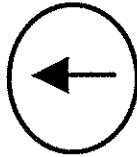


Date: 6/6/95 6/2/95

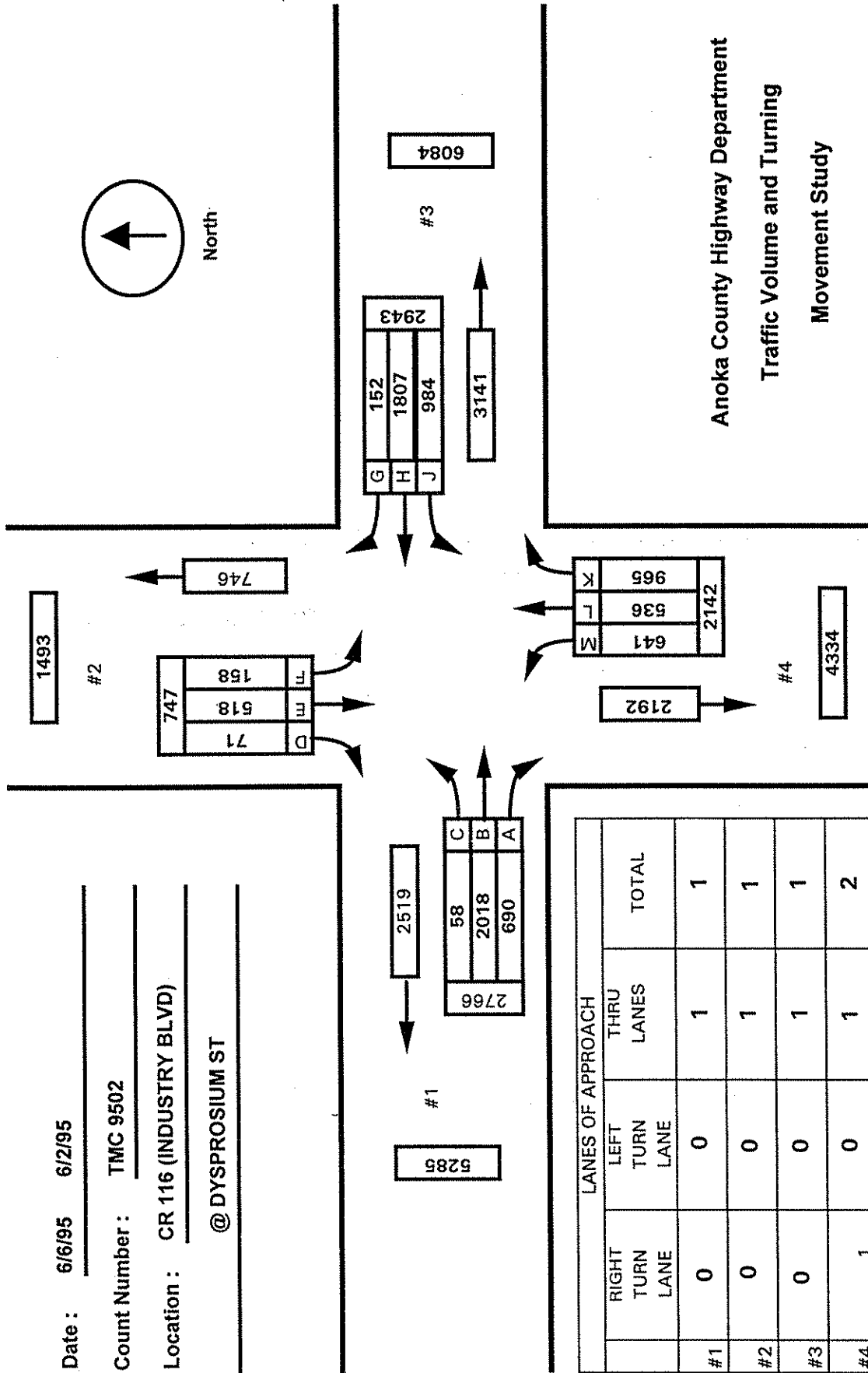
Count Number: TMC 9502

Location: CR 116 (INDUSTRY BLVD)

