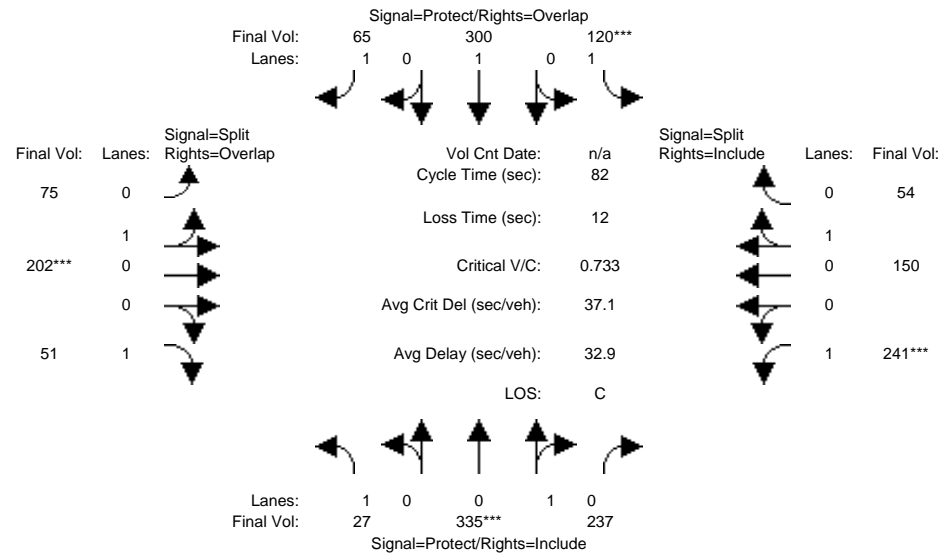


Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	5	10	10	5	10	10	5	5	5	5	5	5
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 5 Mar 2009 <<												
Base Vol:	27	327	127	100	282	64	75	198	51	142	148	50
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	27	327	127	100	282	64	75	198	51	142	148	50
Added Vol:	0	0	49	0	0	0	0	4	0	14	1	0
ResTrips:	0	0	3	0	3	0	0	0	0	15	0	0
Initial Fut:	27	327	179	100	285	64	75	202	51	171	149	50
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	27	327	179	100	285	64	75	202	51	171	149	50
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	27	327	179	100	285	64	75	202	51	171	149	50
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	27	327	179	100	285	64	75	202	51	171	149	50
Saturation Flow Module:												
Sat/Lane:	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.65	0.35	1.00	1.00	1.00	0.27	0.73	1.00	1.00	0.75	0.25
Final Sat.:	1650	1066	584	1650	1650	1650	447	1203	1650	1650	1235	415
Capacity Analysis Module:												
Vol/Sat:	0.02	0.31	0.31	0.06	0.17	0.04	0.17	0.17	0.03	0.10	0.12	0.12
Crit Volume:			506			100			277			199
Crit Moves:			***			***			***			***

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Project AM (Resid+Retail+Empl)

Intersection #28: Alameda De Las Pulgas/Brittan

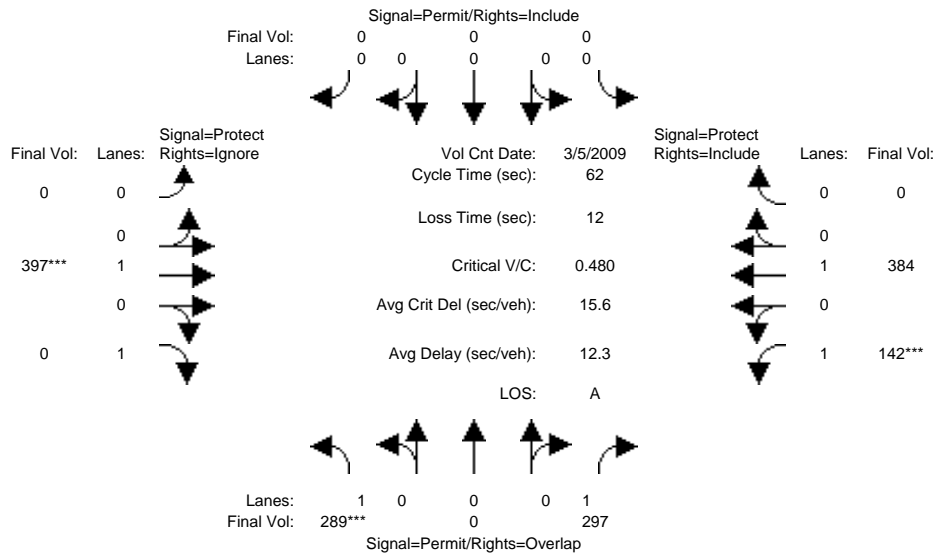


Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	5	10	10	5	10	10	5	5	5	5	5	5
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	27	327	179	100	285	64	75	202	51	171	149	50
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	27	327	179	100	285	64	75	202	51	171	149	50
Added Vol:	0	7	15	20	15	1	0	0	0	65	1	4
ATI:	0	1	43	0	0	0	0	0	0	5	0	0
Initial Fut:	27	335	237	120	300	65	75	202	51	241	150	54
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	27	335	237	120	300	65	75	202	51	241	150	54
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	27	335	237	120	300	65	75	202	51	241	150	54
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	27	335	237	120	300	65	75	202	51	241	150	54
Saturation Flow Module:												
Sat/Lane:	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.59	0.41	1.00	1.00	1.00	0.27	0.73	1.00	1.00	0.74	0.26
Final Sat.:	1650	966	684	1650	1650	1650	447	1203	1650	1650	1213	437
Capacity Analysis Module:												
Vol/Sat:	0.02	0.35	0.35	0.07	0.18	0.04	0.17	0.17	0.03	0.15	0.12	0.12
Crit Volume:		572		120				277		241		
Crit Moves:		****		****				****		****		

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Existing AM

Intersection #29: Alameda De Las Pulgas/San Carlos

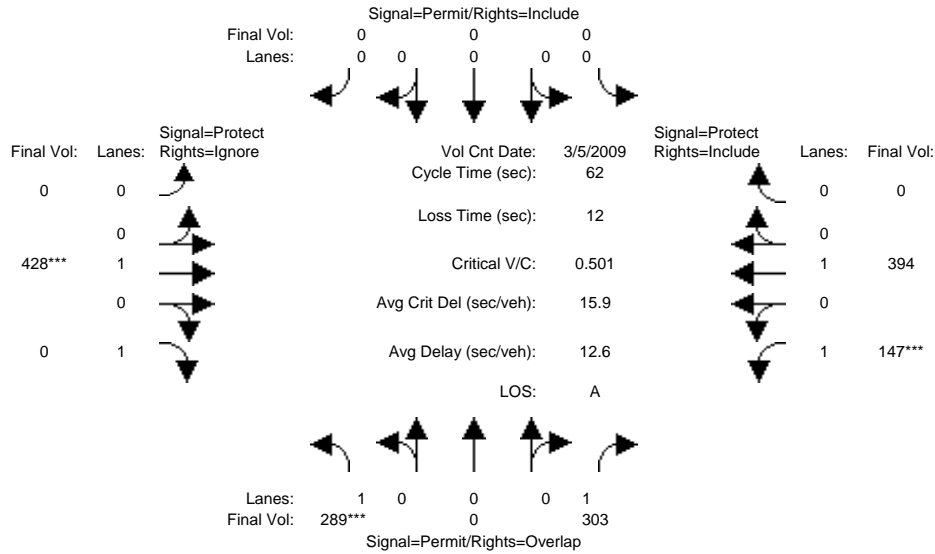


Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	4	4	4	0	0	0	0	7	7	4	7	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 5 Mar 2009 <<												
Base Vol:	289	0	297	0	0	0	0	397	254	142	384	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	289	0	297	0	0	0	0	397	254	142	384	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	289	0	297	0	0	0	0	397	254	142	384	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	289	0	297	0	0	0	0	397	0	142	384	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	289	0	297	0	0	0	0	397	0	142	384	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	289	0	297	0	0	0	0	397	0	142	384	0
Saturation Flow Module:												
Sat/Lane:	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.00
Final Sat.:	1725	0	1725	0	0	0	0	1725	1725	1725	1725	0
Capacity Analysis Module:												
Vol/Sat:	0.17	0.00	0.17	0.00	0.00	0.00	0.00	0.23	0.00	0.08	0.22	0.00
Crit Volume:	289					0		397		142		
Crit Moves:	***							***		***		

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Bkgrd AM (Resid+Non-res)

Intersection #29: Alameda De Las Pulgas/San Carlos

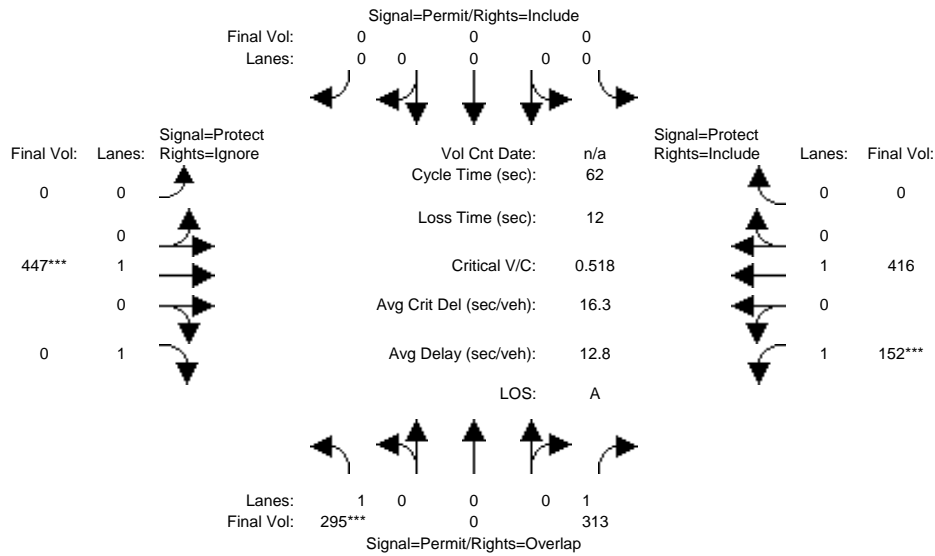


Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	4	4	4	0	0	0	0	7	7	4	7	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 5 Mar 2009 <<												
Base Vol:	289	0	297	0	0	0	0	397	254	142	384	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	289	0	297	0	0	0	0	397	254	142	384	0
Added Vol:	0	0	6	0	0	0	0	31	0	2	9	0
ResTrips:	0	0	0	0	0	0	0	0	0	3	1	0
Initial Fut:	289	0	303	0	0	0	0	428	254	147	394	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	289	0	303	0	0	0	0	428	0	147	394	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	289	0	303	0	0	0	0	428	0	147	394	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	289	0	303	0	0	0	0	428	0	147	394	0
Saturation Flow Module:												
Sat/Lane:	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.00
Final Sat.:	1725	0	1725	0	0	0	0	1725	1725	1725	1725	0
Capacity Analysis Module:												
Vol/Sat:	0.17	0.00	0.18	0.00	0.00	0.00	0.00	0.25	0.00	0.09	0.23	0.00
Crit Volume:	289							428		147		
Crit Moves:	***							***		***		

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Project AM (Resid+Retail+Empl)

Intersection #29: Alameda De Las Pulgas/San Carlos

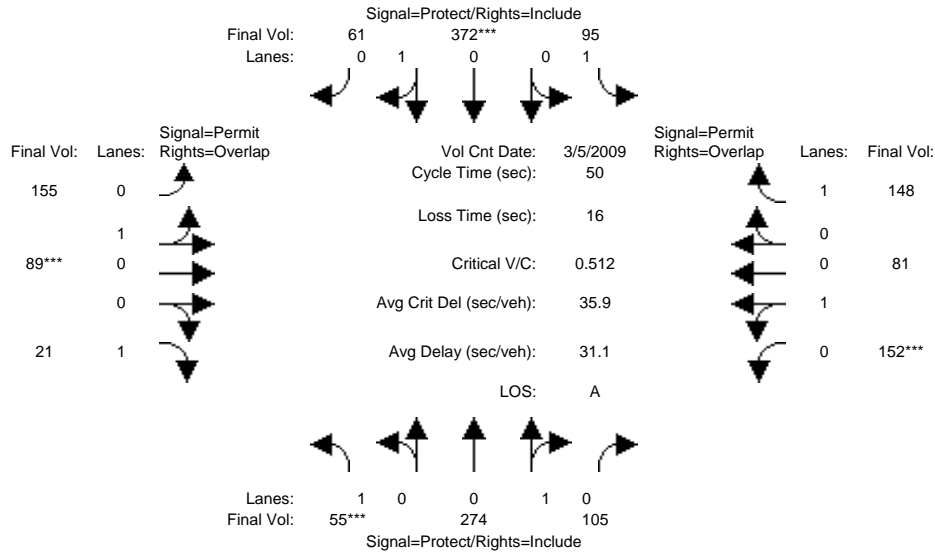


Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	4	4	4	0	0	0	0	7	7	4	7	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	289	0	303	0	0	0	0	429	254	147	394	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	289	0	303	0	0	0	0	429	254	147	394	0
Added Vol:	6	0	10	0	0	0	0	16	2	5	22	0
ATI:	0	0	0	0	0	0	0	2	0	0	0	0
Initial Fut:	295	0	313	0	0	0	0	447	256	152	416	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	295	0	313	0	0	0	0	447	0	152	416	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	295	0	313	0	0	0	0	447	0	152	416	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Final Volume:	295	0	313	0	0	0	0	447	0	152	416	0
Saturation Flow Module:												
Sat/Lane:	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.00
Final Sat.:	1725	0	1725	0	0	0	0	1725	1725	1725	1725	0
Capacity Analysis Module:												
Vol/Sat:	0.17	0.00	0.18	0.00	0.00	0.00	0.00	0.26	0.00	0.09	0.24	0.00
Crit Volume:	295							447		152		
Crit Moves:	***							***		***		

