

Roadway Survey Field Sheet

TS Project #	Map	Grid	Start Time	# Of Days
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Location: MZLLPLAIN BL + CHKALOV DR

Location ID: _____ City: VANCOOVER

Type Of Survey:

Volume

Speed

Classification

Start Date: 9/8/03

End Date: 9/10/03

S W T W T F S

S M T W T F S

Counters

Tubes

SITE EVALUATION

	YES	NO	???
Vehicles Crossing Tube Perpendicular	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do You Anticipate Queing Across Tube	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Speed Greater Than 20 Miles / Hour	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tube Crosses More Than 2 Lanes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SPEED: High _____ Mph Low _____ Mph

POSTED SPEED

None 40 Mph

25 Mph 45 Mph

30 Mph 50 Mph

35 Mph 55 Mph

Other: _____

DWELL TIME

LOWEST SPEED	HIGHEST SPEED				
	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

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

DWELL (TAD, TBD)

(TAD, TBD)

A

B

M

D

CYCLE STRIKE COUNT

G M D A B

SYSTEM DELAY LOGIC

D

Tube equal length Use proper spacing

SPEED LOGIC

G M B

One Lane only except Low Volume Speed Surveys ADT 2,000

VEHICLE SPEED / CLASSIFICATION

M B G L

COUNTRY / SET DOWN

Type: AMAX

No. 67/77/X2/17

Box 81/X8/60/82

Tube Length 40

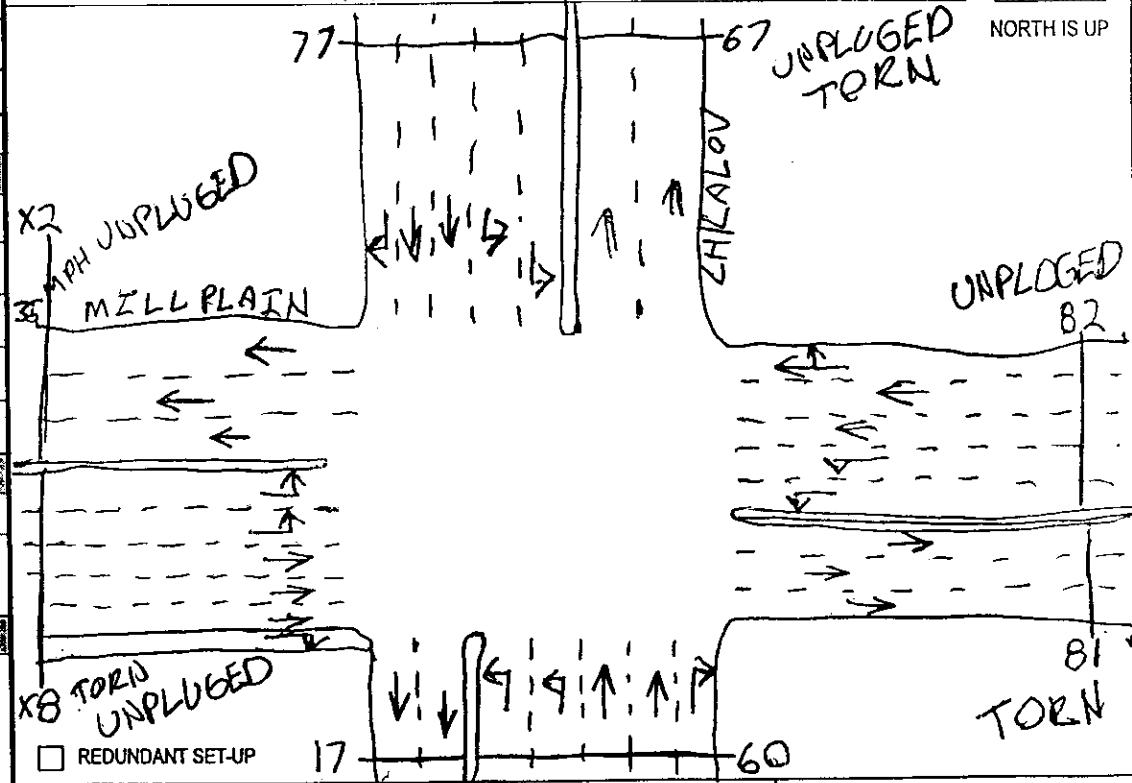
Hammer Test

CHECK	DATE	TIME
P F		
P F		
P F		
P F		
P F		

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



PICK-UP

Hammer Test

Date: _____ Time: _____

FILE NAMES

10CHKN67

10CHKKS77

10MPBWX2

10CHKKS17

10MPBEX8

10CHKN60

10MPBE81

10MPBW82

Remarks: WEATHER: Sunny Overcast Rain Snow

redo west leg WB + EB

East leg WB + EB

Surveyed By: M.A.