@ DYSPROSIUM ST



North



Anoka County Highway Department
Traffic Volume and Turning
Movement Study

	LANES OF APPROACH			TOTAL
	RIGHT TURN LANE	LEFT TURN LANE	THRU LANES	
#1	0	0	1	1
#2	0	0	1	1
#3	0	0	1	1
#4	1	0	1	2

TRAFFIC ENGINEERING SECTION
 TRAFFIC VOLUM ID
 TURNING MOVEMENT STUDY

Vehicle group 1

Date	DYSPROSIUM ST Southbound				CR 116 (INDUSTRY BLVD) Westbound				THURSTON AVE Northbound				CR 116 (INDUSTRY BLVD) Eastbound				Vehicle Total	Other Total
	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left		
06:00	0	0	14	1	2	0	13	12	1	2	1	5	7	17	18	0	83	10
06:15	0	1	31	2	2	1	19	27	0	3	1	3	4	26	26	0	140	6
06:30	0	0	25	4	0	1	35	34	0	3	2	2	8	31	31	0	168	8
06:45	0	0	24	7	1	1	39	40	0	7	2	4	6	28	56	0	208	7
Hr Total	0	1	94	14	5	3	106	113	1	15	6	14	25	102	131	0	599	31
07:00	0	0	13	9	3	0	18	22	2	14	5	4	9	24	81	0	190	14
07:15	0	3	20	13	3	1	24	26	0	11	2	3	4	27	78	0	208	7
07:30	1	0	28	6	2	3	27	33	0	9	2	7	10	32	36	3	186	13
07:45	0	1	15	1	2	1	27	53	2	6	3	5	2	22	30	1	165	6
Hr Total	1	4	76	29	10	5	96	134	4	40	12	19	25	105	225	4	749	40
08:00	1	1	7	2	4	1	16	28	2	5	5	3	5	9	29	1	107	12
08:15	0	1	11	3	8	2	23	27	3	11	2	4	4	10	20	1	115	15
08:30	2	3	11	3	5	1	18	18	1	13	3	2	5	15	17	1	105	13
08:45	0	0	9	4	4	2	14	15	3	11	2	3	5	10	21	0	91	12
Hr Total	3	5	38	12	21	6	71	88	9	40	12	12	19	44	87	3	418	52
09:00	0	3	7	2	2	2	20	17	1	7	4	4	2	9	17	0	92	5
09:15	0	1	4	2	3	1	21	7	1	5	1	4	3	5	21	0	72	7
09:30	1	3	2	1	4	0	21	20	0	4	5	4	7	6	13	0	79	12
09:45	0	1	4	2	2	7	17	17	7	8	5	4	4	11	22	3	101	13
Hr Total	1	8	17	7	11	10	79	61	9	24	15	16	16	31	73	3	344	37
10:00	0	1	4	0	4	2	21	8	2	13	4	8	6	8	30	0	99	12
10:15	2	1	7	4	5	2	26	12	1	7	4	1	5	14	19	0	97	13
10:30	0	0	7	1	3	0	19	19	3	13	3	9	0	13	17	0	101	6
10:45	0	1	6	1	6	1	28	16	1	16	5	11	6	5	29	2	121	13
Hr Total	2	3	24	6	18	5	94	55	7	49	16	29	17	40	95	2	418	44
11:00	0	1	2	2	3	0	27	19	2	19	10	2	1	8	29	0	119	6
11:15	1	4	8	0	7	4	29	16	1	17	10	9	4	8	34	0	139	13
11:30	0	0	8	1	4	0	39	14	1	34	4	9	3	9	42	0	160	8
11:45	0	1	4	2	4	1	28	18	1	16	5	13	5	12	26	0	126	10
Hr Total	1	6	22	5	18	5	123	67	5	86	29	33	13	37	131	0	544	37
12:00	0	0	4	2	8	3	24	10	2	24	5	6	4	11	31	3	123	14
12:15	0	2	10	2	6	4	29	17	1	18	4	8	2	8	17	2	121	9
12:30	1	1	12	0	3	2	28	15	0	13	8	6	2	6	18	1	110	6
12:45	0	2	8	0	4	1	26	18	1	20	5	4	3	15	17	1	117	8
Hr Total	1	5	34	4	21	10	107	60	4	75	22	24	11	40	83	7	471	37

