

Roadway Survey Field Sheet

TS Project # _____ Map _____ Grid _____ Start Time _____ # Of Days _____

Location: FOURTH PLAIN + ANDRESEN
 Location ID: _____ City: VANCOUVER

Type of Survey:
 Volume
 Speed
 Classification

Start Date: 9/23/03 Counters: 7
 End Date: 9/25/03 Tubes: 8

S M T W T F S
 S M T W T F S

SITE EVALUATION			POSTED SPEED		DWEILL TIME																																				
Vehicles Crossing Tube Perpendicular	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	???	<input type="checkbox"/> None	<input type="checkbox"/> 40 Mph	<table border="1"> <thead> <tr> <th>LOWEST SPEED</th> <th colspan="5">HIGHEST SPEED</th> </tr> <tr> <th>MPH</th> <th>10-20</th> <th>15-30</th> <th>25-40</th> <th>35-45</th> <th>> 45</th> </tr> </thead> <tbody> <tr> <td>Standing Queue</td> <td>200</td> <td>130</td> <td>100</td> <td>80</td> <td>40</td> </tr> <tr> <td>5 - 10 MPH</td> <td>130</td> <td>90</td> <td>70</td> <td>60</td> <td>40</td> </tr> <tr> <td>> 10 MPH</td> <td>100</td> <td>80</td> <td>60</td> <td>40</td> <td>40</td> </tr> </tbody> </table>						LOWEST SPEED	HIGHEST SPEED					MPH	10-20	15-30	25-40	35-45	> 45	Standing Queue	200	130	100	80	40	5 - 10 MPH	130	90	70	60	40	> 10 MPH	100	80	60	40	40
LOWEST SPEED	HIGHEST SPEED																																								
MPH	10-20	15-30	25-40	35-45	> 45																																				
Standing Queue	200	130	100	80	40																																				
5 - 10 MPH	130	90	70	60	40																																				
> 10 MPH	100	80	60	40	40																																				
Do You Anticipate Queuing Across Tube	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 25 Mph	<input type="checkbox"/> 45 Mph	(TAD, TBD)																																			
Speed Greater Than 20 Miles / Hour	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 30 Mph	<input type="checkbox"/> 50 Mph	A																																			
Tube Crosses More Than 2 Lanes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> 35 Mph	<input type="checkbox"/> 55 Mph	B																																			
SPEED: High _____ Mph Low _____ Mph			<input type="checkbox"/> Other: _____			M																																			
						D																																			

Use 2 Counters if Traffic Conditions are different in each direction.

AXLE STRIKE COUNT	SYSTEM DELAY LOGIC	SPEED LOW VOL	VEHICLE SPEED / CLASSIFICATION	
G M D A B	D	G M B	M B	G L
<input type="checkbox"/> Tube equal length		<input type="checkbox"/> Use proper spacing	<input type="checkbox"/> One Lane only except Low Volume Speed Surveys ADT 2,000	

COUNTER/SET DOWN

Type: M.C. AMAX
 No.: 7160 7984
 Box: X3817 A638
 Tube Length: 40
 Hammer Test

DIRECTION: East Bound West Bound North Bound South Bound Approach
 COMBINED: East / West North / South DRWY: Combined In-Bound Out-Bound
 ROAD: Dry Wet Asphalt Concrete Broken Rutted Curved

ROAD: AG (35 MPH) FOURTH PLAIN
ANDRESEN (35 MPH)

Remarks: WEATHER: Sunny Overcast Rain Snow

TRAFFIC SMITHY, Inc.
 1225 NW Murray Blvd, Suite 111
 Portland, OR 97229
 Phone: 503/641-6333 - Fax: 503/643-8866

