

Project Name: 12th Street Redevelopment  
 Model: PM Peak Hour - Calibrated  
 Date: 10/15/2010  
 Company: DKS Associates  
 Document: Calibrated Base Model Results

	Seconds	Trav		#Veh	Trav	#Veh
		12th Street Eastbound	12th Street Westbound			
PM Peak - VISSIM	813.9	75	738.3	75		
PM Peak - VISSIM	13.56	75	12.30	75		
All Day - Blue Tooth	12.75	100	13.01	100		
Blue Tooth - VISSIM (Minutes)	-0.81	-	0.71	-		
% Difference Between Blue Tooth and VISSIM	-6.39%	-	5.42%	-		
PM Peak - Floating Car	13.88	15	12.98	15		
Floating Car - VISSIM (Minutes)	0.32	-	0.68	-		
% Difference Between Floating Car and VISSIM	2.27%	-	5.20%	-		
Average of Field Data	13.32	-	13.00	-		
Average Field Data - VISSIM (Minutes)	-0.25	-	0.69	-		
% Difference Between Average Field Data and VISSIM	-1.87%	-	5.31%	-		
Standard Deviation	13.5				15.1	

Calculated from the output over all the simulation runs

Run	Time VehC No.:	Trav All	#Veh	Trav All	#Veh	Trav All	#Veh	Time VehC No.:
Run 1	4500	EB 12th	800.5	75	750.5	75	75	4500
Run 2	4500	EB 12th	823.3	75	725.5	75	75	4500
Run 3	4500	EB 12th	823.3	75	725.5	75	75	4500

Trav	#Veh	Trav	#Veh	Trav	#Veh	Trav	#Veh	Trav	#Veh	Trav	#Veh	Trav	#Veh
All	1	All	2	All	2	All	2	All	2	All	2	All	2
EB 12th	EB 12th	WB 12th	WB 12th	WB 12th	WB 12th	WB 12th	WB 12th	WB 12th	WB 12th	WB 12th	WB 12th	WB 12th	WB 12th
828	75	722.3	75	745.7	75	829.4	75	805.7	75	765.3	75	801.1	75

Time	VehC	No.:	Name
4500	4500	4500	4500

Time	VehC	No.:	Name
4500	4500	4500	4500

Time	VehC	No.:	Name
4500	4500	4500	4500

Time	VehC	No.:	Name
4500	4500	4500	4500

7	Time VehC No.:	Trav All	#Veh 1	Trav All	#Veh 2	Trav All	#Veh 2
	Name	EB 12th	EB 12th	WB 12th	WB 12th	WB 12th	WB 12th
	4500	798.8	75	729.8	75		75

  

8	Time VehC No.:	Trav All	#Veh 1	Trav All	#Veh 2	Trav All	#Veh 2
	Name	EB 12th	EB 12th	WB 12th	WB 12th	WB 12th	WB 12th
	4500	800.5	75	750.5	75		75

  

9	Time VehC No.:	Trav All	#Veh 1	Trav All	#Veh 2	Trav All	#Veh 2
	Name	EB 12th	EB 12th	WB 12th	WB 12th	WB 12th	WB 12th
	4500	823.3	75	725.5	75		75

  

10	Time VehC No.:	Trav All	#Veh 1	Trav All	#Veh 2	Trav All	#Veh 2
	Name	EB 12th	EB 12th	WB 12th	WB 12th	WB 12th	WB 12th
	4500	828	75	722.3	75		75

Overall Intersection Results - PM Existing

Node #	Street 1	Street 2	Sig	Delay (sec)	LOS	VISSIM Vehicles Output	Input Demand	GEH Value	Standard Deviation
1	12th Ave	A Street		2.4	A	401	400	0.0	25
2	12th Ave	B Street	X	2.9	A	442	450	0.4	20
3	12th Ave	C Street		1.8	A	649	675	1.0	23
4	12th Ave	D Street	X	9.5	A	976	1015	1.2	19
5	12th Ave	E Street		1.7	A	802	840	1.3	16
6	12th Ave	F Street	X	13.0	B	1427	1480	1.4	30
7	12th Ave	G Street		3.4	A	703	725	0.8	21
8	12th Ave	H Street	X	5.9	A	765	768	0.1	20