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Existing AM

Intersection #33: San Carlos/Dartmouth

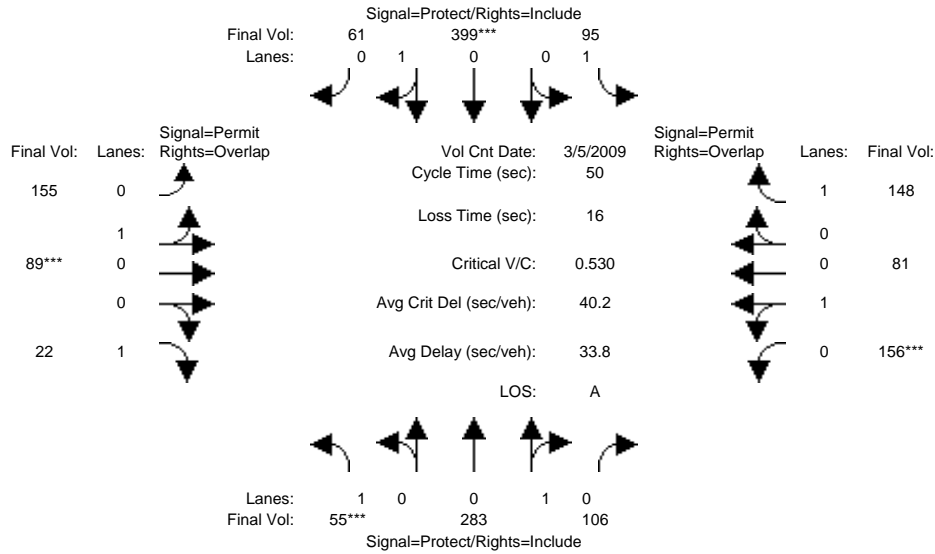


Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	4	10	10	4	10	10	4	4	4	4	4	4
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 5 Mar 2009 <<												
Base Vol:	55	274	105	95	372	61	155	89	21	152	81	148
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	55	274	105	95	372	61	155	89	21	152	81	148
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	55	274	105	95	372	61	155	89	21	152	81	148
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	55	274	105	95	372	61	155	89	21	152	81	148
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	55	274	105	95	372	61	155	89	21	152	81	148
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	55	274	105	95	372	61	155	89	21	152	81	148
Saturation Flow Module:												
Sat/Lane:	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.72	0.28	1.00	0.86	0.14	0.64	0.36	1.00	0.65	0.35	1.00
Final Sat.:	1725	1247	478	1725	1482	243	1096	629	1725	1125	600	1725
Capacity Analysis Module:												
Vol/Sat:	0.03	0.22	0.22	0.06	0.25	0.25	0.14	0.14	0.01	0.14	0.14	0.09
Crit Volume:	55			433			244			152		
Crit Moves:	***			****			****			****		

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Bkgrd AM (Resid+Non-res)

Intersection #33: San Carlos/Dartmouth

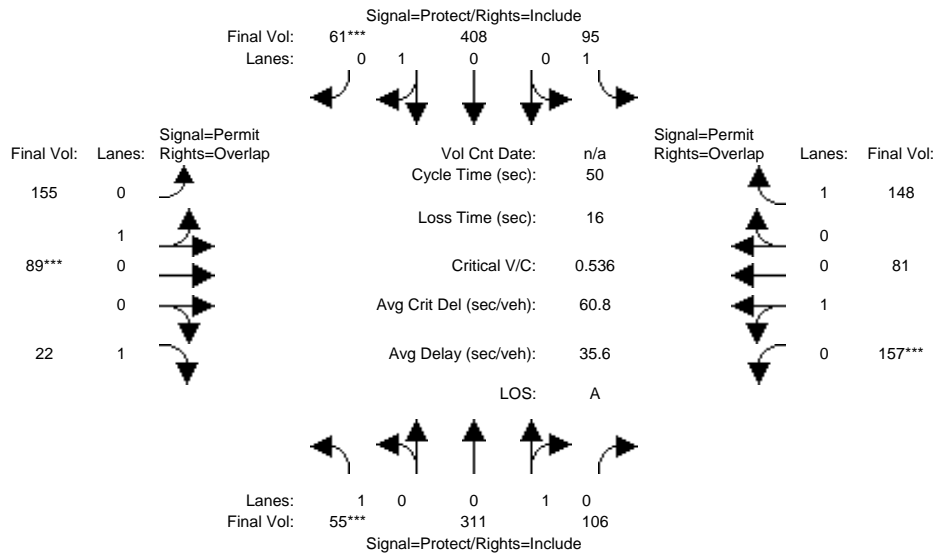


Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	4	10	10	4	10	10	4	4	4	4	4	4
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 5 Mar 2009 <<												
Base Vol:	55	274	105	95	372	61	155	89	21	152	81	148
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	55	274	105	95	372	61	155	89	21	152	81	148
Added Vol:	0	8	1	0	27	0	0	0	1	4	0	0
ResTrips:	0	1	0	0	0	0	0	0	0	0	0	0
Initial Fut:	55	283	106	95	399	61	155	89	22	156	81	148
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	55	283	106	95	399	61	155	89	22	156	81	148
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	55	283	106	95	399	61	155	89	22	156	81	148
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	55	283	106	95	399	61	155	89	22	156	81	148
Saturation Flow Module:												
Sat/Lane:	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.73	0.27	1.00	0.87	0.13	0.64	0.36	1.00	0.66	0.34	1.00
Final Sat.:	1725	1255	470	1725	1496	229	1096	629	1725	1135	590	1725
Capacity Analysis Module:												
Vol/Sat:	0.03	0.23	0.23	0.06	0.27	0.27	0.14	0.14	0.01	0.14	0.14	0.09
Crit Volume:	55			460			244			156		
Crit Moves:	***			***			***			***		

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Project AM (Resid+Retail+Empl)

Intersection #33: San Carlos/Dartmouth



Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	4	10	10	4	10	10	4	4	4	4	4	4
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Volume Module:

Base Vol:	55	283	106	95	399	61	155	89	22	157	81	148
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	55	283	106	95	399	61	155	89	22	157	81	148
Added Vol:	0	28	0	0	7	0	0	0	0	0	0	0
ATI:	0	0	0	0	2	0	0	0	0	0	0	0
Initial Fut:	55	311	106	95	408	61	155	89	22	157	81	148
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	55	311	106	95	408	61	155	89	22	157	81	148
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	55	311	106	95	408	61	155	89	22	157	81	148
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	55	311	106	95	408	61	155	89	22	157	81	148

Saturation Flow Module:

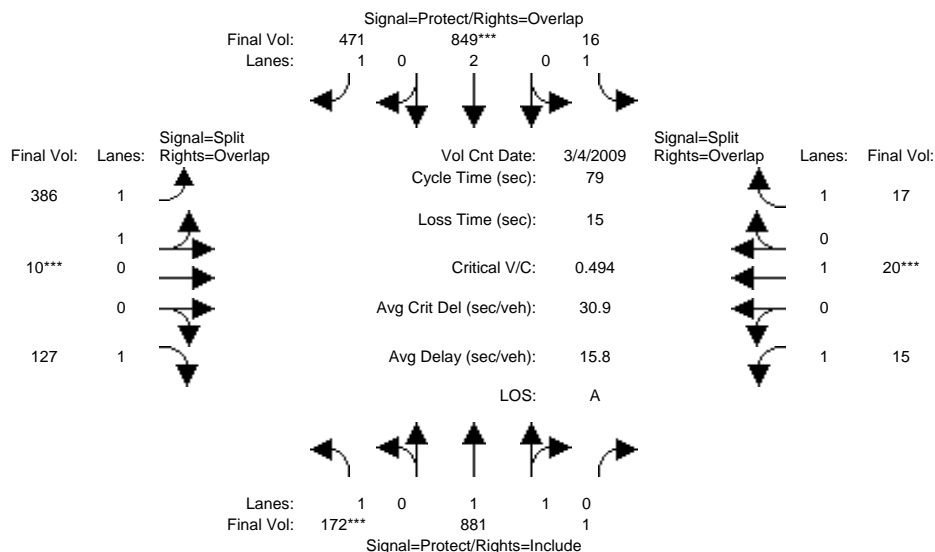
Sat/Lane:	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.75	0.25	1.00	0.87	0.13	0.64	0.36	1.00	0.66	0.34	1.00
Final Sat.:	1725	1287	438	1725	1501	224	1096	629	1725	1138	587	1725

Capacity Analysis Module:

Vol/Sat:	0.03	0.24	0.24	0.06	0.27	0.27	0.14	0.14	0.01	0.14	0.14	0.09
Crit Volume:	55					469		244		157		
Crit Moves:	***					***		***		***		

Level Of Service Computation Report
 Circular 212 Planning (Future Volume Alternative)
 Existing PM

Intersection #8: El Camino Real/San Carlos



Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	6	10	10	4	10	10	4	4	4	6	6	6
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Volume Module:	>> Count Date: 4 Mar 2009 <<											
Base Vol:	172	881	1	16	849	471	386	10	127	15	20	17
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	172	881	1	16	849	471	386	10	127	15	20	17
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	172	881	1	16	849	471	386	10	127	15	20	17
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	172	881	1	16	849	471	386	10	127	15	20	17
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	172	881	1	16	849	471	386	10	127	15	20	17
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	172	881	1	16	849	471	386	10	127	15	20	17

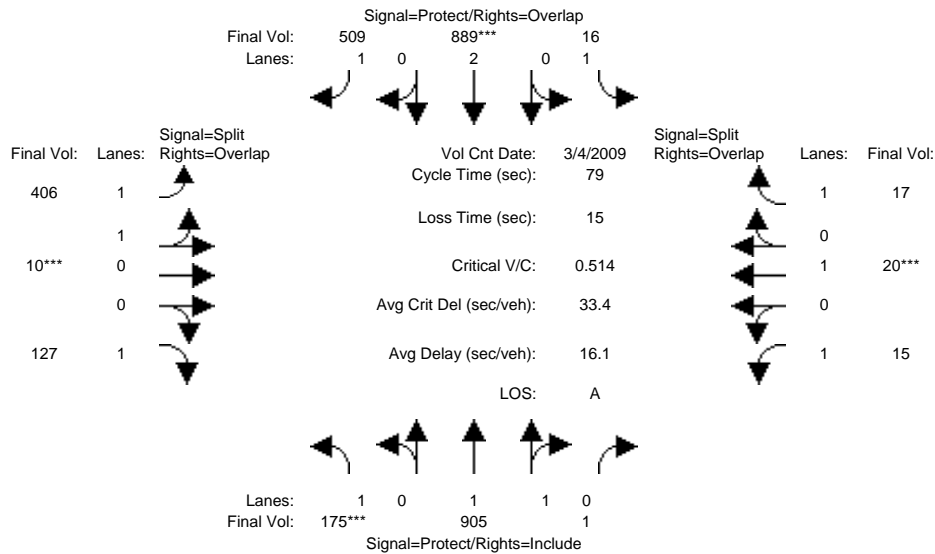
Saturation Flow Module:												
Sat/Lane:	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	1.99	0.01	1.00	2.00	1.00	1.95	0.05	1.00	1.00	1.00	1.00
Final Sat.:	1650	3296	4	1650	3300	1650	3217	83	1650	1650	1650	1650

Capacity Analysis Module:												
Vol/Sat:	0.10	0.27	0.27	0.01	0.26	0.29	0.12	0.12	0.08	0.01	0.01	0.01
Crit Volume:	172				425			198			20	
Crit Moves:	****				****			****			****	

City of San Carlos General Plan

Level Of Service Computation Report
 Circular 212 Planning (Future Volume Alternative)
 Bkgrd PM (Resid+Non-res)

