

APPENDIX H

YEAR 2013 TRAFFIC CONDITIONS INTERSECTION LEVEL OF SERVICE CALCULATION WORKSHEETS

APPENDIX H-I

**YEAR 2013 WITHOUT PROJECT TRAFFIC
CONDITIONS**

**INTERSECTION CAPACITY UTILIZATION
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2013 Without Project						
INTERSECTION:		1 Manchester/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	1.5	1700	56	0.03 *	1700	39	0.02 *	
NBT	0	0	0	0.00	0	0	0.00	
NBR	1.5	3400	628	0.18 *	3400	496	0.15 *	
SBL	2	3400	24	0.01	3400	32	0.01	
SBT	2	3400	93	0.03 *	3400	55	0.02 *	
SBR	1	1700	16	0.01	1700	2	0.00	
EBL	0		0	*		0	*	
EBT	3	5100	1128	0.22	5100	1430	0.28	
EBR	1	1700	647	0.38 *	1700	702	0.41 *	
WBL	2	3400	228	0.07	3400	436	0.13	
WBT	3	5100	1681	0.33 *	5100	2262	0.44 *	
WBR	0		0			0		
Split Phase		N/S Movements		0.06			0.04	
		E/W Movements		0.33			0.44	
		Rt. Turn Component		0.24			0.13	
		Yellow Clearance		0.05			0.05	
TOTAL CAPACITY UTILIZATION				0.684				0.660
LEVEL OF SERVICE (LOS)				B				B

**INTERSECTION CAPACITY UTILIZATION
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2013 Without Project						
INTERSECTION:		2 Anaheim Way/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	1.5	3400	592	0.17 *	3039	809	0.27	
NBT	3	3400	398	0.12	4609	1227	0.27	
NBR	0.5	1700	340	0.20 *	853	227	0.27	
SBL	0		0			0		
SBT	0		0	0.00 *		0	0.00	
SBR	0		0			0		
EBL	2	3400	40	0.01	3400	41	0.01	
EBT	3	5100	1733	0.34 *	5100	1941	0.38 *	
EBR	0		0			0		
WBL	0		0	*		0	*	
WBT	3.5	6800	1384	0.20	6800	2022	0.30	
WBR	1.5	1700	310	0.18 *	1700	338	0.20 *	
N-S split adjstment		N/S Movements		0.20			0.27	
		E/W Movements		0.34			0.38	
		Rt. Turn Component		0.00			0.00	
		Yellow Clearance		0.05			0.05	
TOTAL CAPACITY UTILIZATION				0.590	0.697			
LEVEL OF SERVICE (LOS)				A	B			

**INTERSECTION CAPACITY UTILIZATION
CALCULATION WORKSHEET**

PROJECT:		Anaheim					
ANALYSIS CONDITION:		ARTIC- 2013 Without Project					
INTERSECTION:		3 Lewis/ Katella					
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR		
			VOLUME	V/C	VOLUME	V/C	
NBL	1	1700	10	0.01	27	0.02	
NBT	1	1700	41	0.05 *	84	0.08 *	
NBR	0		38		47		
SBL	1	1700	57	0.03 *	71	0.04 *	
SBT	1	1700	7	0.00	11	0.01	
SBR	1	1700	138	0.08	409	0.24 *	
EBL	1	1700	365	0.21 *	141	0.08	
EBT	3	5100	1595	0.32	1816	0.39 *	
EBR	0		12		167		
WBL	1	1700	156	0.09	205	0.12 *	
WBT	3	5100	1520	0.31 *	1991	0.40	
WBR	0		69		56		
		N/S Movements		0.08		0.12	
		E/W Movements		0.53		0.51	
		Rt. Turn Component		0.00		0.15	
		Yellow Clearance		0.05		0.05	
TOTAL CAPACITY UTILIZATION				0.656	0.829		
LEVEL OF SERVICE (LOS)				B	D		

