Appendix B Certified Traffic

Memo

Date:	Friday, October 04, 2024
Project:	Symmes Road Rail Crossing Elimination Project
To:	Ben Mann, PE, MPA – Public Works Director, City of Fairfield, OH
From:	Dave Becker, PE, PTOE, AICP, HDR
Subject:	Symmes Road Certified Traffic Request

HDR is requesting local approval of certified traffic for the Symmes Road CSX Railroad Grade Separation project in Fairfield, Ohio. The assumed 'Opening Year' for the study has been set for 2028 with a 'Design Year' of 2048 (20-year design criteria).

Detailed turning movement counts were performed at the five (5) project intersections by Gewalt Hamilton Associates, Inc. on Thursday May 9th, 2024. The study intersections include Symmes Road and Hicks Boulevard, SR 4 (Dixie Hwy), Industry Drive, Tedia Way, and N Gilmore Road. Reports of the counts, along with plates, can be found in the **Attachment A**. Based on a review of the counts, the AM and PM peak periods within the project area, are set at 7:15 A.M. – 8:15 A.M., and 4:30 P.M. – 5:30 P.M., respectively.

The ADT volumes were developed by factoring the raw turning movement counts at each intersection with daily and seasonal adjustment factors obtained from the Ohio Department of Transportation's webpage. The daily factors are dependent upon the functional classification of the roadway as well as the specific hours that the traffic count was performed. The seasonal adjustment factors are determined by the functional classification of the roadway, the day of the week and the month that the traffic count was performed.

Design hour volumes (DHVs) were developed for the study area using the peak hour to design hour factors that are published by the Ohio Department of Transportation Office of Statewide Planning and Research. The design hour factors utilized to develop the DHVs are dependent upon the roadway's functional classification as well as the day of the week and month the count was performed. These design hour factors were then applied to the raw movement counts. See **Attachment B** for daily adjustment, seasonal adjustment, and peak hour to design hour factors.

The ADT and design hour volumes were rounded to the nearest ten. Additional traffic was added to the roadway network during the design hours to ensure that all movements show a minimum of 10 vehicles.

Developing the future traffic volumes involves developing a proposed growth rate based on historical traffic volume data. The historical data was extracted from TIMS for the study area, and the results are shown in **Table 1**. The data covers 18 years of growth patterns, from 2005 to 2023. The highest increase was in 2021 (5%) and the largest decrease was in 2015 (-12%). The average growth rate over this span of 18 years is -1%. However, after a detailed review of the historical growth rates for the study area, it was determined that a 0.5%/year growth rate (Background) was appropriate for the area due to anticipated future growth.

Table 1: Historical Traffic Volumes from ODOT TIMS

Year	ADT	Growth	Year	ADT	Growth
2023	18251	2%	2013	19975	-3%
2022	17964	0%	2012	20550	0%
2021	17964	5%	2011	20591	-1%
2020	17141	-7%	2010	20841	-1%
2019	18511	1%	2009	21073	1%
2018	18382	1%	2008	20844	-2%
2017	18218	3%	2007	21226	0%
2016	17758	4%	2006	21311	0%
2015	17042	-12%	2005	21247	
2014	19476	-2%		AVERAGE =	-1%

In addition to the anticipated background growth in the study area, the removal of the at-grade railroad crossing and the associated traffic delays that result will lead to increased traffic along Symmes Road. Traffic that avoids the area due to the at-grade crossing will reroute and now use the Symmes Road corridor. There are also several planned developments, including a planned 200,000 SF speculative industrial building at the former GM Fisher Body site (representing 500,000 SF added to the site in the last three years); the ongoing expansions of major regional employers Koch Foods, Pacific Manufacturing, and ThyssenKrupp Bilstein; construction of two new commercial buildings within the Jungle Jim's International Market complex; and occupation of several speculative industrial developments near completion including Seward Point Commerce Park, Fairfield Logistics Park, and Fairfield Trade Center. The City recently purchased several small, vacant and underperforming properties on Route 4 that will be made available as a larger eight (8) acre parcel to incentivize new development. Finally, two large land sites on Tedia Way (104 acres) and Busway Lane (53 acres) are attracting attention for new development and have immediate proximity to the railroad crossing. Based on this information it was determined that an additional 0.5%/year growth rate (Build) was appropriate for the area due to rerouted traffic and anticipated future development.

Included in the traffic plates are the TD, T24 values for each of the roadways within the study area. Design designations were calculated based on the existing traffic counts collected within the study area and are shown in **Table 2**.

Table 2: Design Designations for Symmes Road

	west of Dixie	east of Dixie	west of Hicks	east of Hicks	west of Industry	east of Industry	west of Tedia	east of Tedia	west of Gilmore	east of Gilmore
2028 ADT:	13,230	12,610	12,060	14,370	14,270	14,340	14,510	14,430	14,740	20,340
2048 ADT:	16,130	15,380	14,710	17,530	17,400	17,500	17,700	17,610	17,990	24,820
K:	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.10	0.09
2048 DHV:	1,610	1,500	1,490	1,800	1,780	1,850	1,900	1,880	1,760	2,330
D:	0.74	0.74	0.70	0.68	0.68	0.67	0.65	0.66	0.63	0.64
T24:	0.02	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
TD:	0.01	0.06	0.02	0.05	0.04	0.04	0.04	0.04	0.05	0.04

According to ODOT's *Ohio Traffic Forecasting Manual*, this project does not require a formal review by ODOT. Therefore, we are requesting that the Traffic Plates included in **Attachment A** be officially approved by the City of Fairfield.

Table 3: Forecasting Method Selection Criteria from ODOT's Traffic Forecasting Manual

Table 4-2. Traffic Forecasting Method Selection Criteria

Case	Risk Level	Applicable Method(s)	Traffic Forecaster	Certification Required	District Approval Required
TIS	Low (Level 1)	A	Project sponsor or their consultant	No	Yes
	High (Level 2)	F	Project sponsor or their consultant	No	Yes
Planning Study	Not Applicable	B	Project sponsor or their consultant	No	Yes
Locally Administered, Not on State System, and No Federal Funding	Not Applicable	D, E, F	Project sponsor or their consultant	No	No
Locally Administered, Not on State System, with Federal Funding	Low	D, E	Project sponsor or their consultant	No	Yes
	High	F	Project sponsor or their consultant	Yes	No
ODOT Administered or on State System	Low	C (State Routes), D, E	District or their consultant	No	Yes
	High	F	ODOT M&F or project consultant	Yes	No

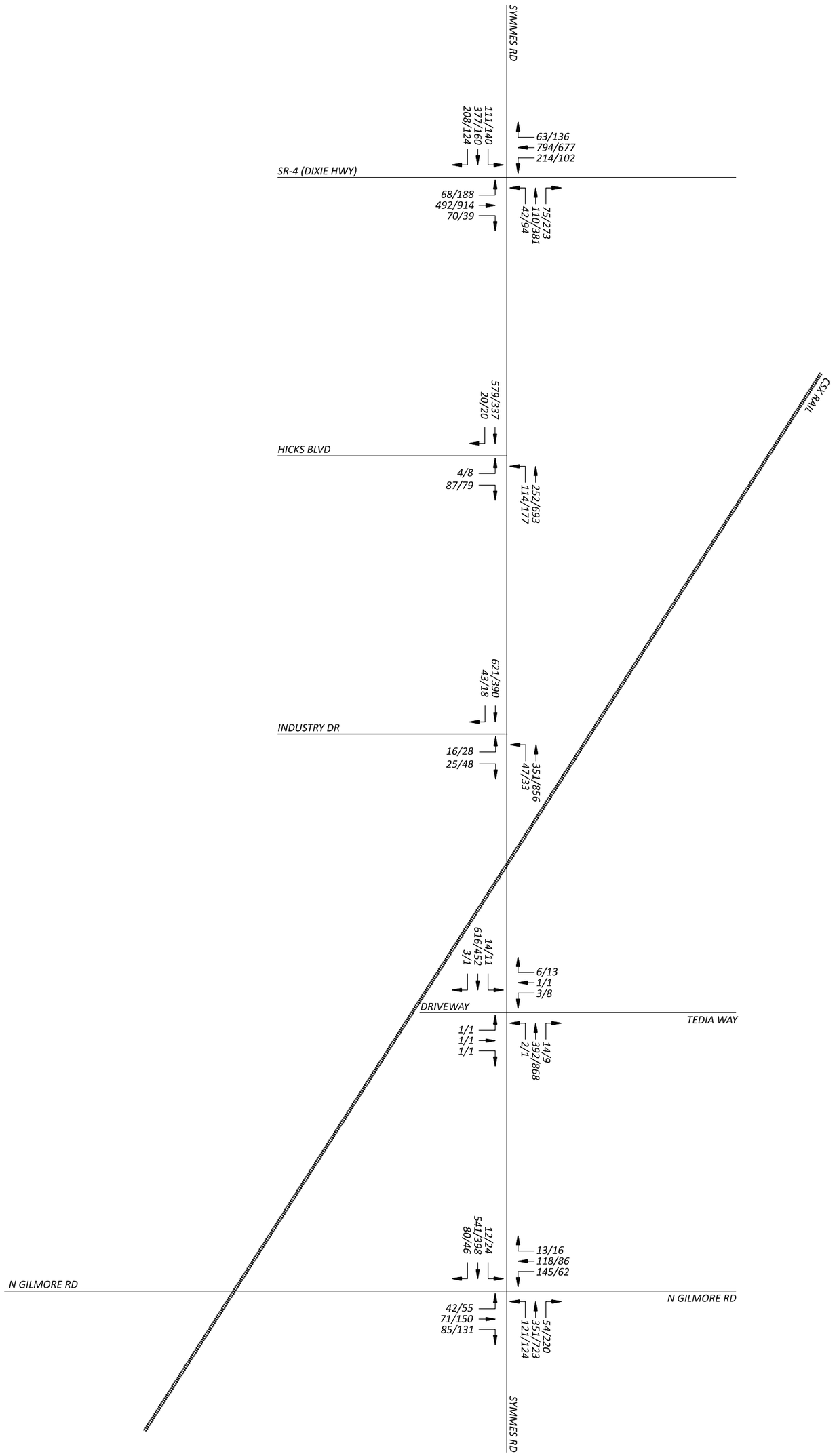
Where A = Simplified State Highway Access Management Manual (SHAMM) Methods
B = Planning Level Traffic
C = Traffic Forecasting Management System (TFMS)
D = MPO Growth Rate
E = Other Growth Rate
F = High Risk (Certified) Design Traffic Process