Intersection #8: El Camino Real/San Carlos

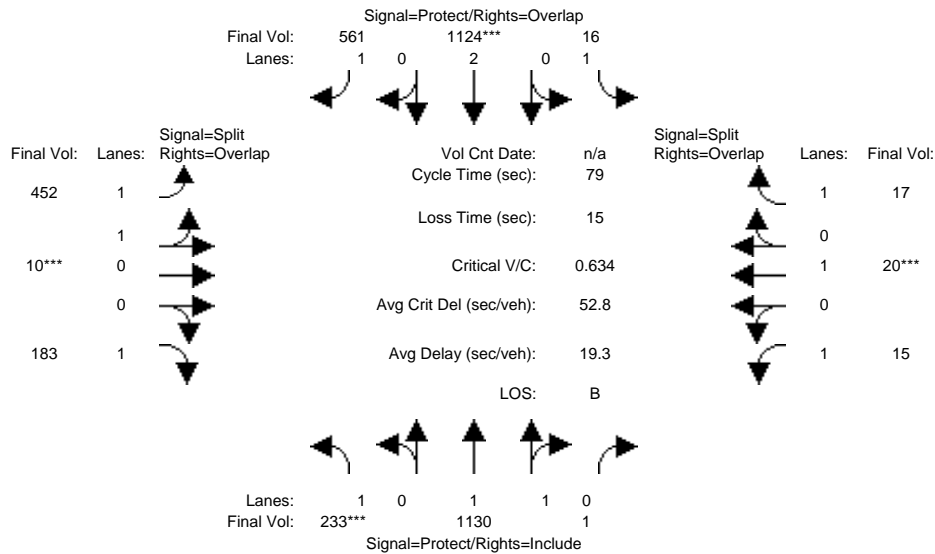


Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	6	10	10	4	10	10	4	4	4	6	6	6
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 4 Mar 2009 <<												
Base Vol:	172	881	1	16	849	471	386	10	127	15	20	17
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	172	881	1	16	849	471	386	10	127	15	20	17
Added Vol:	0	20	0	0	37	32	17	0	0	0	0	0
ResTrips:	3	4	0	0	3	6	3	0	0	0	0	0
Initial Fut:	175	905	1	16	889	509	406	10	127	15	20	17
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	175	905	1	16	889	509	406	10	127	15	20	17
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	175	905	1	16	889	509	406	10	127	15	20	17
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	175	905	1	16	889	509	406	10	127	15	20	17
Saturation Flow Module:												
Sat/Lane:	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	1.99	0.01	1.00	2.00	1.00	1.95	0.05	1.00	1.00	1.00	1.00
Final Sat.:	1650	3296	4	1650	3300	1650	3221	79	1650	1650	1650	1650
Capacity Analysis Module:												
Vol/Sat:	0.11	0.27	0.27	0.01	0.27	0.31	0.13	0.13	0.08	0.01	0.01	0.01
Crit Volume:	175				445			208			20	
Crit Moves:	***				***			***			***	

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Project PM (Resid+Retail+Empl)

Intersection #8: El Camino Real/San Carlos



Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	6	10	10	4	10	10	4	4	4	6	6	6
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Volume Module:

Base Vol:	175	905	1	16	889	509	406	10	127	15	20	17
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	175	905	1	16	889	509	406	10	127	15	20	17
Added Vol:	7	31	0	0	78	36	21	0	8	0	0	0
ATI:	51	194	0	0	157	16	25	0	48	0	0	0
Initial Fut:	233	1130	1	16	1124	561	452	10	183	15	20	17
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	233	1130	1	16	1124	561	452	10	183	15	20	17
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	233	1130	1	16	1124	561	452	10	183	15	20	17
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	233	1130	1	16	1124	561	452	10	183	15	20	17

Saturation Flow Module:

Sat/Lane:	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	1.99	0.01	1.00	2.00	1.00	1.96	0.04	1.00	1.00	1.00	1.00
Final Sat.:	1650	3297	3	1650	3300	1650	3229	71	1650	1650	1650	1650

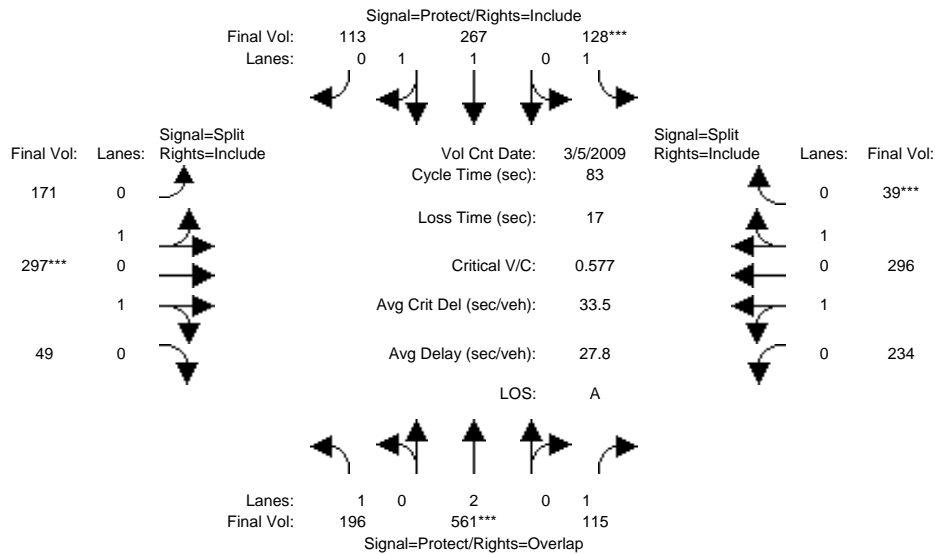
Capacity Analysis Module:

Vol/Sat:	0.14	0.34	0.34	0.01	0.34	0.34	0.14	0.14	0.11	0.01	0.01	0.01
Crit Volume:	233				562			231			20	
Crit Moves:	***				***			***			***	

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Existing PM

Intersection #20: Industrial/Brittan

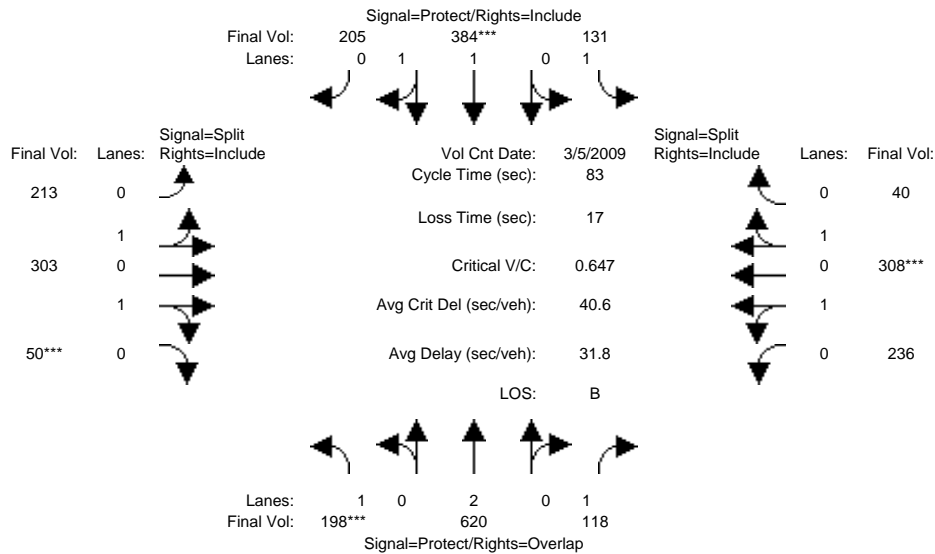


Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	3	8	8	3	8	8	3	3	3	3	3	3
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 5 Mar 2009 <<												
Base Vol:	196	561	115	128	267	113	171	297	49	234	296	39
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	196	561	115	128	267	113	171	297	49	234	296	39
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	196	561	115	128	267	113	171	297	49	234	296	39
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	196	561	115	128	267	113	171	297	49	234	296	39
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	196	561	115	128	267	113	171	297	49	234	296	39
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	196	561	115	128	267	113	171	297	49	234	296	39
Saturation Flow Module:												
Sat/Lane:	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.00	1.00	1.00	1.41	0.59	0.66	1.15	0.19	0.82	1.04	0.14
Final Sat.:	1650	3300	1650	1650	2319	981	1091	1896	313	1357	1717	226
Capacity Analysis Module:												
Vol/Sat:	0.12	0.17	0.07	0.08	0.12	0.12	0.16	0.16	0.16	0.17	0.17	0.17
Crit Volume:	281		128		259		285					
Crit Moves:	****			****			****			****		

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Bkgrd PM (Resid+Non-res)

Intersection #20: Industrial/Brittan

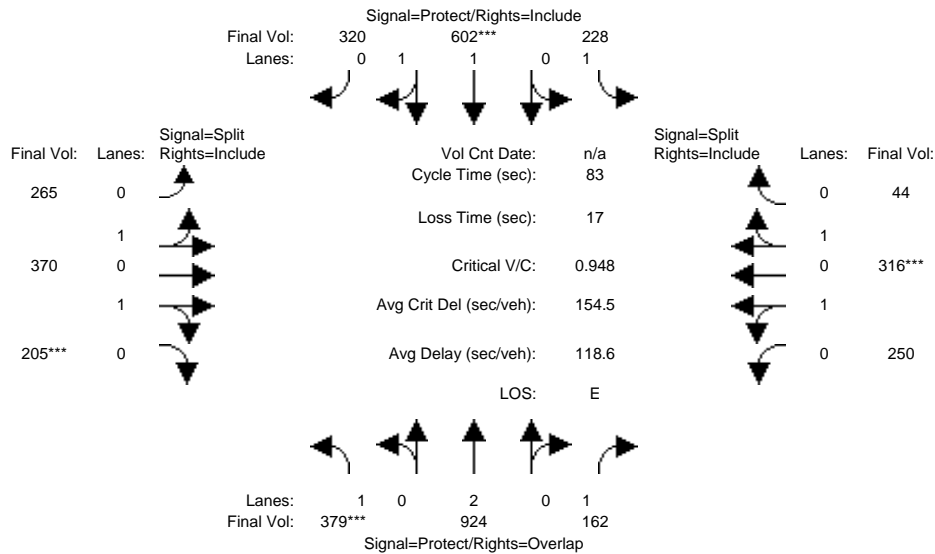


Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	3	8	8	3	8	8	3	3	3	3	3	3
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 5 Mar 2009 <<												
Base Vol:	196	561	115	128	267	113	171	297	49	234	296	39
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	196	561	115	128	267	113	171	297	49	234	296	39
Added Vol:	2	59	3	3	117	92	42	4	1	2	6	1
ResTrips:	0	0	0	0	0	0	0	2	0	0	6	0
Initial Fut:	198	620	118	131	384	205	213	303	50	236	308	40
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	198	620	118	131	384	205	213	303	50	236	308	40
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	198	620	118	131	384	205	213	303	50	236	308	40
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	198	620	118	131	384	205	213	303	50	236	308	40
Saturation Flow Module:												
Sat/Lane:	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.00	1.00	1.00	1.30	0.70	0.75	1.07	0.18	0.81	1.05	0.14
Final Sat.:	1650	3300	1650	1650	2151	1149	1242	1767	292	1334	1740	226
Capacity Analysis Module:												
Vol/Sat:	0.12	0.19	0.07	0.08	0.18	0.18	0.17	0.17	0.17	0.18	0.18	0.18
Crit Volume:	198				295				283		292	
Crit Moves:	***				***				***		***	

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Project PM (Resid+Retail+Empl)

Intersection #20: Industrial/Brittan



Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	3	8	8	3	8	8	3	3	3	3	3	3
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Volume Module:												
Base Vol:	198	620	118	131	384	205	213	303	50	236	308	40
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	198	620	118	131	384	205	213	303	50	236	308	40
Added Vol:	5	0	0	0	0	1	0	20	3	0	9	0
ATI:	176	304	44	97	218	114	52	47	152	14	-1	4
Initial Fut:	379	924	162	228	602	320	265	370	205	250	316	44
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	379	924	162	228	602	320	265	370	205	250	316	44
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	379	924	162	228	602	320	265	370	205	250	316	44
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	379	924	162	228	602	320	265	370	205	250	316	44

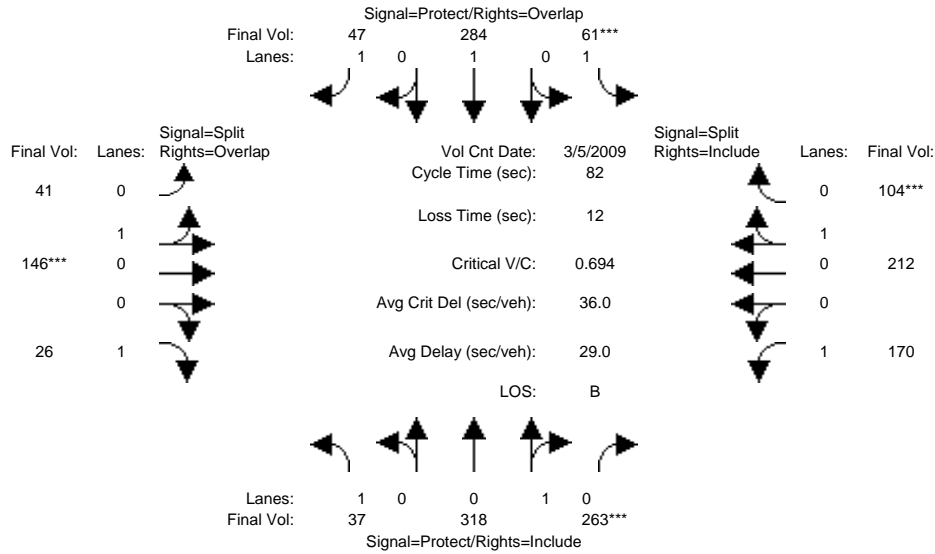
Saturation Flow Module:												
Sat/Lane:	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	2.00	1.00	1.00	1.31	0.69	0.63	0.88	0.49	0.82	1.04	0.14
Final Sat.:	1650	3300	1650	1650	2155	1145	1041	1454	805	1352	1710	238