**INTERSECTION CAPACITY UTILIZATION
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2013 Without Project						
INTERSECTION:		4 State College/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	2	3400	317	0.09 *	3400	604	0.18 *	
NBT	3	5100	591	0.16	5100	856	0.23	
NBR	0		237			321		
SBL	2	3400	192	0.06	3400	131	0.04	
SBT	3	5100	822	0.16 *	5100	813	0.16 *	
SBR	1	1700	173	0.10	1700	239	0.14	
EBL	2	3400	344	0.10	3400	333	0.10 *	
EBT	2.5	4907	1182	0.24 *	5033	1142	0.23	
EBR	1.5	1893	456	0.24	1767	401	0.23	
WBL	2	3400	318	0.09 *	3400	408	0.12	
WBT	3	5100	837	0.16	5100	1625	0.32 *	
WBR	1	1700	44	0.03	1700	116	0.07	
		N/S Movements		0.25			0.34	
		E/W Movements		0.33			0.42	
		Rt. Turn Component		0.00			0.00	
		Yellow Clearance		0.05			0.05	
TOTAL CAPACITY UTILIZATION			0.639			0.804		
LEVEL OF SERVICE (LOS)			B			D		

**INTERSECTION CAPACITY UTILIZATION
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2013 Without Project						
INTERSECTION:		5 Sportstown/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	1	1700	30	0.02	1700	67	0.04	
NBT	0.5	283	3	0.01 *	320	11	0.03 *	
NBR	1.5	3117	33	0.01	3080	106	0.03	
SBL	1	1700	51	0.03 *	1700	138	0.08 *	
SBT	1	1700	3	0.00	1700	3	0.00	
SBR	1	1700	72	0.04	1700	109	0.06 *	
EBL	1	1700	112	0.07	1700	42	0.02 *	
EBT	3	5100	1513	0.31 *	5100	1416	0.29	
EBR	0		64			68		
WBL	1	1700	57	0.03 *	1700	45	0.03	
WBT	3	5100	1059	0.21	5100	1948	0.38 *	
WBR	1	1700	104	0.06	1700	106	0.06	
		N/S Movements		0.04			0.12	
		E/W Movements		0.34			0.41	
		Rt. Turn Component		0.00			0.04	
		Yellow Clearance		0.05			0.05	
TOTAL CAPACITY UTILIZATION				0.433	0.610			
LEVEL OF SERVICE (LOS)				A	B			

**INTERSECTION CAPACITY UTILIZATION
CALCULATION WORKSHEET**

PROJECT:		Anaheim				
ANALYSIS CONDITION:		ARTIC- 2013 Without Project				
INTERSECTION:		6 Howell/ Katella				
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR	
			VOLUME	V/C	VOLUME	V/C
NBL	1	1700	14	0.01	102	0.06
NBT	1	1700	8	0.00 *	30	0.02 *
NBR	1	1700	31	0.02	194	0.11 *
SBL	2	3400	205	0.06 *	317	0.09 *
SBT	1	1700	35	0.05	14	0.03
SBR	0		45		40	
EBL	2	3400	47	0.01	47	0.01 *
EBT	3	5100	1486	0.31 *	1532	0.31
EBR	0		70		50	
WBL	2	3400	153	0.05 *	70	0.02
WBT	3	5100	1192	0.31	1986	0.45 *
WBR	0		365		303	
		N/S Movements		0.07		0.11
		E/W Movements		0.35		0.46
		Rt. Turn Component		0.00		0.08
		Yellow Clearance		0.05		0.05
TOTAL CAPACITY UTILIZATION				0.465	0.699	
LEVEL OF SERVICE (LOS)				A	B	

**INTERSECTION CAPACITY UTILIZATION
CALCULATION WORKSHEET**

PROJECT:		Anaheim					
ANALYSIS CONDITION:		ARTIC- 2013 Without Project					
INTERSECTION:		7 SR 57 SB Ramps/ Katella					
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C
NBL	0		0			0	
NBT	0		0	0.00 *		0	0.00 *
NBR	0		0			0	
SBL	1.5	1700	330	0.19 *	1700	232	0.14 *
SBT	0	0	0	0.00	0	0	0.00
SBR	1.5	3400	668	0.20 *	3400	840	0.25 *
EBL	0		0			0	
EBT	3	5100	1274	0.25 *	5100	1488	0.29 *
EBR (free)			302	0.00		485	0.00
WBL	0		0			0	*
WBT	3	5100	1079	0.21	5100	1341	0.26
WBR (free)			240	0.00		468	0.00
		N/S Movements		0.19			0.14
		E/W Movements		0.25			0.29
		Rt. Turn Component		0.00			0.11
		Yellow Clearance		0.05			0.05
TOTAL CAPACITY UTILIZATION			0.496		0.589		
LEVEL OF SERVICE (LOS)			A		A		