Calculation provided in Section 6

Calculated from the output over all the simulation runs

Intersection Results by Movement - PM Existing

Node #	Street 1	Street 2	Sig	Movement	Delay (sec)	LOS	VISSIM Vehicles Output	Input Demand	Difference (Output vs. Input)	GEH Value	Standard Deviation		
1	12th Ave	A Street		1 NBLT	7.7	A	7	5	2	0.8	2.9		
				6 NB THRU	11.3	B	14	15	-1	0.3	5.0		
				9 NBR	7.8	A	19	20	-1	0.2	4.7		
				5 SBLT	6.8	A	10	10	0	0.0	2.9		
				2 SB THRU	11.0	B	9	10	-1	0.3	4.3		
				10 SBR	4.9	A	14	15	-1	0.3	3.4		
				3 EBLT	1.3	A	6	5	1	0.4	2.7		
				EB THRU	0.1	A	117	120	-3	0.3	15.2		
				EBRT	0.5	A	5	5	0	0.0	2.1		
				WBLT	2.5	A	29	25	4	0.8	4.6		
2	12th Ave	B Street	4 WB THRU	1.9	A	121	120	1	0.1	6.8			
			12 WBRT	1.7	A	54	50	4	0.6	5.5			
			1 NBLT	18.7	B	7	5	2	0.8	4.2			
			9 NBR	3.7	A	59	60	-1	0.1	7.6			
			8 EB THRU	2.4	A	139	145	-6	0.5	13.3			
			11 EBR	1.7	A	6	5	1	0.4	2.3			
			7 WBLT	8.3	A	38	40	-2	0.3	7.1			
			4 WB THRU	1.5	A	196	195	1	0.1	8.6			
3	12th Ave	C Street	5 SBLT	8.3	A	90	95	-5	0.5	6.6			
			10 SBR	5.5	A	6	5	1	0.4	2.0			
			3 EBLT	2.6	A	5	5	0	0.0	2.1			
			8 EB THRU	2.0	A	194	200	-6	0.4	16.2			
			4 WB THRU	0.2	A	228	230	-2	0.1	7.8			
			12 WBRT	0.0	A	128	140	-12	1.0	11.7			
			5 SBLT	34.3	C	89	90	-1	0.1	7.6			
			10 SBR	7.1	A	64	65	-1	0.1	6.8			
			8 EB THRU	32.5	C	104	105	-1	0.1	11.9			
			11 EBR	0.0	A	180	190	-10	0.7	13.1			
4	12th Ave	D Street	7 WBLT	2.1	A	248	260	-12	0.8	12.2			
			4 WB THRU	6.6	A	292	305	-13	0.8	12.1			
			3 EBLT	2.4	A	39	35	4	0.7	4.8			
			8 EB THRU	8.2	A	154	160	-6	0.5	9.9			
			4 WB THRU	0.2	A	539	565	-26	1.1	13.4			
			12 WBRT	0.0	A	71	80	-9	1.0	7.0			
			1 NBLT	10.7	B	227	235	-8	0.5	12.3			
			6 NB THRU	12.7	B	386	395	-9	0.5	19.8			
			9 NBR	11.1	B	211	210	1	0.1	14.4			
			5 SBLT	38.6	D	35	35	0	0.0	5.3			
5	12th Ave	E Street	10 SBR	6.9	A	133	140	-7	0.6	11.9			
			3 EBLT	8.2	A	27	30	-3	0.6	6.1			
			8 EB THRU	6.3	A	127	130	-3	0.3	9.0			
			4 WB THRU	21.8	C	251	270	-19	1.2	5.7			
			12 WBRT	6.1	A	35	35	0	0.0	6.9			
			1 NBLT	13.9	B	26	35	-9	1.6	3.8			
			9 NBR	6.6	A	25	25	0	0.0	5.6			
			8 EB THRU	0.9	A	313	315	-2	0.1	14.7			
			11 EBR	0.0	A	59	60	-1	0.1	7.1			
			7 WBLT	2.0	A	21	20	1	0.2	4.0			
6	12th Ave	F Street	4 WB THRU	6.0	A	260	270	-10	0.6	7.4			
			1 NBLT	9.1	A	124	130	-6	0.5	10.2			
			9 NBR	4.9	A	99	100	-1	0.1	11.9			
			8 EB THRU	6.1	A	234	240	-6	0.4	11.4			
			11 EBR	4.9	A	105	100	5	0.5	9.7			
			7 WBLT	5.6	A	49	50	-1	0.1	6.4			
			4 WB THRU	4.3	A	157	160	-3	0.2	13.6			
			<b>Total Network</b>					-	-	-	<b>-180</b>	<b>2.3</b>	<b>-</b>
			<b>Total Network</b>						<b>6185</b>	<b>6365</b>	<b>-180</b>	<b>2.3</b>	<b>-</b>