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: CHKALOV DRIVE
 Location: NORTH OF MILL PLAIN

Date: 09/09/03
 Day of Week: Tuesday

NB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	12	13	8	8	12	11	1	9	11	8	10	4	107
01:00	12	8	8	16	8	10	9	3	8	7	12	9	110
02:00	10	5	8	7	5	3	4	5	8	6	4	2	67
03:00	2	4	3	4	5	2	2	1	6	6	2	4	41
04:00	2	1	3	2	4	2	0	2	9	3	3	6	37
05:00	4	6	2	5	5	9	8	5	12	11	15	12	94
06:00	11	22	16	16	8	15	22	24	20	36	29	26	245
07:00	36	25	35	25	30	26	37	34	48	43	36	53	428
08:00	42	37	45	40	37	37	41	47	37	47	55	39	504
09:00	37	34	47	43	26	33	30	37	40	37	34	37	435
10:00	26	45	36	48	37	57	41	35	24	44	41	51	485
11:00	36	44	46	43	57	53	54	43	59	57	57	66	615
12:00	55	59	63	70	51	49	59	60	46	44	53	52	661
13:00	54	70	61	66	60	65	52	53	54	58	69	42	704
14:00	47	61	68	53	58	58	50	66	67	75	63	70	736
15:00	72	57	69	73	75	63	57	73	72	84	79	91	865
16:00	84	81	54	70	69	96	79	86	57	82	71	69	898
17:00	77	84	67	85	82	96	78	66	56	81	72	76	920
18:00	62	84	64	73	55	69	64	64	53	54	49	59	750
19:00	53	46	43	43	59	58	34	45	36	41	28	46	532
20:00	38	45	39	34	37	38	39	46	34	39	40	36	465
21:00	41	47	41	37	32	29	38	21	31	29	28	30	404
22:00	30	27	25	31	24	20	24	21	29	14	25	9	279
23:00	18	25	18	25	21	22	14	17	14	16	11	7	208

Daily Total: 10590

AM Peak Hour: 615 (11:00 - 12:00)

5.80% Of Daily Total

PM Peak Hour: 945 (15:40 - 16:40)

8.92% Of Daily Total

4th Highest Hour: 750 (18:00 - 19:00)

7.08% Of Daily Total

8th Highest Hour: 615 (11:00 - 12:00)

5.80% Of Daily Total

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

Roadway: CHKALOV DRIVE
 Location: NORTH OF MILL PLAIN

Date: 09/09/03
 Day of Week: Tuesday

SB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	11	6	14	8	6	6	2	5	6	9	4	6	83
01:00	2	8	4	6	4	5	2	6	9	5	7	4	62
02:00	7	4	2	2	2	3	5	7	3	7	10	2	54
03:00	4	4	4	4	6	6	4	8	4	7	8	14	73
04:00	6	11	9	7	13	9	10	13	17	15	13	15	138
05:00	22	28	30	25	33	39	34	42	36	44	30	39	402
06:00	48	50	49	66	59	59	68	57	88	71	69	69	753
07:00	60	67	80	62	82	68	75	74	77	67	77	63	852
08:00	71	61	65	61	55	78	60	73	62	68	52	62	768
09:00	53	54	52	52	60	45	44	68	46	48	59	51	632
10:00	36	58	57	40	61	57	64	60	44	60	42	42	621
11:00	69	59	42	57	51	77	57	56	74	67	69	80	758
12:00	50	62	44	84	55	48	61	52	66	51	63	71	707
13:00	65	50	56	74	68	52	57	53	59	59	62	64	719
14:00	50	66	62	63	65	67	60	65	61	58	56	59	732
15:00	75	71	63	59	48	63	51	53	72	77	59	69	760
16:00	71	51	50	81	44	72	72	85	66	58	64	74	788
17:00	64	59	66	77	55	66	60	63	59	63	72	72	776
18:00	68	59	77	71	51	72	58	61	52	36	55	45	705
19:00	40	40	37	38	44	37	36	42	33	42	28	34	451
20:00	27	34	29	22	27	35	24	29	40	28	37	30	362
21:00	23	29	20	28	32	31	25	27	25	22	23	16	301
22:00	22	14	29	19	25	23	34	20	23	11	10	7	237
23:00	11	9	8	17	5	7	15	12	11	11	7	2	115