Capacity Analysis Module:												
Vol/Sat:	0.23	0.28	0.10	0.14	0.28	0.28	0.25	0.25	0.25	0.18	0.18	0.18
Crit Volume:	379				461				420		305	
Crit Moves:	***				***				***		***	

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Existing PM

Intersection #28: Alameda De Las Pulgas/Brittan

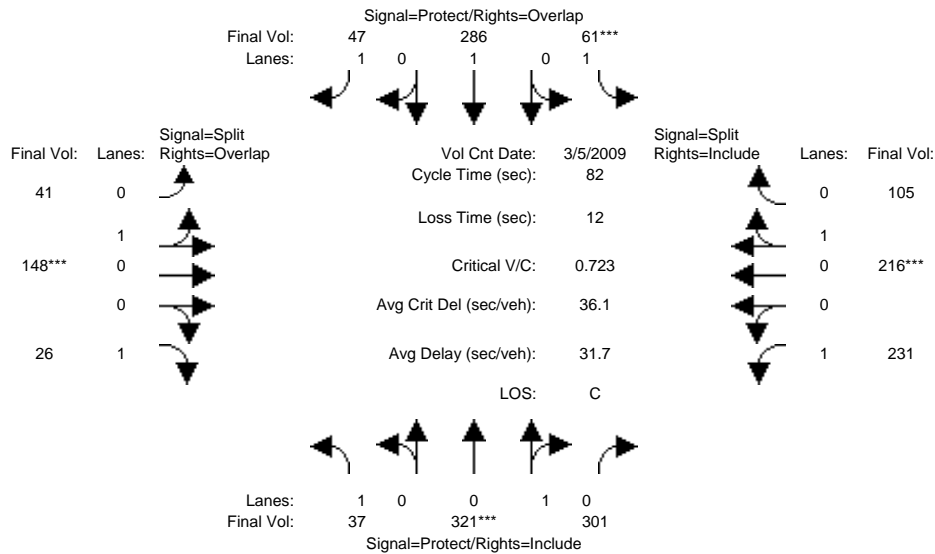


Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	5	10	10	5	10	10	5	5	5	5	5	5
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 5 Mar 2009 <<												
Base Vol:	37	318	263	61	284	47	41	146	26	170	212	104
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	37	318	263	61	284	47	41	146	26	170	212	104
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	37	318	263	61	284	47	41	146	26	170	212	104
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	37	318	263	61	284	47	41	146	26	170	212	104
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	37	318	263	61	284	47	41	146	26	170	212	104
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	37	318	263	61	284	47	41	146	26	170	212	104
Saturation Flow Module:												
Sat/Lane:	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.55	0.45	1.00	1.00	1.00	0.22	0.78	1.00	1.00	0.67	0.33
Final Sat.:	1650	903	747	1650	1650	1650	362	1288	1650	1650	1107	543
Capacity Analysis Module:												
Vol/Sat:	0.02	0.35	0.35	0.04	0.17	0.03	0.11	0.11	0.02	0.10	0.19	0.19
Crit Volume:			581			61			187			316
Crit Moves:			***			***			***			***

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Bkgrd PM (Resid+Non-res)

Intersection #28: Alameda De Las Pulgas/Brittan

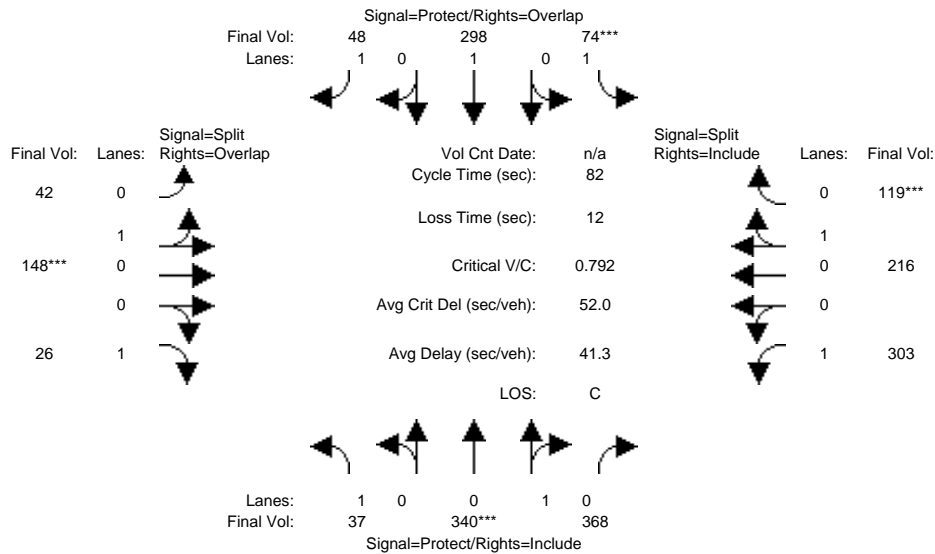


Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	5	10	10	5	10	10	5	5	5	5	5	5
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 5 Mar 2009 <<												
Base Vol:	37	318	263	61	284	47	41	146	26	170	212	104
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	37	318	263	61	284	47	41	146	26	170	212	104
Added Vol:	0	0	23	0	0	0	0	2	0	54	4	1
ResTrips:	0	3	15	0	2	0	0	0	0	7	0	0
Initial Fut:	37	321	301	61	286	47	41	148	26	231	216	105
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	37	321	301	61	286	47	41	148	26	231	216	105
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	37	321	301	61	286	47	41	148	26	231	216	105
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	37	321	301	61	286	47	41	148	26	231	216	105
Saturation Flow Module:												
Sat/Lane:	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.52	0.48	1.00	1.00	1.00	0.22	0.78	1.00	1.00	0.67	0.33
Final Sat.:	1650	852	798	1650	1650	1650	358	1292	1650	1650	1110	540
Capacity Analysis Module:												
Vol/Sat:	0.02	0.38	0.38	0.04	0.17	0.03	0.11	0.11	0.02	0.14	0.19	0.19
Crit Volume:	622			61			189			321		
Crit Moves:	****			****			****			****		

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Project PM (Resid+Retail+Empl)

Intersection #28: Alameda De Las Pulgas/Brittan



Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	5	10	10	5	10	10	5	5	5	5	5	5
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Volume Module:

Base Vol:	37	321	301	61	286	47	41	148	26	231	216	105
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	37	321	301	61	286	47	41	148	26	231	216	105
Added Vol:	0	19	63	13	11	1	1	0	0	32	0	14
ATI:	0	0	4	0	1	0	0	0	0	40	0	0
Initial Fut:	37	340	368	74	298	48	42	148	26	303	216	119
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	37	340	368	74	298	48	42	148	26	303	216	119
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	37	340	368	74	298	48	42	148	26	303	216	119
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	37	340	368	74	298	48	42	148	26	303	216	119

Saturation Flow Module:

Sat/Lane:	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.48	0.52	1.00	1.00	1.00	0.22	0.78	1.00	1.00	0.64	0.36
Final Sat.:	1650	792	858	1650	1650	1650	365	1285	1650	1650	1064	586

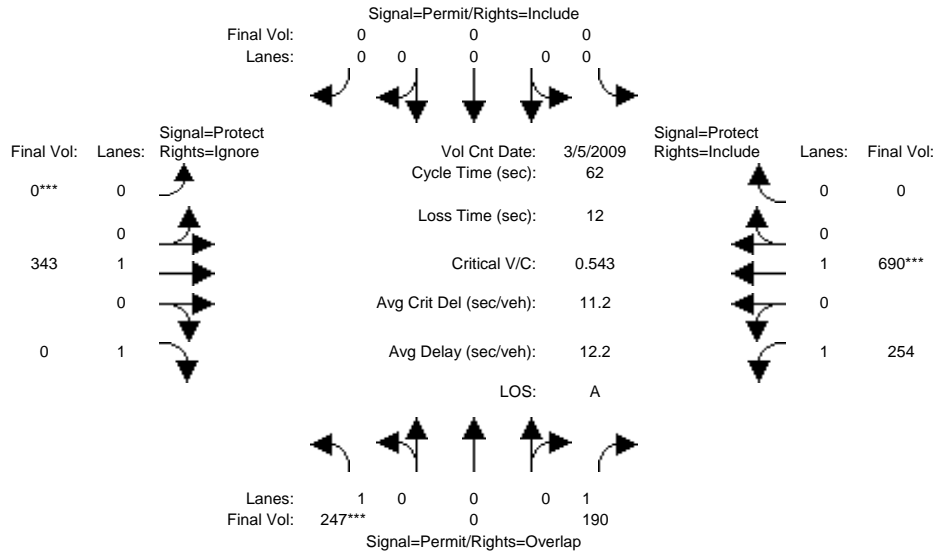
Capacity Analysis Module:

Vol/Sat:	0.02	0.43	0.43	0.04	0.18	0.03	0.12	0.12	0.02	0.18	0.20	0.20
Crit Volume:		708		74				190				335
Crit Moves:		****		****				****				****

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Existing PM

Intersection #29: Alameda De Las Pulgas/San Carlos

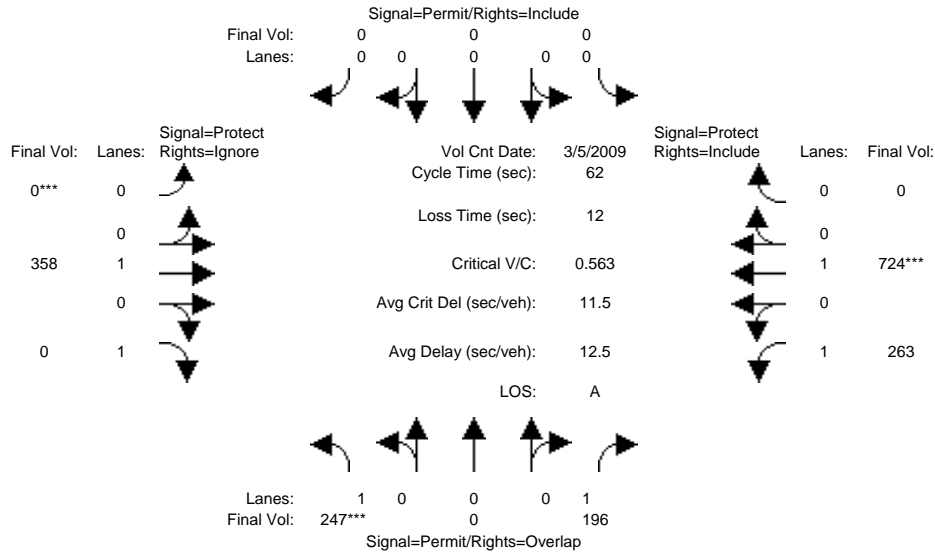


Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	4	4	4	0	0	0	0	7	7	4	7	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 5 Mar 2009 <<												
Base Vol:	247	0	190	0	0	0	0	343	266	254	690	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	247	0	190	0	0	0	0	343	266	254	690	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	247	0	190	0	0	0	0	343	266	254	690	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	247	0	190	0	0	0	0	343	0	254	690	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	247	0	190	0	0	0	0	343	0	254	690	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
FinalVolume:	247	0	190	0	0	0	0	343	0	254	690	0
Saturation Flow Module:												
Sat/Lane:	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.00
Final Sat.:	1725	0	1725	0	0	0	0	1725	1725	1725	1725	0
Capacity Analysis Module:												
Vol/Sat:	0.14	0.00	0.11	0.00	0.00	0.00	0.00	0.20	0.00	0.15	0.40	0.00
Crit Volume:	247							0			690	
Crit Moves:	****							****			****	

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Bkgrd PM (Resid+Non-res)