Node	Movement	Ref #	Delay(All)	aveQueue	maxQueue	tStopd(All)	Veh(All)	StDev Vol
1	E-S	107	2.53	0.00	0.00	0.00	28.30	4.6
1	E-W	104	1.88	0.00	0.00	0.04	121.00	6.8
1	E-N	112	1.73	0.00	0.00	0.00	53.40	5.5
1	W-E	108	0.13	0.00	0.00	0.00	116.40	15.2
1	W-S	111	0.50	0.00	0.00	0.00	4.70	2.1
1	W-N	103	1.29	0.00	0.00	0.24	5.70	2.7
1	S-N	106	11.28	0.00	11.83	0.51	13.90	5.0
1	S-E	109	4.82	0.00	11.83	0.21	18.90	4.7
1	S-W	101	7.66	0.00	11.83	0.74	6.20	2.9
1	N-W	110	4.88	0.00	7.82	0.33	13.70	3.4
1	N-E	105	6.77	0.00	7.82	0.39	9.90	2.9
1	All	102	10.99	0.00	15.32	0.83	7.82	4.3
1	All	100	2.38	0.00	0.09	0.09	401.00	24.5
2	E-W	204	1.48	0.66	56.37	0.60	195.50	8.6
2	E-S	207	8.29	1.16	55.27	2.96	37.50	7.1
2	S-E	209	3.68	0.00	12.62	0.14	58.50	7.6
2	S-W	201	18.70	0.63	28.16	14.34	6.20	4.2
2	W-S	211	1.73	0.00	0.12	0.12	5.10	2.3
2	W-E	208	2.38	0.77	47.35	0.73	138.90	13.3
2	All	200	2.90	0.54	68.84	0.98	441.70	19.8
3	N-E	305	8.25	1.58	53.19	0.77	89.70	6.6
3	N-W	310	5.48	1.58	53.19	0.29	5.20	2.0
3	E-N	312	0.00	0.27	30.55	0.01	127.70	11.7
3	E-W	304	0.23	0.27	30.55	0.00	228.00	7.8
3	W-E	308	2.01	0.00	0.00	0.18	193.40	16.2
3	W-N	303	2.55	0.00	0.00	0.17	4.20	2.1
3	All	300	1.83	0.62	67.06	0.18	648.20	22.8
4	N-W	400	7.06	4.59	118.63	0.52	64.00	6.8
4	N-S	402	0.00	15.85	144.40	0.00	0.00	0.0
4	N-E	405	34.29	15.85	144.40	25.72	88.90	7.6
4	W-S	411	0.00	3.23	103.85	0.00	179.70	13.1
4	W-E	408	32.51	17.89	147.01	26.62	103.90	11.9
4	E-S	407	2.11	6.06	107.35	1.20	247.20	12.2
4	E-W	404	6.58	6.06	107.35	3.07	291.80	12.1
4	All	400	9.49	9.93	166.01	6.44	975.50	18.8
5	E-N	512	0.00	0.83	82.79	0.00	70.50	7.0
5	E-W	504	0.20	0.83	82.79	0.00	539.00	13.4
5	W-E	508	8.15	0.52	66.10	3.83	153.90	9.9
5	W-N	503	2.36	0.02	10.78	0.18	38.40	4.8
5	All	500	1.74	0.55	93.84	0.74	801.80	15.6
6	S-E	609	11.07	5.29	151.95	1.39	210.20	14.4
6	N-W	610	6.88	4.82	76.72	0.49	133.00	11.9
6	N-E	605	38.60	6.46	71.44	32.49	34.20	5.3
6	E-N	612	6.11	11.64	124.98	3.85	34.40	6.9
6	E-W	604	21.79	25.66	149.34	17.17	250.20	5.7
6	S-W	601	10.67	5.88	102.07	4.00	226.20	12.3
6	S-N	606	12.73	12.17	175.48	4.11	385.10	19.8
6	W-N	603	8.15	7.85	118.09	4.46	26.70	6.1
6	W-E	608	6.29	7.85	118.09	2.66	126.90	9.0
6	All	600	13.02	9.74	182.64	6.19	1426.90	29.4
7	W-S	711	0.01	3.83	140.32	0.01	58.90	7.1
7	W-E	708	0.90	3.83	140.32	0.02	312.40	14.7
7	E-S	707	2.00	0.12	36.17	0.39	20.90	4.0
7	E-W	704	6.02	0.12	36.17	2.60	259.30	7.4
7	S-W	701	13.93	0.04	30.72	5.29	25.90	3.8
7	S-E	709	6.59	0.04	30.72	0.56	25.00	5.6
7	All	700	3.40	1.34	140.32	1.19	702.40	20.3
8	E-S	807	5.61	1.96	63.65	1.51	48.30	6.4
8	E-W	804	4.31	1.96	63.65	0.90	156.60	13.6
8	S-E	809	4.87	2.59	69.52	0.34	98.50	11.9
8	W-S	811	4.92	3.03	131.52	0.32	104.10	9.7
8	W-E	808	6.12	3.14	123.70	0.84	233.30	11.4
8	S-W	801	9.05	4.25	83.76	4.21	123.80	10.2
8	All	800	5.86	2.83	135.77	1.29	764.60	19.5
0	All	0	6.09	3.08	193.21	2.77	6513.40	121.9



