

Interurban Road @ Grange Road

Thursday, October 17, 2019



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Major Route: Interurban Road
Minor Route: Grange Road
Municipality: Saanich
Filename: Interurban Rd @ Grange Rd-Oct 17, 2019.xlsx
Location #: TIN001326
Count ID: 2019044
Date: October 17, 2019
Day-of-week: Thursday

East/West Route: Grange Road
Intersection Type: 4-leg
Signalized?: No
Weather: Rain and wet

Vehicle Classifications: Vehicles and Peds
 Bikes

This data is for Vehicles and Peds

Shift	Start	End	Duration
AM	7:30	9:30	2.00
MD			
PM	15:30	18:30	3.00
Total	7:30	18:30	5.00

Notes: 24-hour clock used for reporting (15-minute increments)
 North Approach - southbound vehicles approaching intersection from the north
 15x4 - 15 min volume (from maximum 15 minute period of movement/approach in peak hour period [*]) x 4
 Pedestrians - N indicates pedestrians crossing north approach (east/west)

Comments:

Survey Data
Vehicles and Peds

Interurban Road @ Grange Road
Thursday, October 17, 2019

Time Period Begins	Interurban Rd NORTH Approach				Interurban Rd SOUTH Approach				Grange Rd WEST Approach				Grange Rd EAST Approach				Total Volume		Ped	Crosswalks			
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	15-min	Hour		N	S	W	E
7:30	0	113	0	113	0	111	1	112	2	0	1	3	2	0	1	3	231	*	7	0	7	0	
7:45	0	95	1	96	0	114	2	116	4	0	0	4	4	0	1	5	221	*	2	0	7	1	
8:00	0	66	0	66	2	92	0	94	1	0	0	1	1	0	1	2	163	*	2	0	6	1	
8:15	0	124	1	125	0	134	2	136	0	0	10	10	4	0	3	7	278	893+	1	0	7	1	
8:30	0	92	0	92	3	70	0	73	2	0	4	6	2	0	1	3	174	836	1	0	7	0	
8:45	0	127	0	127	0	64	2	66	4	0	3	7	1	0	3	4	204	819	0	0	2	0	
9:00	0	86	0	86	0	58	1	59	2	0	0	2	1	0	1	2	149	805	1	0	2	0	
9:15	1	92	1	94	1	57	0	58	2	0	2	4	0	0	0	0	156	683	3	0	1	3	
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n/a																							
Total	1	795	3	799	6	700	8	714	17	0	20	37	15	0	11	26	1576		17	0	39	6	

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Total																						

15:30	2	76	0	78	5	141	4	150	0	0	2	2	2	0	2	4	234			6	0	8	2
15:45	0	65	2	67	4	128	1	133	2	0	1	3	1	0	1	2	205			1	0	1	0
16:00	1	51	0	52	20	133	0	153	2	0	1	3	1	2	1	4	212			2	0	2	1
16:15	2	56	5	63	27	113	3	143	4	0	0	4	3	0	3	6	216	867		2	0	2	2
16:30	0	68	2	70	36	150	2	188	3	0	4	7	0	0	0	0	265	898		4	0	2	0
16:45	0	63	2	65	31	125	2	158	1	1	2	4	3	0	0	3	230	923		5	0	4	4
17:00	0	70	3	73	41	133	1	175	3	0	3	6	1	0	1	2	256	967	*	4	0	3	3
17:15	0	64	8	72	36	154	1	191	5	0	1	6	0	0	1	1	270	1021	*	5	0	4	5
17:30	1	87	5	93	32	150	1	183	0	0	2	2	0	0	0	0	278	1034	+	4	0	4	2
17:45	1	67	7	75	12	144	3	159	3	1	1	5	1	0	0	1	240	1044	*	1	0	1	1
18:00	0	66	6	72	7	83	0	90	1	1	1	3	3	0	1	4	169	957		3	0	1	0
18:15	2	64	2	68	4	84	2	90	3	0	6	9	1	1	1	3	170	857		0	0	1	0
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Total	9	797	42	848	255	1538	20	1813	27	3	24	54	16	3	11	30	2745			37	0	33	20

Time Period Begins	Interurban Rd				Interurban Rd				Grange Rd				Grange Rd				Total Volume		Sched	Crosswalks				Conflict	
	NORTH Approach				SOUTH Approach				WEST Approach				EAST Approach				15-min	Hour		N	S	W	E	15 min	Hr
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total									
7:30	0	113	0	113	0	111	1	112	2	0	1	3	2	0	1	3	231	*	7	0	7	0	116		
7:45	0	95	1	96	0	114	2	116	4	0	0	4	4	0	1	5	221	*	2	0	7	1	121		
8:00	0	66	0	66	2	92	0	94	1	0	0	1	1	0	1	2	163	*	2	0	6	1	94		
8:15	0	124	1	125	0	134	2	136	0	0	10	10	4	0	3	7	278	893+	1	0	7	1	150	481	
8:30	0	92	0	92	3	70	0	73	2	0	4	6	2	0	1	3	174	836		1	0	7	0	101	466
8:45	0	127	0	127	0	64	2	66	4	0	3	7	1	0	3	4	204	819		0	0	2	0	134	479
9:00	0	86	0	86	0	58	1	59	2	0	0	2	1	0	1	2	149	805		1	0	2	0	89	474
9:15	1	92	1	94	1	57	0	58	2	0	2	4	0	0	0	0	156	683		3	0	1	3	96	420
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Total	1	795	3	799	6	700	8	714	17	0	20	37	15	0	11	26	1576			17	0	39	6	839
Avg Hr	1	398	2	400	3	350	4	357	9	0	10	19	8	0	6	13	788			9	0	20	3	