**INTERSECTION CAPACITY UTILIZATION
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2013 Without Project						
INTERSECTION:		8 SR 57 NB Ramps/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	1.5	2931	469	0.16 *	2671	374	0.14 *	
NBT	0	0	0	0.00	0	0	0.00	
NBR	1.5	2169	347	0.16 *	2429	340	0.14 *	
SBL	0		0			0		
SBT	0		0	0.00 *		0	0.00 *	
SBR	0		0			0		
EBL	0		0			0	*	
EBT	3	5100	1038	0.20 *	5100	1010	0.20	
EBR (free)			577	0.00		702	0.00	
WBL	0		0	*		0		
WBT	3	5100	895	0.18	5100	1456	0.29 *	
WBR (free)			157	0.00		241	0.00	
		N/S Movements		0.16			0.14	
		E/W Movements		0.20			0.29	
		Rt. Turn Component		0.00			0.00	
		Yellow Clearance		0.05			0.05	
TOTAL CAPACITY UTILIZATION				0.414	0.475			
LEVEL OF SERVICE (LOS)				A	A			

**INTERSECTION CAPACITY UTILIZATION
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2013 Without Project						
INTERSECTION:		9 Douglass/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	1	1700	36	0.02	1700	116	0.07	*
NBT	1	1700	17	0.01	1700	25	0.02	
NBR	0		7			15		
SBL	1	1700	108	0.06	1700	151	0.09	
SBT	0.5	591	12	0.02	40	5	0.12	*
SBR	1.5	2809	57	0.02	3360	418	0.12	
EBL	2	3400	409	0.12	3400	124	0.04	*
EBT	3	5100	980	0.19	5100	1022	0.20	
EBR	1	1700	58	0.03	1700	44	0.03	
WBL	2	3400	20	0.01	3400	31	0.01	
WBT	3	5100	989	0.19	5100	1248	0.24	*
WBR	1	1700	100	0.06	1700	162	0.10	
		N/S Movements		0.08			0.19	
		E/W Movements		0.31			0.28	
		Rt. Turn Component		0.00			0.00	
		Yellow Clearance		0.05			0.05	
TOTAL CAPACITY UTILIZATION				0.442				0.524
LEVEL OF SERVICE (LOS)				A				A

**INTERSECTION CAPACITY UTILIZATION
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2013 Without Project						
INTERSECTION:		10 Struck/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR			
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	1.5	3133	129	0.04	3239	402	0.12	
NBT	0.5	267	0	0.04	161	0	0.12	
NBR	0		11			20		
SBL	0		0			0		
SBT	0		0	0.00		0	0.00	
SBR	0		0			0		
EBL	0		0			0	*	
EBT	3	5100	1018	0.20 *	5100	978	0.19	
EBR	1	1700	294	0.17	1700	237	0.14	
WBL	1	1700	23	0.01 *	1700	7	0.00	
WBT	3	5100	779	0.15	5100	1051	0.21 *	
WBR	0		0			0		
		N/S Movements		0.04			0.12	
		E/W Movements		0.21			0.21	
		Rt. Turn Component		0.00			0.00	
		Yellow Clearance		0.05			0.05	
TOTAL CAPACITY UTILIZATION			0.304		0.380			
LEVEL OF SERVICE (LOS)			A		A			