If you have any questions, please feel free to contact me at (614) 839-6342 or via e-mail at dave.becker@hdrinc.com.

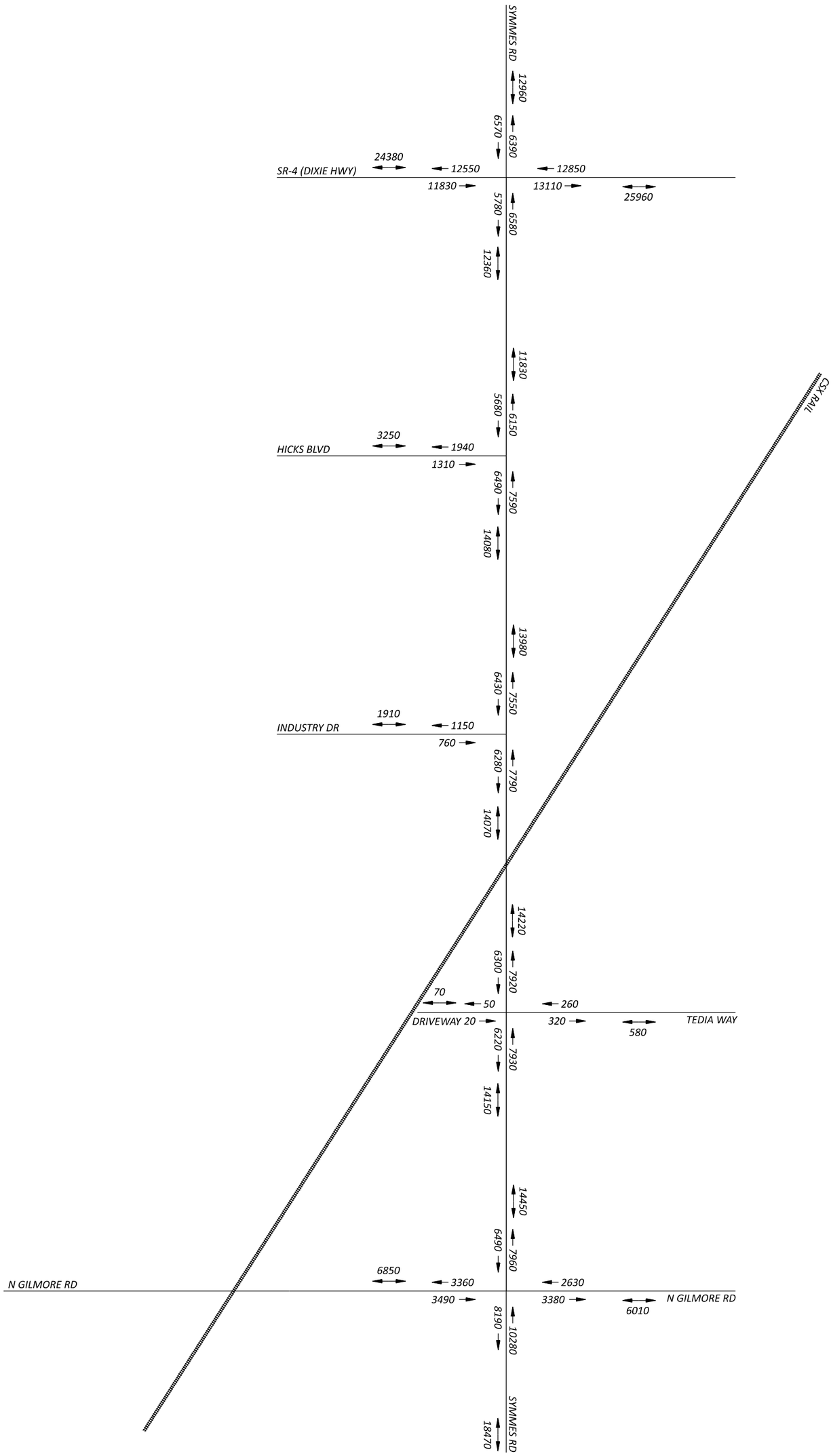
Thank you for your assistance with this project.