ANOKA COUNTY HIGHWAY DEPARTMENT
 TRAFFIC ENGINEER 3 SECTION
 TRAFFIC VOLUME AND
 TURNING MOVEMENT STUDY

Site Code 0950201
 Start Date 06/02/95
 File I.D. : TMC9502J001
 Page : 2

Counter : TDC 1001
 Counted by ANN/LAURIE

Vehicle group 1

Date	CR 116 (INDUSTRY BLVD)										CR 116 (INDUSTRY BLVD)																	
	Southbound					Westbound					Northbound					Eastbound												
	Other	Right	Thru	Left	Total	Other	Right	Thru	Left	Total	Other	Right	Thru	Left	Total	Other	Right	Thru	Left	Total	Other	Right	Thru	Left	Total			
13:00	0	1	6	4	11	4	4	17	12	33	2	13	6	7	28	3	9	32	1	44	3	8	37	1	48	112	9	121
13:15	1	2	9	4	16	4	5	16	10	25	0	8	3	8	11	3	8	37	1	12	3	8	37	1	12	111	8	119
13:30	0	2	4	1	7	3	1	19	9	23	3	12	5	10	20	2	3	23	1	6	2	3	23	1	6	90	8	98
13:45	1	2	1	1	5	10	3	50	15	28	2	21	11	13	26	2	8	20	0	10	2	8	20	0	10	145	15	160
Hr Total	2	7	20	10	39	21	13	102	46	80	7	54	25	38	94	10	28	112	3	41	10	28	112	3	41	458	40	500
14:00	1	1	1	1	4	3	3	28	10	34	4	16	4	5	25	2	8	20	1	11	2	8	20	1	11	98	10	108
14:15	0	1	3	2	6	7	1	36	27	41	6	26	7	10	49	5	14	18	2	21	5	14	18	2	21	147	18	165
14:30	0	2	7	3	12	3	1	34	11	48	4	24	7	16	51	6	12	32	2	20	6	12	32	2	20	151	13	164
14:45	1	0	7	1	9	2	1	29	11	42	5	24	7	13	59	7	9	33	2	26	7	9	33	2	26	137	15	152
Hr Total	2	4	18	7	25	15	6	127	59	87	19	90	25	44	118	20	43	103	7	60	20	43	103	7	60	533	56	589
15:00	0	1	5	2	8	3	1	23	19	45	4	19	13	27	63	2	16	19	0	18	2	16	19	0	18	145	9	154
15:15	2	3	9	3	17	2	3	28	12	43	4	17	7	19	48	5	11	24	4	24	5	11	24	4	24	140	13	153
15:30	1	1	5	1	8	3	6	32	7	48	2	58	21	22	83	6	20	80	3	29	6	20	80	3	29	256	12	268
15:45	0	3	10	0	13	2	5	35	11	53	3	19	13	22	55	3	12	34	0	15	3	12	34	0	15	164	8	172
Hr Total	3	8	29	6	46	10	15	118	49	112	13	113	54	90	179	16	59	157	7	82	16	59	157	7	82	705	42	747
16:00	1	3	4	2	10	3	3	33	8	44	0	32	12	25	59	6	11	44	4	23	6	11	44	4	23	181	10	191
16:15	1	0	4	5	10	2	3	43	11	56	2	23	17	21	63	0	10	43	2	13	0	10	43	2	13	182	5	187
16:30	0	1	3	3	7	3	3	40	13	56	0	36	14	17	63	0	8	31	0	8	0	8	31	0	8	169	3	172
16:45	0	0	5	3	8	2	4	42	16	64	2	23	14	17	56	5	3	35	2	10	5	3	35	2	10	164	9	173
Hr Total	2	4	16	13	35	10	13	158	48	119	4	114	57	80	175	11	32	153	8	51	11	32	153	8	51	696	27	723
17:00	0	1	6	1	8	1	6	33	14	54	0	23	27	21	75	1	5	40	1	7	1	5	40	1	7	178	2	180
17:15	0	0	4	2	6	2	4	37	8	47	1	23	24	21	76	1	13	37	0	13	1	13	37	0	13	173	4	177
17:30	0	1	10	0	11	3	3	39	14	56	0	22	20	19	61	5	11	40	1	17	5	11	40	1	17	180	8	188
17:45	0	1	11	6	18	0	3	35	19	54	3	16	21	27	67	1	10	36	3	14	1	10	36	3	14	188	4	192
Hr Total	0	3	31	9	43	6	16	144	55	117	4	84	92	88	168	8	39	153	5	50	8	39	153	5	50	719	18	737
18:00	0	1	11	8	20	1	5	33	11	49	0	19	26	18	63	1	9	36	1	11	1	9	36	1	11	178	2	180
18:15	0	1	11	4	16	0	2	34	13	49	0	15	12	12	39	1	7	65	2	9	1	7	65	2	9	178	1	179
18:30	0	1	8	2	11	0	1	28	17	46	0	13	18	10	49	1	8	63	0	9	1	8	63	0	9	169	1	170
18:45	0	0	13	3	16	1	3	37	12	53	0	10	18	10	38	1	7	57	1	9	1	7	57	1	9	171	2	173
Hr Total	0	3	43	17	63	2	11	132	53	117	0	57	74	50	121	4	31	221	4	39	4	31	221	4	39	696	6	702
19:00	0	2	8	1	11	0	2	23	8	34	0	12	9	11	32	1	15	52	0	15	1	15	52	0	15	143	1	144
19:15	0	1	5	5	11	1	1	35	7	44	0	7	10	9	26	0	5	24	0	5	0	5	24	0	5	109	1	110
19:30	0	1	5	4	10	1	3	21	5	29	1	7	6	11	25	0	7	25	0	7	0	7	25	0	7	95	2	97
19:45	0	1	6	1	8	0	3	34	7	45	0	13	9	6	28	0	6	18	1	7	0	6	18	1	7	105	0	105
Hr Total	0	5	24	11	40	2	9	113	27	149	1	39	34	37	111	1	33	119	1	34	1	33	119	1	34	452	4	456