	7			8			9			10		
	maxQueue	tStopd(All)	Veh(All)	maxQueue	tStopd(All)	Veh(All)	maxQueue	tStopd(All)	Veh(All)	maxQueue	tStopd(All)	Veh(All)
	0	0	31	0	0	34	0	0	26	0	0	23
1	1.6	0	119	2.1	1.8	115	3.1	0	0	2.6	0	0
1	2.9	0	123	1.8	0	0	1.4	0	0	2.5	0	0
1	1.9	0	53	2.2	0	0	1.8	0	0	1.7	0	0
1	0.1	0	127	0.1	0	0	0.2	0	0	0.1	0	0
1	0.5	0	0	0.5	0	0	0.5	0	0	0.5	0	0
1	1.9	0	7	0.4	0	0	0.6	0	0	1.7	0	0
1	10.6	0	8	10.4	0	5	12.2	0	5	10.1	0	0
1	4.8	0	9	4.9	0	11	5.4	0	21	4.9	0	13.6
1	9.5	0	23	7.5	0	14	6.5	0	19	4.9	0	0.2
1	4.7	0	8	4.7	0	3	4.8	0	9	5.6	0	13.6
1	4.7	0	15	4.7	0	9	4.8	0	12	5.6	0	0.2
1	6.6	0	14	8.1	0	8	7.8	0	11	5.8	0	0.6
1	9.9	0	16	9.6	0	5	11.1	0	11	11.3	0	0.2
1	2.6	0	431	2	0	0	2.8	0	10	2.3	0	0.7
1	408	0	0.1	408	0	388	0.1	369	0	408	0	0.7
2	2.8	1.4	193	3.1	1.7	198	0.9	0.3	185	2.2	1	1
2	6.7	0.9	43	8.8	1.6	48	7.9	1	37	3.8	1.6	68.7
2	3.8	0	69	3.6	0	61	3.8	0	61	3.8	0	50.3
2	16	0.3	5	30.7	0.7	5	25.8	0.5	4	30.6	2.3	6
2	0.3	22.4	10.8	0.4	0	0	0.4	0	208	0.4	39.5	25.5
2	1	0	0	0.4	0	8	1.8	0	0	3	0	0.3
2	1	0	5	0.4	0	0	1.8	0	3	0	0	0
2	8.7	1.3	193	8.7	1.3	198	8.7	1.3	193	8.7	1.3	198
2	48.8	1.6	43	48.8	1.6	48	50.4	3.4	48	50.4	3.4	48
2	19.6	0.1	69	19.6	0.1	61	19.6	0.1	61	19.6	0.1	61
2	22.4	0.1	5	22.4	0.1	5	22.4	0.1	5	22.4	0.1	5
2	16	0.3	5	16	0.3	5	16	0.3	5	16	0.3	5
2	1	0	0	1	0	0	1	0	0	1	0	0
2	1	0	4	1	0	4	1	0	4	1	0	4
2	0.8	48.3	0.6	0.6	72.5	0.5	0.6	43	0.6	0.6	43	0.6
2	2.1	0.8	154	2.2	0.6	137	2.2	0.6	121	2.2	0.6	121
2	0.6	88.7	1	0.6	88.7	1	0.6	88.7	1	0.6	88.7	1
2	3.2	0.6	468	3.8	0.8	457	3.8	0.8	411	4.4	1	68.7
3	9.1	1.9	84	8.6	1.8	96	8.8	2.2	98	7.8	1.5	48.6
3	7	1.9	4	6.3	1.8	6	4.8	2.2	5	5.2	1.5	48.6
3	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	122	0	0	141	0	0	113	0	0	0
3	0.2	0	232	0.3	0	238	0.2	0	218	0.3	0	25.6
3	2.1	0	215	2.5	0	193	1.9	0	175	1.9	0	0
3	1.7	0	9	0.2	0	2	1.6	0	5	3.1	0	0
3	2.1	0.6	681	2	0.6	676	2	0.7	614	1.7	0.5	48.6
4	6.8	5.2	69	7.7	3.8	77	6.2	4.5	55	5.4	4.7	129.2
4	0	17.5	0	0	14	0	0	17.2	0	0	16	155
4	33.4	17.5	101	33.2	14	77	34.3	17.2	92	34.6	16	155
4	0	4.8	201	0	5.5	168	0	1.7	188	0	3.3	61.3
4	6.9	5.7	286	3.4	7	302	3.7	5.3	276	6.3	96	2.7
4	10	11	1010	10	10.4	985	8.6	9.1	961	10.1	155	6.5
5	0	0.9	62	0	0.6	80	0	1.2	70	0	0.8	76.8
5	0.2	0.9	522	0.2	0.6	540	0.2	1.2	540	0.2	0.8	76.8
5	8.2	1.4	167	8.7	0.2	166	8.7	0.2	142	8.2	0.8	57.2
5	1.9	0	48	2.7	0	35	1.8	0	36	2.3	0	0
5	1.9	0.8	799	1.9	0.4	821	1.7	0.6	788	1.7	0.6	76.8
6	11.9	5.5	218	11.4	6.4	203	10.2	4.2	200	10.3	4.6	196.6
6	6.7	4.1	110	6.6	4.6	131	7.3	5.6	151	6.7	4.6	71.6
6	37.5	5.2	29	41.4	9	45	34.1	6.3	36	35.6	5.4	65.4
6	4.6	13.8	33	6.6	10.6	33	9.4	12	25	5.3	12	111.7
6	23.4	28.5	33	21.4	24.9	247	22.2	26.5	249	22.1	26.2	135.8
6	9.2	5.3	222	11.5	7.1	242	9.6	5.8	210	12.7	8.6	143.9
6	12.6	12.4	385	13.4	13.2	362	12	11.3	358	12.8	11.4	220.4
6	4.3	9	20	8.1	9.2	39	16	8.2	19	10	6.4	135.5
6	7.3	9	146	7.8	9.2	127	5.6	8.2	123	5	6.4	135.5
6	13.1	10.3	1415	13.7	10.5	1429	12.7	9.8	1371	13	9.5	220.4
7	0.1	4.9	58	0	2.9	64	0	4.7	56	0	3.1	124.6
7	0.9	4.9	336	0.9	2.9	311	1.2	4.7	302	0.9	3.1	124.6
7	1.3	0.2	24	2.1	0	15	3.5	0.4	23	2.7	0	21.5
7	6.8	0.2	259	5.7	0	265	6.5	0.4	251	6.5	0	21.5
7	13.6	0	28	16.7	0	17	15.2	0.1	24	14.5	0	0
7	6.6	0.7	26	7	0	28	6.4	0.1	20	6.6	0	0
7	3.6	1.7	731	3.2	1	700	3.8	1.7	676	3.7	1	124.6
8	7.4	2.1	45	6	2.1	49	5.8	2	34	5.5	2.2	65.1
8	4.7	2.1	144	4.1	2.1	170	4.4	2	155	4.4	2.2	65.1
8	5.1	2.7	93	4.7	2.6	101	4.8	2.9	70.7	5.1	2.5	70.8
8	5.2	3.9	109	5.3	3.2	109	4.6	2.9	101	4	3	149.8
8	6.3	3.5	251	6.7	3.7	228	6.1	3	219	5.4	2.8	141.9
8	10.1	5.4	136	8.6	3.6	112	8.4	3.7	123	7.9	3.4	68.3
8	6.5	3.3	778	5.9	2.9	769	5.7	2.8	749	5.3	2.7	149.8
0	6.3	3.4	6678	6.3	3.2	6579	6	3	6252	6.1	3.1	220.4
0	0	0	27.7	0	0	3	0	0	2.7	0	0	2.9
0	173.5	2.7	6500	173.5	2.7	6500	173.5	2.7	6500	173.5	2.7	6500