Dave Becker

ATTACHMENT A



1 / 8	2024 EXISTING TRAFFIC COUNTS (AM/PM) SYMMES ROAD RAIL CROSSING ELIMINATION PROJECT	ANALYST DATE	0 NOT TO SCALE	N

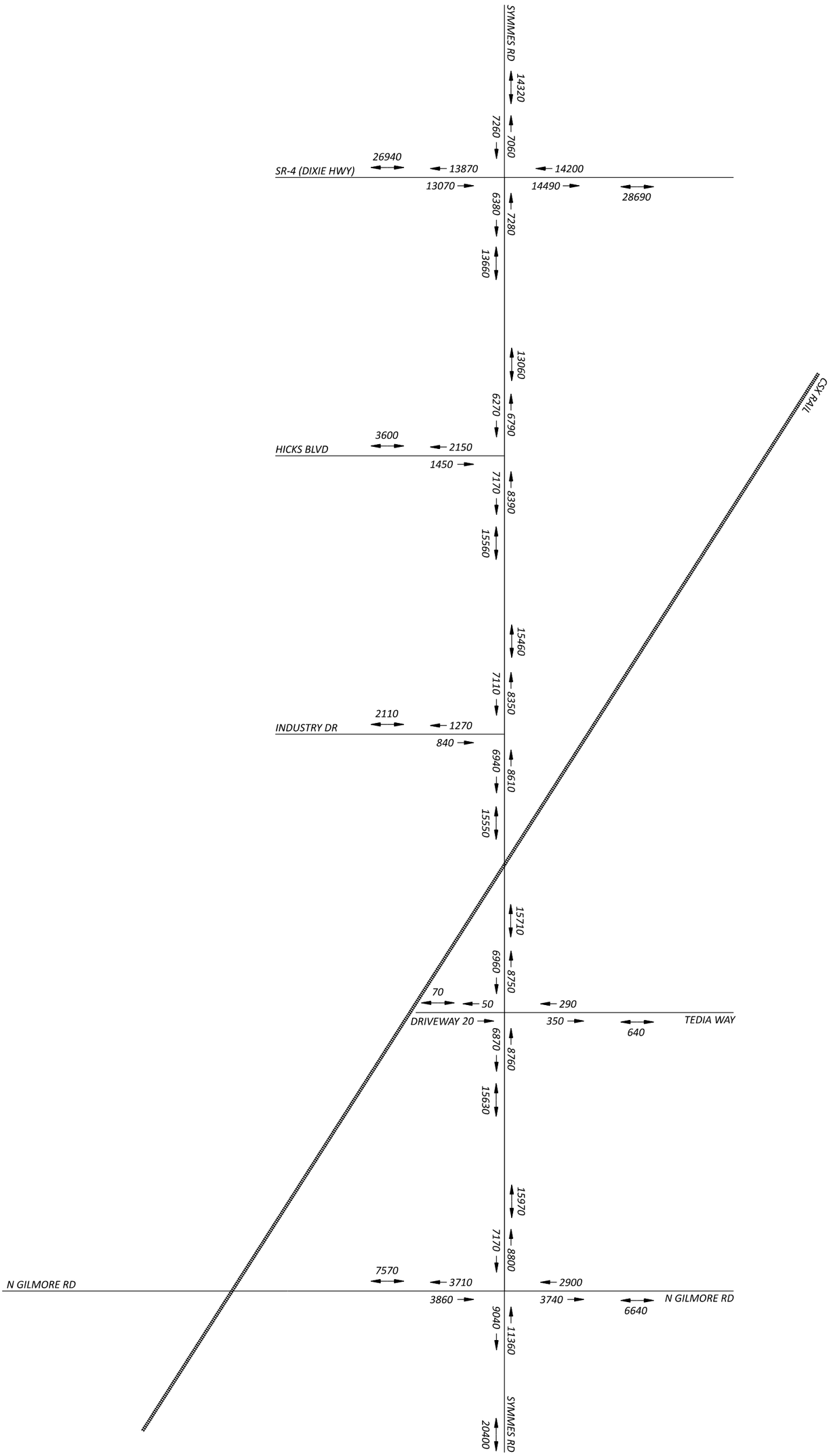


2028 NO BUILD ADTS
SYMMES ROAD RAIL CROSSING ELIMINATION PROJECT

ANALYST

DATE

NOT TO SCALE

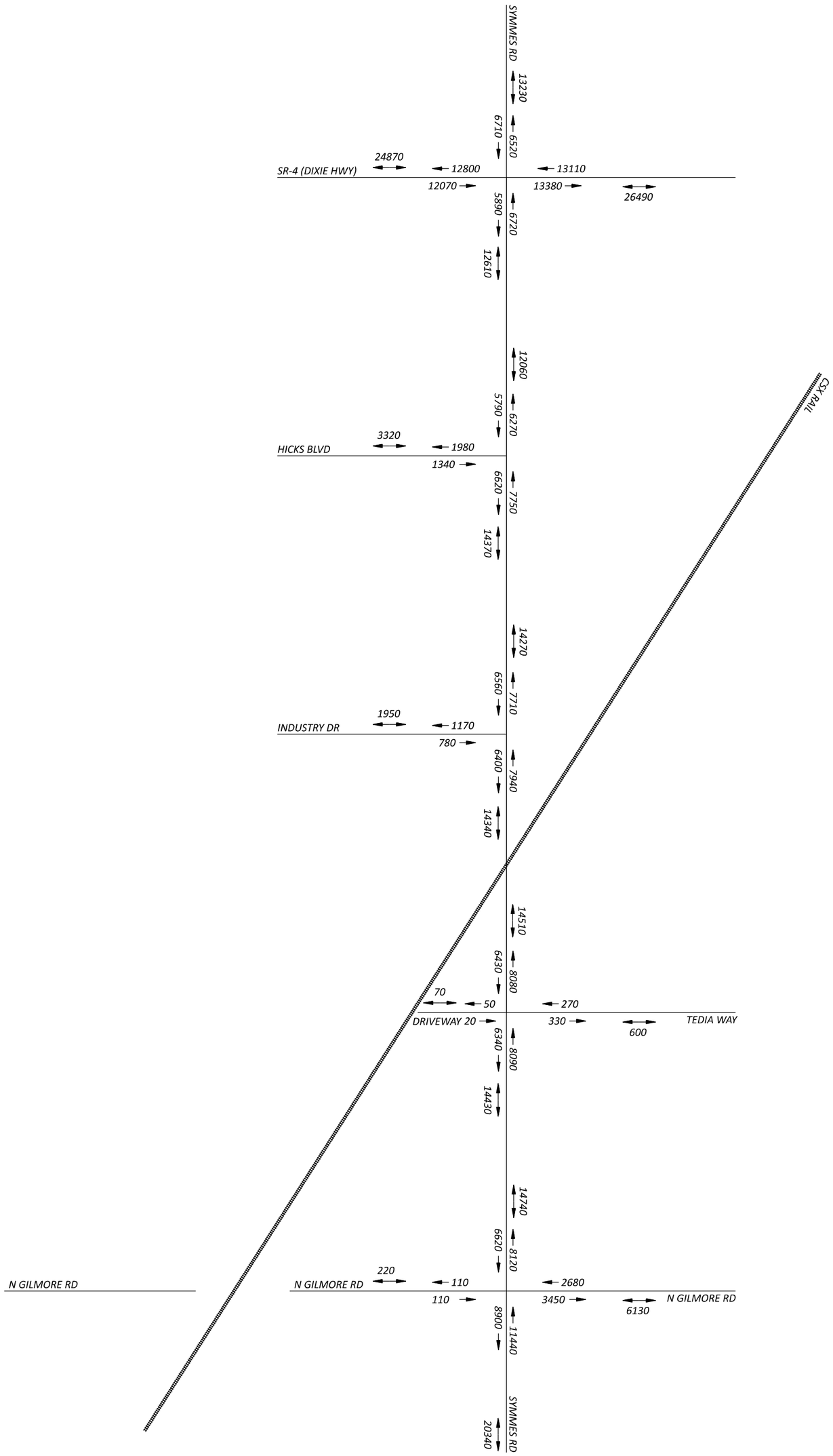


2048 NO BUILD ADTS
SYMMES ROAD RAIL CROSSING ELIMINATION PROJECT

ANALYST

DATE