Daily Total: 11849

AM Peak Hour: 865 (06:40 - 07:40)

7.30% Of Daily Total

PM Peak Hour: 812 (16:25 - 17:25)

6.85% Of Daily Total

4th Highest Hour: 768 (08:00 - 09:00)

6.48% Of Daily Total

8th Highest Hour: 732 (14:00 - 15:00)

6.17% Of Daily Total

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

Roadway: CHKALOV DRIVE
 Location: SOUTH OF MILL PLAIN

Date: 09/09/03
 Day of Week: Tuesday

SB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	5	13	7	7	6	7	12	2	5	5	4	6	79
01:00	7	5	4	3	9	3	3	4	8	3	5	3	57
02:00	5	5	1	2	5	4	4	4	2	4	5	1	42
03:00	0	6	3	2	2	1	0	1	3	4	2	1	25
04:00	1	1	1	0	1	1	0	2	0	1	1	2	11
05:00	5	5	5	2	6	4	3	6	4	6	4	8	58
06:00	10	14	12	10	13	10	16	11	19	16	26	15	172
07:00	16	25	18	23	24	20	27	31	27	58	55	48	372
08:00	37	33	22	29	32	33	39	46	46	48	48	40	453
09:00	34	32	35	39	38	29	35	39	36	40	43	40	440
10:00	33	37	44	38	41	36	51	49	45	33	37	36	480
11:00	53	42	32	37	54	51	61	51	51	52	70	64	618
12:00	58	53	54	62	35	62	48	58	50	58	66	54	658
13:00	51	43	42	68	60	56	50	67	51	46	64	63	661
14:00	50	63	49	54	63	64	54	46	41	50	56	64	654
15:00	54	41	61	56	73	62	63	52	69	51	70	59	711
16:00	70	69	64	74	61	68	71	67	62	62	82	81	831
17:00	76	60	76	61	90	65	80	62	76	67	73	66	852
18:00	80	82	75	59	72	64	69	43	48	45	58	55	750
19:00	42	51	52	39	50	58	54	48	42	55	39	37	567
20:00	30	45	45	39	41	46	39	36	40	37	40	36	474
21:00	38	34	38	42	47	40	32	29	27	28	23	23	401
22:00	29	27	18	19	17	21	21	23	16	19	14	9	233
23:00	16	15	19	12	13	10	7	9	7	7	9	5	129

Daily Total: 9728

AM Peak Hour: 618 (11:00 - 12:00)

PM Peak Hour: 878 (17:10 - 18:10)

4th Highest Hour: 711 (15:00 - 16:00)

8th Highest Hour: 618 (11:00 - 12:00)