Project Name: 12th Street Redevelopment  
 Model: PM Peak Hour - Calibrated  
 Date: 10/15/2010  
 Company: DKS Associates  
 Document: Calibrated Base Model Results

Run 1

Location	Data Collection Point	VISSIM Vehicles Output	Input Demand	Difference (Output vs. Input)	GEH Value	STD Dev	Heavy Vehicle (HV)	HV%
12th St WB Entry	1	1007	1050	-43	1.3	10.6	20	2.0%
12th St WB Exit	2	1007	1025	-18	0.6	10.6	20	2.0%
12th St EB Exit	3	1007	975	32	1.0	10.6	20	2.0%
12th St EB Entry	4	1007	1000	7	0.2	10.6	20	2.0%
A St NB Entry	5	249	250	-1	0.1	4.6	5	2.0%
A St NB Exit	6	249	225	24	1.6	4.6	5	2.0%
A St SB Exit	7	249	200	49	3.3	4.6	5	2.0%
A St Entry	8	249	275	-26	1.6	4.6	5	2.0%
B St NB Entry	9	249	249	0	1.6	4.6	5	2.0%
B St NB Exit	10	249	249	0	0.1	4.6	5	2.0%
B St SB Exit	11	249	249	0	0.1	4.6	5	2.0%
B St Entry	12	249	225	24	1.6	4.6	5	2.0%
C St NB Entry	13	249	200	49	3.3	4.6	5	2.0%
C St NB Exit	14	249	275	-26	1.6	4.6	5	2.0%
D St SB Exit	15	249	275	-26	1.6	4.6	5	2.0%
D St Entry	16	249	250	-1	0.1	4.6	5	2.0%
E St NB Entry	17	249	250	-1	0.1	4.6	5	2.0%
E St NB Exit	18	249	225	24	1.6	4.6	5	2.0%
E St SB Exit	19	249	200	49	3.3	4.6	5	2.0%
E St Entry	20	249	275	-26	1.6	4.6	5	2.0%
F St NB Entry	21	249	275	-26	1.6	4.6	5	2.0%
F St NB Exit	22	249	250	-1	0.1	4.6	5	2.0%
G St SB Exit	23	249	250	-1	0.1	4.6	5	2.0%
G St Entry	24	249	225	24	1.6	4.6	5	2.0%
H St NB Entry	25	249	200	49	3.3	4.6	5	2.0%
H St NB Exit	26	249	275	-26	1.6	4.6	5	2.0%
H St SB Exit	27	249	275	-26	1.6	4.6	5	2.0%
H St Entry	28	249	250	-1	0.1	4.6	5	2.0%
<b>Total Network</b>		10004	9950	54	0.5	110.7	180	1.8%