NOT TO SCALE

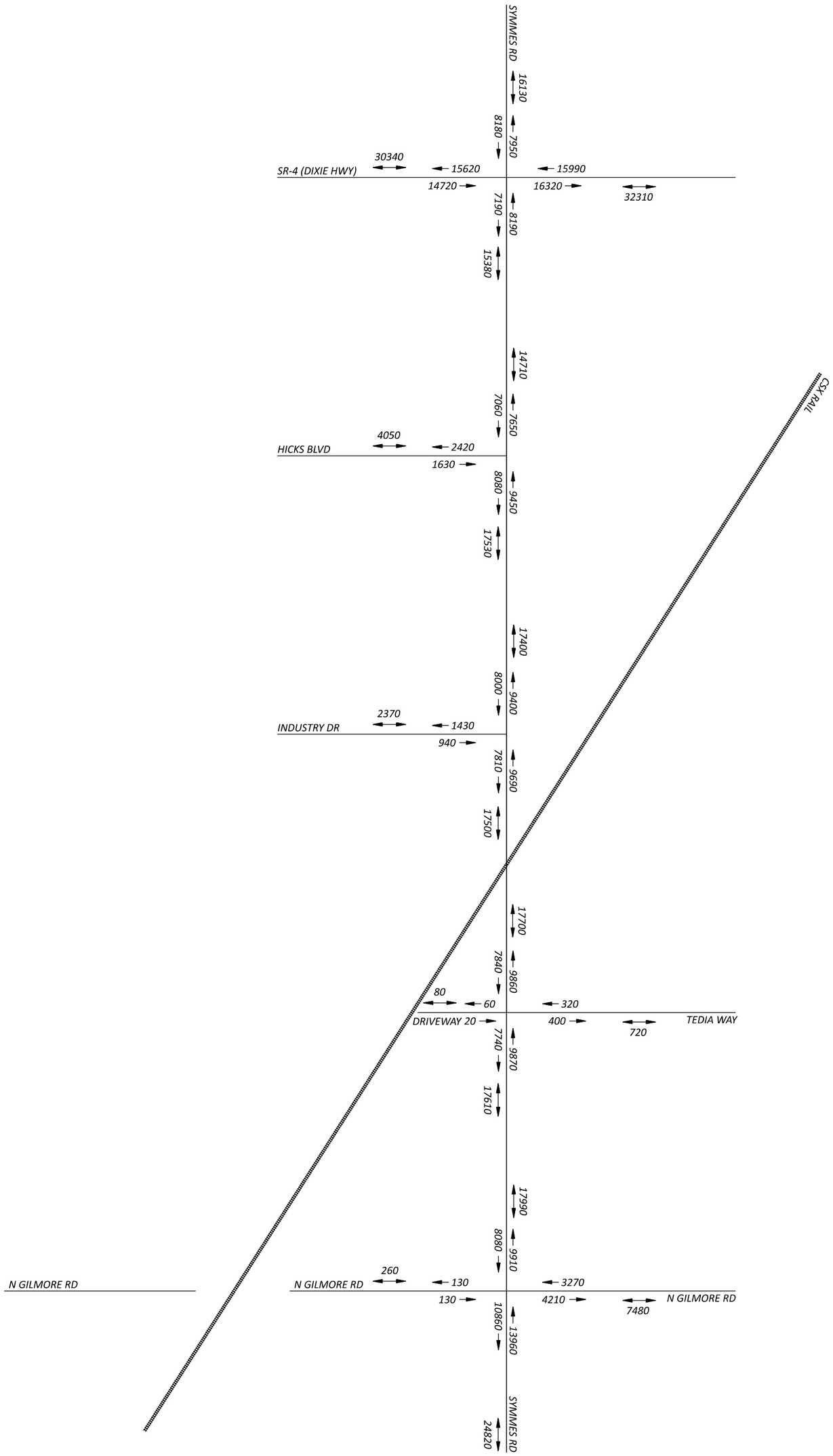


2028 BUILD ADTS
SYMMES ROAD RAIL CROSSING ELIMINATION PROJECT

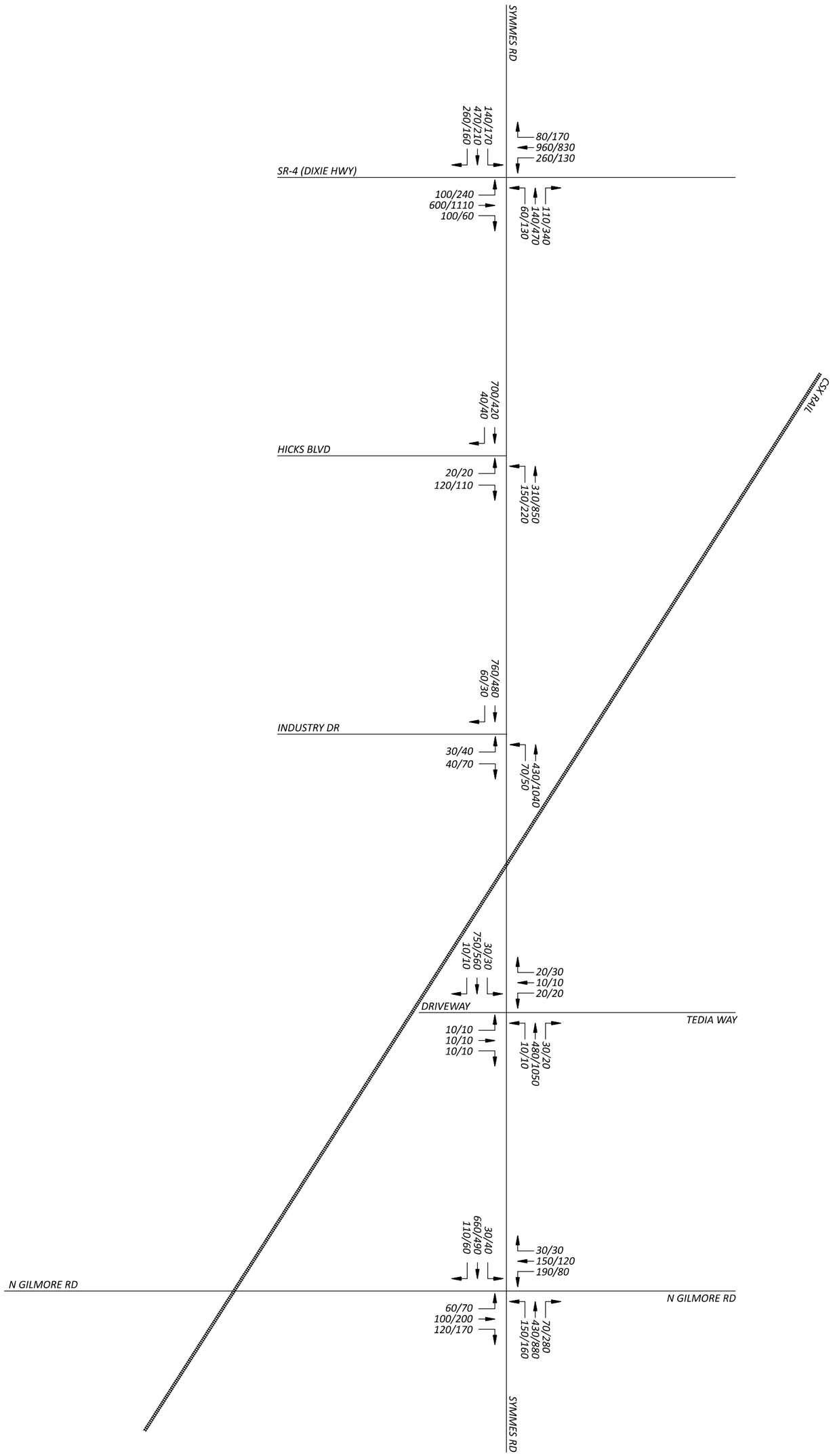
ANALYST

DATE

NOT TO SCALE



8 / 5	2048 BUILD ADTS SYMMES ROAD RAIL CROSSING ELIMINATION PROJECT	ANALYST DATE	NOT TO SCALE



8 | 9

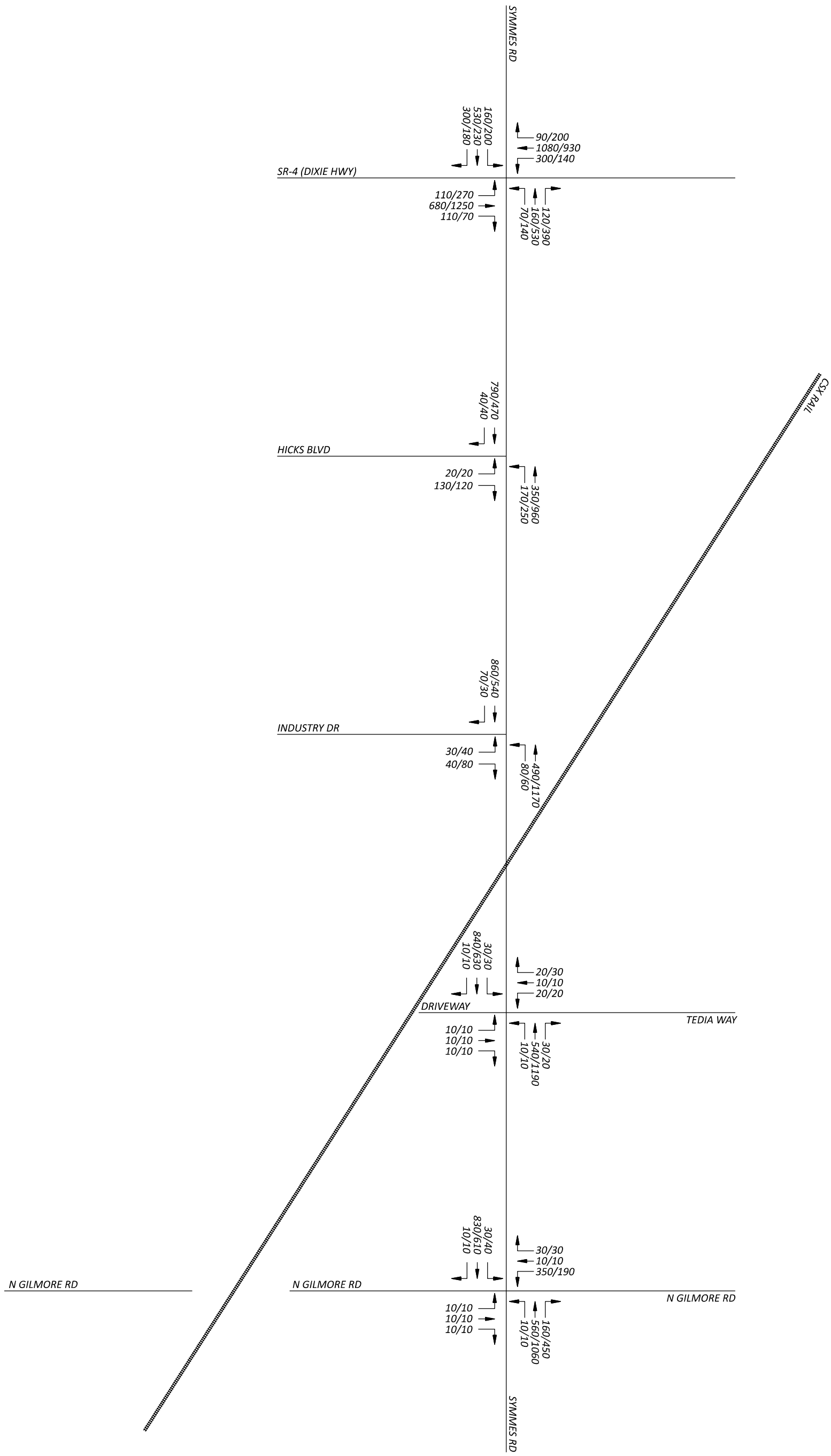
2048 NO BUILD DHVS (AM DHV/PM DHV)
SYMMES ROAD RAIL CROSSING ELIMINATION PROJECT