Intersection #29: Alameda De Las Pulgas/San Carlos

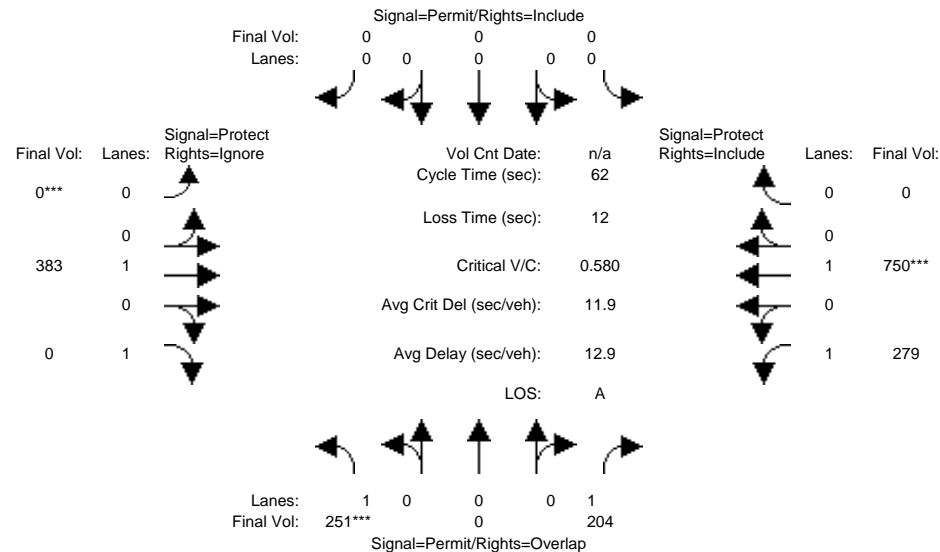


Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	4	4	4	0	0	0	0	7	7	4	7	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 5 Mar 2009 <<												
Base Vol:	247	0	190	0	0	0	0	343	266	254	690	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	247	0	190	0	0	0	0	343	266	254	690	0
Added Vol:	0	0	3	0	0	0	0	14	0	7	34	0
ResTrips:	0	0	3	0	0	0	0	1	0	2	0	0
Initial Fut:	247	0	196	0	0	0	0	358	266	263	724	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	247	0	196	0	0	0	0	358	0	263	724	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	247	0	196	0	0	0	0	358	0	263	724	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Final Volume:	247	0	196	0	0	0	0	358	0	263	724	0
Saturation Flow Module:												
Sat/Lane:	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.00
Final Sat.:	1725	0	1725	0	0	0	0	1725	1725	1725	1725	0
Capacity Analysis Module:												
Vol/Sat:	0.14	0.00	0.11	0.00	0.00	0.00	0.00	0.21	0.00	0.15	0.42	0.00
Crit Volume:	247				0			0			724	
Crit Moves:	***							***			***	

City of San Carlos General Plan

Level Of Service Computation Report
 Circular 212 Planning (Future Volume Alternative)
 Project PM (Resid+Retail+Empl)

Intersection #29: Alameda De Las Pulgas/San Carlos



Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	4	4	4	0	0	0	0	7	7	4	7	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Volume Module:

Base Vol:	247	0	196	0	0	0	0	358	266	263	724	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	247	0	196	0	0	0	0	358	266	263	724	0
Added Vol:	4	0	8	0	0	0	0	25	6	16	25	0
ATI:	0	0	0	0	0	0	0	0	0	0	1	0
Initial Fut:	251	0	204	0	0	0	0	383	272	279	750	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
PHF Volume:	251	0	204	0	0	0	0	383	0	279	750	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	251	0	204	0	0	0	0	383	0	279	750	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Final Volume:	251	0	204	0	0	0	0	383	0	279	750	0

Saturation Flow Module:

Sat/Lane:	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.00
Final Sat.:	1725	0	1725	0	0	0	0	1725	1725	1725	1725	0

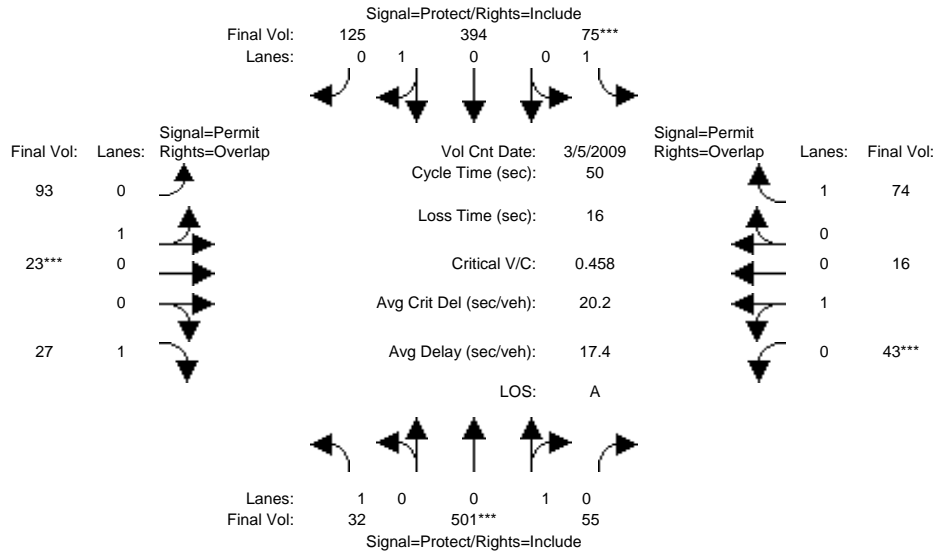
Capacity Analysis Module:

Vol/Sat:	0.15	0.00	0.12	0.00	0.00	0.00	0.00	0.22	0.00	0.16	0.43	0.00
Crit Volume:	251				0			0			750	
Crit Moves:	****							****			****	

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Existing PM

Intersection #33: San Carlos/Dartmouth

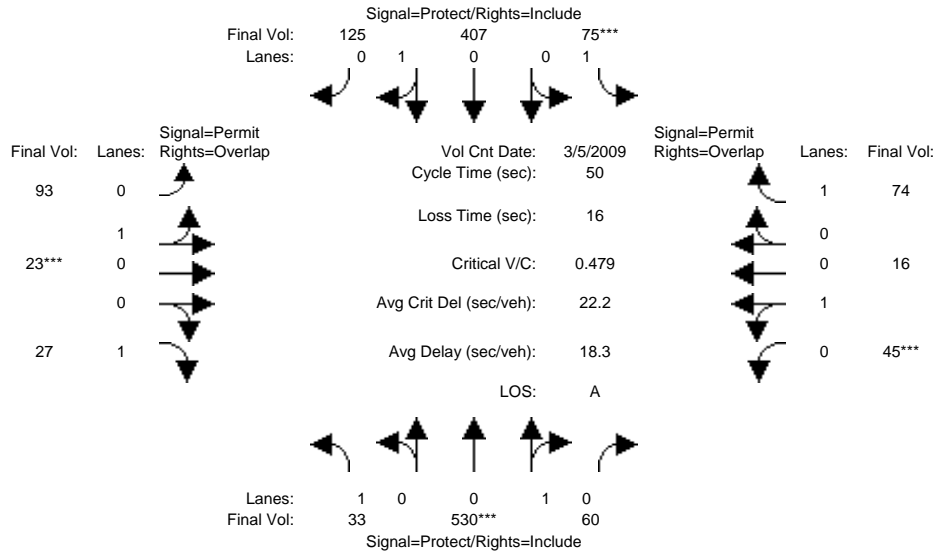


Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	4	10	10	4	10	10	4	4	4	4	4	4
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 5 Mar 2009 <<												
Base Vol:	32	501	55	75	394	125	93	23	27	43	16	74
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	32	501	55	75	394	125	93	23	27	43	16	74
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	32	501	55	75	394	125	93	23	27	43	16	74
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	32	501	55	75	394	125	93	23	27	43	16	74
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	32	501	55	75	394	125	93	23	27	43	16	74
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	32	501	55	75	394	125	93	23	27	43	16	74
Saturation Flow Module:												
Sat/Lane:	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.90	0.10	1.00	0.76	0.24	0.80	0.20	1.00	0.73	0.27	1.00
Final Sat.:	1725	1554	171	1725	1310	415	1383	342	1725	1257	468	1725
Capacity Analysis Module:												
Vol/Sat:	0.02	0.32	0.32	0.04	0.30	0.30	0.07	0.07	0.02	0.03	0.03	0.04
Crit Volume:	556			75			116			43		
Crit Moves:	****			****			****			****		

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Bkgrd PM (Resid+Non-res)

Intersection #33: San Carlos/Dartmouth

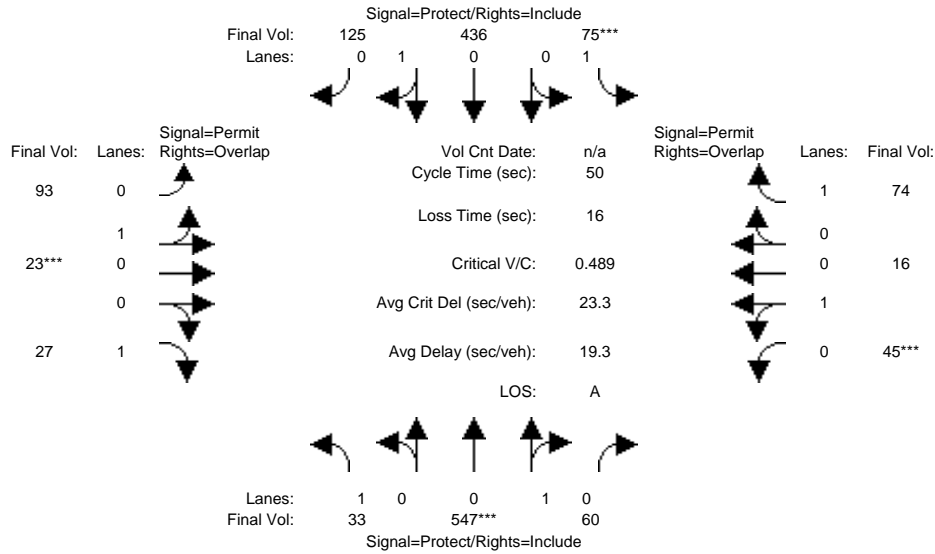


Approach:	North Bound			South Bound			East Bound			West Bound		
	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	4	10	10	4	10	10	4	4	4	4	4	4
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module: >> Count Date: 5 Mar 2009 <<												
Base Vol:	32	501	55	75	394	125	93	23	27	43	16	74
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	32	501	55	75	394	125	93	23	27	43	16	74
Added Vol:	1	29	5	0	12	0	0	0	0	2	0	0
ResTrips:	0	0	0	0	1	0	0	0	0	0	0	0
Initial Fut:	33	530	60	75	407	125	93	23	27	45	16	74
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	33	530	60	75	407	125	93	23	27	45	16	74
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	33	530	60	75	407	125	93	23	27	45	16	74
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	33	530	60	75	407	125	93	23	27	45	16	74
Saturation Flow Module:												
Sat/Lane:	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.90	0.10	1.00	0.77	0.23	0.80	0.20	1.00	0.74	0.26	1.00
Final Sat.:	1725	1550	175	1725	1320	405	1383	342	1725	1273	452	1725
Capacity Analysis Module:												
Vol/Sat:	0.02	0.34	0.34	0.04	0.31	0.31	0.07	0.07	0.02	0.04	0.04	0.04
Crit Volume:	590			75			116			45		
Crit Moves:	****			****			****			****		

City of San Carlos General Plan

Level Of Service Computation Report
Circular 212 Planning (Future Volume Alternative)
Project PM (Resid+Retail+Empl)

Intersection #33: San Carlos/Dartmouth



Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Min. Green:	4	10	10	4	10	10	4	4	4	4	4	4
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Volume Module:												
Base Vol:	33	530	60	75	407	125	93	23	27	45	16	74
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	33	530	60	75	407	125	93	23	27	45	16	74
Added Vol:	0	15	0	0	29	0	0	0	0	0	0	0
ATI:	0	2	0	0	0	0	0	0	0	0	0	0
Initial Fut:	33	547	60	75	436	125	93	23	27	45	16	74
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	33	547	60	75	436	125	93	23	27	45	16	74
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	33	547	60	75	436	125	93	23	27	45	16	74
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Volume:	33	547	60	75	436	125	93	23	27	45	16	74
Saturation Flow Module:												
Sat/Lane:	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725	1725
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	0.90	0.10	1.00	0.78	0.22	0.80	0.20	1.00	0.74	0.26	1.00
Final Sat.:	1725	1554	171	1725	1341	384	1383	342	1725	1273	452	1725
Capacity Analysis Module:												
Vol/Sat:	0.02	0.35	0.35	0.04	0.33	0.33	0.07	0.07	0.02	0.04	0.04	0.04
Crit Volume:		607			75			116			45	
Crit Moves:		****			****			****			****	

Scenario: **Existing Conditions**

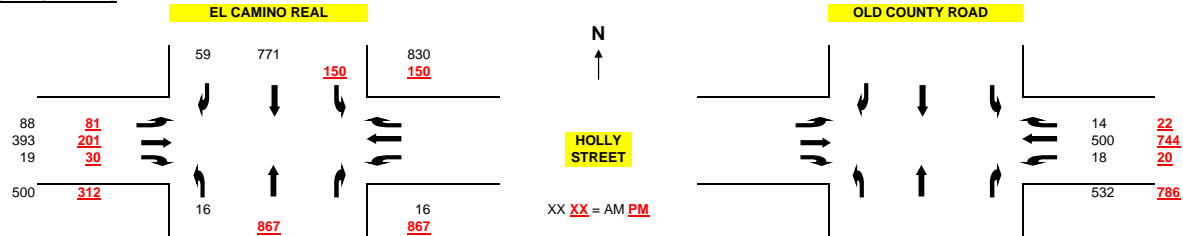
Date:
West Inter: El Camino Real & Holly Street
Node # 6

	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL	N-S Critical Volumes:			
													SBT&NBL	SBL&NBT		
AM Vol:	59	771	186	86	240	361	476	623	16	19	393	88	431	405	SBT&NBL	431
PM Vol:	74	748	150	221	390	527	325	867	19	30	201	81	430	509	SBL&NBT	509
# of lanes:	0.5	1.5	2	1	1	2	2	2	1	0.5	1	0.5	= shared lanes			

East Inter: Old County Road & Holly Street
Node # 5

	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL
AM Vol:	98	102	29	14	500	18	58	93	80	105	800	129
PM Vol:	201	134	34	22	744	20	54	182	164	77	485	101
# of lanes:	1	1	1	0.5	1	0.5	1	1	1	1	1.5	0.5