TRAFFIC SMITHY, INC
 1225 NW MURRAY BLVD SUITE 111
 PORTLAND, OR 97229
 Phone: 503-641-6333 Fax: 503-643-8866

Roadway: ANDRESEN
 Location: NORTH OF FOURTH PLAIN

Date: 09/24/03
 Day of Week: Wednesday

SB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	10	14	6	13	10	5	7	9	8	5	6	5	98
01:00	6	10	5	8	7	1	3	5	9	4	2	10	70
02:00	1	5	1	7	0	1	4	4	3	7	1	1	35
03:00	4	2	0	4	3	3	8	4	4	9	8	9	58
04:00	4	3	3	3	8	5	5	6	11	6	17	10	81
05:00	15	11	15	14	15	12	19	16	23	32	28	31	231
06:00	26	26	38	32	28	44	33	49	79	78	64	71	568
07:00	69	67	89	106	112	100	72	116	117	106	146	104	1204
08:00	106	92	88	100	96	93	108	71	82	114	109	96	1155
09:00	83	81	65	73	76	86	73	76	78	79	87	77	934
10:00	73	83	82	79	84	80	90	96	74	98	91	74	1004
11:00	81	113	84	89	111	96	99	118	106	130	108	100	1235
12:00	108	92	123	103	91	112	91	94	124	104	106	124	1272
13:00	103	79	110	84	112	99	91	86	96	123	103	104	1190
14:00	112	75	97	110	78	93	84	96	104	105	82	91	1127
15:00	101	114	106	103	114	119	95	91	103	105	130	100	1281
16:00	91	117	107	93	122	97	96	94	93	91	92	111	1204
17:00	109	96	105	110	109	100	90	103	117	92	102	104	1237
18:00	90	87	82	87	89	77	95	85	98	110	92	78	1070
19:00	83	98	76	58	81	57	64	54	50	55	65	51	792
20:00	44	46	58	49	45	53	39	37	45	37	46	38	537
21:00	41	53	60	40	47	32	38	29	32	30	23	30	455
22:00	16	18	30	24	22	23	18	19	17	13	24	17	241
23:00	20	26	15	13	12	13	16	10	12	6	11	14	168

Daily Total: 17247

AM Peak Hour: 1272 (07:35 - 08:35)

7.37% Of Daily Total

PM Peak Hour: 1281 (15:00 - 16:00)

7.42% Of Daily Total

4th Highest Hour: 1235 (11:00 - 12:00)

7.16% Of Daily Total

8th Highest Hour: 1155 (08:00 - 09:00)

6.69% Of Daily Total

TRAFFIC SMITHY, INC
 1225 NW MURRAY BLVD SUITE 111
 PORTLAND, OR 97229
 Phone: 503-641-6333 Fax: 503-643-8866

Roadway: ANDRESEN
 Location: NORTH OF FOURTH PLAIN

Date: 09/24/03
 Day of Week: Wednesday

NB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	7	8	6	8	12	9	9	11	19	7	10	2	108
01:00	4	10	7	8	7	6	6	2	5	5	10	3	73
02:00	8	3	4	5	7	8	2	3	5	6	7	4	62
03:00	4	3	1	2	4	1	5	10	4	4	1	5	44
04:00	4	1	3	5	4	5	6	6	7	9	7	12	69
05:00	11	14	12	17	18	16	24	25	17	23	16	19	212
06:00	27	28	35	36	17	36	35	44	38	41	44	47	428
07:00	45	38	48	47	66	65	68	74	59	63	83	64	720
08:00	71	89	57	84	62	62	73	58	83	60	77	65	841
09:00	62	81	70	68	71	58	53	89	72	83	91	75	873
10:00	78	68	67	79	70	85	92	78	80	81	107	98	983
11:00	98	87	104	90	97	104	100	106	109	117	96	104	1212
12:00	125	89	115	99	102	112	110	99	127	101	114	100	1293
13:00	114	124	114	101	119	95	127	117	120	110	97	87	1325
14:00	90	123	113	139	112	149	121	125	123	125	119	106	1445
15:00	109	127	125	104	124	123	115	130	112	114	110	145	1438
16:00	107	152	127	149	124	140	117	145	152	134	134	121	1602
17:00	122	152	140	165	130	133	107	145	100	136	121	105	1556
18:00	116	121	114	118	92	85	100	73	81	98	78	78	1154
19:00	77	92	93	69	71	85	71	76	80	57	84	60	915
20:00	78	78	80	88	74	58	69	75	54	61	66	54	835
21:00	66	49	52	45	47	55	41	50	43	36	41	42	567
22:00	43	50	33	26	32	31	26	25	21	19	16	16	338
23:00	23	26	21	18	14	16	12	32	12	21	8	14	217