ANALYST

DATE

0

NOT TO SCALE

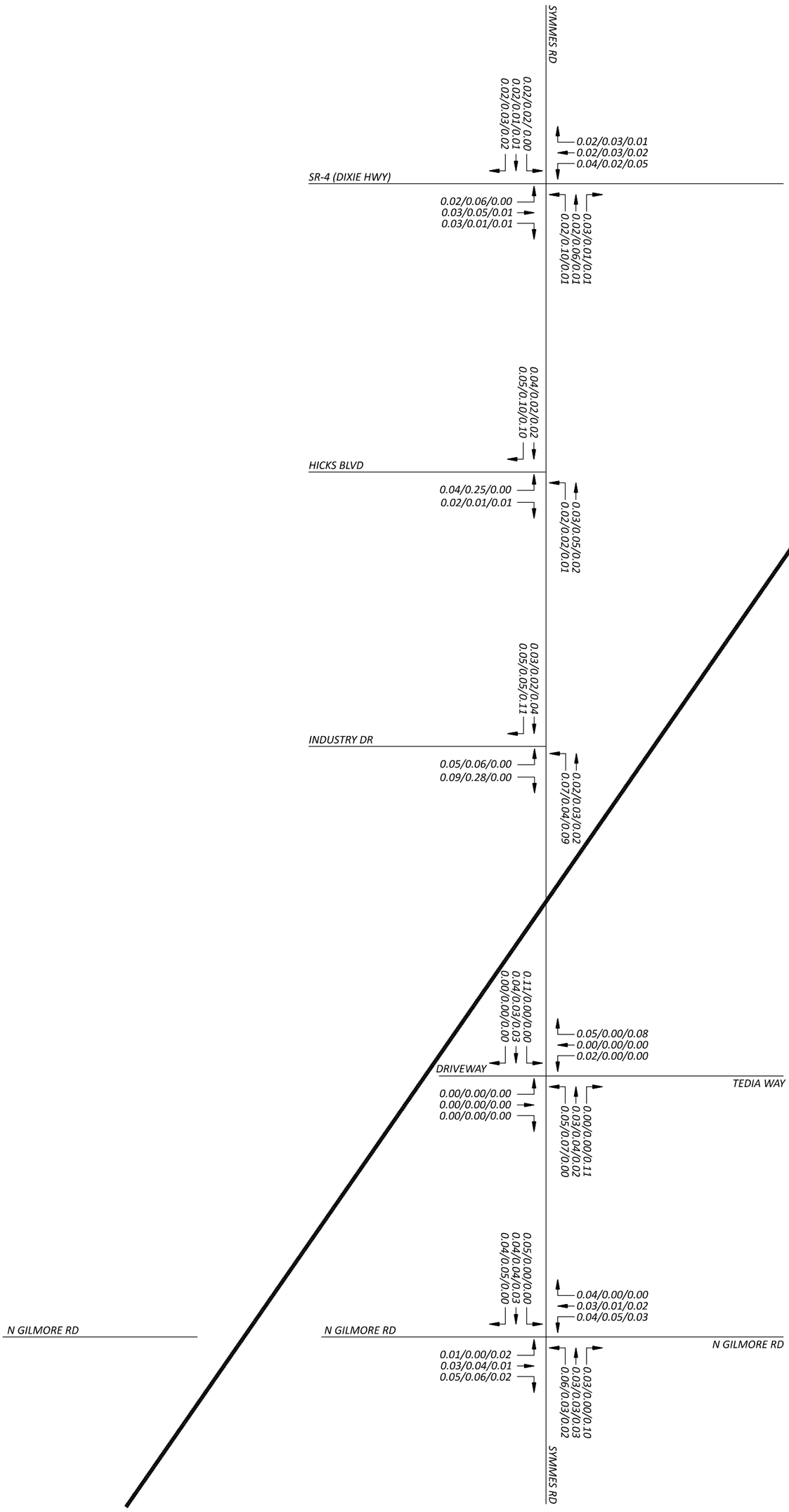


2048 BUILD DHVS (AM DHV/PM DHV)
SYMMES ROAD RAIL CROSSING ELIMINATION PROJECT

ANALYST

DATE

NOT TO SCALE



T24 / AM TD / PM TD

SYMMES ROAD RAIL CROSSING ELIMINATION PROJECT

ANALYST

DATE

NOT TO SCALE

Symmes Road & Hicks Boulevard - TMC

Thu May 9, 2024
Full Length (6 AM-9 AM, 2 PM-6 PM)
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182810, Location: 39.350295, -84.535269

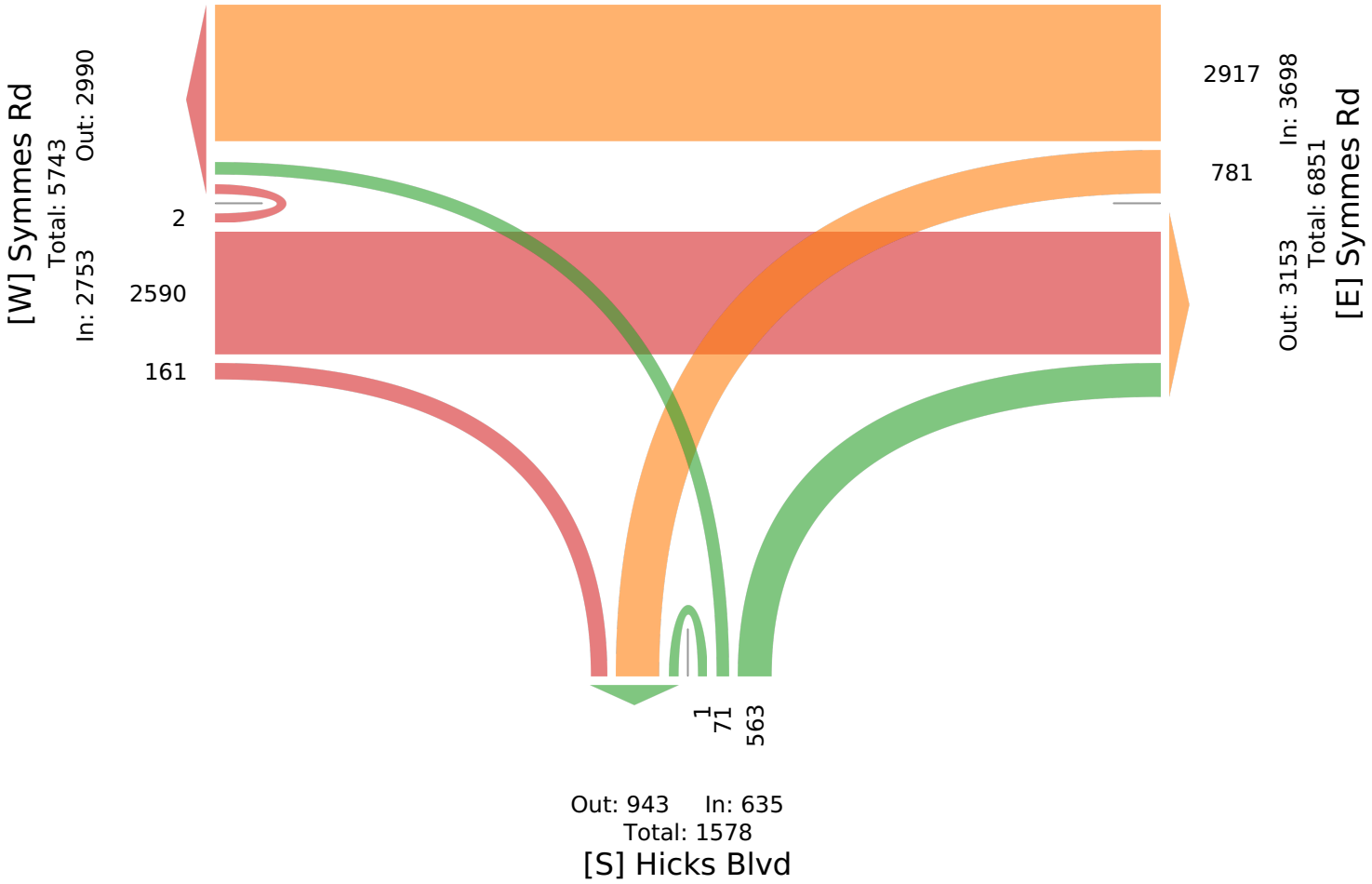
GEWALT HAMILTON ASSOCIATES, INC.
Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US