6.35% Of Daily Total

9.02% Of Daily Total

7.30% Of Daily Total

6.35% Of Daily Total

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

Roadway: CHKALOV DRIVE
 Location: SOUTH OF MILL PLAIN

Date: 09/09/03
 Day of Week: Tuesday

NB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	11	16	12	3	7	6	7	2	7	6	3	4	84
01:00	1	1	4	2	6	3	5	1	5	6	4	4	42
02:00	1	2	1	2	2	2	2	6	2	4	3	1	28
03:00	0	2	3	2	1	4	0	1	3	3	2	4	25
04:00	5	4	3	3	1	4	2	4	5	4	6	10	51
05:00	8	9	8	11	15	13	10	10	11	20	14	10	139
06:00	18	27	17	18	25	29	42	43	46	26	42	35	368
07:00	45	29	58	54	54	59	58	49	38	58	50	47	599
08:00	48	43	50	33	31	46	48	41	57	53	36	45	531
09:00	40	49	38	44	59	35	48	55	54	48	60	44	574
10:00	53	45	51	42	49	51	41	50	47	63	51	64	607
11:00	49	45	50	47	71	59	59	52	68	57	58	71	686
12:00	79	78	73	78	52	66	64	65	73	61	62	73	824
13:00	59	80	80	79	80	90	70	64	73	61	70	60	866
14:00	73	72	82	58	83	68	76	71	63	83	75	77	881
15:00	50	66	70	65	67	56	70	65	91	83	86	78	847
16:00	69	76	65	63	79	72	70	56	56	63	42	82	793
17:00	74	66	73	68	72	76	63	77	56	64	57	62	808
18:00	69	52	53	72	66	53	79	55	67	50	44	50	710
19:00	46	52	53	47	52	47	29	49	47	40	41	50	553
20:00	37	40	28	30	41	30	38	34	33	27	35	54	427
21:00	47	53	33	27	26	19	20	35	22	15	19	16	332
22:00	25	23	18	22	15	13	18	18	12	14	8	13	199
23:00	15	13	5	12	13	9	12	9	7	11	8	9	123

Daily Total: 11097

AM Peak Hour: 686 (11:00 - 12:00)

6.18% Of Daily Total

PM Peak Hour: 897 (15:30 - 16:30)

8.08% Of Daily Total

4th Highest Hour: 824 (12:00 - 13:00)

7.42% Of Daily Total

8th Highest Hour: 686 (11:00 - 12:00)

6.18% Of Daily Total

Roadway Survey Field Sheet

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

Location: MZLLPLAIN BL + CHKALOV DR

Type of Survey

- Volume
- Speed
- Classification
- _____

Start Date: 9/8/03

S W T W T F S

End Date: 9/10/03

S M T W T F S

Counters _____

Tubes _____

Location ID: _____

City: VANCOOVER

SITE EVALUATION			POSTED SPEED		DWELL 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																																				
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5 - 10 MPH	130	90	70	60	40																																				
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Do You Anticipate Queing Across Tube	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 25 Mph	<input type="checkbox"/> 45 Mph	<table border="1"> <tr> <td>(TAD, TBD)</td> <td colspan="5"></td> </tr> <tr> <td>A</td> <td colspan="5"></td> </tr> <tr> <td>B</td> <td colspan="5"></td> </tr> <tr> <td>M</td> <td colspan="5"></td> </tr> <tr> <td>D</td> <td colspan="5"></td> </tr> </table>						(TAD, TBD)						A						B						M						D					
(TAD, TBD)																																									
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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	Use 2 Counters if Traffic Conditions are different in each direction.																																			
Tube Crosses More Than 2 Lanes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> 35 Mph	<input type="checkbox"/> 55 Mph	DWELL (TAD, TBD)																																			
SPEED: High _____ Mph Low _____ Mph				<input type="checkbox"/> Other: _____																																					