Calculated from the output over all the simulation runs

Measur. from to all veh. types HGV  
 1 900 4500 1000 20  
 2 900 4500 1000 20  
 3 900 4500 1000 20  
 4 900 4500 1000 20  
 5 900 4500 250 5  
 6 900 4500 250 5  
 7 900 4500 250 5  
 12 900 4500 250 5  
 13 900 4500 250 5  
 14 900 4500 250 5  
 15 900 4500 250 5  
 16 900 4500 250 5  
 17 900 4500 250 5  
 18 900 4500 250 5  
 19 900 4500 250 5  
 20 900 4500 250 5  
 21 900 4500 250 5  
 22 900 4500 250 5  
 23 900 4500 250 5  
 24 900 4500 250 5  
 25 900 4500 250 5  
 26 900 4500 250 5  
 27 900 4500 250 5  
 28 900 4500 250 5  
 Total 10000



5	Measur.		all veh. types		Measur.		all veh. types		Measur.		all veh. types		Measur.		all veh. types	
	from	to	4500	1000	900	4500	1010	1010	900	4500	1010	1010	900	4500	1000	10000
1	900	900	4500	1000	900	4500	1010	1010	900	4500	1010	1010	900	4500	1000	20
2	900	900	4500	1000	900	4500	1010	1010	900	4500	1010	1010	900	4500	1000	20
3	900	900	4500	1000	900	4500	1010	1010	900	4500	1010	1010	900	4500	1000	20
4	900	900	4500	1000	900	4500	1010	1010	900	4500	1010	1010	900	4500	1000	20
5	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	5
6	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	5
7	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	5
8	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	5
9	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	5
10	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	5
11	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	5
12	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	5
13	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	5
14	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	5
15	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	5
16	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	5
17	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	5
18	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	5
19	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	5
20	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	5
21	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	5
22	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	5
23	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	5
24	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	5
25	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	5
26	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	5
27	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	5
28	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	5
				9760				10160								10000

7

6

5

8

Measur.	from	to	all veh. types	HGV
1	900	4500	1000	20
2	900	4500	1000	20
3	900	4500	1000	20
4	900	4500	1000	20
5	900	4500	250	5
6	900	4500	250	5
7	900	4500	250	5
8	900	4500	250	5
9	900	4500	250	5
10	900	4500	250	5
11	900	4500	250	5
12	900	4500	250	5
13	900	4500	250	5
14	900	4500	250	5
15	900	4500	250	5
16	900	4500	250	5
17	900	4500	250	5
18	900	4500	250	5
19	900	4500	250	5
20	900	4500	250	5
21	900	4500	250	5
22	900	4500	250	5
23	900	4500	250	5
24	900	4500	250	5
25	900	4500	250	5
26	900	4500	250	5
27	900	4500	250	5
28	900	4500	250	5
			10000	

9

Measur.	from	to	all veh. types	HGV
1	900	4500	1025	21
2	900	4500	1025	21
3	900	4500	1025	21
4	900	4500	1025	21
5	900	4500	245	5
6	900	4500	245	5
7	900	4500	245	5
8	900	4500	245	5
9	900	4500	245	5
10	900	4500	245	5
11	900	4500	245	5
12	900	4500	245	5
13	900	4500	245	5
14	900	4500	245	5
15	900	4500	245	5
16	900	4500	245	5
17	900	4500	245	5
18	900	4500	245	5
19	900	4500	245	5
20	900	4500	245	5
21	900	4500	245	5
22	900	4500	245	5
23	900	4500	245	5
24	900	4500	245	5
25	900	4500	245	5
26	900	4500	245	5
27	900	4500	245	5
28	900	4500	245	5
			9980	