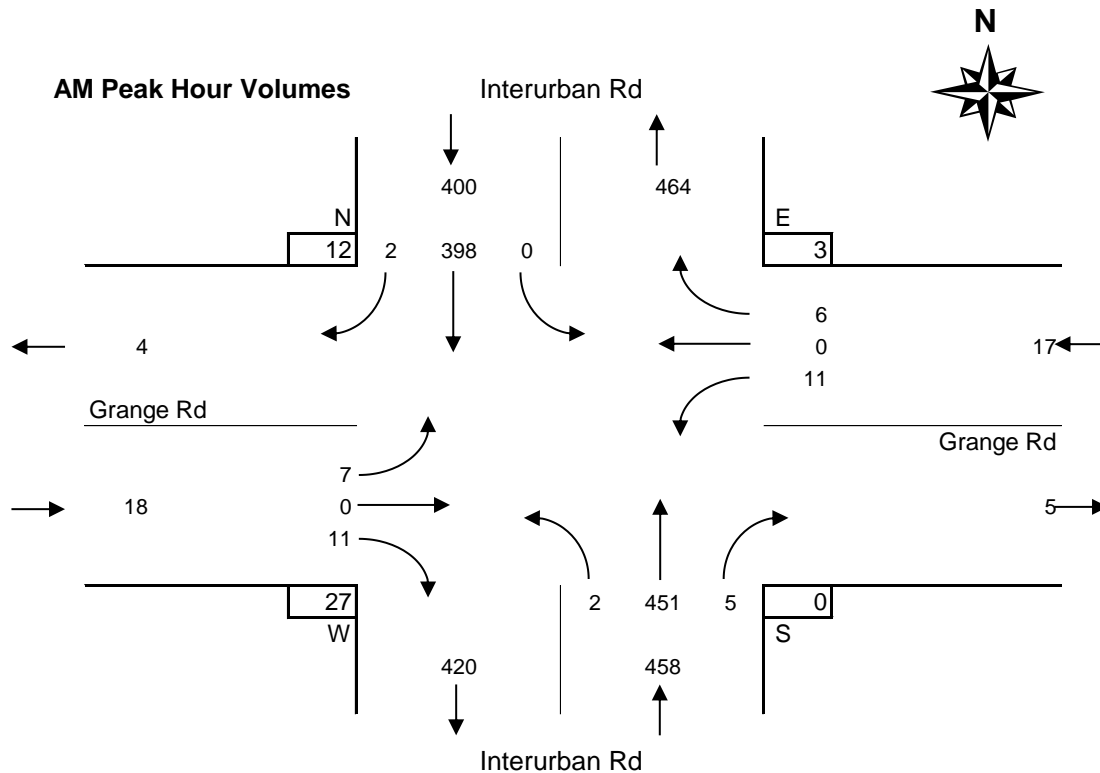
Peak hour of the intersection

Pk Hr	0	398	2	400	2	451	5	458	7	0	11	18	11	0	6	17	893	*		12	0	27	3	478
15x4	0	496	4	500	8	536	8	544	16	0	40	40	16	0	12	28	1112	+		28	0	28	4	600
PHF	n/a	0.80	0.50	0.80	0.25	0.84	0.63	0.84	0.44	n/a	0.28	0.45	0.69	n/a	0.50	0.61	0.80			0.43	n/a	0.96	0.75	0.80

Peak hour of conflicting volumes for the intersection

Pk Hr	0	398	2	400	2	451	5	458	7	0	11	18	11	0	6	17	893	*		12	0	27	3	478
15x4	0	496	4	500	8	536	8	544	16	0	40	40	16	0	12	28	1112	+		28	0	28	4	600
PHF	n/a	0.80	0.50	0.80	0.25	0.84	0.63	0.84	0.44	n/a	0.28	0.45	0.69	n/a	0.50	0.61	0.80			0.43	n/a	0.96	0.75	0.80