Leg Direction	Symmes Rd Westbound				Hicks Blvd Northbound				Symmes Rd Eastbound				
Time	T	L	U	**App**	R	L	U	**App**	R	T	U	**App**	**Int**
2024-05-09 6:00AM	15	1	0	**16**	7	1	0	**8**	7	66	0	**73**	**97**
6:15AM	24	5	0	**29**	12	1	0	**13**	13	87	0	**100**	**142**
6:30AM	27	11	0	**38**	25	1	0	**26**	2	125	0	**127**	**191**
6:45AM	44	18	0	**62**	15	0	0	**15**	14	138	0	**152**	**229**
Hourly Total	110	35	0	**145**	59	3	0	**62**	36	416	0	**452**	**659**
7:00AM	41	10	0	**51**	18	0	0	**18**	7	111	0	**118**	**187**
7:15AM	45	27	0	**72**	23	0	0	**23**	4	142	0	**146**	**241**
7:30AM	57	28	0	**85**	24	2	0	**26**	4	161	0	**165**	**276**
7:45AM	85	33	0	**118**	23	0	0	**23**	6	164	0	**170**	**311**
Hourly Total	228	98	0	**326**	88	2	0	**90**	21	578	0	**599**	**1015**
8:00AM	65	26	0	**91**	17	2	0	**19**	6	112	0	**118**	**228**
8:15AM	61	17	0	**78**	12	0	0	**12**	1	84	0	**85**	**175**
8:30AM	61	10	0	**71**	22	2	0	**24**	4	77	0	**81**	**176**
8:45AM	60	22	0	**82**	15	0	0	**15**	2	74	0	**76**	**173**
Hourly Total	247	75	0	**322**	66	4	0	**70**	13	347	0	**360**	**752**
2:00PM	74	24	0	**98**	24	5	0	**29**	11	93	0	**104**	**231**
2:15PM	113	21	0	**134**	19	2	0	**21**	4	84	0	**88**	**243**
2:30PM	177	33	0	**210**	25	1	0	**26**	1	97	0	**98**	**334**
2:45PM	147	28	0	**175**	14	3	0	**17**	3	80	0	**83**	**275**
Hourly Total	511	106	0	**617**	82	11	0	**93**	19	354	0	**373**	**1083**
3:00PM	141	30	0	**171**	21	1	0	**22**	5	79	0	**84**	**277**
3:15PM	163	37	0	**200**	21	5	0	**26**	6	78	0	**84**	**310**
3:30PM	60	23	0	**83**	20	10	1	**31**	15	70	2	**87**	**201**
3:45PM	192	44	0	**236**	15	0	0	**15**	8	68	0	**76**	**327**
Hourly Total	556	134	0	**690**	77	16	1	**94**	34	295	2	**331**	**1115**
4:00PM	177	42	0	**219**	22	1	0	**23**	6	87	0	**93**	**335**
4:15PM	157	46	0	**203**	15	3	0	**18**	6	82	0	**88**	**309**
4:30PM	176	43	0	**219**	23	1	0	**24**	3	79	0	**82**	**325**
4:45PM	183	46	0	**229**	19	3	0	**22**	5	89	0	**94**	**345**
Hourly Total	693	177	0	**870**	79	8	0	**87**	20	337	0	**357**	**1314**
5:00PM	156	33	0	**189**	27	7	0	**34**	6	61	0	**67**	**290**
5:15PM	163	50	0	**213**	24	3	0	**27**	4	62	0	**66**	**306**
5:30PM	124	38	0	**162**	35	3	0	**38**	2	73	0	**75**	**275**
5:45PM	129	35	0	**164**	26	14	0	**40**	6	67	0	**73**	**277**
Hourly Total	572	156	0	**728**	112	27	0	**139**	18	263	0	**281**	**1148**
Total	2917	781	0	**3698**	563	71	1	**635**	161	2590	2	**2753**	**7086**
% Approach	78.9%	21.1%	0%	**-**	88.7%	11.2%	0.2%	**-**	5.8%	94.1%	0.1%	**-**	-
% Total	41.2%	11.0%	0%	**52.2%**	7.9%	1.0%	0%	**9.0%**	2.3%	36.6%	0%	**38.9%**	-
Lights	2840	769	0	**3609**	554	68	1	**623**	153	2496	2	**2651**	6883
% Lights	97.4%	98.5%	0%	**97.6%**	98.4%	95.8%	100%	**98.1%**	95.0%	96.4%	100%	**96.3%**	97.1%
Articulated Trucks	26	1	0	**27**	0	0	0	**0**	2	34	0	**36**	63
% Articulated Trucks	0.9%	0.1%	0%	**0.7%**	0%	0%	0%	**0%**	1.2%	1.3%	0%	**1.3%**	0.9%
Buses and Single-Unit Trucks	51	11	0	**62**	9	3	0	**12**	6	60	0	**66**	140
% Buses and Single-Unit Trucks	1.7%	1.4%	0%	**1.7%**	1.6%	4.2%	0%	**1.9%**	3.7%	2.3%	0%	**2.4%**	2.0%

*L: Left, R: Right, T: Thru, U: U-Turn

Symmes Road & Hicks Boulevard - TMC
Thu May 9, 2024
Full Length (6 AM-9 AM, 2 PM-6 PM)
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182810, Location: 39.350295, -84.535269

Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US



Symmes Road & Hicks Boulevard - TMC

Thu May 9, 2024
AM Peak (7:15 AM - 8:15 AM)
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182810, Location: 39.350295, -84.535269

GEWALT HAMILTON ASSOCIATES, INC.
Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US

Leg Direction	Symmes Rd Westbound				Hicks Blvd Northbound				Symmes Rd Eastbound				
Time	T	L	U	**App**	R	L	U	**App**	R	T	U	**App**	**Int**
2024-05-09 7:15AM	45	27	0	**72**	23	0	0	**23**	4	142	0	**146**	**241**
7:30AM	57	28	0	**85**	24	2	0	**26**	4	161	0	**165**	**276**
7:45AM	85	33	0	**118**	23	0	0	**23**	6	164	0	**170**	**311**
8:00AM	65	26	0	**91**	17	2	0	**19**	6	112	0	**118**	**228**
Total	252	114	0	**366**	87	4	0	**91**	20	579	0	**599**	**1056**
% Approach	68.9%	31.1%	0%	**-**	95.6%	4.4%	0%	**-**	3.3%	96.7%	0%	**-**	-
% Total	23.9%	10.8%	0%	**34.7%**	8.2%	0.4%	0%	**8.6%**	1.9%	54.8%	0%	**56.7%**	-
PHF	0.741	0.864	-	**0.775**	0.906	0.500	-	**0.875**	0.833	0.883	-	**0.881**	0.849
Lights	240	112	0	**352**	86	3	0	**89**	18	568	0	**586**	1027
% Lights	95.2%	98.2%	0%	**96.2%**	98.9%	75.0%	0%	**97.8%**	90.0%	98.1%	0%	**97.8%**	97.3%
Articulated Trucks	4	0	0	**4**	0	0	0	**0**	2	1	0	**3**	7
% Articulated Trucks	1.6%	0%	0%	**1.1%**	0%	0%	0%	**0%**	10.0%	0.2%	0%	**0.5%**	0.7%
Buses and Single-Unit Trucks	8	2	0	**10**	1	1	0	**2**	0	10	0	**10**	22
% Buses and Single-Unit Trucks	3.2%	1.8%	0%	**2.7%**	1.1%	25.0%	0%	**2.2%**	0%	1.7%	0%	**1.7%**	2.1%

*L: Left, R: Right, T: Thru, U: U-Turn

Symmes Road & Hicks Boulevard - TMC
Thu May 9, 2024
AM Peak (7:15 AM - 8:15 AM)
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182810, Location: 39.350295, -84.535269

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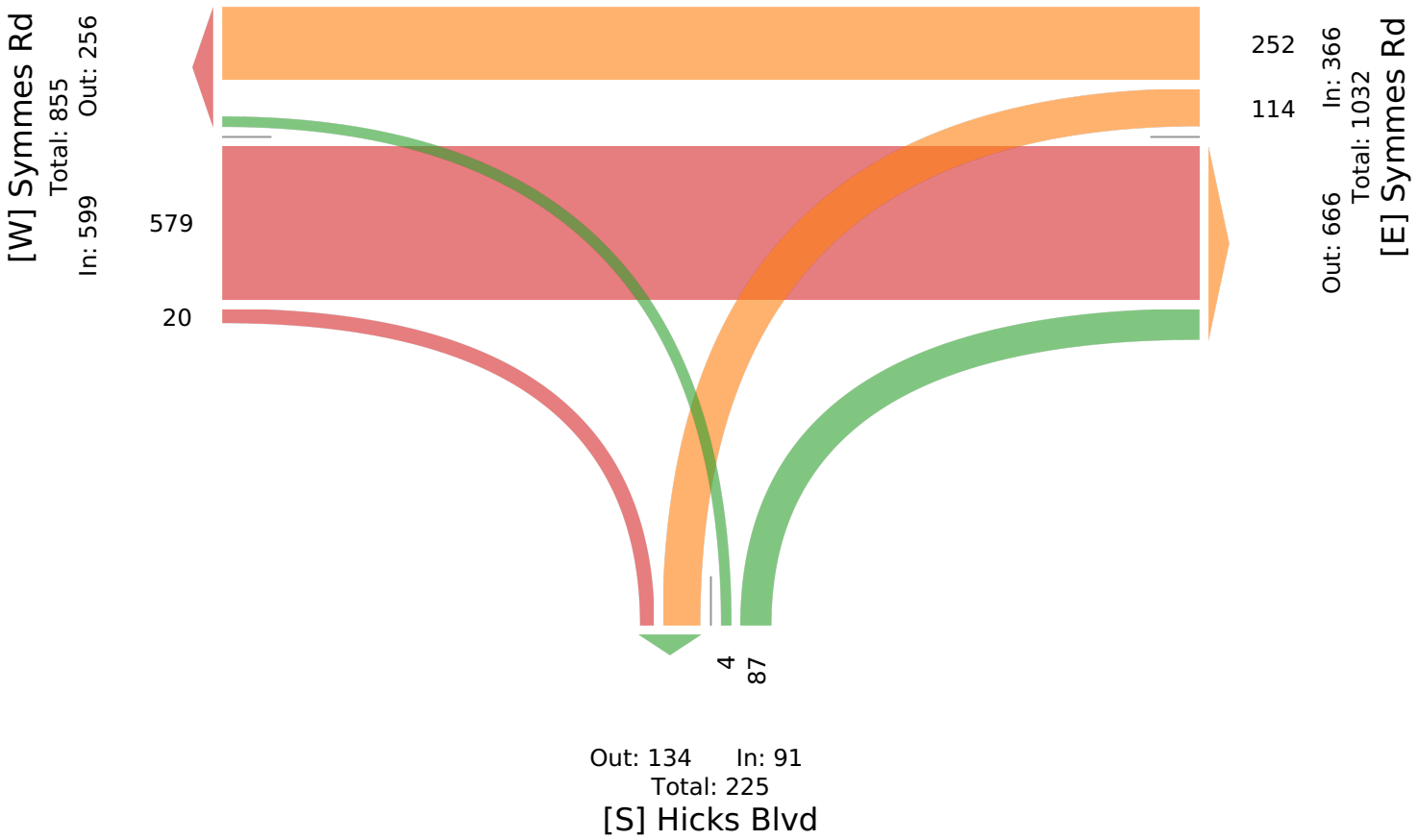