**INTERSECTION CAPACITY UTILIZATION
CALCULATION WORKSHEET**

PROJECT:		Anaheim					
ANALYSIS CONDITION:		ARTIC- 2013 Without Project					
INTERSECTION:		11 Main/ Katella					
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR		
			VOLUME	V/C	VOLUME	V/C	
NBL	2	3400	51	0.02 *	132	0.04	
NBT	2	3400	220	0.06	397	0.12 *	
NBR	1	1700	147	0.09	301	0.18	
SBL	1	1700	46	0.03	93	0.05 *	
SBT	2	3400	426	0.13 *	265	0.08	
SBR	1	1700	78	0.05	139	0.08	
EBL	1	1700	124	0.07	104	0.06	
EBT	3	5100	612	0.12 *	858	0.17 *	
EBR	1	1700	75	0.04	85	0.05	
WBL	1	1700	362	0.21 *	222	0.13 *	
WBT	3	5100	848	0.18	789	0.18	
WBR	0		64		130		
		N/S Movements		0.14		0.17	
		E/W Movements		0.33		0.30	
		Rt. Turn Component		0.00		0.00	
		Yellow Clearance		0.05		0.05	
TOTAL CAPACITY UTILIZATION				0.523	0.520		
LEVEL OF SERVICE (LOS)				A	A		

**INTERSECTION CAPACITY UTILIZATION
CALCULATION WORKSHEET**

PROJECT:		Anaheim					
ANALYSIS CONDITION:		ARTIC- 2013 Without Project					
INTERSECTION:		12 Batavia/ Katella					
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR		
			VOLUME	V/C	VOLUME	V/C	
NBL	1	1700	53	0.03 *	98	0.06	
NBT	2	3400	234	0.07	314	0.09 *	
NBR	1	1700	96	0.06	118	0.07	
SBL	1	1700	98	0.06	121	0.07 *	
SBT	2	3400	410	0.12 *	220	0.06	
SBR	1	1700	133	0.08	140	0.08	
EBL	1	1700	137	0.08 *	133	0.08	
EBT	3	5100	490	0.11	1259	0.26 *	
EBR	0		61		45		
WBL	1	1700	201	0.12	92	0.05 *	
WBT	3	5100	1216	0.24 *	817	0.16	
WBR	0		10		20		
Split Phase		N/S Movements		0.19		0.16	
		E/W Movements		0.32		0.31	
		Rt. Turn Component		0.00		0.00	
		Yellow Clearance		0.05		0.05	
TOTAL CAPACITY UTILIZATION				0.560	0.523		
LEVEL OF SERVICE (LOS)				A	A		

APPENDIX H-II

YEAR 2013 WITH PROJECT TRAFFIC CONDITIONS

**INTERSECTION CAPACITY UTILIZATION
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2013 With Project						
INTERSECTION:		1 Manchester/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	1.5	1700	56	0.03 *	1700	39	0.02 *	
NBT	0	0	0	0.00	0	0	0.00	
NBR	1.5	3400	649	0.19 *	3400	498	0.15 *	
SBL	2	3400	24	0.01	3400	32	0.01	
SBT	2	3400	93	0.03 *	3400	55	0.02 *	
SBR	1	1700	16	0.01	1700	2	0.00	
EBL	0		0	*		0	*	
EBT	3	5100	1159	0.23	5100	1433	0.28	
EBR	1	1700	647	0.38 *	1700	702	0.41 *	
WBL	2	3400	228	0.07	3400	436	0.13	
WBT	3	5100	1687	0.33 *	5100	2285	0.45 *	
WBR	0		0			0		
Split Phase		N/S Movements		0.06			0.04	
		E/W Movements		0.33			0.45	
		Rt. Turn Component		0.24			0.13	
		Yellow Clearance		0.05			0.05	
TOTAL CAPACITY UTILIZATION				0.685				0.664
LEVEL OF SERVICE (LOS)				B				B

**INTERSECTION CAPACITY UTILIZATION
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2013 With Project						
INTERSECTION:		2 Anaheim Way/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	1.5	3400	592	0.17 *	3039	809	0.27	
NBT	3	3400	398	0.12	4609	1227	0.27	
NBR	0.5	1700	340	0.20 *	853	227	0.27	
SBL	0		0			0		
SBT	0		0	0.00 *		0	0.00	
SBR	0		0			0		
EBL	2	3400	40	0.01	3400	41	0.01	
EBT	3	5100	1785	0.35 *	5100	1947	0.38 *	
EBR	0		0			0		
WBL	0		0	*		0	*	
WBT	3.5	6800	1394	0.21	6800	2060	0.30	
WBR	1.5	1700	310	0.18 *	1700	338	0.20 *	
N-S split adjstment		N/S Movements		0.20			0.27	
		E/W Movements		0.35			0.38	
		Rt. Turn Component		0.00			0.00	
		Yellow Clearance		0.05			0.05	
TOTAL CAPACITY UTILIZATION				0.600				0.698
LEVEL OF SERVICE (LOS)				A				B