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: AMAX

No. 67/77/X2/17

Box 81/X8/60/82

Tube Length 40

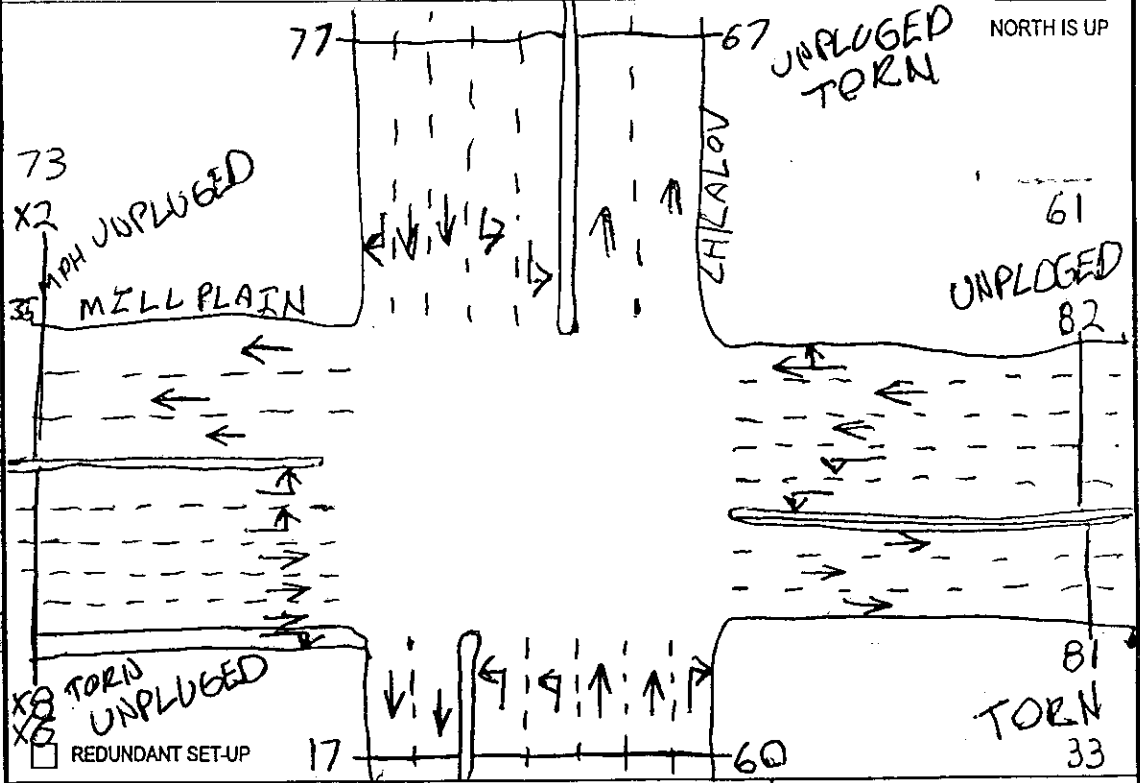
Hammer Test

CHECK	DATE	TIME
P F		
P F		
P F		
P F		
P F		

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



PICK-UP

Hammer Test

Date: _____ Time: _____

- FILE NAMES**
- 10CHKN67
 - 10CHK577
 - 10MPBWx2
 - 10CHK517
 - 10MPBEX8
 - 10CHKN60
 - 10MPBE81
 - 10MPBW82

Remarks: WEATHER: Sunny Overcast Rain Snow

kedo west leg WB + EB

26MPBW61 East leg WB + EB

26MPBE33

26MPBW73

Surveyed By: M.A.

TRAFFIC SMITHY, Inc.

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Portland, OR 97229
Phone: 503/641-6333 - Fax: 503/643-8866

REDO EAST LEG: WB

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

Roadway: MILL PLAIN BOULEVARD
 Location: EAST OF CHKALOV

Date: 09/25/03
 Day of Week: Thursday

EB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	17	30	23	21	13	13	8	14	20	20	19	14	212
01:00	17	9	13	14	10	15	12	9	7	10	12	13	141
02:00	3	10	13	10	5	9	12	7	11	9	12	12	113
03:00	5	6	4	6	4	9	6	7	8	4	9	12	80
04:00	6	9	6	10	7	7	9	17	11	17	11	15	125
05:00	11	14	16	13	20	13	13	34	33	28	29	25	249
06:00	33	19	35	37	32	53	49	60	70	92	80	61	621
07:00	99	68	97	88	95	93	80	76	104	116	117	111	1144
08:00	94	114	97	114	105	88	83	100	107	106	99	119	1226
09:00	107	74	99	102	89	77	69	107	87	112	91	110	1124
10:00	95	111	96	93	113	107	91	109	118	100	121	111	1265
11:00	106	90	134	128	109	89	145	130	143	144	140	140	1498
12:00	101	151	148	124	108	125	131	105	110	137	152	107	1499
13:00	109	132	100	132	145	125	121	121	152	130	110	114	1491
14:00	129	112	125	136	156	124	118	149	152	100	147	135	1583
15:00	124	121	146	129	149	108	171	115	163	121	156	106	1609
16:00	172	109	178	123	139	117	141	121	165	128	147	111	1651
17:00	152	114	173	133	166	128	170	122	165	134	164	121	1742
18:00	173	139	157	110	167	122	140	108	156	122	138	125	1657
19:00	162	125	130	89	111	94	110	84	130	87	111	70	1303
20:00	84	87	101	81	85	82	75	85	87	86	72	77	1002
21:00	72	74	74	83	83	82	77	83	76	60	59	69	892
22:00	52	59	56	40	52	51	49	32	49	44	29	43	556
23:00	39	37	37	33	36	35	32	25	29	28	30	20	381

Daily Total: 23164

AM Peak Hour: 1498 (11:00 - 12:00)

6.46% Of Daily Total

PM Peak Hour: 1788 (17:10 - 18:10)