CRITICAL MOVEMENTS



AM Peak Hour

Intersection	Direction	Volume	Number of Lanes	Volume Per Lane	Total Capacity	Total V/C
El Camino Real/Holly	NB	16	1	16		
	EB	500	2	250		
	SB	830	2	415		
Old County/Holly	WB	532	2	266		
Total		1878	7	947	1650	0.574

PM Peak Hour

Intersection	Direction	Volume	Number of Lanes	Volume Per Lane	Total Capacity	Total V/C
El Camino Real/Holly	NB	867	2	434		
	EB	312	2	156		
	SB	150	2	75		
Old County/Holly	WB	786	2	393		
Total		2115	8	1058	1650	0.641

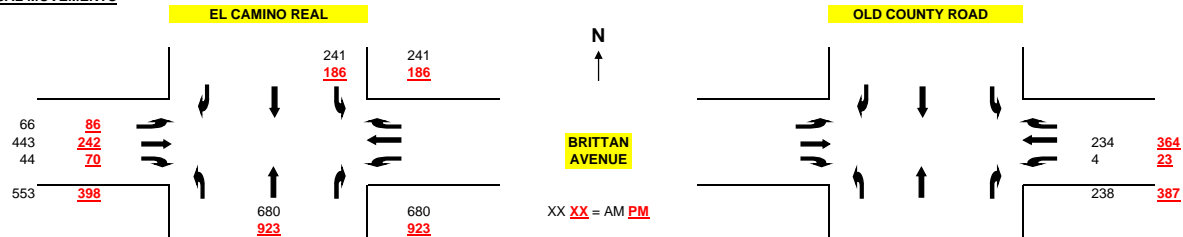
West Inter: El Camino Real & Brittan Avenue
Node # 15

	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL	N-S Critical Volumes:			
													SBT&NBL	SBL&NBT		
AM Vol:	52	769	241	57	190	110	98	680	68	44	443	66	342	461	SBL&NBT	461
PM Vol:	66	817	186	168	276	189	72	923	103	70	242	86	397	555	SBL&NBT	555
# of lanes:	0.5	2.5	2	1	1.5	0.5	1	2	1	0.5	1	0.5	= shared lanes			

East Inter: Old County Road & Brittan Avenue
Node # 16

	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL
AM Vol:	64	64	39	9	234	4	10	122	40	39	636	128
PM Vol:	175	129	37	55	364	23	15	196	101	70	347	99
# of lanes:	1	1	1	1	1.5	0.5	0.5	0.5	1	1	1.5	0.5

CRITICAL MOVEMENTS



AM Peak Hour

Intersection	Direction	Volume	Number of Lanes	Volume Per Lane	Total Capacity	Total V/C
El Camino Real/Brittan	NB	680	2	340		
	EB	553	2	277		
	SB	241	2	121		
Old County/Brittan	WB	238	2	119		
Total		1712	8	856	1650	0.519

PM Peak Hour

Intersection	Direction	Volume	Number of Lanes	Volume Per Lane	Total Capacity	Total V/C
El Camino Real/Holly	NB	923	2	462		
	EB	398	2	199		
	SB	186	2	93		
Old County/Holly	WB	387	2	194		
Total		1894	8	947	1650	0.574

Scenario: **Existing Conditions**

West Inters El Camino Real & Howard Avenue

Node # 18

	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL
AM Vol:	22	792	98	41	71	96	237	717	22	31	232	62
PM Vol:	68	1014	51	144	298	338	186	896	52	32	134	72
# of lanes:	0.5	2.5	1	1	1	1	1	2	1	0.5	1	0.5

N-S Critical Volumes:

SBT&NBL	SBL&NBT	SBL&NBT	SBL&NBT
293	457	457	457
413	499	499	499

= shared lanes

East Inters Old County Road & Howard Avenue

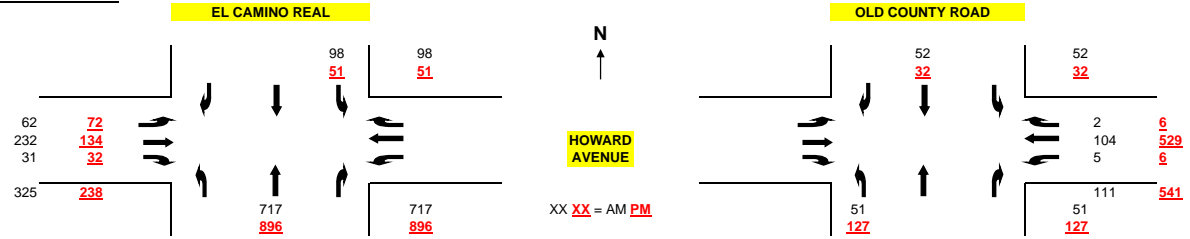
Node # 19

	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL
AM Vol:	25	52	11	2	104	5	22	62	51	120	322	130
PM Vol:	81	32	7	6	529	6	16	114	127	51	211	113
# of lanes:	1	1	1	0.5	1	0.5	1	1	1	1	1.5	0.5

N-S Critical Volumes:

SBT&NBL	SBL&NBT	SBL&NBT	SBL&NBT
103	73	73	73
159	121	121	121

CRITICAL MOVEMENTS



AM Peak Hour

Intersection	Direction	Volume	Number of Lanes	Volume Per Lane	Total Capacity	Total V/C
El Camino Real/Howard	NB	717	2	359		
	EB	325	2	163		
	SB	98	1	98		
Old County/Howard	NB	51	1	51		
	WB	111	2	56		
	SB	52	1	52		
Total		1354	9	778	1650	0.471

PM Peak Hour

Intersection	Direction	Volume	Number of Lanes	Volume Per Lane	Total Capacity	Total V/C
El Camino Real/Holly	NB	896	2	448		
	EB	238	2	119		
	SB	51	1	51		
Old County/Holly	NB	127	1	127		
	WB	541	2	271		
	SB	32	1	32		
Total		1885	9	1048	1650	0.635

Summary

Scenario: **Existing Conditions**

Intersection:	AM V/C	PM V/C
El Camino Real & Holly Street		
Old County Road & Holly Street	0.574	0.641
El Camino Real & Brittan Avenue		
Old County Road & Brittan Avenue	0.519	0.574
El Camino Real & Howard Avenue		
Old County Road & Howard Avenue	0.471	0.635

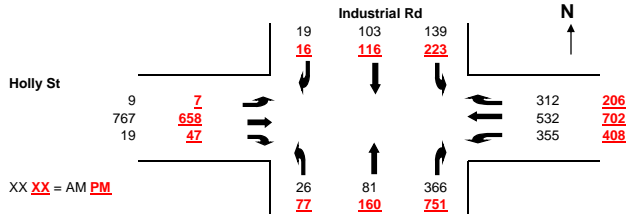
Scenario: **Existing Conditions**

LOS Calculation for the intersections of Industrial and Holly (based on critical movements)

Intersections: Industrial Road and Holly Street

Scenario: **Existing Conditions**

Node #	4															
	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL				
AM Vol:	19	103	139	312	532	355	366	81	26	19	767	9	2728			
PM Vol:	16	116	223	206	702	408	751	160	77	47	658	7	3371			
# of lanes:	0.5	1.5	2	1	2	2	2	1	1	0.5	2.0	0.5	16			



N-S Critical Volumes:

N-S critical volumes = maximum of SBT&NBL, SBL&NBT, or SBL&NBR

NBR = total NBR volume * 87% (lane utilization factor) minus the WB maximum volume (NBR controlled by green arrow)

SBT	NBL	SBL	NBT	NBR	SBT&NBL	SBL&NBT	SBL&NBR	Crit Mvmt
= $(SBR+SBT)/2$	= $NBL/1$	= $SBL/2$	= $NBT/1$	= $(NBR*.87)-WB\ Max$				
61	26	70	81	52	87	151	122	SBL&NBT
66	77	112	160	302	143	272	414	SBL&NBR

NB Crit	SB Crit
81	70
302	112

E-W Critical Volumes:

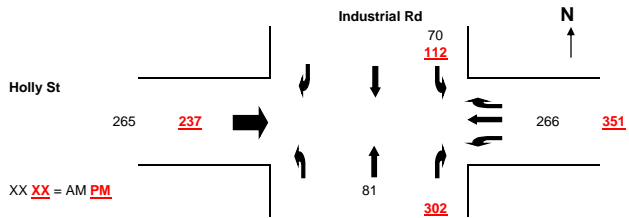
EB critical movement = total EB approach volume divided by total number of EB approach lanes

WB critical movement = maximum of WBR - SBL, WBT, or WBL

EB Crit = $(EBL+EBT+EBR)/3$

WB = WB Max

EB Crit	WB Max =			WB Crit Mvmt	WB Crit
	$WBR/1-SBL/2$	WBT/2	WBL/2		
265	242.5	266	178	WBT	266
237	94.5	351	204	WBL	351



V/C (AM) =	NB	SB	EB	WB	=	$\frac{682}{1650}$	=	0.413	A
VC (PM) =	302	112	237	351	=	$\frac{1002}{1650}$	=	0.607	B

Scenario: **Future Conditions**

Date:

West Inters El Camino Real & Holly Street

Node # 6

	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL
AM Vol:	59	773	196	89	243	381	556	624	16	19	401	88
PM Vol:	74	751	154	231	404	602	366	870	19	30	205	81
# of lanes:	0.5	1.5	2	1	1	2	2	2	1	0.5	1	0.5

N-S Critical Volumes:

SBT&NBL	SBL&NBT	SBT&NBL	SBL&NBT
432	410	432	410
432	512	432	512

15 = shared lanes

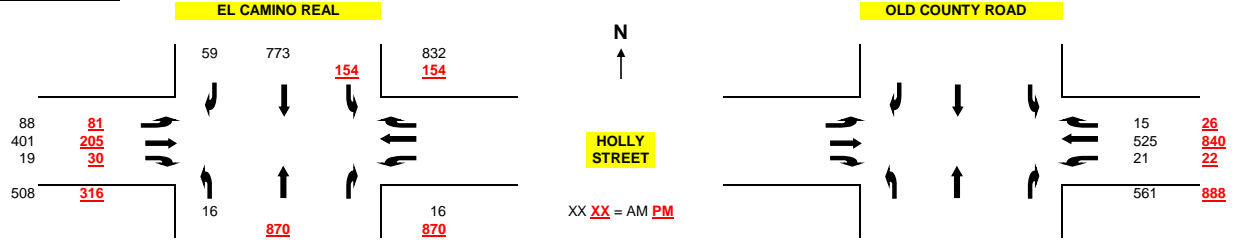
East Inters Old County Road & Holly Street

Node # 5

	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL
AM Vol:	99	104	33	15	525	21	59	94	80	105	895	132
PM Vol:	205	135	35	26	840	22	56	184	164	77	532	103
# of lanes:	1	1	1	0.5	1	0.5	1	1	1	1	1.5	0.5

11

CRITICAL MOVEMENTS



AM Peak Hour

Intersection	Direction	Volume	Number of Lanes	Volume Per Lane	Total Capacity	Total V/C
El Camino Real/Holly	NB	16	1	16	1650	0.586
	EB	508	2	254		
	SB	832	2	416		
Old County/Holly	WB	561	2	281	1650	0.586
	Total	1917	7	967		

PM Peak Hour

Intersection	Direction	Volume	Number of Lanes	Volume Per Lane	Total Capacity	Total V/C
El Camino Real/Holly	NB	870	2	435	1650	0.675
	EB	316	2	158		
	SB	154	2	77		
Old County/Holly	WB	888	2	444	1650	0.675
	Total	2228	8	1114		

West Inters El Camino Real & Brittan Avenue

Node # 15

	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL
AM Vol:	52	786	249	59	209	118	125	709	68	45	505	66
PM Vol:	66	850	192	178	346	218	83	950	106	71	269	86
# of lanes:	0.5	2.5	2	1	1.5	0.5	1	2	1	0.5	1	0.5

N-S Critical Volumes:

SBT&NBL	SBL&NBT	SBT&NBL	SBL&NBT
347	479	347	479
411	571	411	571

14 = shared lanes

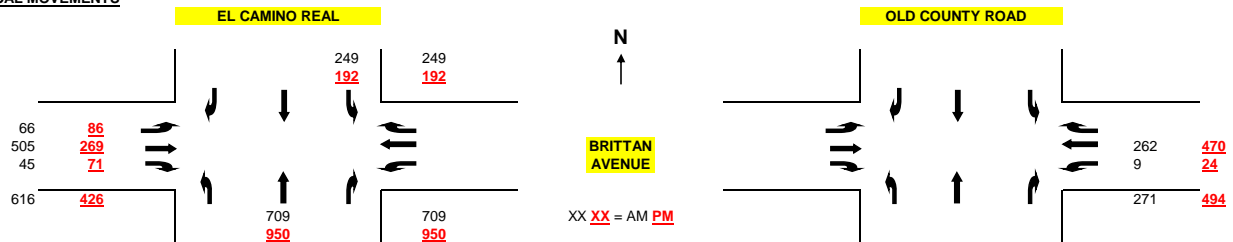
East Inters Old County Road & Brittan Avenue