** Calculated peak hour occurs during the first or last hour of shift and therefore may be invalid. **



Time Period Begins	Interurban Rd				Interurban Rd				Grange Rd				Grange Rd				Total Volume		Ped	Crosswalks				Conflict	
	NORTH Approach				SOUTH Approach				WEST Approach				EAST Approach				15-min	Hour		N	S	W	E	15 min	Hr
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	15-min	Hour							
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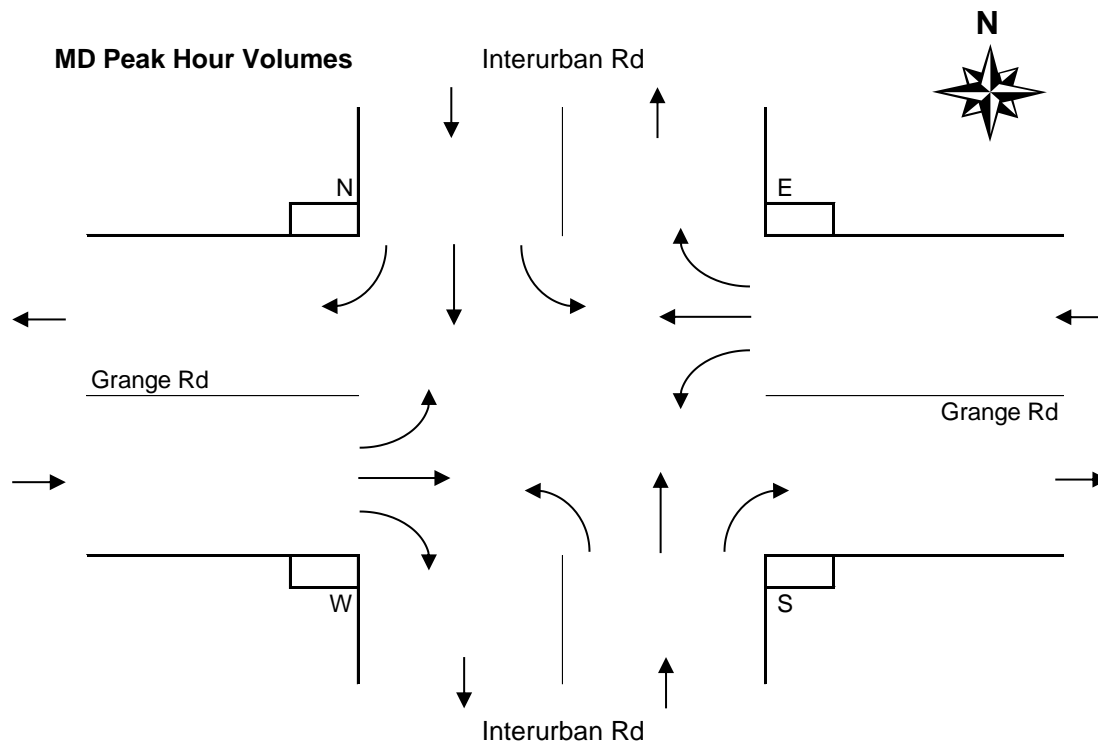
Total																									
Avg Hr																									

Peak hour of the intersection

Pk Hr																									
15x4																									
PHF																									

Peak hour of conflicting volumes for the intersection

Pk Hr																									
15x4																									
PHF																									



Time Period Begins	Interurban Rd NORTH Approach				Interurban Rd SOUTH Approach				Grange Rd WEST Approach				Grange Rd EAST Approach				Total Volume		Ped %	Crosswalks				Conflict	
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	15-min	Hour		N	S	W	E	15 min	Hr
15:30	2	76	0	78	5	141	4	150	0	0	2	2	2	0	2	4	234		6	0	8	2	151		
15:45	0	65	2	67	4	128	1	133	2	0	1	3	1	0	1	2	205		1	0	1	0	132		
16:00	1	51	0	52	20	133	0	153	2	0	1	3	1	2	1	4	212		2	0	2	1	139		
16:15	2	56	5	63	27	113	3	143	4	0	0	4	3	0	3	6	216	867	2	0	2	2	125	547	
16:30	0	68	2	70	36	150	2	188	3	0	4	7	0	0	0	0	265	898	4	0	2	0	156	552	
16:45	0	63	2	65	31	125	2	158	1	1	2	4	3	0	0	3	230	923	5	0	4	4	133	553	
17:00	0	70	3	73	41	133	1	175	3	0	3	6	1	0	1	2	256	967	4	0	3	3	138	552	
17:15	0	64	8	72	36	154	1	191	5	0	1	6	0	0	1	1	270	1021	5	0	4	5	161	588	
17:30	1	87	5	93	32	150	1	183	0	0	2	2	0	0	0	0	278	1034	4	0	4	2	154	586	
17:45	1	67	7	75	12	144	3	159	3	1	1	5	1	0	0	1	240	1044	1	0	1	1	151	604	
18:00	0	66	6	72	7	83	0	90	1	1	1	3	3	0	1	4	169	957	3	0	1	0	88	554	
18:15	2	64	2	68	4	84	2	90	3	0	6	9	1	1	1	3	170	857	0	0	1	0	95	488	
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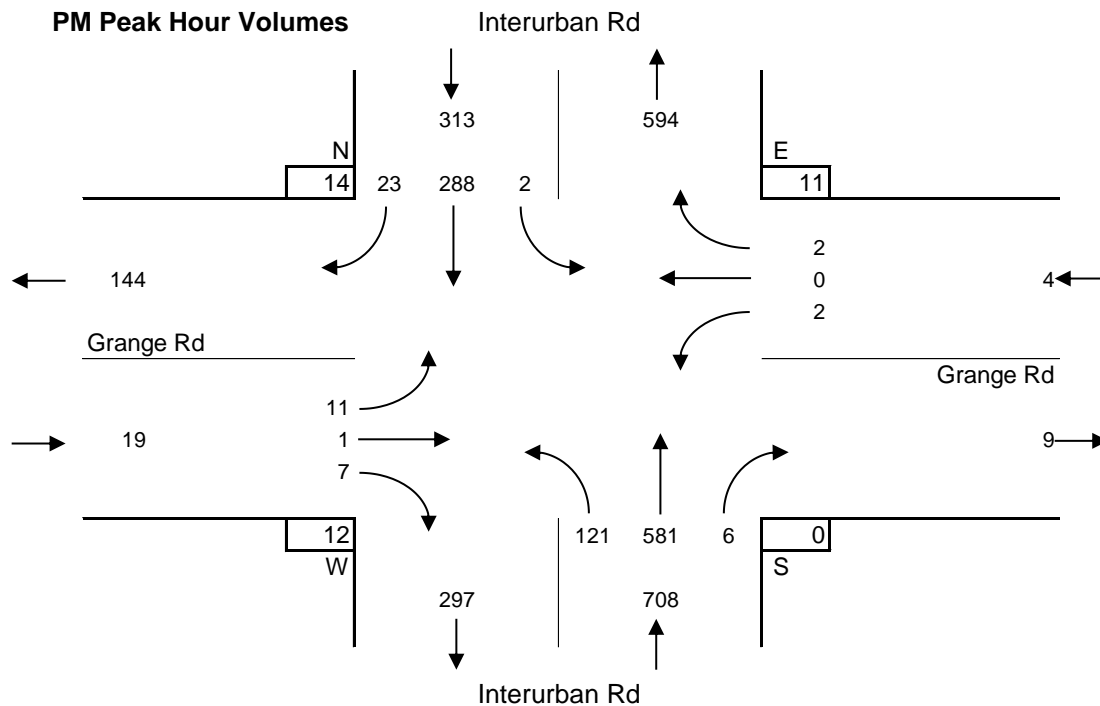
Total	9	797	42	848	255	1538	20	1813	27	3	24	54	16	3	11	30	2745		37	0	33	20		1610
Avg Hr	3	266	14	283	85	513	7	604	9	1	8	18	5	1	4	10	915		12	0	11	7		