7.71% Of Daily Total

4th Highest Hour: 1609 (15:00 - 16:00)

6.94% Of Daily Total

8th Highest Hour: 1491 (13:00 - 14:00)

6.43% Of Daily Total

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

Roadway: MILL PLAIN BOULEVARD
 Location: WEST OF CHKALOV

Date: 09/25/03
 Day of Week: Thursday

WB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	21	19	27	22	12	13	20	21	9	16	20	14	214
01:00	11	16	21	9	14	21	13	14	16	13	11	6	165
02:00	18	12	10	8	7	10	24	7	4	7	8	9	124
03:00	7	9	7	13	9	23	8	26	12	10	14	17	155
04:00	19	18	11	26	17	26	24	35	42	29	31	37	315
05:00	34	47	44	58	57	77	90	82	100	92	89	92	862
06:00	91	119	124	133	126	153	173	167	186	179	170	157	1778
07:00	153	154	147	174	197	191	208	197	205	206	199	199	2230
08:00	178	176	182	172	142	126	161	156	171	179	151	140	1934
09:00	136	151	162	164	142	136	146	166	160	158	140	145	1806
10:00	127	156	161	146	140	141	166	149	154	136	166	147	1789
11:00	165	166	150	171	184	158	139	185	187	182	133	157	1977
12:00	172	153	175	168	187	159	182	182	184	181	183	201	2127
13:00	163	169	169	186	165	160	183	173	171	183	178	154	2054
14:00	164	168	175	144	182	186	179	146	174	172	168	168	2026
15:00	162	179	167	166	169	154	155	171	163	187	161	149	1983
16:00	164	189	161	177	150	159	158	192	159	170	145	135	1959
17:00	158	186	177	189	174	183	154	157	174	190	171	165	2078
18:00	146	199	168	171	174	157	158	151	165	139	164	151	1943
19:00	153	137	138	133	152	118	140	91	149	110	120	91	1532
20:00	117	102	102	115	85	91	104	87	106	109	79	84	1181
21:00	111	124	95	88	97	86	102	75	66	61	61	58	1024
22:00	64	77	62	62	72	55	63	56	52	69	52	45	729
23:00	30	34	30	41	43	23	34	33	39	29	27	24	387

Daily Total: 32372

AM Peak Hour: 2312 (07:15 - 08:15)

7.14% Of Daily Total

PM Peak Hour: 2146 (12:20 - 13:20)

6.62% Of Daily Total

4th Highest Hour: 2054 (13:00 - 14:00)

6.34% Of Daily Total

8th Highest Hour: 1959 (16:00 - 17:00)

6.05% Of Daily Total

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

Roadway: MILL PLAIN BOULEVARD
 Location: WEST OF CHKALOV

Date: 09/25/03
 Day of Week: Thursday

EB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	33	38	36	32	24	18	20	26	30	31	22	26	336
01:00	19	23	17	22	15	19	22	15	15	18	19	26	230
02:00	19	15	13	12	16	10	14	18	19	17	12	13	178
03:00	11	10	14	8	9	11	10	11	10	10	10	15	129
04:00	7	13	9	12	9	13	14	23	15	24	20	18	177
05:00	16	20	14	19	21	25	27	42	43	37	47	43	354
06:00	51	36	56	50	58	66	82	94	98	101	112	97	901
07:00	125	107	127	111	128	123	115	122	135	165	160	160	1578
08:00	129	126	142	145	118	115	112	145	133	147	146	152	1610
09:00	127	135	136	125	128	112	123	143	122	138	140	146	1575
10:00	133	109	143	136	142	150	122	149	153	139	150	159	1685
11:00	154	147	167	161	153	146	176	182	201	192	186	179	2044
12:00	182	188	193	170	167	160	184	151	174	187	216	159	2131
13:00	157	161	190	182	178	164	176	178	188	173	167	177	2091
14:00	156	194	183	197	203	174	194	179	189	200	208	178	2255
15:00	188	205	195	220	199	186	204	203	216	214	210	210	2450
16:00	216	211	214	228	193	206	214	206	222	210	210	211	2541
17:00	196	225	225	213	216	210	218	223	209	225	233	224	2617
18:00	216	221	202	222	201	214	208	205	208	203	206	218	2524
19:00	206	178	165	157	157	160	148	166	151	145	153	123	1909
20:00	128	147	132	115	147	123	118	125	124	126	110	125	1520
21:00	108	122	121	121	121	128	116	126	108	96	113	99	1379
22:00	96	102	77	74	94	84	66	67	73	59	58	55	905
23:00	57	56	54	49	48	58	42	40	50	40	46	35	575