10

Measur.	from	to	all veh. types	HGV
1	900	4500	1005	20
2	900	4500	1005	20
3	900	4500	1005	20
4	900	4500	1005	20
5	900	4500	250	5
6	900	4500	250	5
7	900	4500	250	5
8	900	4500	250	5
9	900	4500	250	5
10	900	4500	250	5
11	900	4500	250	5
12	900	4500	250	5
13	900	4500	250	5
14	900	4500	250	5
15	900	4500	250	5
16	900	4500	250	5
17	900	4500	250	5
18	900	4500	250	5
19	900	4500	250	5
20	900	4500	250	5
21	900	4500	250	5
22	900	4500	250	5
23	900	4500	250	5
24	900	4500	250	5
25	900	4500	250	5
26	900	4500	250	5
27	900	4500	250	5
28	900	4500	250	5
			10020	

Project Name: 12th Street Redevelopment  
 Model: PM Peak Hour - 2035  
 Date: 10/15/2010  
 Company: DKS Associates  
 Document: Future 2035 Analysis Results

Run 1

Location	Data Collection Point	VISSIM Vehicles Output	Input Demand	Difference (Output vs. Input)	STD Dev	Heavy Vehicle (HV)	HV%
12th St WB Entry	1	1007	1050	-43	10.6	20	2.0%
12th St WB Exit	2	1007	1025	-18	10.6	20	2.0%
12th St EB Exit	3	1007	975	32	10.6	20	2.0%
12th St EB Entry	4	1007	1000	7	10.6	20	2.0%
A St NB Entry	5	249	250	-1	4.6	5	2.0%
A St NB Exit	6	249	225	24	4.6	5	2.0%
A St SB Exit	7	249	200	49	4.6	5	2.0%
A St Entry	8	249	275	-26	4.6	5	2.0%
B St NB Entry	9	249	275	-26	4.6	5	2.0%
B St NB Exit	10	249	250	-1	4.6	5	2.0%
B St SB Exit	11	249	250	-1	4.6	5	2.0%
B St Entry	12	249	225	24	4.6	5	2.0%
C St NB Entry	13	249	200	49	4.6	5	2.0%
C St NB Exit	14	249	275	-26	4.6	5	2.0%
D St SB Exit	15	249	275	-26	4.6	5	2.0%
D St Entry	16	249	250	-1	4.6	5	2.0%
E St NB Entry	17	249	250	-1	4.6	5	2.0%
E St NB Exit	18	249	225	24	4.6	5	2.0%
E St SB Exit	19	249	200	49	4.6	5	2.0%
E St Entry	20	249	275	-26	4.6	5	2.0%
F St NB Entry	21	249	275	-26	4.6	5	2.0%
F St NB Exit	22	249	250	-1	4.6	5	2.0%
G St SB Exit	23	249	250	-1	4.6	5	2.0%
G St Entry	24	249	225	24	4.6	5	2.0%
H St NB Entry	25	249	200	49	4.6	5	2.0%
H St NB Exit	26	249	275	-26	4.6	5	2.0%
H St SB Exit	27	249	275	-26	4.6	5	2.0%
H St Entry	28	249	250	-1	4.6	5	2.0%
<b>Total Network</b>		10004	9950	54	110.7	180	1.8%

all veh. types  
 Measur. from to HGVS  
 1 900  
 2 900  
 3 900  
 4 900  
 5 900  
 6 900  
 7 900  
 12 900  
 13 900  
 14 900  
 15 900  
 16 900  
 17 900  
 18 900  
 19 900  
 20 900  
 21 900  
 22 900  
 23 900  
 24 900  
 25 900  
 26 900  
 27 900  
 28 900  
 Total 10000

Calculated from the output over all the simulation runs

2

Measur.	from	to	all veh. types	HGV
1	900	4500	1025	21
2	900	4500	1025	21
3	900	4500	1025	21
4	900	4500	1025	21
5	900	4500	245	5
6	900	4500	245	5
7	900	4500	245	5
8	900	4500	245	5
9	900	4500	245	5
10	900	4500	245	5
11	900	4500	245	5
12	900	4500	245	5
13	900	4500	245	5
14	900	4500	245	5
15	900	4500	245	5
16	900	4500	245	5
17	900	4500	245	5
18	900	4500	245	5
19	900	4500	245	5
20	900	4500	245	5
21	900	4500	245	5
22	900	4500	245	5
23	900	4500	245	5
24	900	4500	245	5
25	900	4500	245	5
26	900	4500	245	5
27	900	4500	245	5
28	900	4500	245	5
			9980	

3

Measur.	from	to	all veh. types	HGV
1	900	4500	1010	20
2	900	4500	1010	20
3	900	4500	1010	20
4	900	4500	1010	20
5	900	4500	255	5
6	900	4500	255	5
7	900	4500	255	5
8	900	4500	255	5
9	900	4500	255	5
10	900	4500	255	5
11	900	4500	255	5
12	900	4500	255	5
13	900	4500	255	5
14	900	4500	255	5
15	900	4500	255	5
16	900	4500	255	5
17	900	4500	255	5
18	900	4500	255	5
19	900	4500	255	5
20	900	4500	255	5
21	900	4500	255	5
22	900	4500	255	5
23	900	4500	255	5
24	900	4500	255	5
25	900	4500	255	5
26	900	4500	255	5
27	900	4500	255	5
28	900	4500	255	5
			10160	