**INTERSECTION CAPACITY UTILIZATION
CALCULATION WORKSHEET**

PROJECT:		Anaheim					
ANALYSIS CONDITION:		ARTIC- 2013 With Project					
INTERSECTION:		3 Lewis/ Katella					
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR		
			VOLUME	V/C	VOLUME	V/C	
NBL	1	1700	10	0.01	27	0.02	
NBT	1	1700	41	0.05 *	84	0.08 *	
NBR	0		38		47		
SBL	1	1700	57	0.03 *	71	0.04 *	
SBT	1	1700	7	0.00	11	0.01	
SBR	1	1700	138	0.08	409	0.24 *	
EBL	1	1700	365	0.21 *	141	0.08	
EBT	3	5100	1647	0.33	1822	0.39 *	
EBR	0		12		167		
WBL	1	1700	156	0.09	205	0.12 *	
WBT	3	5100	1530	0.31 *	2029	0.41	
WBR	0		69		56		
		N/S Movements		0.08		0.12	
		E/W Movements		0.53		0.51	
		Rt. Turn Component		0.00		0.15	
		Yellow Clearance		0.05		0.05	
TOTAL CAPACITY UTILIZATION				0.658	0.831		
LEVEL OF SERVICE (LOS)				B	D		

**INTERSECTION CAPACITY UTILIZATION
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2013 With Project						
INTERSECTION:		4 State College/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	2	3400	317	0.09 *	3400	604	0.18 *	
NBT	3	5100	591	0.17	5100	856	0.23	
NBR	0		258			323		
SBL	2	3400	208	0.06	3400	133	0.04	
SBT	3	5100	822	0.16 *	5100	813	0.16 *	
SBR	1	1700	173	0.10	1700	239	0.14	
EBL	2	3400	344	0.10	3400	333	0.10 *	
EBT	2.5	4965	1234	0.25 *	5040	1148	0.23	
EBR	1.5	1835	456	0.25	1760	401	0.23	
WBL	2	3400	322	0.09 *	3400	423	0.12	
WBT	3	5100	847	0.17	5100	1663	0.33 *	
WBR	1	1700	47	0.03	1700	127	0.07	
		N/S Movements		0.25			0.34	
		E/W Movements		0.34			0.42	
		Rt. Turn Component		0.00			0.00	
		Yellow Clearance		0.05			0.05	
TOTAL CAPACITY UTILIZATION				0.648				0.811
LEVEL OF SERVICE (LOS)				B				D

**INTERSECTION CAPACITY UTILIZATION
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2013 With Project						
INTERSECTION:		5 Sportstown/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	1	1700	24	0.01	1700	59	0.03	
NBT	0.5	1700	3	0.00 *	575	11	0.02 *	
NBR	1.5	1700	0	0.00	2825	54	0.02	
SBL	1	1700	51	0.03 *	1700	138	0.08 *	
SBT	1	1700	3	0.00	1700	3	0.00	
SBR	1	1700	72	0.04	1700	109	0.06 *	
EBL	1	1700	112	0.07	1700	42	0.02 *	
EBT	3	5100	1603	0.33 *	5100	1436	0.29	
EBR	0		63			58		
WBL	1	1700	35	0.02 *	1700	0	0.00	
WBT	3	5100	1082	0.21	5100	2021	0.40 *	
WBR	1	1700	104	0.06	1700	106	0.06	
		N/S Movements		0.03			0.10	
		E/W Movements		0.35			0.42	
		Rt. Turn Component		0.00			0.04	
		Yellow Clearance		0.05			0.05	
TOTAL CAPACITY UTILIZATION				0.429		0.609		
LEVEL OF SERVICE (LOS)				A		B		