ANOKA COUNTY HIGHWAY DEPARTMENT
 TRAFFIC ENGINEER SECTION
 TRAFFIC VOLUME AND
 TURNING MOVEMENT STUDY

Site Code : 050201
 Start Date: 05/02/95
 File I.D. : TMC9502}001
 Page : 3

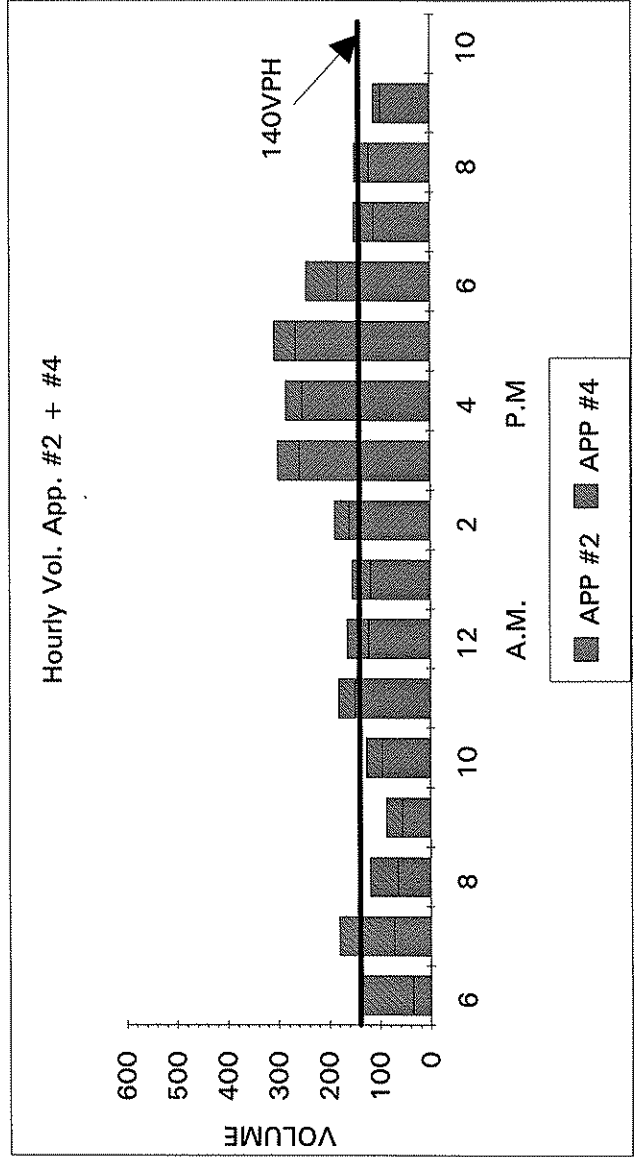
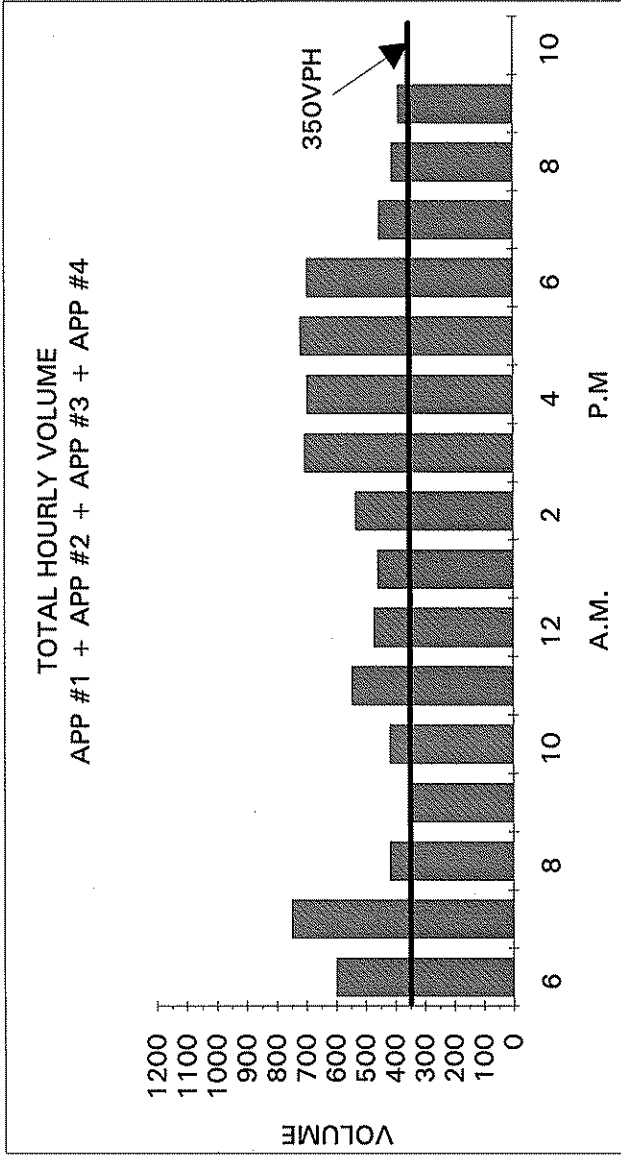
Counter : TDC SOUTH
 Counted by ANN/LAURIE