Peak hour of the intersection

Pk Hr	2	288	23	313	121	581	6	708	11	1	7	19	2	0	2	4	1044	*	14	0	12	11		602
15x4	4	348	32	372	164	616	12	764	20	4	12	24	4	0	4	8	1112	+	20	0	16	20		656
PHF	0.50	0.83	0.72	0.84	0.74	0.94	0.50	0.93	0.55	0.25	0.58	0.79	0.50	n/a	0.50	0.50	0.94		0.70	n/a	0.75	0.55		0.92

Peak hour of conflicting volumes for the intersection

Pk Hr	2	288	23	313	121	581	6	708	11	1	7	19	2	0	2	4	1044	*	14	0	12	11		602
15x4	4	348	32	372	164	616	12	764	20	4	12	24	4	0	4	8	1112	+	20	0	16	20		656
PHF	0.50	0.83	0.72	0.84	0.74	0.94	0.50	0.93	0.55	0.25	0.58	0.79	0.50	n/a	0.50	0.50	0.94		0.70	n/a	0.75	0.55		0.92



Entire Survey Period

5 Hours

	Interurban Rd				Interurban Rd				Grange Rd				Grange Rd				Total Volume	Crosswalks			
	NORTH Approach				SOUTH Approach				WEST Approach				EAST Approach					N	S	W	E
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total					
Total	10	1592	45	1647	261	2238	28	2527	44	3	44	91	31	3	22	56	4321	54	0	72	26
Avg Hr	2	318	9	329	52	448	6	505	9	1	9	18	6	1	4	11	864	11	0	14	5

AM Peak Period

2 Hours

	Interurban Rd				Interurban Rd				Grange Rd				Grange Rd				Total Volume	Crosswalks			
	NORTH Approach				SOUTH Approach				WEST Approach				EAST Approach					N	S	W	E
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total					
Totals	1	795	3	799	6	700	8	714	17	0	20	37	15	0	11	26	1576	17	0	39	6
Avg Hr	1	398	2	400	3	350	4	357	9	0	10	19	8	0	6	13	788	9	0	20	3