Daily Total: 18310

AM Peak Hour: 1217 (10:50 - 11:50)

6.64% Of Daily Total

PM Peak Hour: 1652 (16:25 - 17:25)

9.02% Of Daily Total

4th Highest Hour: 1438 (15:00 - 16:00)

7.85% Of Daily Total

8th Highest Hour: 1154 (18:00 - 19:00)

6.30% Of Daily Total

TRAFFIC SMITHY, INC
 1225 NW MURRAY BLVD SUITE 111
 PORTLAND, OR 97229
 Phone: 503-641-6333 Fax: 503-643-8866

Roadway: ANDRESEN
 Location: SOUTH OF FOURTH PLAIN

Date: 09/24/03
 Day of Week: Wednesday

SB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	6	7	8	4	9	7	5	15	6	3	5	4	79
01:00	2	5	5	5	4	8	1	5	1	7	1	5	49
02:00	5	2	5	2	4	0	2	2	4	2	4	2	34
03:00	1	3	0	3	1	2	5	2	1	4	5	6	33
04:00	2	2	2	6	4	3	5	5	3	6	8	15	61
05:00	4	9	13	6	12	14	11	8	17	19	26	18	157
06:00	26	15	26	21	23	27	28	24	48	67	54	43	402
07:00	42	42	60	82	73	76	63	71	95	81	101	72	858
08:00	74	73	69	69	69	74	62	60	64	76	79	62	831
09:00	55	67	56	61	57	68	71	51	52	74	55	61	728
10:00	71	66	72	63	60	60	72	66	69	62	80	59	800
11:00	63	78	94	79	70	97	84	75	90	97	92	71	990
12:00	74	85	94	87	82	72	72	84	94	87	70	80	981
13:00	92	72	73	82	71	91	68	69	55	95	89	76	933
14:00	70	92	50	92	67	72	64	83	69	87	75	89	910
15:00	63	61	87	80	82	87	72	77	78	82	96	83	948
16:00	72	68	104	70	82	85	90	66	86	75	88	84	970
17:00	99	72	88	79	87	69	89	72	83	76	93	72	979
18:00	62	82	77	63	63	78	63	70	80	80	81	83	882
19:00	68	62	63	54	44	46	51	48	45	55	50	56	642
20:00	36	39	43	41	43	41	33	36	41	30	43	30	456
21:00	34	42	46	35	35	32	21	26	29	28	16	32	376
22:00	18	24	27	17	14	13	14	16	10	4	11	15	183
23:00	6	20	17	10	6	16	8	6	12	10	6	8	125

Daily Total: 13407

AM Peak Hour: 990 (11:00 - 12:00)

7.38% Of Daily Total

PM Peak Hour: 1001 (16:10 - 17:10)

7.46% Of Daily Total

4th Highest Hour: 970 (16:00 - 17:00)

7.23% Of Daily Total

8th Highest Hour: 882 (18:00 - 19:00)