Vehicle group 1

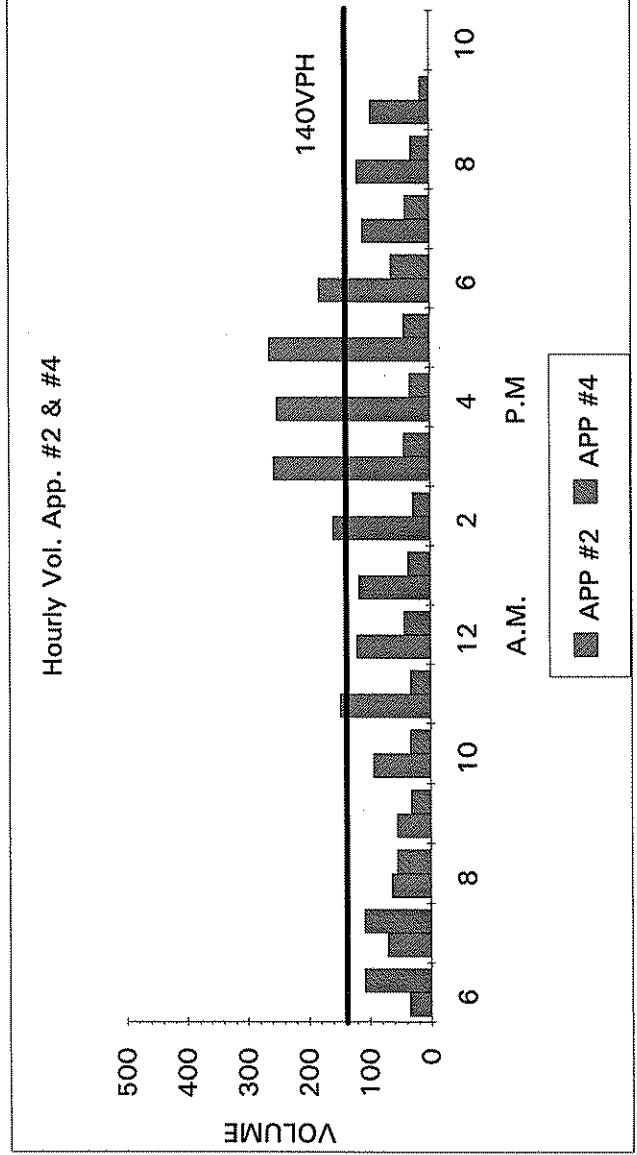
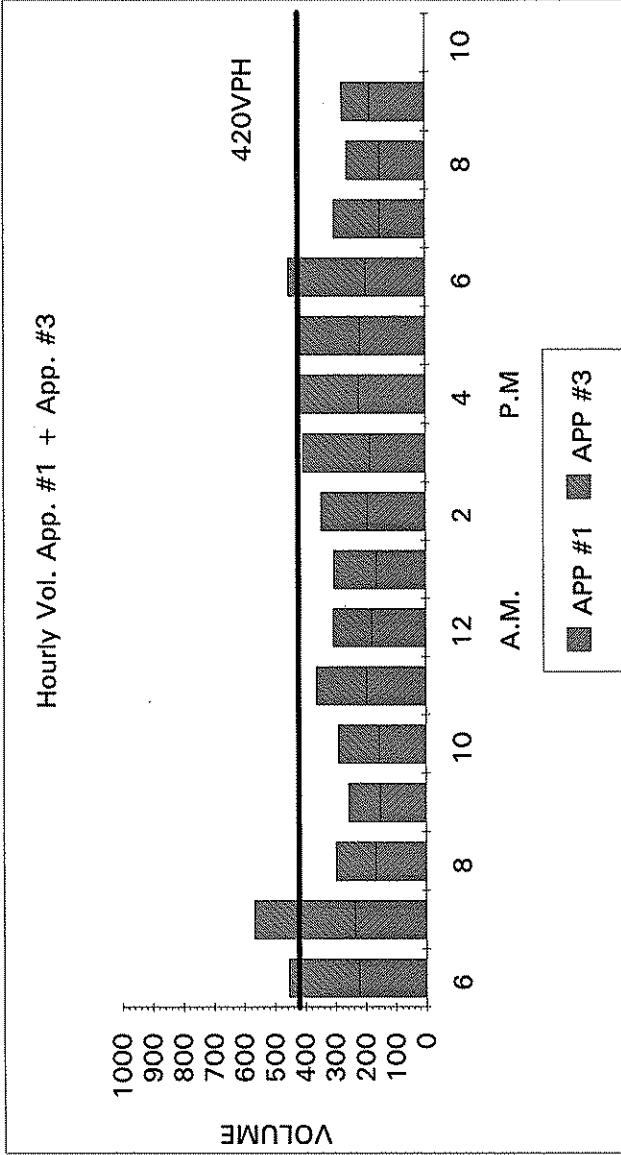
Date 05/02/95	CR 116 (INDUSTRY BLVD)			THURSTON AVE			CR 116 (INDUSTRY BLVD)			Vehicle Total	Other Total						
	Southbound	Westbound	Eastbound	Other	Right	Thru	Left	Other	Right			Thru	Left				
20:00	0	2	2	0	3	21	9	0	10	10	11	0	4	32	1	107	0
20:15	0	0	10	0	0	24	8	0	15	12	10	0	3	24	0	108	0
20:30	0	2	3	0	7	25	6	0	8	5	13	0	4	22	0	96	0
20:45	0	0	4	0	1	32	13	0	13	4	8	0	0	21	0	98	0
Hr Total	0	4	19	0	11	102	36	0	46	31	42	0	11	99	1	409	0
21:00	0	0	3	0	5	57	9	0	15	11	7	0	4	22	2	135	0
21:15	0	1	1	0	3	39	16	0	7	13	5	0	4	20	1	110	1
21:30	0	0	5	1	5	17	6	0	11	1	8	0	1	20	0	75	0
21:45	0	0	4	0	1	22	2	0	6	7	5	1	6	14	0	67	1
Hr Total	0	1	13	1	14	135	33	0	39	32	25	1	15	76	3	387	2