MD Peak Period

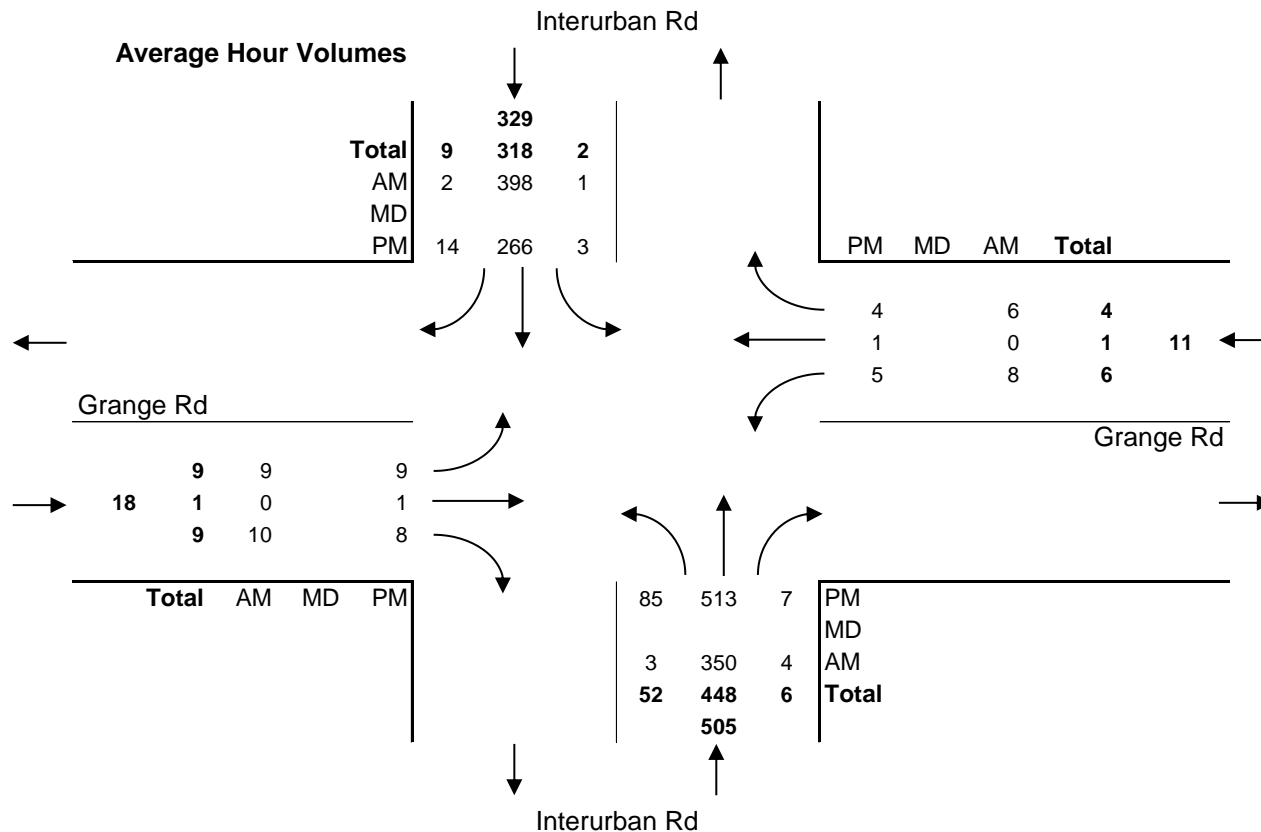
Hours

	Interurban Rd				Interurban Rd				Grange Rd				Grange Rd				Total Volume	Crosswalks			
	NORTH Approach				SOUTH Approach				WEST Approach				EAST Approach					N	S	W	E
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total					
Total																					
Avg Hr																					

PM Peak Period

3 Hours

	Interurban Rd				Interurban Rd				Grange Rd				Grange Rd				Total Volume	Crosswalks			
	NORTH Approach				SOUTH Approach				WEST Approach				EAST Approach					N	S	W	E
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total					
Total	9	797	42	848	255	1538	20	1813	27	3	24	54	16	3	11	30	2745	37	0	33	20
Avg Hr	3	266	14	283	85	513	7	604	9	1	8	18	5	1	4	10	915	12	0	11	7



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Minor Route: Grange Road
Municipality: Saanich
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Day-of-week: Thursday

East/West Route: Grange Road
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Signalized?: No
Weather: Rain and wet

Vehicle Classifications: Vehicles and Peds
 Bikes

This data is for Bikes

Shift	Start	End	Duration
AM	7:30	9:30	2.00
MD			
PM	15:30	18:30	3.00
Total	7:30	18:30	5.00

Notes: 24-hour clock used for reporting (15-minute increments)
 North Approach - southbound vehicles approaching intersection from the north
 15x4 - 15 min volume (from maximum 15 minute period of movement/approach in peak hour period [*]) x 4
 Pedestrians - N indicates pedestrians crossing north approach (east/west)

Comments:

Survey Data
Bikes

Interurban Road @ Grange Road
Thursday, October 17, 2019

Time Period Begins	Interurban Rd				Interurban Rd				Grange Rd				Grange Rd				Total Volume		Day				
	NORTH Approach				SOUTH Approach				WEST Approach				EAST Approach				15-min	Hour		N	S	W	E
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total							
7:30	0	6	0	6	0	3	0	3	2	0	0	2	0	0	0	0	11		*	0	0	0	0
7:45	0	5	1	6	0	5	0	5	0	0	0	0	0	0	0	0	11		*	0	0	0	0
8:00	0	1	0	1	0	12	0	12	0	0	1	1	1	0	0	1	15		+	0	0	0	0
8:15	0	6	0	6	0	5	0	5	1	0	0	1	0	0	0	0	12	49	*	0	0	0	0
8:30	0	2	0	2	0	6	0	6	0	0	0	0	0	0	0	0	8	46		0	0	0	0
8:45	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	37		0	0	0	0
9:00	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3	25		0	0	0	0
9:15	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	14		0	0	0	0
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Total	0	26	1	27	0	31	0	31	3	0	1	4	1	0	0	1	63			0	0	0	0

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n/a																							
Total	0	35	4	39	2	39	1	42	3	0	1	4	0	0	0	0	85			0	0	0	0