Node # 16

	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL
AM Vol:	64	66	40	9	262	9	11	125	40	39	730	130
PM Vol:	177	131	38	55	470	24	21	198	101	70	390	100
# of lanes:	1	1	1	1	1.5	0.5	0.5	0.5	1	1	1.5	0.5

11

CRITICAL MOVEMENTS



AM Peak Hour

Intersection	Direction	Volume	Number of Lanes	Volume Per Lane	Total Capacity	Total V/C
El Camino Real/Brittan	NB	709	2	355	1650	0.559
	EB	616	2	308		
	SB	249	2	125		
Old County/Brittan	WB	271	2	136	1650	0.559
	Total	1845	8	923		

PM Peak Hour

Intersection	Direction	Volume	Number of Lanes	Volume Per Lane	Total Capacity	Total V/C
El Camino Real/Holly	NB	950	2	475	1650	0.625
	EB	426	2	213		
	SB	192	2	96		
Old County/Holly	WB	494	2	247	1650	0.625
	Total	2062	8	1031		

Scenario: **Future Conditions**

West Inters El Camino Real & Howard Avenue

Node # 18

	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL
AM Vol:	22	816	99	41	72	97	240	774	22	31	238	62
PM Vol:	68	1076	51	145	304	341	187	936	52	32	136	72
# of lanes:	0.5	2.5	1	1	1	1	1	2	1	0.5	1	0.5

N-S Critical Volumes:

SBT&NBL	SBL&NBT	SBL&NBT	EBL
301	486	486	486
433	519	519	519

13 = shared lanes

East Inters Old County Road & Howard Avenue

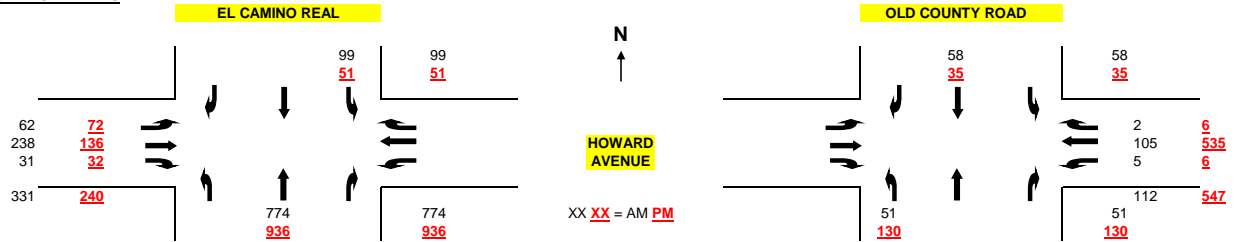
Node # 19

	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL
AM Vol:	25	58	11	2	105	5	22	65	51	123	328	130
PM Vol:	81	35	7	6	535	6	16	122	130	51	213	113
# of lanes:	1	1	1	0.5	1	0.5	1	1	1	1	1.5	0.5

N-S Critical Volumes:

SBT&NBL	SBL&NBT	SBL&NBT	EBL
109	76	109	109
165	129	165	165

CRITICAL MOVEMENTS



AM Peak Hour

Intersection	Direction	Volume	Number of Lanes	Volume Per Lane	Total Capacity	Total V/C
El Camino Real/Howard	NB	774	2	387	1650	0.495
	EB	331	2	166		
	SB	99	1	99		
Old County/Howard	NB	51	1	51	1650	0.495
	WB	112	2	56		
	SB	58	1	58		
Total		1425	9	817		

PM Peak Hour

Intersection	Direction	Volume	Number of Lanes	Volume Per Lane	Total Capacity	Total V/C
El Camino Real/Holly	NB	936	2	468	1650	0.653
	EB	240	2	120		
	SB	51	1	51		
Old County/Holly	NB	130	1	130	1650	0.653
	WB	547	2	274		
	SB	35	1	35		
Total		1939	9	1078		

Summary

Scenario: **Future Conditions**

Intersection:	AM V/C	PM V/C
El Camino Real & Holly Street	0.586	0.675
Old County Road & Holly Street	0.559	0.625
El Camino Real & Brittan Avenue	0.559	0.625
Old County Road & Brittan Avenue	0.559	0.625
El Camino Real & Howard Avenue	0.495	0.653
Old County Road & Howard Avenue	0.495	0.653

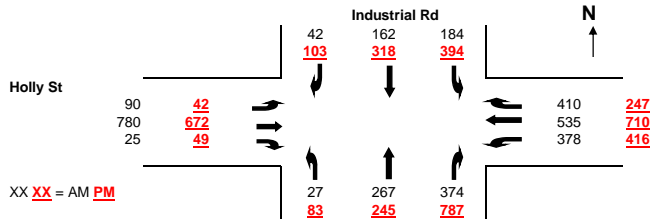
Scenario: **Future Conditions**

LOS Calculation for the intersections of Industrial and Holly (based on critical movements)

Inter: Industrial Road and Holly Street

Scenario: **Future Conditions**

Node #	4												
	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL	
AM Vol:	42	162	184	410	535	378	374	267	27	25	780	90	3274
PM Vol:	103	318	394	247	710	416	787	245	83	49	672	42	4066
# of lanes:	0.5	1.5	2	1	2	2	2	1	1	0.5	2.0	0.5	16



N-S Critical Volumes:

N-S critical volumes = maximum of SBT&NBL, SBL&NBT, or SBL&NBR

NBR = total NBR volume * 87% (lane utilization factor) minus the WB maximum volume (NBR controlled by green arrow)

SBT	NBL	SBL	NBT	NBR	SBT&NBL	SBL&NBT	SBL&NBR	Crit Mvmt
$= (SBR + SBT) / 2$	$= NBL / 1$	$= SBL / 2$	$= NBT / 1$	$= (NBR * .87) - WB Max$				
102	27	92	267	7	129	359	99	SBL&NBT
211	83	197	245	330	294	442	527	SBL&NBR

NB Crit	SB Crit
267	92
330	197

E-W Critical Volumes:

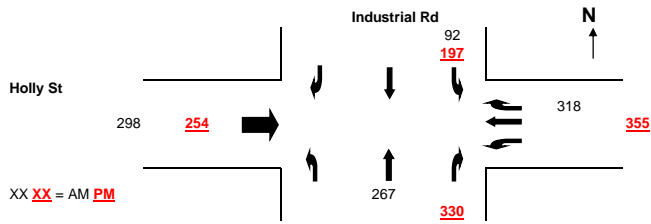
EB critical movement = total EB approach volume divided by total number of EB approach lanes

WB critical movement = maximum of WBR - SBL, WBT, or WBL

EB Crit = (EBL+EBT+EBR)/3

WB = WB Max

EB Crit	WB Max =	WBR/1-SBL/2	WBT/2	WBL/2	WB Crit Mvmt	WB Crit
298	318	268	189		WBR-SBL	318
254	50	355	208		WBT	355



V/C (AM) =	NB	SB	EB	WB	=	$\frac{975}{1650}$	=	0.591	A
VC (PM) =	330	197	254	355	=	$\frac{1136}{1650}$	=	0.688	B

Scenario: **Project Conditions**

Date:
West Inters El Camino Real & Holly Street
Node # 6

	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL
AM Vol:	67	827	263	109	265	582	727	657	16	19	445	96
PM Vol:	97	827	210	330	474	814	544	963	19	30	230	103
# of lanes:	0.5	1.5	2	1	1	2	2	2	1	0.5	1	0.5

N-S Critical Volumes:
SBT&NBL 463 SBL&NBT 460
SBT&NBL 463
SBL&NBT 587

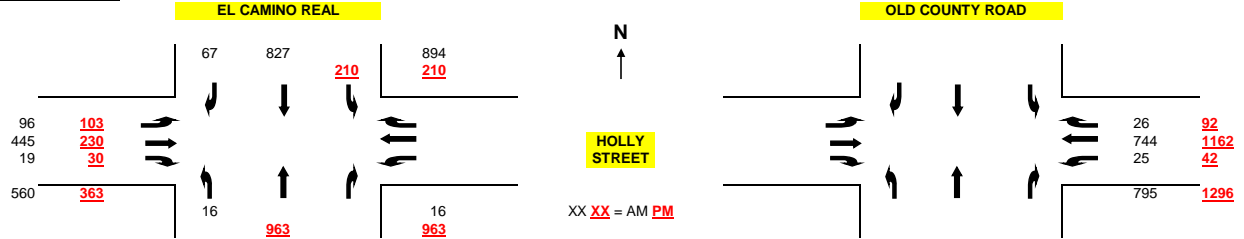
15 = shared lanes

East Inters Old County Road & Holly Street
Node # 5

	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL
AM Vol:	122	159	86	26	744	25	70	236	80	106	1120	188
PM Vol:	261	282	60	92	1162	42	70	242	165	77	769	126
# of lanes:	1	1	1	0.5	1	0.5	1	1	1	1	1.5	0.5

11

CRITICAL MOVEMENTS



AM Peak Hour

Intersection	Direction	Volume	Number of Lanes	Volume Per Lane	Total Capacity	Total V/C
El Camino Real/Holly	NB	16	1	16		
	EB	560	2	280		
	SB	894	2	447		
Old County/Holly	WB	795	2	398		
	Total	2265	7	1141	1650	0.691

PM Peak Hour

Intersection	Direction	Volume	Number of Lanes	Volume Per Lane	Total Capacity	Total V/C
El Camino Real/Holly	NB	963	2	482		
	EB	363	2	182		
	SB	210	2	105		
Old County/Holly	WB	1296	2	648		
	Total	2832	8	1416	1650	0.858

West Inters El Camino Real & Brittan Avenue
Node # 15

	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL
AM Vol:	125	845	323	87	269	113	146	809	65	42	674	133
PM Vol:	167	972	319	253	612	249	90	1032	84	47	461	180
# of lanes:	0.5	2.5	2	1	1.5	0.5	1	2	1	0.5	1	0.5

N-S Critical Volumes:
SBT&NBL 388 SBL&NBT 566
SBL&NBT 566
SBL&NBT 676

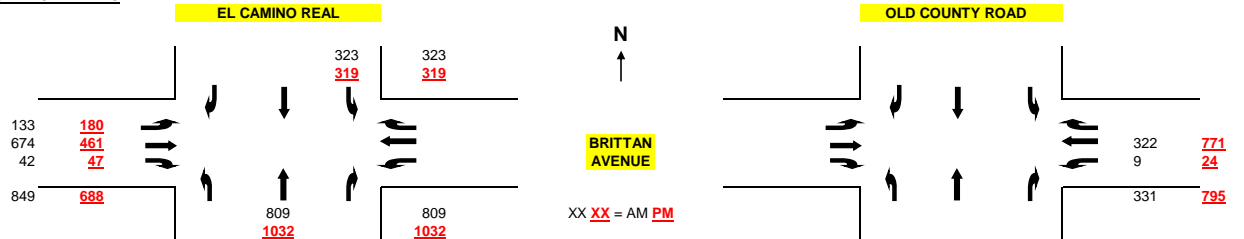
14 = shared lanes

East Inters Old County Road & Brittan Avenue
Node # 16

	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL
AM Vol:	77	84	46	10	322	9	11	251	49	45	954	165
PM Vol:	224	264	39	61	771	24	21	221	123	93	667	125
# of lanes:	1	1	1	1	1.5	0.5	0.5	0.5	1	1	1.5	0.5

11

CRITICAL MOVEMENTS



AM Peak Hour

Intersection	Direction	Volume	Number of Lanes	Volume Per Lane	Total Capacity	Total V/C
El Camino Real/Brittan	NB	809	2	405		
	EB	849	2	425		
	SB	323	2	162		
Old County/Brittan	WB	331	2	166		
	Total	2312	8	1156	1650	0.701

PM Peak Hour

Intersection	Direction	Volume	Number of Lanes	Volume Per Lane	Total Capacity	Total V/C
El Camino Real/Holly	NB	1032	2	516		
	EB	688	2	344		
	SB	319	2	160		
Old County/Holly	WB	795	2	398		
	Total	2834	8	1417	1650	0.859

Scenario: **Project Conditions**

West Inters El Camino Real & Howard Avenue

Node # 18

	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL
AM Vol:	34	844	108	47	107	104	270	870	22	28	316	77
PM Vol:	105	1149	71	166	444	382	212	947	46	28	238	107
# of lanes:	0.5	2.5	1	1	1	1	1	2	1	0.5	1	0.5

N-S Critical Volumes:

SBT&NBL SBL&NBT

315 543

464 545

SBL&NBT 543

SBL&NBT 545

13 = shared lanes

East Inters Old County Road & Howard Avenue

Node # 19

	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL
AM Vol:	31	73	14	6	144	5	22	174	53	125	422	151
PM Vol:	112	148	18	17	701	6	16	140	136	57	336	129
# of lanes:	1	1	1	0.5	1	0.5	1	1	1	1	1.5	0.5

N-S Critical Volumes:

SBT&NBL SBL&NBT

126 188

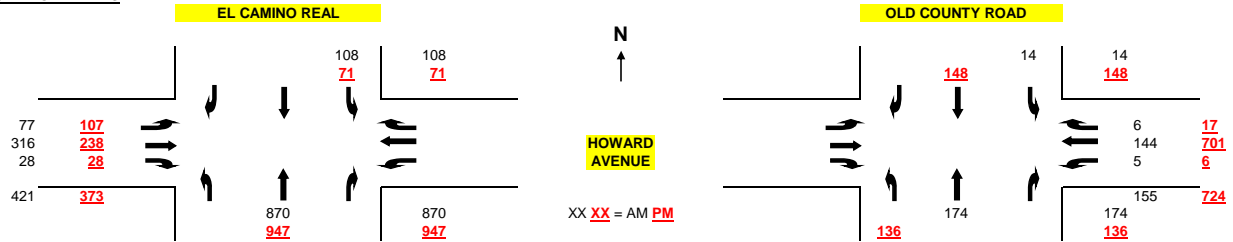
284 158

SBL&NBT 188

SBT&NBL 284

11

CRITICAL MOVEMENTS



AM Peak Hour

Intersection	Direction	Volume	Number of Lanes	Volume Per Lane	Total Capacity	Total V/C
El Camino Real/Howard	NB	870	2	435	1650	0.618
	EB	421	2	211		
	SB	108	1	108		
Old County/Howard	NB	174	1	174	1650	0.618
	WB	155	2	78		
	SB	14	1	14		
Total		1742	9	1019		

PM Peak Hour

Intersection	Direction	Volume	Number of Lanes	Volume Per Lane	Total Capacity	Total V/C
El Camino Real/Holly	NB	947	2	474	1650	0.835
	EB	373	2	187		
	SB	71	1	71		
Old County/Holly	NB	136	1	136	1650	0.835
	WB	724	2	362		
	SB	148	1	148		
Total		2399	9	1377		

Summary

Scenario: **Project Conditions**

Intersection:	AM V/C	PM V/C
El Camino Real & Holly Street	0.691	0.858
Old County Road & Holly Street		
El Camino Real & Brittan Avenue	0.701	0.859
Old County Road & Brittan Avenue		
El Camino Real & Howard Avenue		
Old County Road & Howard Avenue	0.618	0.835

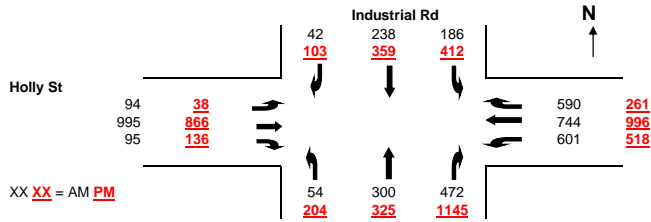
Scenario: **Project Conditions**

LOS Calculation for the intersections of Industrial and Holly (based on critical movements)

Inters: Industrial Road and Holly Street

Scenario: **Project Conditions**

Node #	4												
	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL	
AM Vol:	42	238	186	590	744	601	472	300	54	95	995	94	4411
PM Vol:	103	359	412	261	996	518	1145	325	204	136	866	38	5363
# of lanes:	0.5	1.5	2	1	2	2	2	1	1	0.5	2.0	0.5	16



N-S Critical Volumes:

N-S critical volumes = maximum of SBT&NBL, SBL&NBT, or SBL&NBR
 NBR = total NBR volume * 87% (lane utilization factor) minus the WB maximum volume (NBR controlled by green arrow)

SBT	NBL	SBL	NBT	NBR	SBT&NBL	SBL&NBT	SBL&NBR	Crit Mvmt
$= (SBR + SBT) / 2$	$= NBL / 1$	$= SBL / 2$	$= NBT / 1$	$= (NBR * .87) - WB Max$				
140	54	93	300	-86	194	393	7	SBL&NBT
231	204	206	325	498	435	531	704	SBL&NBR

NB Crit	SB Crit
300	93
498	206

E-W Critical Volumes:

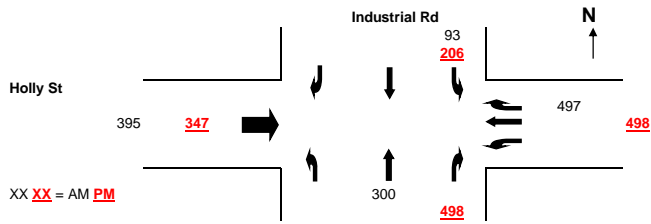
EB critical movement = total EB approach volume divided by total number of EB approach lanes

WB critical movement = maximum of WBR - SBL, WBT, or WBL

EB Crit = (EBL+EBT+EBR)/3

WB = WB Max

EB Crit	WB Max =	WBR/1-SBL/2	WBT/2	WBL/2	WB Crit Mvmt	WB Crit
395	497	372	301		497	
347	55	498	259		498	



V/C (AM) =	NB	SB	EB	WB				
	300	93	395	497	=	1285	=	0.779 C
						1650		
VC (PM) =	498	206	347	498	=	1549	=	0.939 E
						1650		

Scenario: **Project Conditions (Mitigated)**

Date:

West Inter: El Camino Real & Holly Street

Node # 6

	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL
AM Vol:	65	816	250	105	261	542	693	650	16	19	436	94
PM Vol:	92	812	199	310	460	772	508	944	19	30	225	99
# of lanes:	0.5	1.5	2	1	1	2	2	2	1	0.5	1	0.5

N-S Critical Volumes:

SBT&NBL	SBL&NBT	SBT&NBL	SBL&NBT
457	450	457	450
471	572	457	572

= shared lanes

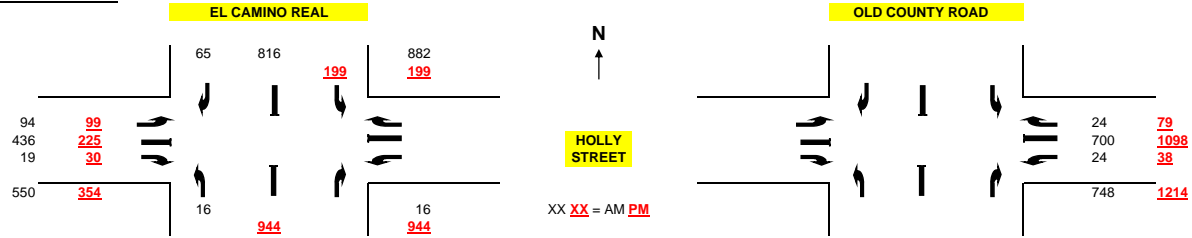
East Inter: Old County Road & Holly Street

Node # 5

	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL
AM Vol:	117	148	75	24	700	24	68	208	80	106	1075	177
PM Vol:	250	253	55	79	1098	38	67	230	165	77	722	121
# of lanes:	1	1	1	0.5	1	0.5	1	1	1	1	1.5	0.5

MITIGATION:
20% TDM reduction
Apply 20% TDM reduction to all project under General Plan Update

CRITICAL MOVEMENTS



AM Peak Hour

Intersection	Direction	Volume	Number of Lanes	Volume Per Lane	Total Capacity	Total V/C
El Camino Real/Holly	NB	16	1	16		
	EB	549.6	2	275		
	SB	882	2	441		
Old County/Holly	WB	748.2	2	374		
Total		2195	7	1106	1650	0.670

PM Peak Hour

Intersection	Direction	Volume	Number of Lanes	Volume Per Lane	Total Capacity	Total V/C
El Camino Real/Holly	NB	944.4	2	472		
	EB	353.6	2	177		
	SB	199	2	99		
Old County/Holly	WB	1214.4	2	607		
Total		2711	8	1356	1650	0.822

West Inter: El Camino Real & Brittan Avenue

Node # 15

	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL
AM Vol:	110	833	308	81	257	114	142	789	66	43	640	120
PM Vol:	147	948	294	238	559	243	89	1016	88	52	423	161
# of lanes:	0.5	2.5	2	1	1.5	0.5	1	2	1	0.5	1	0.5

N-S Critical Volumes:

SBT&NBL	SBL&NBT	SBT&NBL	SBL&NBT
380	549	380	549
453	655	549	655

= shared lanes

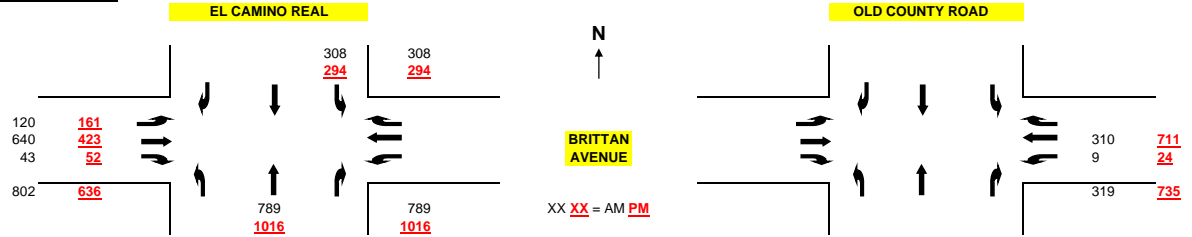
East Inter: Old County Road & Brittan Avenue

Node # 16

	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL
AM Vol:	74	80	45	10	310	9	11	226	47	44	909	158
PM Vol:	215	237	39	60	711	24	21	216	119	88	612	120
# of lanes:	1	1	1	1	1.5	0.5	0.5	0.5	1	1	1.5	0.5

MITIGATION:
20% TDM reduction
Apply 20% TDM reduction to all project under General Plan Update

CRITICAL MOVEMENTS



AM Peak Hour

Intersection	Direction	Volume	Number of Lanes	Volume Per Lane	Total Capacity	Total V/C
El Camino Real/Brittan	NB	789	2	395		
	EB	802.4	2	401		
	SB	308	2	154		
Old County/Brittan	WB	319	2	160		
Total		2219	8	1109	1650	0.672

PM Peak Hour

Intersection	Direction	Volume	Number of Lanes	Volume Per Lane	Total Capacity	Total V/C
El Camino Real/Holly	NB	1015.6	2	508		
	EB	635.6	2	318		
	SB	294	2	147		
Old County/Holly	WB	734.8	2	367		
Total		2680	8	1340	1650	0.812

Summary

Scenario: **Project Conditions (Mitigated)**

Intersection:	AM V/C	PM V/C
El Camino Real & Holly Street		
Old County Road & Holly Street	0.670	0.822
El Camino Real & Brittan Avenue		
Old County Road & Brittan Avenue	0.672	0.812

Scenario: **Project Conditions (Mitigated)**

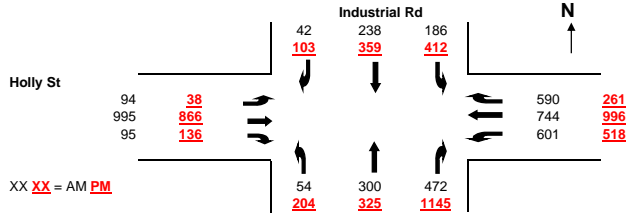
LOS Calculation for the intersections of Industrial and Holly (based on critical movements)

Inter: Industrial Road and Holly Street

Scenario: **Project Conditions (Mitigated)**

Node #	4				4				4				4			
	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL				
AM Vol:	42	238	186	590	744	601	472	300	54	95	995	94	4411			
PM Vol:	103	359	412	261	996	518	1145	325	204	136	866	38	5363			
# of lanes:	0.5	1.5	2	1	2	2	2	1	1	0.5	2.0	0.5	16			

MITIGATION:
Holly Street Improvements
With the proposed Holly Street/ US 101 interchange improvements, there would not be a lane unbalance for the NBR turn movement



N-S Critical Volumes:

N-S critical volumes = maximum of SBT&NBL, SBL&NBT, or SBL&NBR

NBR (with mitigation) = total NBR volume / 2 minus the WB maximum volume (NBR controlled by green arrow)

SBT	NBL	SBL	NBT	NBR	SBT&NBL	SBL&NBT	SBL&NBR	Crit Mvmt
= (SBR+SBT)/2	= NBL/1	= SBL/2	= NBT/1	= (NBR/2) - WB Max				
140	54	93	300	-261	194	393	-168	SBL&NBT
231	204	206	325	75	435	531	281	SBL&NBT

NB Crit	SB Crit
300	93
325	206

E-W Critical Volumes:

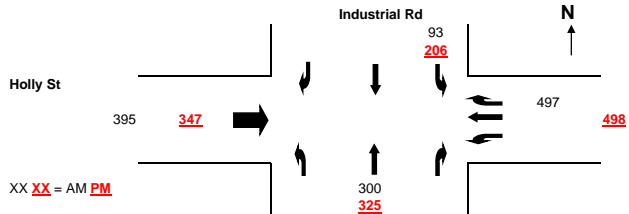
EB critical movement = total EB approach volume divided by total number of EB approach lanes

WB critical movement = maximum of WBR - SBL, WBT, or WBL

EB Crit = (EBL+EBT+EBR)/3

WB = WB Max

EB Crit	WB Max =	WBR/1-SBL/2	WBT/2	WBL/2	WB Crit Mvmt	WB Crit
395	497	497	372	301	WBR-SBL	497
347	55	498	498	259	WBT	498



V/C (AM) =	NB	SB	EB	WB	=	1285	=	0.779	C
	300	93	395	497		1650			
V/C (PM) =	325	206	347	498	=	1376	=	0.834	D
						1650			