TOTAL 18 71 518 158 171 152 1807 984 87 965 536 641 197 690 2018 58 8598 473

TMC9502 STOP WARRANT STUDY



TMC9502 SIGNAL WARRANT 1 STUDY



TMC9502 SIGNAL WARRANT 2 STUDY

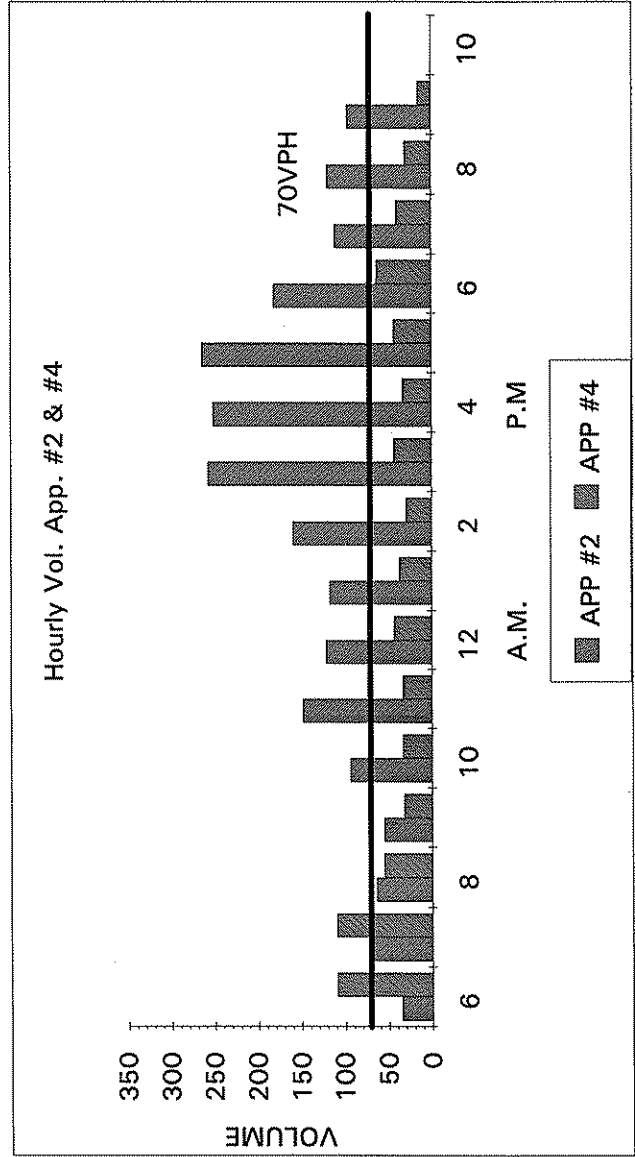
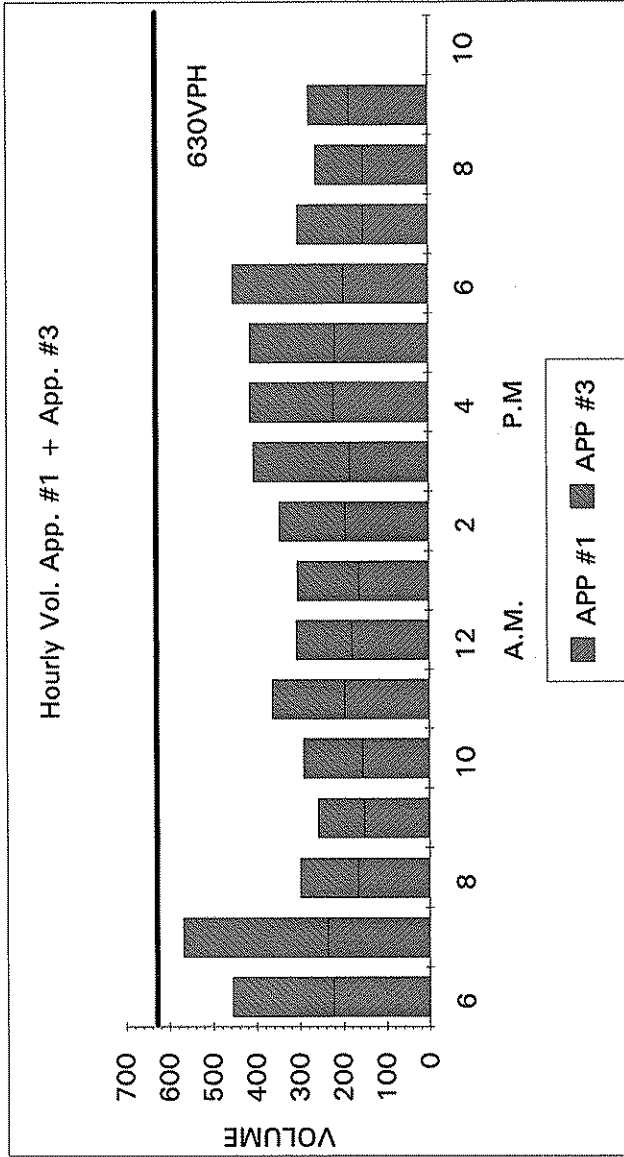
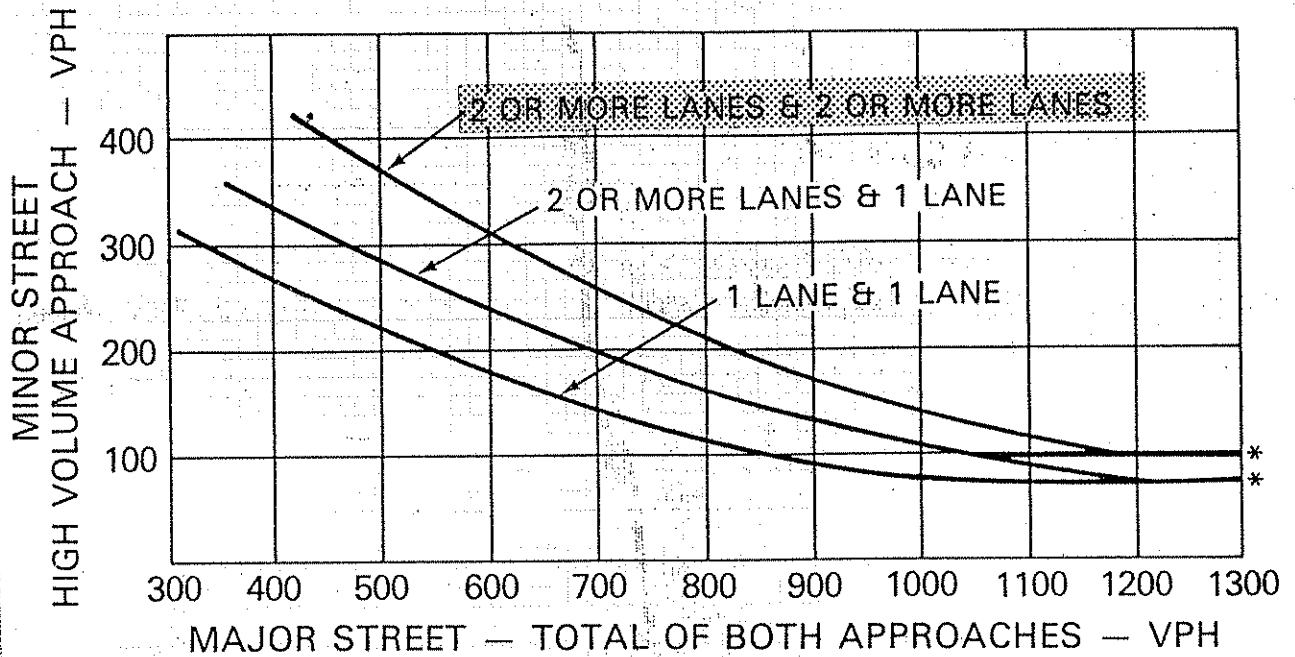