6.57% Of Daily Total

TRAFFIC SMITHY, INC
 1225 NW MURRAY BLVD SUITE 111
 PORTLAND, OR 97229
 Phone: 503-641-6333 Fax: 503-643-8866

Roadway: ANDRESEN
 Location: SOUTH OF FOURTH PLAIN

Date: 09/24/03
 Day of Week: Wednesday

NB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	3	7	11	7	6	7	5	4	16	5	8	1	80
01:00	3	10	3	2	5	5	3	2	4	2	6	5	50
02:00	3	3	2	1	5	6	2	2	3	2	4	3	36
03:00	2	3	0	2	1	1	5	7	3	2	2	7	35
04:00	7	2	1	7	1	4	1	2	3	6	5	11	50
05:00	8	8	9	10	10	11	13	14	20	21	14	17	155
06:00	25	19	28	33	15	25	22	32	34	35	56	38	362
07:00	35	27	37	42	50	48	59	48	41	52	67	51	557
08:00	63	75	44	69	43	50	54	52	69	63	57	53	692
09:00	59	66	53	56	60	50	41	69	48	59	67	69	697
10:00	62	52	60	66	62	60	80	66	67	71	86	66	798
11:00	65	72	72	68	76	70	70	77	77	79	75	90	891
12:00	86	98	91	95	75	87	95	94	96	97	95	81	1090
13:00	91	88	72	75	76	82	84	77	83	73	62	70	933
14:00	63	82	93	100	84	84	71	84	86	81	66	82	976
15:00	88	88	79	82	80	90	85	78	79	65	87	74	975
16:00	78	86	89	87	88	83	97	79	110	82	81	82	1042
17:00	95	99	91	85	110	84	96	73	84	93	93	100	1103
18:00	74	83	79	88	62	55	80	65	76	62	74	58	856
19:00	62	64	65	46	50	64	54	66	60	44	50	35	660
20:00	48	53	53	71	60	55	53	48	39	35	49	31	595
21:00	48	32	32	36	35	44	32	33	37	23	31	18	401
22:00	30	41	27	24	18	26	14	21	13	9	10	16	249
23:00	16	19	18	10	13	15	10	21	13	14	11	9	169

Daily Total: 13452

AM Peak Hour: 891 (11:00 - 12:00)

6.62% Of Daily Total

PM Peak Hour: 1103 (17:00 - 18:00)

8.19% Of Daily Total

4th Highest Hour: 976 (14:00 - 15:00)

7.25% Of Daily Total

8th Highest Hour: 856 (18:00 - 19:00)

6.36% Of Daily Total

TRAFFIC SMITHY, INC
 1225 NW MURRAY BLVD SUITE 111
 PORTLAND, OR 97229
 Phone: 503-641-6333 Fax: 503-643-8866

Roadway: FOURTH PLAIN BOULEVARD
 Location: EAST OF ANDRESEN

Date: 09/24/03
 Day of Week: Wednesday

EB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	11	4	4	7	7	7	5	5	9	5	1	5	70
01:00	5	8	3	5	3	8	4	2	6	3	2	5	54
02:00	4	3	6	8	0	2	4	3	4	4	1	3	42
03:00	6	2	0	1	1	3	1	4	0	5	3	8	34
04:00	1	2	1	3	2	1	1	0	3	1	2	5	22
05:00	4	6	4	2	4	3	9	5	9	2	12	7	67
06:00	12	4	6	9	7	16	19	18	30	12	20	15	168
07:00	17	25	19	22	27	37	32	26	37	27	40	36	345
08:00	33	42	38	33	33	35	35	38	26	51	35	51	450
09:00	48	45	47	45	38	40	51	48	48	49	38	55	552
10:00	39	56	56	44	53	70	66	63	69	58	74	60	708
11:00	60	54	69	62	58	75	58	88	65	84	66	93	832
12:00	85	89	87	79	84	72	67	66	91	82	72	74	948
13:00	81	66	74	84	81	80	79	93	60	69	58	68	893
14:00	58	63	67	97	80	74	82	67	74	83	49	78	872
15:00	69	79	71	69	71	79	72	81	64	75	69	86	885
16:00	83	86	73	76	79	80	75	62	67	66	97	67	911
17:00	62	82	68	81	81	77	72	80	82	81	56	61	883
18:00	85	58	62	62	52	44	52	86	67	50	53	63	734
19:00	60	62	49	51	59	42	54	42	55	48	44	44	610
20:00	39	36	45	45	43	48	42	43	35	35	49	31	491
21:00	23	32	26	21	30	31	23	15	21	14	23	26	285
22:00	11	16	15	14	16	19	14	17	15	8	9	13	167
23:00	15	15	11	12	5	6	8	13	11	6	14	9	125