Daily Total: 33694

AM Peak Hour: 2044 (11:00 - 12:00)

6.06% Of Daily Total

PM Peak Hour: 2637 (17:05 - 18:05)

7.82% Of Daily Total

4th Highest Hour: 2450 (15:00 - 16:00)

7.27% Of Daily Total

8th Highest Hour: 2044 (11:00 - 12:00)

6.06% Of Daily Total

Roadway Survey Field Sheet

TS Project # _____ Map _____ Grid _____ Start Time **4:40** # Of Days _____

Location: **MILL PLAIN + CHKALOV**

Type of Survey
 Volume
 Speed
 Classification

Start Date: **10/6/03**
 S (M) T W T F S
 End Date: **10/8/03**
 S M T (W) T F S

Counters **2**
 Tubes **2**

Location ID: _____ City: _____

SITE EVALUATION			POSTED SPEED		DWELL TIME							
Vehicles Crossing Tube Perpendicular	YES <input type="checkbox"/>	NO <input type="checkbox"/>	???	<input type="checkbox"/> None	<input type="checkbox"/> 40 Mph	LOWEST SPEED		HIGHEST SPEED			(TAD, TBD)	
Do You Anticipate Queuing Across Tube	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 25 Mph	<input type="checkbox"/> 45 Mph	MPH	10-20	15-30	25-40	35-45	> 45	[A]
Speed Greater Than 20 Miles / Hour	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 30 Mph	<input type="checkbox"/> 50 Mph	Standing Queue	200	130	100	80	40	[B]
Tube Crosses More Than 2 Lanes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 35 Mph	<input type="checkbox"/> 55 Mph	5 - 10 MPH	130	90	70	60	40	[M]
SPEED: High _____ Mph Low _____ Mph			<input type="checkbox"/> Other: _____			> 10 MPH	100	80	60	40	40	[D]
						Use 2 Counters if Traffic Conditions are different in each direction.						
						DWELL (TAD, TBD)						