4

Measur.	from	to	all veh. types	HGV
1	900	4500	995	20
2	900	4500	995	20
3	900	4500	995	20
4	900	4500	995	20
5	900	4500	250	5
6	900	4500	250	5
7	900	4500	250	5
8	900	4500	250	5
9	900	4500	250	5
10	900	4500	250	5
11	900	4500	250	5
12	900	4500	250	5
13	900	4500	250	5
14	900	4500	250	5
15	900	4500	250	5
16	900	4500	250	5
17	900	4500	250	5
18	900	4500	250	5
19	900	4500	250	5
20	900	4500	250	5
21	900	4500	250	5
22	900	4500	250	5
23	900	4500	250	5
24	900	4500	250	5
25	900	4500	250	5
26	900	4500	250	5
27	900	4500	250	5
28	900	4500	250	5
			9980	

5	Measur.		all veh. types		Measur.		all veh. types		Measur.		all veh. types		Measur.		all veh. types	
	from	to	4500	1000	900	4500	1010	1010	900	4500	1010	1010	900	4500	1000	1000
1	900	900	4500	1000	900	4500	1010	1010	900	4500	1010	1010	900	4500	1000	1000
2	900	900	4500	1000	900	4500	1010	1010	900	4500	1010	1010	900	4500	1000	1000
3	900	900	4500	1000	900	4500	1010	1010	900	4500	1010	1010	900	4500	1000	1000
4	900	900	4500	1000	900	4500	1010	1010	900	4500	1010	1010	900	4500	1000	1000
5	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	250
6	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	250
7	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	250
8	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	250
9	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	250
10	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	250
11	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	250
12	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	250
13	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	250
14	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	250
15	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	250
16	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	250
17	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	250
18	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	250
19	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	250
20	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	250
21	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	250
22	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	250
23	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	250
24	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	250
25	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	250
26	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	250
27	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	250
28	900	900	4500	240	900	4500	255	255	900	4500	255	255	900	4500	250	250
				9760				10160								10000

7

6

5



8

Measur.	from	to	all veh. types	HGV
1	900	4500	1000	20
2	900	4500	1000	20
3	900	4500	1000	20
4	900	4500	1000	20
5	900	4500	250	5
6	900	4500	250	5
7	900	4500	250	5
8	900	4500	250	5
9	900	4500	250	5
10	900	4500	250	5
11	900	4500	250	5
12	900	4500	250	5
13	900	4500	250	5
14	900	4500	250	5
15	900	4500	250	5
16	900	4500	250	5
17	900	4500	250	5
18	900	4500	250	5
19	900	4500	250	5
20	900	4500	250	5
21	900	4500	250	5
22	900	4500	250	5
23	900	4500	250	5
24	900	4500	250	5
25	900	4500	250	5
26	900	4500	250	5
27	900	4500	250	5
28	900	4500	250	5
			10000	

9

Measur.	from	to	all veh. types	HGV
1	900	4500	1025	21
2	900	4500	1025	21
3	900	4500	1025	21
4	900	4500	1025	21
5	900	4500	245	5
6	900	4500	245	5
7	900	4500	245	5
8	900	4500	245	5
9	900	4500	245	5
10	900	4500	245	5
11	900	4500	245	5
12	900	4500	245	5
13	900	4500	245	5
14	900	4500	245	5
15	900	4500	245	5
16	900	4500	245	5
17	900	4500	245	5
18	900	4500	245	5
19	900	4500	245	5
20	900	4500	245	5
21	900	4500	245	5
22	900	4500	245	5
23	900	4500	245	5
24	900	4500	245	5
25	900	4500	245	5
26	900	4500	245	5
27	900	4500	245	5
28	900	4500	245	5
			9980	

10

Measur.	from	to	all veh. types	HGV
1	900	4500	1005	20
2	900	4500	1005	20
3	900	4500	1005	20
4	900	4500	1005	20
5	900	4500	250	5
6	900	4500	250	5
7	900	4500	250	5
8	900	4500	250	5
9	900	4500	250	5
10	900	4500	250	5
11	900	4500	250	5
12	900	4500	250	5
13	900	4500	250	5
14	900	4500	250	5
15	900	4500	250	5
16	900	4500	250	5
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18	900	4500	250	5
19	900	4500	250	5
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21	900	4500	250	5
22	900	4500	250	5
23	900	4500	250	5
24	900	4500	250	5
25	900	4500	250	5
26	900	4500	250	5
27	900	4500	250	5
28	900	4500	250	5
			10020	