**INTERSECTION CAPACITY UTILIZATION
CALCULATION WORKSHEET**

PROJECT:		Anaheim					
ANALYSIS CONDITION:		ARTIC- 2013 With Project					
INTERSECTION:		6 Howell/ Katella					
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR		
			VOLUME	V/C	VOLUME	V/C	
NBL	1	1700	14	0.01	102	0.06	
NBT	1	1700	8	0.00 *	30	0.02 *	
NBR	1	1700	31	0.02	194	0.11 *	
SBL	2	3400	205	0.06 *	317	0.09 *	
SBT	1	1700	35	0.05	14	0.03	
SBR	0		45		40		
EBL	2	3400	47	0.01	47	0.01 *	
EBT	3	5100	1542	0.32 *	1501	0.30	
EBR	0		70		50		
WBL	2	3400	153	0.05 *	70	0.02	
WBT	3	5100	1193	0.31	2004	0.45 *	
WBR	0		365		303		
		N/S Movements		0.07		0.11	
		E/W Movements		0.36		0.47	
		Rt. Turn Component		0.00		0.08	
		Yellow Clearance		0.05		0.05	
TOTAL CAPACITY UTILIZATION				0.476	0.703		
LEVEL OF SERVICE (LOS)				A	C		

**INTERSECTION CAPACITY UTILIZATION
CALCULATION WORKSHEET**

PROJECT:		Anaheim					
ANALYSIS CONDITION:		ARTIC- 2013 With Project					
INTERSECTION:		7 SR 57 SB Ramps/ Katella					
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR		
			VOLUME	V/C	VOLUME	V/C	
NBL	0		0		0		
NBT	0		0	0.00 *	0	0.00 *	
NBR	0		0		0		
SBL	1.5	2275	529	0.23 *	1700	277 0.12 *	
SBT	0	0	0	0.00	0	0 0.00	
SBR	1.5	2825	657	0.23 *	3400	816 0.29 *	
EBL	0		0		0		
EBT	3	5100	1340	0.26 *	5100	1471 0.29 *	
EBR (free)			293	0.00		470 0.00	
WBL	0		0		0		
WBT	3	5100	1091	0.21	5100	1383 0.27	
WBR (free)			271	0.00		566 0.00	
		N/S Movements		0.23		0.12	
		E/W Movements		0.26		0.29	
		Rt. Turn Component		0.00		0.17	
		Yellow Clearance		0.05		0.05	
TOTAL CAPACITY UTILIZATION				0.545	0.627		
LEVEL OF SERVICE (LOS)				A	B		

**INTERSECTION CAPACITY UTILIZATION
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2013 With Project						
INTERSECTION:		8 SR 57 NB Ramps/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	1.5	2531	462	0.18 *	2522	359	0.14 *	
NBT	0	0	0	0.00	0	0	0.00	
NBR	1.5	2569	469	0.18 *	2578	367	0.14 *	
SBL	0		0			0		
SBT	0		0	0.00 *		0	0.00 *	
SBR	0		0			0		
EBL	0		0			0	*	
EBT	3	5100	1317	0.26 *	5100	1061	0.21	
EBR (free)			562	0.00		679	0.00	
WBL	0		0	*		0		
WBT	3	5100	945	0.19	5100	1611	0.32 *	
WBR (free)			208	0.00		402	0.00	
		N/S Movements		0.18			0.14	
		E/W Movements		0.26			0.32	
		Rt. Turn Component		0.00			0.00	
		Yellow Clearance		0.05			0.05	
TOTAL CAPACITY UTILIZATION				0.491	0.508			
LEVEL OF SERVICE (LOS)				A	A			

**INTERSECTION CAPACITY UTILIZATION
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2013 With Project						
INTERSECTION:		9 Douglass/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	2	3400	140	0.04	3400	447	0.13	*
NBT	0.5	1665	24	0.01	1325	46	0.03	
NBR	1.5	1735	25	0.01	2075	72	0.03	
SBL	1	1700	108	0.06	1700	151	0.09	
SBT	0.5	1360	38	0.03	88	11	0.13	*
SBR	1.5	2040	57	0.03	3312	415	0.13	
EBL	2	3400	407	0.12	3400	122	0.04	*
EBT	3	5100	1081	0.21	5100	1035	0.20	
EBR	1	1700	360	0.21	1700	112	0.07	
WBL	2	3400	129	0.04	3400	55	0.02	
WBT	3	5100	984	0.19	5100	1235	0.24	*
WBR	1	1700	100	0.06	1700	162	0.10	
		N/S Movements		0.08			0.26	
		E/W Movements		0.31			0.28	
		Rt. Turn Component		0.00			0.00	
		Yellow Clearance		0.05			0.05	
TOTAL CAPACITY UTILIZATION				0.441				0.585
LEVEL OF SERVICE (LOS)				A				A