Symmes Road & Hicks Boulevard - TMC

Thu May 9, 2024
PM Peak (4 PM - 5 PM) - Overall Peak Hour
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182810, Location: 39.350295, -84.535269

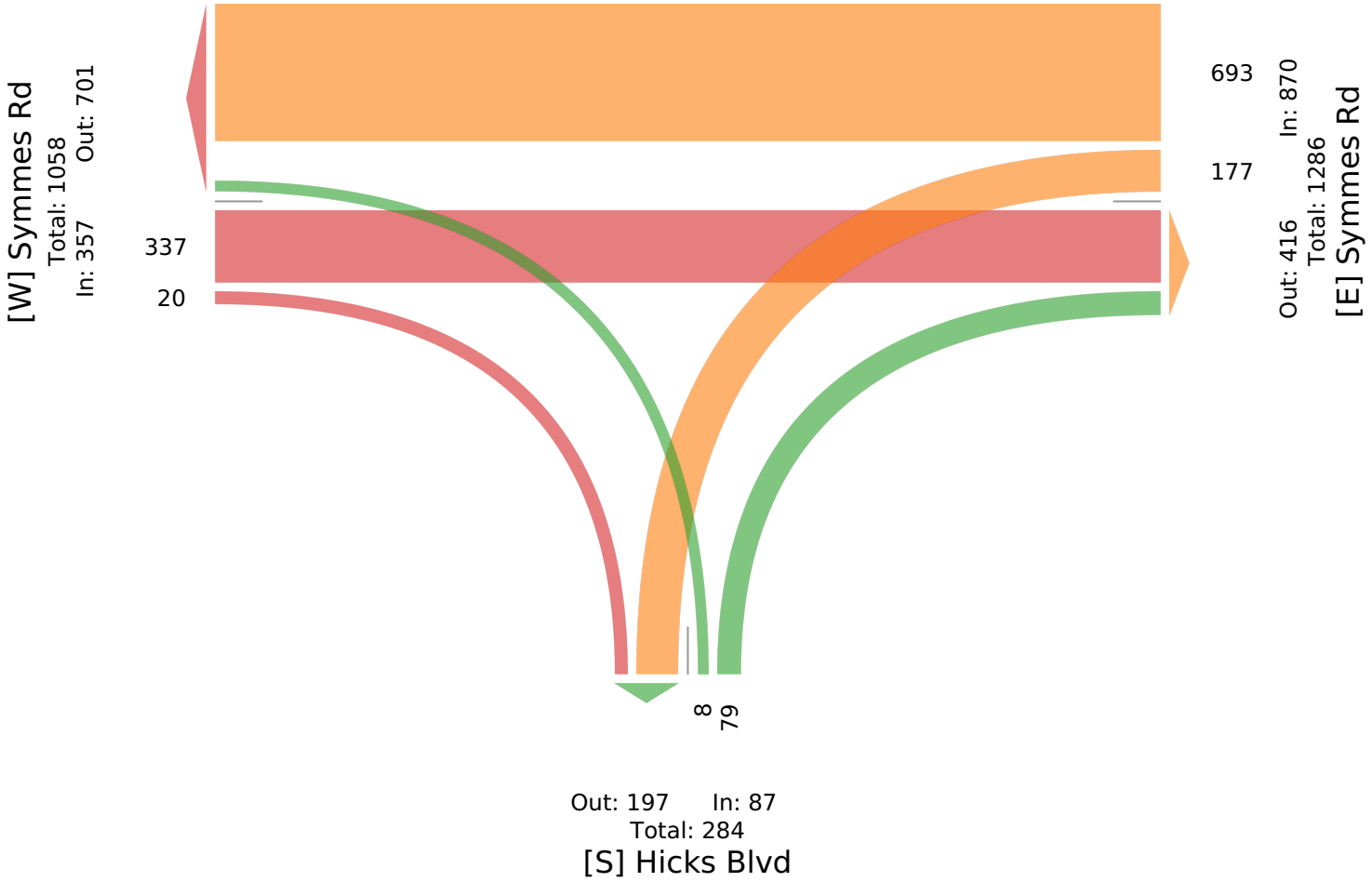
GEWALT HAMILTON ASSOCIATES, INC.
Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US

Leg Direction	Symmes Rd Westbound				Hicks Blvd Northbound				Symmes Rd Eastbound				
Time	T	L	U	**App**	R	L	U	**App**	R	T	U	**App**	**Int**
2024-05-09 4:00PM	177	42	0	**219**	22	1	0	**23**	6	87	0	**93**	**335**
4:15PM	157	46	0	**203**	15	3	0	**18**	6	82	0	**88**	**309**
4:30PM	176	43	0	**219**	23	1	0	**24**	3	79	0	**82**	**325**
4:45PM	183	46	0	**229**	19	3	0	**22**	5	89	0	**94**	**345**
Total	693	177	0	**870**	79	8	0	**87**	20	337	0	**357**	**1314**
% Approach	79.7%	20.3%	0%	**-**	90.8%	9.2%	0%	**-**	5.6%	94.4%	0%	**-**	-
% Total	52.7%	13.5%	0%	**66.2%**	6.0%	0.6%	0%	**6.6%**	1.5%	25.6%	0%	**27.2%**	-
PHF	0.947	0.962	-	**0.950**	0.859	0.667	-	**0.906**	0.833	0.947	-	**0.949**	0.952
Lights	679	176	0	**855**	78	8	0	**86**	18	330	0	**348**	1289
% Lights	98.0%	99.4%	0%	**98.3%**	98.7%	100%	0%	**98.9%**	90.0%	97.9%	0%	**97.5%**	98.1%
Articulated Trucks	2	0	0	**2**	0	0	0	**0**	0	3	0	**3**	5
% Articulated Trucks	0.3%	0%	0%	**0.2%**	0%	0%	0%	**0%**	0%	0.9%	0%	**0.8%**	0.4%
Buses and Single-Unit Trucks	12	1	0	**13**	1	0	0	**1**	2	4	0	**6**	20
% Buses and Single-Unit Trucks	1.7%	0.6%	0%	**1.5%**	1.3%	0%	0%	**1.1%**	10.0%	1.2%	0%	**1.7%**	1.5%

*L: Left, R: Right, T: Thru, U: U-Turn

Symmes Road & Hicks Boulevard - TMC
Thu May 9, 2024
PM Peak (4 PM - 5 PM) - Overall Peak Hour
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182810, Location: 39.350295, -84.535269

Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US



Symmes Road & Industry Drive - TMC

Thu May 9, 2024
Full Length (6 AM-9 AM, 2 PM-6 PM)
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182811, Location: 39.349296, -84.531063