AXLE STRIKE COUNT		SYSTEM DELAY LOGIC		SPEED TO VCL		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: **AMAX**

No.: **A21**

Box: _____

Tube Length: _____

Hammer Test

CHECK	DATE	TIME
P F		
P F		
P F		
P F		
P F		

PICK-UP

Hammer Test

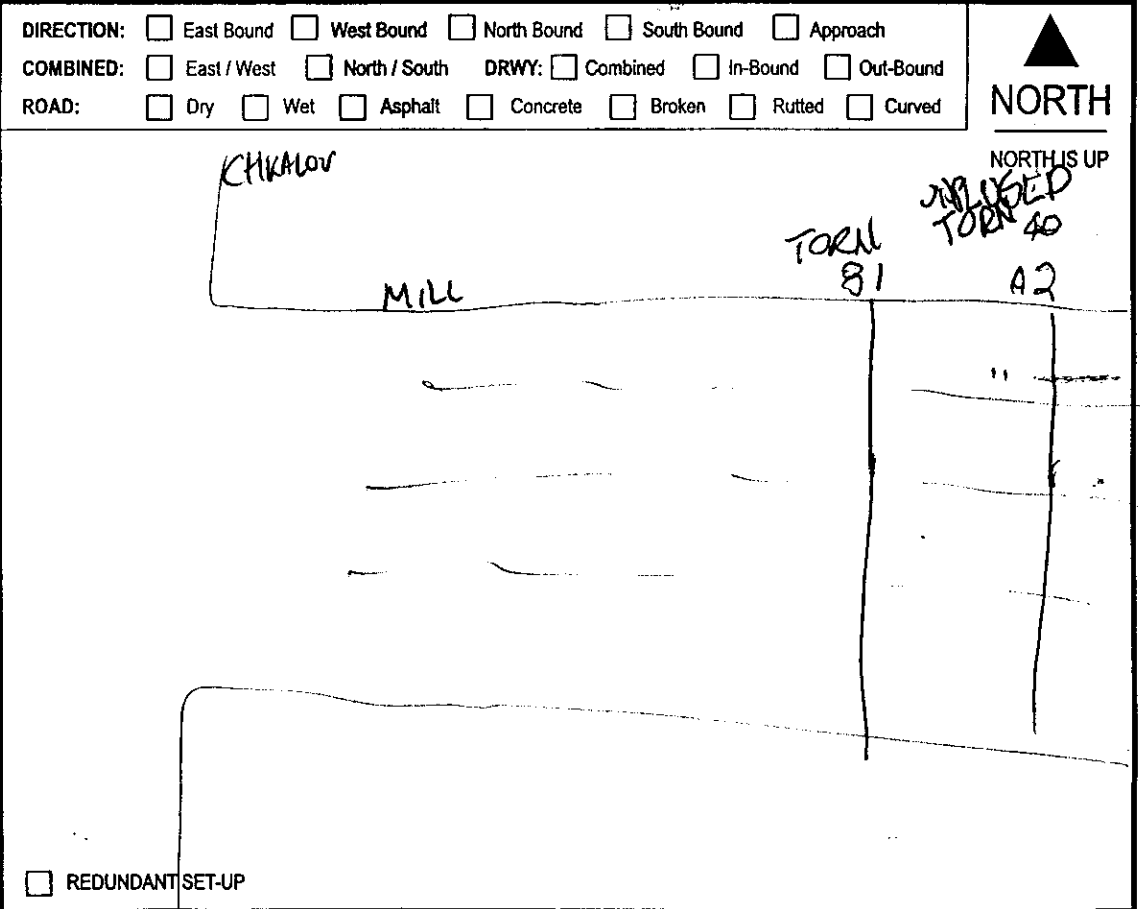
Date: _____ Time: _____

FILE NAMES

08MRBW82

08MRBW81

REDUNDANT SET-UP



Remarks: WEATHER: Sunny Overcast Rain Snow

Surveyed By: _____

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: MILL PLAIN BOULEVARD
 Location: EAST OF CHKALOV

Date: 10/07/03
 Day of Week: Tuesday

WB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	13	12	9	14	9	14	14	8	14	9	3	5	124
01:00	9	6	3	8	14	6	5	9	11	10	6	7	94
02:00	9	9	7	4	7	11	8	6	7	4	9	3	84
03:00	2	4	8	5	6	6	4	10	5	5	7	8	70
04:00	5	5	13	12	12	11	13	9	14	15	15	14	138
05:00	27	23	24	31	37	33	42	48	55	43	46	48	457
06:00	51	53	78	73	79	76	106	105	106	94	91	78	990
07:00	101	96	95	105	104	88	91	93	111	108	99	94	1185
08:00	94	107	109	82	61	85	85	89	79	102	106	77	1076
09:00	100	86	120	91	109	93	114	127	97	95	94	103	1229
10:00	110	98	107	113	112	98	107	103	117	101	99	117	1282
11:00	95	120	114	100	123	98	89	128	106	108	136	110	1327
12:00	112	118	134	113	126	135	113	111	134	123	106	120	1445
13:00	123	117	115	125	123	113	112	116	123	98	112	128	1405
14:00	119	117	127	132	111	109	138	121	104	124	109	123	1434
15:00	117	154	123	115	117	106	125	125	106	138	115	108	1449
16:00	99	115	116	126	137	115	121	116	131	146	86	121	1429
17:00	125	145	151	116	137	117	127	117	134	98	108	98	1473
18:00	130	98	105	145	100	116	124	129	114	109	104	94	1368
19:00	99	78	107	87	102	83	82	92	80	59	89	61	1019
20:00	85	81	84	54	69	62	69	65	62	81	64	57	833
21:00	65	62	63	60	79	48	34	64	42	35	54	35	641
22:00	45	41	50	53	47	40	36	34	36	37	33	19	471
23:00	27	25	22	21	29	19	20	18	21	16	15	20	253

Daily Total: 21276

AM Peak Hour: 1334 (10:55 - 11:55)

6.26% Of Daily Total

PM Peak Hour: 1522 (16:45 - 17:45)

7.15% Of Daily Total

4th Highest Hour: 1434 (14:00 - 15:00)

6.73% Of Daily Total

8th Highest Hour: 1327 (11:00 - 12:00)

6.23% Of Daily Total