Time Period Begins	Interurban Rd				Interurban Rd				Grange Rd				Grange Rd				Total Volume		Ped	Conflict				
	NORTH Approach				SOUTH Approach				WEST Approach				EAST Approach				15-min	Hour		N	S	W	E	15 min
7:30	0	6	0	6	0	3	0	3	2	0	0	2	0	0	0	0	11	*	0	0	0	0	8	
7:45	0	5	1	6	0	5	0	5	0	0	0	0	0	0	0	0	11	*	0	0	0	0	6	
8:00	0	1	0	1	0	12	0	12	0	0	1	1	1	0	0	1	15	+	0	0	0	0	14	
8:15	0	6	0	6	0	5	0	5	1	0	0	1	0	0	0	0	12	49*	0	0	0	0	7	35
8:30	0	2	0	2	0	6	0	6	0	0	0	0	0	0	0	0	8	46	0	0	0	0	6	33
8:45	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	37	0	0	0	0	2	29
9:00	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3	25	0	0	0	0	3	18
9:15	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	14	0	0	0	0	1	12
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Total	0	26	1	27	0	31	0	31	3	0	1	4	1	0	0	1	63							
Avg Hr	0	13	1	14	0	16	0	16	2	0	1	2	1	0	0	1	32							

	0	0	0	0		34
	0	0	0	0		

Peak hour of the intersection

Pk Hr	0	18	1	19	0	25	0	25	3	0	1	4	1	0	0	1	49*							
15x4	0	24	4	24	0	48	0	48	8	0	4	8	4	0	0	4	60*							
PHF	n/a	0.75	0.25	0.79	n/a	0.52	n/a	0.52	0.38	n/a	0.25	0.50	0.25	n/a	n/a	0.25	0.82							

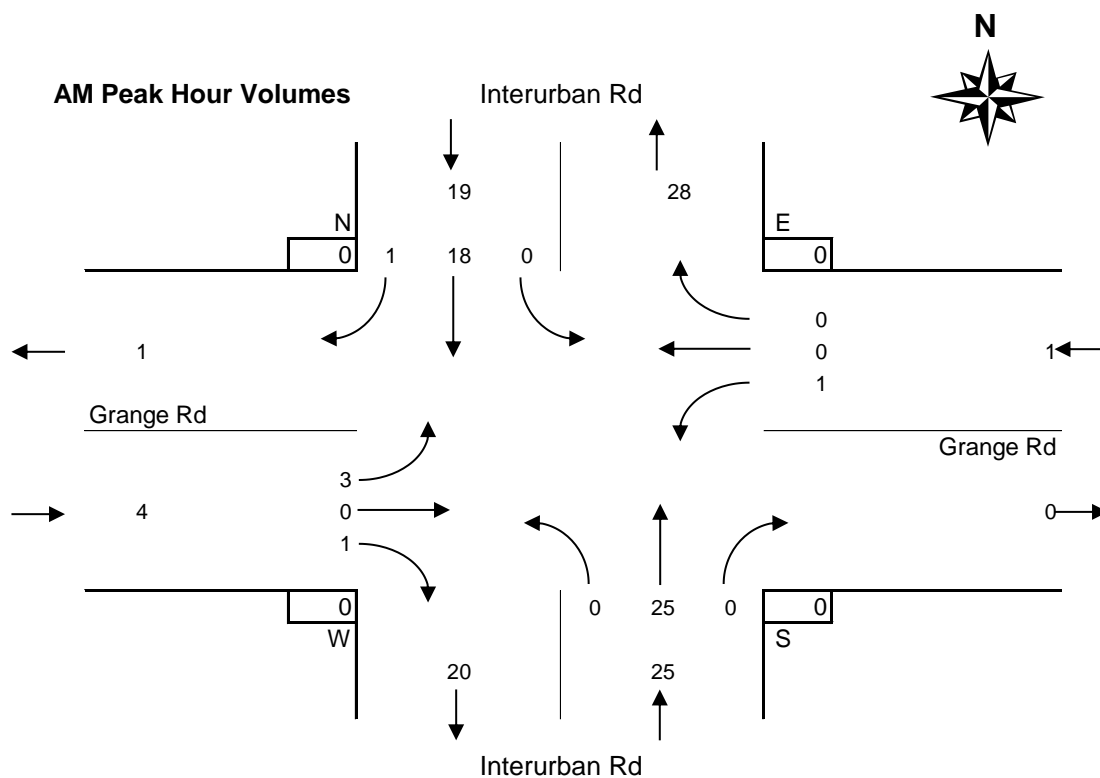
	0	0	0	0		28
	0	0	0	0		56
	n/a	n/a	n/a	n/a		0.50

Peak hour of conflicting volumes for the intersection

Pk Hr	0	18	1	19	0	25	0	25	3	0	1	4	1	0	0	1	49*							
15x4	0	24	4	24	0	48	0	48	8	0	4	8	4	0	0	4	60*							
PHF	n/a	0.75	0.25	0.79	n/a	0.52	n/a	0.52	0.38	n/a	0.25	0.50	0.25	n/a	n/a	0.25	0.82							

	0	0	0	0		28
	0	0	0	0		56
	n/a	n/a	n/a	n/a		0.50

** Calculated peak hour occurs during the first or last hour of shift and therefore may be invalid. **



MD Peak Period
Bikes

Interurban Road @ Grange Road
Thursday, October 17, 2019

Time Period Begins	Interurban Rd				Interurban Rd				Grange Rd				Grange Rd				Total Volume		Speed	Conflict								
	NORTH Approach				SOUTH Approach				WEST Approach				EAST Approach				15-min	Hour		N	S	W	E	15 min	Hr			
n/a																												
n/a																												
n/a																												
n/a																												
n/a																												
n/a																												
n/a																												
n/a																												
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n/a																												
n/a																												
n/a																												
n/a																												