Daily Total: 11148

AM Peak Hour: 832 (11:00 - 12:00)

7.46% Of Daily Total

PM Peak Hour: 957 (12:40 - 13:40)

8.58% Of Daily Total

4th Highest Hour: 885 (15:00 - 16:00)

7.93% Of Daily Total

8th Highest Hour: 734 (18:00 - 19:00)

6.58% Of Daily Total

TRAFFIC SMITHY, INC
 1225 NW MURRAY BLVD SUITE 111
 PORTLAND, OR 97229
 Phone: 503-641-6333 Fax: 503-643-8866

Roadway: FOURTH PLAIN BOULEVARD
 Location: EAST OF ANDRESEN

Date: 09/24/03
 Day of Week: Wednesday

WB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	5	7	4	4	8	6	8	4	4	3	3	3	59
01:00	4	7	6	3	5	4	3	3	2	7	8	3	55
02:00	7	3	1	6	2	3	0	3	1	5	6	2	39
03:00	4	1	3	0	3	1	0	5	4	4	1	2	28
04:00	2	3	1	2	1	2	2	2	2	6	4	4	31
05:00	3	8	13	7	5	10	8	9	7	8	10	10	98
06:00	11	19	24	13	15	18	14	29	26	23	27	17	236
07:00	14	30	30	37	41	26	37	47	39	44	46	31	422
08:00	30	37	36	39	35	34	39	35	33	31	38	36	423
09:00	31	36	33	37	35	39	41	46	54	50	50	39	491
10:00	45	42	52	39	42	53	49	57	53	62	47	49	590
11:00	53	58	45	46	56	56	59	64	72	65	63	63	700
12:00	51	70	64	56	75	74	84	73	66	57	93	72	835
13:00	80	80	74	50	63	76	67	70	53	70	67	51	801
14:00	67	53	66	58	66	71	78	55	59	66	68	70	777
15:00	65	66	73	71	68	58	65	54	63	83	70	60	796
16:00	71	71	49	71	69	61	47	53	89	71	77	66	795
17:00	50	66	67	68	56	61	59	66	67	66	45	67	738
18:00	53	62	69	58	41	57	48	48	46	61	50	40	633
19:00	52	50	55	56	53	57	38	42	52	43	55	40	593
20:00	42	52	42	39	46	30	51	36	38	42	29	29	476
21:00	39	42	37	29	28	37	25	30	18	19	17	27	348
22:00	31	26	16	23	18	18	16	14	13	15	20	12	222
23:00	7	8	15	8	8	13	13	11	14	6	6	9	118

Daily Total: 10304

AM Peak Hour: 700 (11:00 - 12:00)

6.79% Of Daily Total

PM Peak Hour: 884 (12:15 - 13:15)

8.57% Of Daily Total

4th Highest Hour: 795 (16:00 - 17:00)

7.71% Of Daily Total

8th Highest Hour: 633 (18:00 - 19:00)