**INTERSECTION CAPACITY UTILIZATION
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2013 With Project						
INTERSECTION:		10 Struck/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	1.5	3133	129	0.04	3239	402	0.12	
NBT	0.5	267	0	0.04	161	0	0.12	
NBR	0		11			20		
SBL	0		0			0		
SBT	0		0	0.00		0	0.00	
SBR	0		0			0		
EBL	0		0			0		
EBT	3	5100	1038	0.20 *	5100	1054	0.21 *	
EBR	1	1700	294	0.17	1700	237	0.14	
WBL	1	1700	23	0.01 *	1700	7	0.00 *	
WBT	3	5100	884	0.17	5100	1063	0.21	
WBR	0		0			0		
		N/S Movements		0.04			0.12	
		E/W Movements		0.22			0.21	
		Rt. Turn Component		0.00			0.00	
		Yellow Clearance		0.05			0.05	
TOTAL CAPACITY UTILIZATION				0.308				0.385
LEVEL OF SERVICE (LOS)				A				A

**INTERSECTION CAPACITY UTILIZATION
CALCULATION WORKSHEET**

PROJECT:		Anaheim					
ANALYSIS CONDITION:		ARTIC- 2013 With Project					
INTERSECTION:		11 Main/ Katella					
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR		
			VOLUME	V/C	VOLUME	V/C	
NBL	2	3400	82	0.02 *	135	0.04	
NBT	2	3400	220	0.06	397	0.12 *	
NBR	1	1700	147	0.09	301	0.18	
SBL	1	1700	46	0.03	93	0.05 *	
SBT	2	3400	426	0.13 *	265	0.08	
SBR	1	1700	94	0.06	141	0.08	
EBL	1	1700	127	0.07	115	0.07	
EBT	3	5100	623	0.12 *	900	0.18 *	
EBR	1	1700	81	0.05	108	0.06	
WBL	1	1700	362	0.21 *	222	0.13 *	
WBT	3	5100	906	0.19	795	0.18	
WBR	0		64		130		
		N/S Movements		0.15		0.17	
		E/W Movements		0.34		0.31	
		Rt. Turn Component		0.00		0.00	
		Yellow Clearance		0.05		0.05	
TOTAL CAPACITY UTILIZATION				0.535	0.529		
LEVEL OF SERVICE (LOS)				A	A		

**INTERSECTION CAPACITY UTILIZATION
CALCULATION WORKSHEET**

PROJECT:		Anaheim					
ANALYSIS CONDITION:		ARTIC- 2013 With Project					
INTERSECTION:		12 Batavia/ Katella					
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR		
			VOLUME	V/C	VOLUME	V/C	
NBL	1	1700	53	0.03 *	98	0.06	
NBT	2	3400	234	0.07	314	0.09 *	
NBR	1	1700	96	0.06	118	0.07	
SBL	1	1700	98	0.06	121	0.07 *	
SBT	2	3400	410	0.12 *	220	0.06	
SBR	1	1700	149	0.09	142	0.08	
EBL	1	1700	140	0.08 *	144	0.08	
EBT	3	5100	498	0.11	1289	0.26 *	
EBR	0		61		45		
WBL	1	1700	201	0.12	92	0.05 *	
WBT	3	5100	1258	0.25 *	822	0.17	
WBR	0		10		20		
Split Phase	N/S Movements			0.19		0.16	
	E/W Movements			0.33		0.32	
	Rt. Turn Component			0.00		0.00	
	Yellow Clearance			0.05		0.05	
TOTAL CAPACITY UTILIZATION				0.570		0.529	
LEVEL OF SERVICE (LOS)				A		A	

APPENDIX H-III

**YEAR 2013 WITH PROJECT WITH MITIGATION
TRAFFIC CONDITIONS**

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