



Appendix 3

SH1 / Dunns Crossing Road / Walkers Road Intersection Model Results

MOVEMENT SUMMARY

 **Site: 101 [SH1 / Dunns Crossing / Walkers - 2033 PM (Site Folder: SH1 / Dunns / Walkers)]**

New Site
Site Category: (None)
Roundabout

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES [Total HV] veh/h %		DEMAND FLOWS [Total HV] veh/h %		Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. Dist] veh m		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
South: Dunns Crossing Rd														
1	L2	92	10.0	97	10.0	0.232	15.3	LOS B	1.6	11.8	0.91	0.92	0.91	59.6
2	T1	139	10.0	146	10.0	0.527	14.9	LOS B	5.3	40.0	1.00	1.03	1.20	57.2
3	R2	167	10.0	176	10.0	0.527	22.9	LOS C	5.3	40.0	1.00	1.03	1.20	57.1
Approach		398	10.0	419	10.0	0.527	18.3	LOS B	5.3	40.0	0.98	1.00	1.13	57.7
East: SH1 East														
4	L2	709	10.0	746	10.0	0.784	11.3	LOS B	8.3	63.3	0.85	1.03	1.19	61.0
5	T1	743	10.0	782	10.0	0.776	9.8	LOS A	8.4	64.0	0.82	0.89	1.08	63.4
6	R2	127	10.0	134	10.0	0.776	17.7	LOS B	8.4	64.0	0.82	0.89	1.08	63.5
Approach		1579	10.0	1662	10.0	0.784	11.1	LOS B	8.4	64.0	0.83	0.95	1.13	62.3
North: Walkers Rd														
7	L2	205	10.0	216	10.0	0.437	10.0	LOS B	2.7	20.8	0.76	0.75	0.83	62.7
8	T1	288	10.0	303	10.0	0.437	9.9	LOS A	2.7	20.8	0.74	0.76	0.78	64.7
9	R2	59	10.0	62	10.0	0.244	16.5	LOS B	1.2	8.9	0.70	0.78	0.70	63.1
Approach		552	10.0	581	10.0	0.437	10.6	LOS B	2.7	20.8	0.74	0.76	0.79	63.8
West: SH1 West														
10	L2	36	10.0	38	10.0	0.383	7.9	LOS A	2.4	18.0	0.65	0.60	0.65	62.9
11	T1	591	10.0	622	10.0	0.412	8.1	LOS A	2.8	21.3	0.65	0.62	0.65	64.9
12	R2	159	10.0	167	10.0	0.412	19.0	LOS B	2.8	21.3	0.66	0.64	0.66	64.0
Approach		786	10.0	827	10.0	0.412	10.3	LOS B	2.8	21.3	0.65	0.63	0.65	64.6
All Vehicles		3315	10.0	3489	10.0	0.784	11.7	LOS B	8.4	64.0	0.79	0.85	0.96	62.5

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

Delay Model: SIDRA Standard (Geometric Delay is included).

Queue Model: SIDRA Standard.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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MOVEMENT SUMMARY

 **Site: 101 [SH1 / Dunns Crossing / Walkers - 2033 AM (Site Folder: SH1 / Dunns / Walkers)]**

New Site
Site Category: (None)
Roundabout

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h	HV] %	[Total veh/h	HV] %				[Veh. veh	Dist] m				
South: Dunns Crossing Rd														
1	L2	127	10.0	134	10.0	0.329	10.2	LOS B	1.6	11.8	0.69	0.79	0.71	63.1
2	T1	248	10.0	261	10.0	0.750	11.0	LOS B	7.2	54.9	0.80	0.97	1.07	61.0
3	R2	558	10.0	587	10.0	0.750	19.7	LOS B	7.2	54.9	0.86	1.08	1.29	58.4
Approach		933	10.0	982	10.0	0.750	16.1	LOS B	7.2	54.9	0.82	1.01	1.15	59.7
East: SH1 East														
4	L2	70	10.0	74	10.0	0.387	6.0	LOS A	2.2	16.7	0.42	0.49	0.42	64.7
5	T1	724	10.0	762	10.0	0.416	6.6	LOS A	2.5	19.1	0.42	0.53	0.42	66.6
6	R2	205	10.0	216	10.0	0.416	13.7	LOS B	2.5	19.1	0.41	0.56	0.41	65.5
Approach		999	10.0	1052	10.0	0.416	8.0	LOS A	2.5	19.1	0.42	0.53	0.42	66.3
North: Walkers Rd														
7	L2	132	10.0	139	10.0	0.246	14.7	LOS B	1.6	11.9	0.84	0.86	0.84	62.2
8	T1	84	10.0	88	10.0	0.246	10.6	LOS B	1.6	11.9	0.82	0.87	0.82	63.4
9	R2	24	10.0	25	10.0	0.138	18.9	LOS B	0.7	5.6	0.79	0.89	0.79	62.0
Approach		240	10.0	253	10.0	0.246	13.7	LOS B	1.6	11.9	0.83	0.87	0.83	62.6
West: SH1 West														
10	L2	81	10.0	85	10.0	0.551	15.0	LOS B	4.2	31.8	0.90	1.02	1.16	58.6
11	T1	556	10.0	585	10.0	0.593	15.4	LOS B	5.5	41.9	0.93	1.05	1.21	61.0
12	R2	83	10.0	87	10.0	0.593	21.2	LOS C	5.5	41.9	0.95	1.06	1.23	61.1
Approach		720	10.0	758	10.0	0.593	16.0	LOS B	5.5	41.9	0.93	1.05	1.20	60.8
All Vehicles		2892	10.0	3044	10.0	0.750	13.1	LOS B	7.2	54.9	0.71	0.84	0.88	62.3

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

Delay Model: SIDRA Standard (Geometric Delay is included).

Queue Model: SIDRA Standard.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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