6.14% Of Daily Total

TRAFFIC SMITHY, INC
 1225 NW MURRAY BLVD SUITE 111
 PORTLAND, OR 97229
 Phone: 503-641-6333 Fax: 503-643-8866

Roadway: FOURTH PLAIN BOULEVARD
 Location: WEST OF ANDRESEN

Date: 09/24/03
 Day of Week: Wednesday

WB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	9	11	13	7	5	10	4	4	7	3	3	5	81
01:00	4	12	3	5	8	2	1	4	4	4	10	4	61
02:00	2	5	0	5	1	0	4	6	1	6	2	1	33
03:00	0	3	1	2	5	1	4	4	8	3	4	7	42
04:00	5	4	2	4	2	3	5	4	7	4	10	5	55
05:00	6	11	15	7	10	9	8	14	14	18	14	16	142
06:00	17	23	24	29	22	18	26	29	46	44	45	38	361
07:00	44	46	44	55	66	51	53	55	63	60	70	64	671
08:00	54	50	51	61	49	60	64	34	45	59	62	56	645
09:00	65	55	47	47	63	49	70	48	80	57	64	61	706
10:00	59	44	71	51	56	64	69	63	61	77	79	63	757
11:00	52	71	60	63	69	72	66	78	80	75	91	69	846
12:00	58	71	81	94	72	93	91	88	80	105	100	105	1038
13:00	80	92	87	76	68	79	68	61	80	92	80	78	941
14:00	68	69	78	71	66	72	83	54	65	70	67	66	829
15:00	83	86	69	82	58	93	81	56	76	90	86	66	926
16:00	85	63	65	72	83	65	70	52	100	52	83	61	851
17:00	60	56	82	57	78	66	79	48	66	73	58	64	787
18:00	60	48	57	63	55	54	58	46	53	57	63	50	664
19:00	57	62	43	55	61	49	48	54	56	36	38	35	594
20:00	33	38	50	52	43	47	47	39	41	30	30	38	488
21:00	30	35	42	37	34	38	27	29	28	13	16	25	354
22:00	25	28	28	25	22	22	13	15	20	22	21	23	264
23:00	12	18	15	8	13	16	18	14	9	5	12	12	152

Daily Total: 12288

AM Peak Hour: 846 (11:00 - 12:00)

6.88% Of Daily Total

PM Peak Hour: 1087 (12:15 - 13:15)

8.84% Of Daily Total

4th Highest Hour: 851 (16:00 - 17:00)

6.92% Of Daily Total

8th Highest Hour: 757 (10:00 - 11:00)

6.16% Of Daily Total

TRAFFIC SMITHY, INC
 1225 NW MURRAY BLVD SUITE 111
 PORTLAND, OR 97229
 Phone: 503-641-6333 Fax: 503-643-8866

Roadway: FOURTH PLAIN BOULEVARD
 Location: WEST OF ANDRESEN

Date: 09/24/03
 Day of Week: Wednesday

EB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	14	2	3	6	13	10	6	15	6	11	2	3	91
01:00	2	7	9	6	9	10	3	1	4	5	3	5	64
02:00	3	5	11	9	3	2	2	9	6	4	4	3	61
03:00	3	1	0	3	3	3	1	2	2	5	2	5	30
04:00	3	0	5	5	4	2	3	7	4	7	3	2	45
05:00	8	9	4	4	4	8	17	12	10	11	11	5	103
06:00	12	8	9	17	8	21	22	19	31	30	27	20	224
07:00	32	24	32	27	36	46	47	50	33	42	43	35	447
08:00	38	42	42	32	41	42	46	32	48	41	38	56	498
09:00	55	62	55	61	54	58	47	56	68	62	50	70	698
10:00	58	65	68	52	66	66	73	59	79	79	84	79	828
11:00	79	79	73	88	91	73	83	91	77	86	91	76	987
12:00	96	101	102	76	91	72	87	72	112	97	82	84	1072
13:00	93	89	83	117	99	82	91	99	93	76	81	72	1075
14:00	74	86	91	94	107	107	121	85	80	94	67	67	1073
15:00	78	98	88	86	82	90	110	87	95	93	90	90	1087
16:00	111	110	95	104	98	95	108	87	97	99	100	77	1181
17:00	100	96	88	98	97	96	84	92	78	78	75	59	1041
18:00	84	67	83	61	54	58	59	70	74	63	60	68	801
19:00	65	65	61	57	57	47	62	48	76	47	48	54	687
20:00	51	45	58	51	60	51	55	56	54	32	52	62	627
21:00	39	32	38	31	33	31	29	28	30	19	26	44	380
22:00	24	35	34	15	13	25	16	14	19	14	15	12	236
23:00	19	18	16	12	11	8	8	18	14	9	11	18	162

Daily Total: 13498

AM Peak Hour: 990 (10:55 - 11:55)

7.33% Of Daily Total

PM Peak Hour: 1194 (15:55 - 16:55)

8.84% Of Daily Total

4th Highest Hour: 1073 (14:00 - 15:00)

7.94% Of Daily Total

8th Highest Hour: 828 (10:00 - 11:00)

6.13% Of Daily Total