FIGURE 4-6. PEAK HOUR VOLUME WARRANT

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



*NOTE: 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

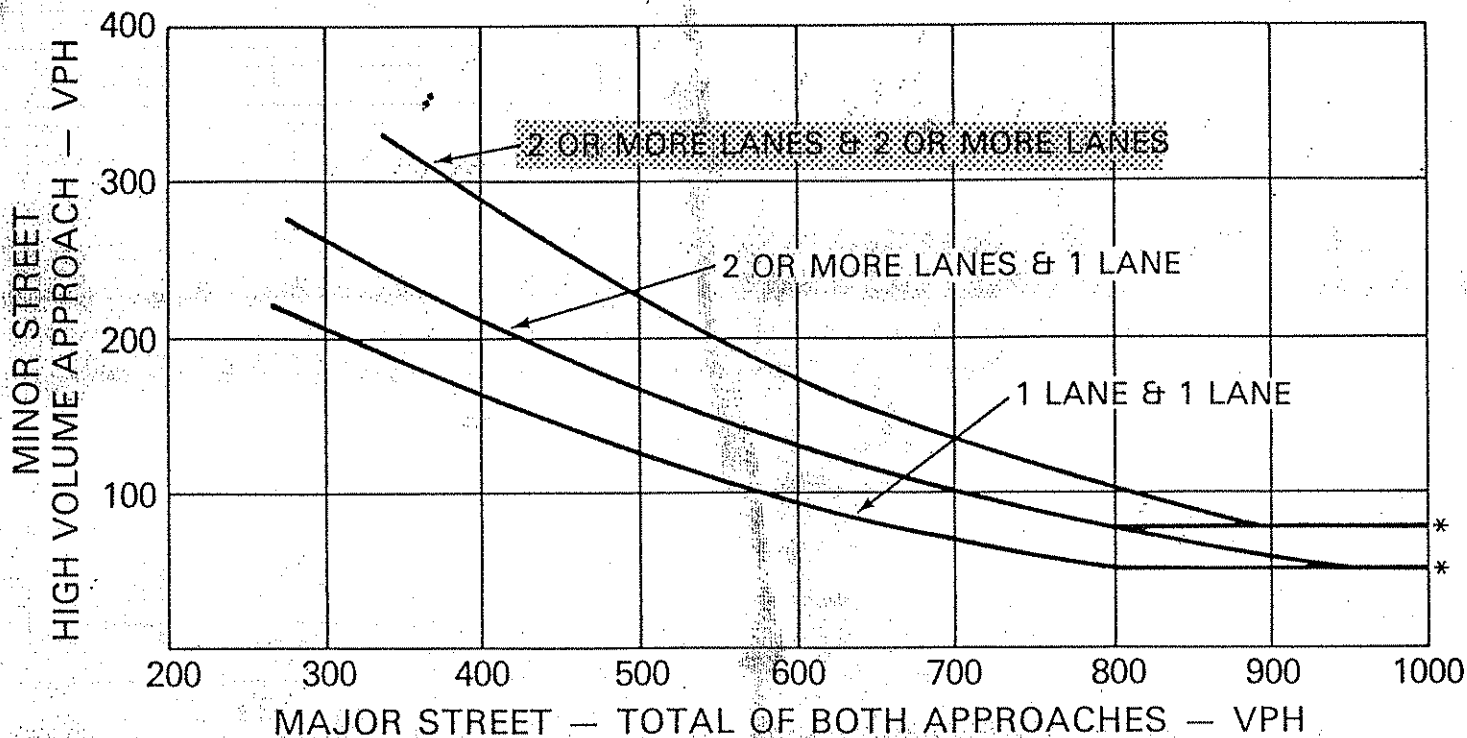
● = VOLUMES WHICH EXCEED THE THRESHOLD AND ARE REPRESENTED ON THE GRAPH.

★ = VOLUMES WHICH EXCEED THE THRESHOLD BUT CANNOT BE REPRESENTED ON THE GRAPH.

TIME	MAJOR STREETS (VPH)	MINOR STREET (VPH)
6-7 am	455	109
7-8 am	569	109
8-9 am	299	64
9-10 am	257	55
10-11 am	291	94
11-12 pm	363	148
12-1 pm	307	121
1-2 pm	304	117
2-3 pm	345	159
3-4 pm	405	257
4-5 pm	412	251
5-6 pm	412	264
6-7 pm	452	181
7-8 pm	302	110
8-9 pm	260	119
9-10 pm	276	96

FIGURE 4-8. FOUR HOUR VOLUME WARRANT

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



*NOTE: 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 60 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

● = VOLUMES WHICH EXCEED THE THRESHOLD AND ARE REPRESENTED ON THE GRAPH.

★ = VOLUMES WHICH EXCEED THE THRESHOLD BUT CANNOT BE REPRESENTED ON THE GRAPH.

TIME	MAJOR STREETS (VPH)	MINOR STREET (VPH)
6-7 am	455	109
7-8 am	569	109
8-9 am	299	64
9-10 am	257	55
10-11 am	291	94
11-12 pm	363	148
12-1 pm	307	121
1-2 pm	304	117
2-3 pm	345	159
3-4 pm	405	257
4-5 pm	412	251
5-6 pm	412	264
6-7 pm	452	181
7-8 pm	302	110
8-9 pm	260	119
9-10 pm	276	96

TMC 9502 CR116 (INDUSTRY BLVD) @ DYSPROSIUM STREET NE

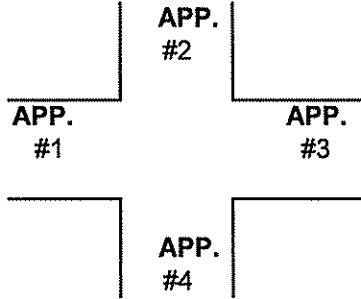


NORTH

COUNT LOCATION: CR 116 (INDUSTRIAL BLVD) @
DYSPROSIUM ST NE

DATE: 6/2/95

APP.#1=EB CR 116
(INDUSTRIAL BLVD)
APP.#2=SB
DYSPROSIUM ST NE
APP.#3=WB CR 116
(INDUSTRIAL BLVD)
APP.#4=NB
DYSPROSIUM ST NE