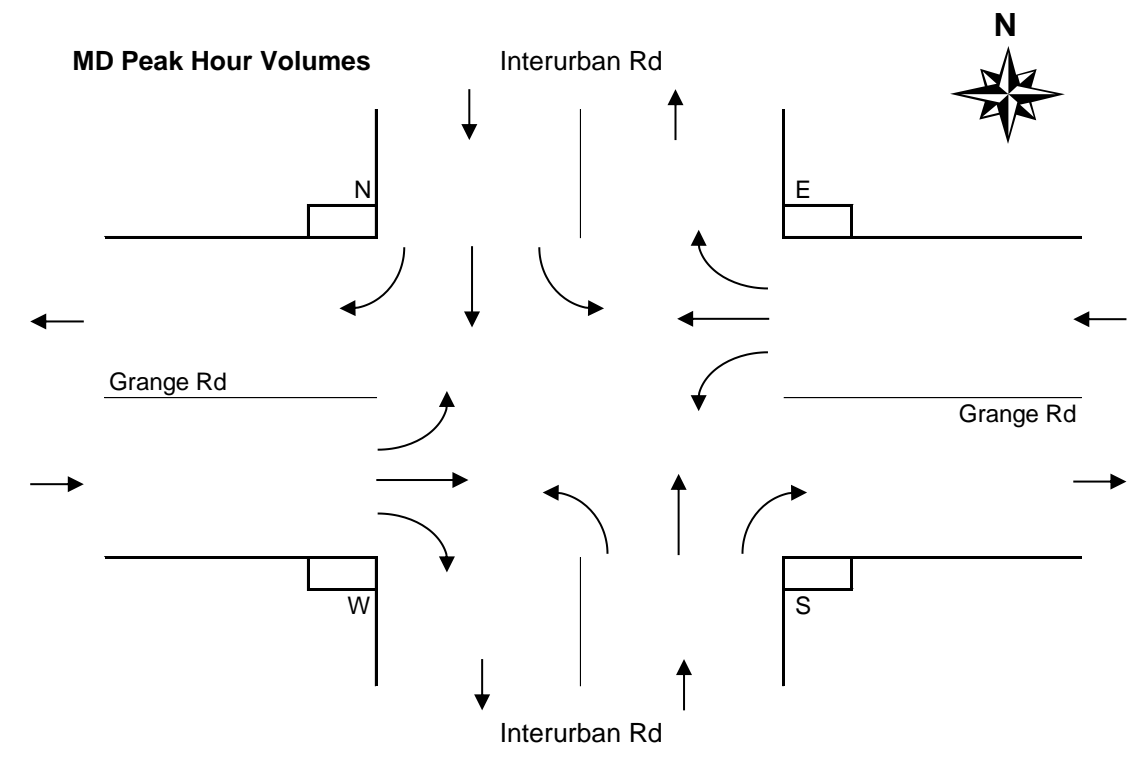
Total																												
Avg Hr																												

Peak hour of the intersection

Pk Hr																											
15x4																											
PHF																											

Peak hour of conflicting volumes for the intersection

Pk Hr																										
15x4																										
PHF																										



Time Period Begins	Interurban Rd NORTH Approach				Interurban Rd SOUTH Approach				Grange Rd WEST Approach				Grange Rd EAST Approach				Total Volume		Yield	Conflict				
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	15-min	Hour		N	S	W	E	15 min
15:30	0	5	0	5	0	1	0	1	0	0	0	0	0	0	0	0	6		0	0	0	0	5	
15:45	0	5	1	6	0	0	0	0	0	0	0	0	0	0	0	0	6		0	0	0	0	6	
16:00	0	4	0	4	0	2	0	2	0	0	0	0	0	0	0	0	6		0	0	0	0	4	
16:15	0	1	1	2	0	6	0	6	0	0	1	1	0	0	0	0	9	27*	0	0	0	0	7	22
16:30	0	4	1	5	0	2	0	2	2	0	0	2	0	0	0	0	9	30*	0	0	0	0	7	24
16:45	0	4	1	5	0	6	0	6	1	0	0	1	0	0	0	0	12	36+	0	0	0	0	7	25
17:00	0	3	0	3	0	8	0	8	0	0	0	0	0	0	0	0	11	41*	0	0	0	0	8	29
17:15	0	3	0	3	2	3	0	5	0	0	0	0	0	0	0	0	8	40	0	0	0	0	5	27
17:30	0	3	0	3	0	5	0	5	0	0	0	0	0	0	0	0	8	39	0	0	0	0	5	25
17:45	0	2	0	2	0	4	1	5	0	0	0	0	0	0	0	0	7	34	0	0	0	0	5	23
18:00	0	1	0	1	0	2	0	2	0	0	0	0	0	0	0	0	3	26	0	0	0	0	2	17
18:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	12
n/a																								
n/a																								
n/a																								
n/a																								
n/a																								
n/a																								
n/a																								
n/a																								
n/a																								

Total	0	35	4	39	2	39	1	42	3	0	1	4	0	0	0	0	85							
Avg Hr	0	12	1	13	1	13	0	14	1	0	0	1	0	0	0	0	28							

0	0	0	0		44
0	0	0	0		

Peak hour of the intersection

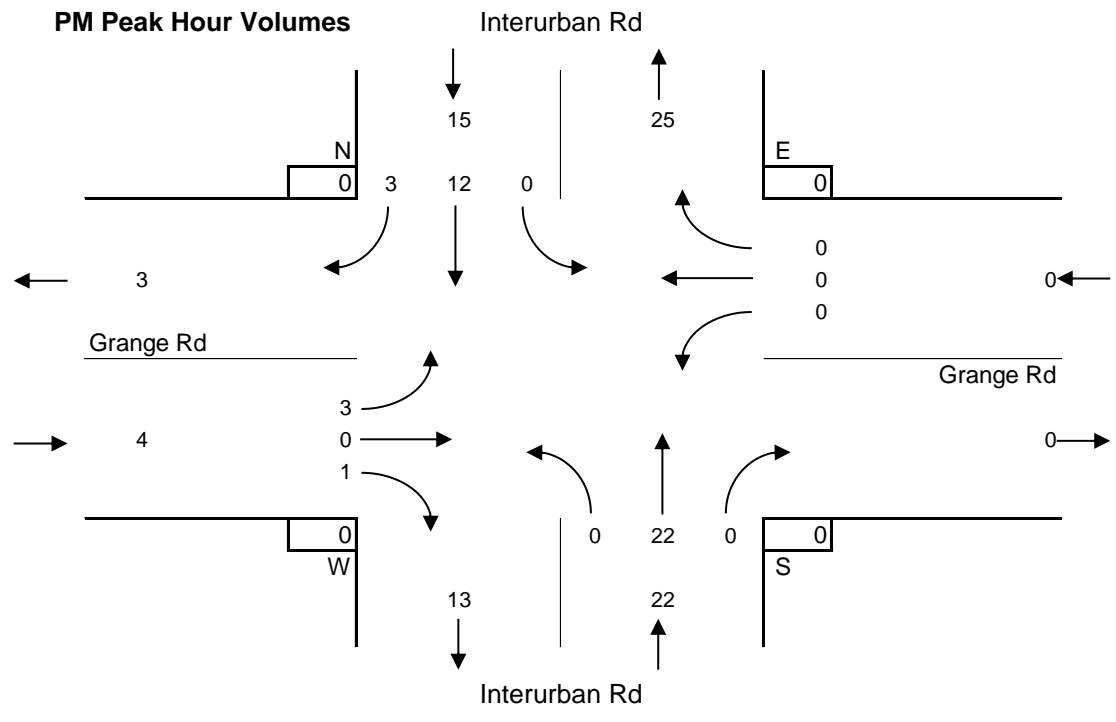
Pk Hr	0	12	3	15	0	22	0	22	3	0	1	4	0	0	0	0	41*							
15x4	0	16	4	20	0	32	0	32	8	0	4	8	0	0	0	0	48+							
PHF	n/a	0.75	0.75	0.75	n/a	0.69	n/a	0.69	0.38	n/a	0.25	0.50	n/a	n/a	n/a	n/a	0.85							

0	0	0	0		25
0	0	0	0		40
n/a	n/a	n/a	n/a		0.63

Peak hour of conflicting volumes for the intersection

Pk Hr	0	12	3	15	0	22	0	22	3	0	1	4	0	0	0	0	41*							
15x4	0	16	4	20	0	32	0	32	8	0	4	8	0	0	0	0	48+							
PHF	n/a	0.75	0.75	0.75	n/a	0.69	n/a	0.69	0.38	n/a	0.25	0.50	n/a	n/a	n/a	n/a	0.85							

0	0	0	0		25
0	0	0	0		40
n/a	n/a	n/a	n/a		0.63



Entire Survey Period

5 Hours

	Interurban Rd				Interurban Rd				Grange Rd				Grange Rd				Total Volume				
	NORTH Approach				SOUTH Approach				WEST Approach				EAST Approach					N	S	W	E
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total					
Total	0	61	5	66	2	70	1	73	6	0	2	8	1	0	0	1	148	0	0	0	0
Avg Hr	0	12	1	13	0	14	0	15	1	0	0	2	0	0	0	0	30	0	0	0	0

AM Peak Period

2 Hours

	Interurban Rd				Interurban Rd				Grange Rd				Grange Rd				Total Volume				
	NORTH Approach				SOUTH Approach				WEST Approach				EAST Approach					N	S	W	E
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total					
Totals	0	26	1	27	0	31	0	31	3	0	1	4	1	0	0	1	63	0	0	0	0
Avg Hr	0	13	1	14	0	16	0	16	2	0	1	2	1	0	0	1	32	0	0	0	0

MD Peak Period

Hours

	Interurban Rd				Interurban Rd				Grange Rd				Grange Rd				Total Volume				
	NORTH Approach				SOUTH Approach				WEST Approach				EAST Approach					N	S	W	E
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total					
Total																					
Avg Hr																					

PM Peak Period

3 Hours

	Interurban Rd				Interurban Rd				Grange Rd				Grange Rd				Total Volume				
	NORTH Approach				SOUTH Approach				WEST Approach				EAST Approach					N	S	W	E
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total					
Totals	0	35	4	39	2	39	1	42	3	0	1	4	0	0	0	0	85	0	0	0	0
Avg Hr	0	12	1	13	1	13	0	14	1	0	0	1	0	0	0	0	28	0	0	0	0