- HEAVY VEHICLE- ANY VEHICLE HAVING MORE THAN FOUR TIRES TOUCHING THE PAVEMENT
- A. TRUCKS- A HEAVY VEHICLE INVOLVED PRIMARILY IN THE TRANSPORT OF GOODS OR IN THE DELIVERY OF A SERVICE.
 - B. RV- A HEAVY VEHICLE OPERATED BY A PRIVATE MOTORIST AND INVOLVED IN THE TRANSPORT OF RECREATIONAL EQUIPMENT OR FACILITIES.
 - C. BUSES- A HEAVY VEHICLE INVOLVED IN THE TRANSPORTATION OF GROUPS OF PEOPLE.

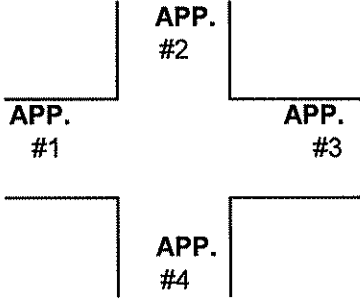
TIME	PEDESTRIANS					HEAVY VEHICLES		
	APP. #1	APP. #2	APP. #3	APP. #4	15 MIN TOT	TRUCKS	RV	BUS
6:00-6:15AM						10		
6:15-6:30						6		
6:30-6:45				1	1	8		
6:45-7:00			1		1	5		2
HOURLY TOTAL					2	HOURLY TOTAL		31
7:00-7:15			1	1	2	13		2
7:15-7:30						6		
7:30-7:45						10		3
7:45-8:00						3		2
HOURLY TOTAL					2	HOURLY TOTAL		39
8:00-8:15						14		
8:15-8:30						11		1
8:30-8:45						7		7
8:45-9:00						9		2
HOURLY TOTAL						HOURLY TOTAL		51
9:00-9:15						5		
9:15-9:30						10		
9:30-9:45						9		
9:45-10:00						13		1
HOURLY TOTAL						HOURLY TOTAL		38
10:00-10:15						10		2
10:15-10:30						11		2
10:30-10:45						8		
10:45-11:00						10		
HOURLY TOTAL						HOURLY TOTAL		43
11:00-11:15						6		
11:15-11:30						13		
11:30-11:45						6		3
11:45-12:00						8		1
HOURLY TOTAL						HOURLY TOTAL		37
12:00-12:15						14		
12:15-12:30						9		
12:30-12:45						5		1
12:45-1:00						8		
HOURLY TOTAL						HOURLY TOTAL		37
1:00-1:15						13		
1:15-1:30				1	1	8		
1:30-1:45						3		1
1:45-2:00						14		
HOURLY TOTAL					1	HOURLY TOTAL		39



COUNT LOCATION: CR 116 (INDUSTRIAL BLVD) @
DYSPROSIUM ST NE

DATE: 6/6/95

APP.#1=EB CR 116
(INDUSTRIAL BLVD)
APP.#2=SB
DYSPROSIUM ST NE
APP.#3=WB CR 116
(INDUSTRIAL BLVD)
APP.#4=NB
DYSPROSIUM ST NE



- HEAVY VEHICLE- ANY VEHICLE HAVING MORE THAN FOUR TIRES TOUCHING THE PAVEMENT
- A. TRUCKS- A HEAVY VEHICLE INVOLVED PRIMARILY IN THE TRANSPORT OF GOODS OR IN THE DELIVERY OF A SERVICE.
 - B. RV- A HEAVY VEHICLE OPERATED BY A PRIVATE MOTORIST AND INVOLVED IN THE TRANSPORT OF RECREATIONAL EQUIPMENT OR FACILITIES.
 - C. BUSES- A HEAVY VEHICLE INVOLVED IN THE TRANSPORTATION OF GROUPS OF PEOPLE.

TIME	PEDESTRIANS					HEAVY VEHICLES		
	APP. #1	APP. #2	APP. #3	APP. #4	15 MIN TOT	TRUCKS	RV	BUS
2:00-2:15PM						8		2
2:15-2:30						17		1
2:30-2:45						11		2
2:45-3:00						12		3
HOURLY TOTAL						HOURLY TOTAL		56
3:00-3:15						7		2
3:15-3:30						10		2
3:30-3:45						11		2
3:45-4:00						5		2
HOURLY TOTAL						HOURLY TOTAL		41
4:00-4:15						7		3
4:15-4:30						3		1
4:30-4:45						3		
4:45-5:00						8		1
HOURLY TOTAL						HOURLY TOTAL		26
5:00-5:15						2		
5:15-5:30						5		
5:30-5:45						7		
5:45-6:00						3		
HOURLY TOTAL						HOURLY TOTAL		17
6:00-6:15						2		
6:15-6:30						1		
6:30-6:45						1		
6:45-7:00						1		1
HOURLY TOTAL						HOURLY TOTAL		6
7:00-7:15						1		
7:15-7:30						1		
7:30-7:45				1	1	2		
7:45-8:00								
HOURLY TOTAL					1	HOURLY TOTAL		4
8:00-8:15								
8:15-8:30				1	1			
8:30-8:45	1				1			
8:45-9:00	3				3			
HOURLY TOTAL					5	HOURLY TOTAL		
9:00-9:15								
9:15-9:30						1		
9:30-9:45								
9:45-10:00						1		
HOURLY TOTAL						HOURLY TOTAL		2