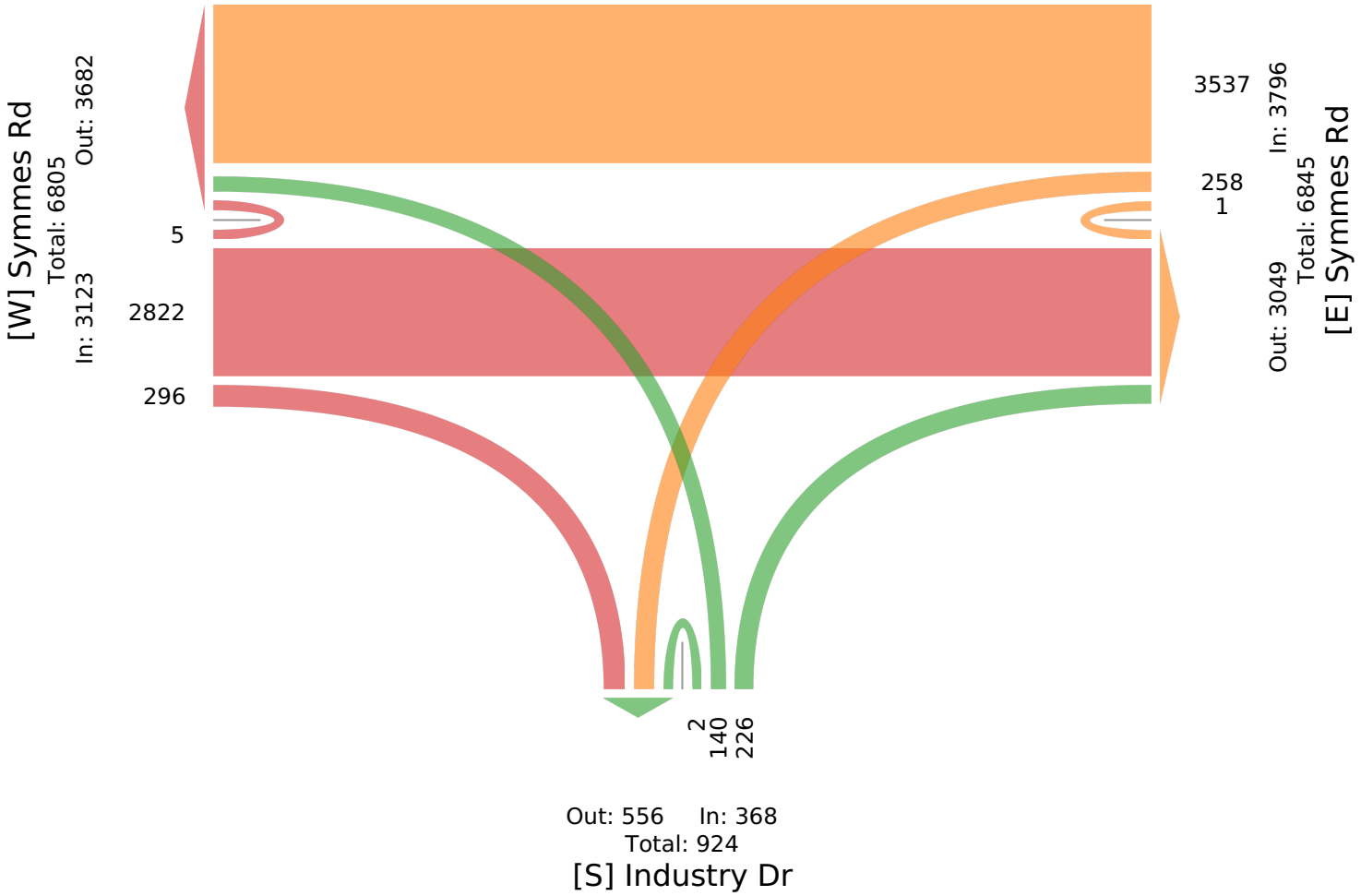
GEWALT HAMILTON ASSOCIATES, INC.
Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US

Leg Direction	Symmes Rd Westbound				Industry Dr Northbound				Symmes Rd Eastbound				
Time	T	L	U	**App**	R	L	U	**App**	R	T	U	**App**	**Int**
2024-05-09 6:00AM	6	14	0	**20**	1	4	0	**5**	56	6	4	**66**	**91**
6:15AM	25	6	0	**31**	8	3	1	**12**	29	65	1	**95**	**138**
6:30AM	35	4	0	**39**	2	1	0	**3**	9	141	0	**150**	**192**
6:45AM	59	16	0	**75**	5	3	0	**8**	15	138	0	**153**	**236**
Hourly Total	125	40	0	**165**	16	11	1	**28**	109	350	5	**464**	**657**
7:00AM	50	10	0	**60**	6	0	0	**6**	9	123	0	**132**	**198**
7:15AM	68	10	0	**78**	7	2	0	**9**	9	151	0	**160**	**247**
7:30AM	87	15	0	**102**	5	4	0	**9**	17	169	0	**186**	**297**
7:45AM	112	14	0	**126**	8	3	0	**11**	10	182	0	**192**	**329**
Hourly Total	317	49	0	**366**	26	9	0	**35**	45	625	0	**670**	**1071**
8:00AM	84	8	0	**92**	5	7	0	**12**	7	119	0	**126**	**230**
8:15AM	71	10	1	**82**	0	5	0	**5**	7	90	0	**97**	**184**
8:30AM	69	10	0	**79**	5	1	0	**6**	5	91	0	**96**	**181**
8:45AM	80	13	0	**93**	6	5	0	**11**	7	80	0	**87**	**191**
Hourly Total	304	41	1	**346**	16	18	0	**34**	26	380	0	**406**	**786**
2:00PM	89	7	0	**96**	4	6	0	**10**	12	100	0	**112**	**218**
2:15PM	120	9	0	**129**	14	6	0	**20**	10	98	0	**108**	**257**
2:30PM	203	9	0	**212**	15	10	0	**25**	7	114	0	**121**	**358**
2:45PM	164	4	0	**168**	10	2	0	**12**	7	92	0	**99**	**279**
Hourly Total	576	29	0	**605**	43	24	0	**67**	36	404	0	**440**	**1112**
3:00PM	176	6	0	**182**	12	4	0	**16**	7	87	0	**94**	**292**
3:15PM	186	7	0	**193**	5	8	0	**13**	8	86	0	**94**	**300**
3:30PM	67	10	0	**77**	14	8	1	**23**	15	53	0	**68**	**168**
3:45PM	236	6	0	**242**	8	7	0	**15**	1	99	0	**100**	**357**
Hourly Total	665	29	0	**694**	39	27	1	**67**	31	325	0	**356**	**1117**
4:00PM	216	6	0	**222**	15	6	0	**21**	3	93	0	**96**	**339**
4:15PM	193	17	0	**210**	16	7	0	**23**	9	100	0	**109**	**342**
4:30PM	211	4	0	**215**	9	8	0	**17**	5	98	0	**103**	**335**
4:45PM	219	9	0	**228**	7	6	0	**13**	9	98	0	**107**	**348**
Hourly Total	839	36	0	**875**	47	27	0	**74**	26	389	0	**415**	**1364**
5:00PM	181	6	0	**187**	12	8	0	**20**	10	80	0	**90**	**297**
5:15PM	210	15	0	**225**	6	6	0	**12**	4	79	0	**83**	**320**
5:30PM	158	6	0	**164**	9	5	0	**14**	1	106	0	**107**	**285**
5:45PM	162	7	0	**169**	12	5	0	**17**	8	84	0	**92**	**278**
Hourly Total	711	34	0	**745**	39	24	0	**63**	23	349	0	**372**	**1180**
Total	3537	258	1	**3796**	226	140	2	**368**	296	2822	5	**3123**	**7287**
% Approach	93.2%	6.8%	0%	**-**	61.4%	38.0%	0.5%	**-**	9.5%	90.4%	0.2%	**-**	-
% Total	48.5%	3.5%	0%	**52.1%**	3.1%	1.9%	0%	**5.1%**	4.1%	38.7%	0.1%	**42.9%**	-
Lights	3458	240	1	**3699**	207	133	2	**342**	282	2729	5	**3016**	7057
% Lights	97.8%	93.0%	100%	**97.4%**	91.6%	95.0%	100%	**92.9%**	95.3%	96.7%	100%	**96.6%**	96.8%
Articulated Trucks	26	1	0	**27**	6	0	0	**6**	2	35	0	**37**	70
% Articulated Trucks	0.7%	0.4%	0%	**0.7%**	2.7%	0%	0%	**1.6%**	0.7%	1.2%	0%	**1.2%**	1.0%
Buses and Single-Unit Trucks	53	17	0	**70**	13	7	0	**20**	12	58	0	**70**	160
% Buses and Single-Unit Trucks	1.5%	6.6%	0%	**1.8%**	5.8%	5.0%	0%	**5.4%**	4.1%	2.1%	0%	**2.2%**	2.2%

*L: Left, R: Right, T: Thru, U: U-Turn

Symmes Road & Industry Drive - TMC
Thu May 9, 2024
Full Length (6 AM-9 AM, 2 PM-6 PM)
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182811, Location: 39.349296, -84.531063

Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US



Symmes Road & Industry Drive - TMC

Thu May 9, 2024
AM Peak (7:15 AM - 8:15 AM)
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182811, Location: 39.349296, -84.531063

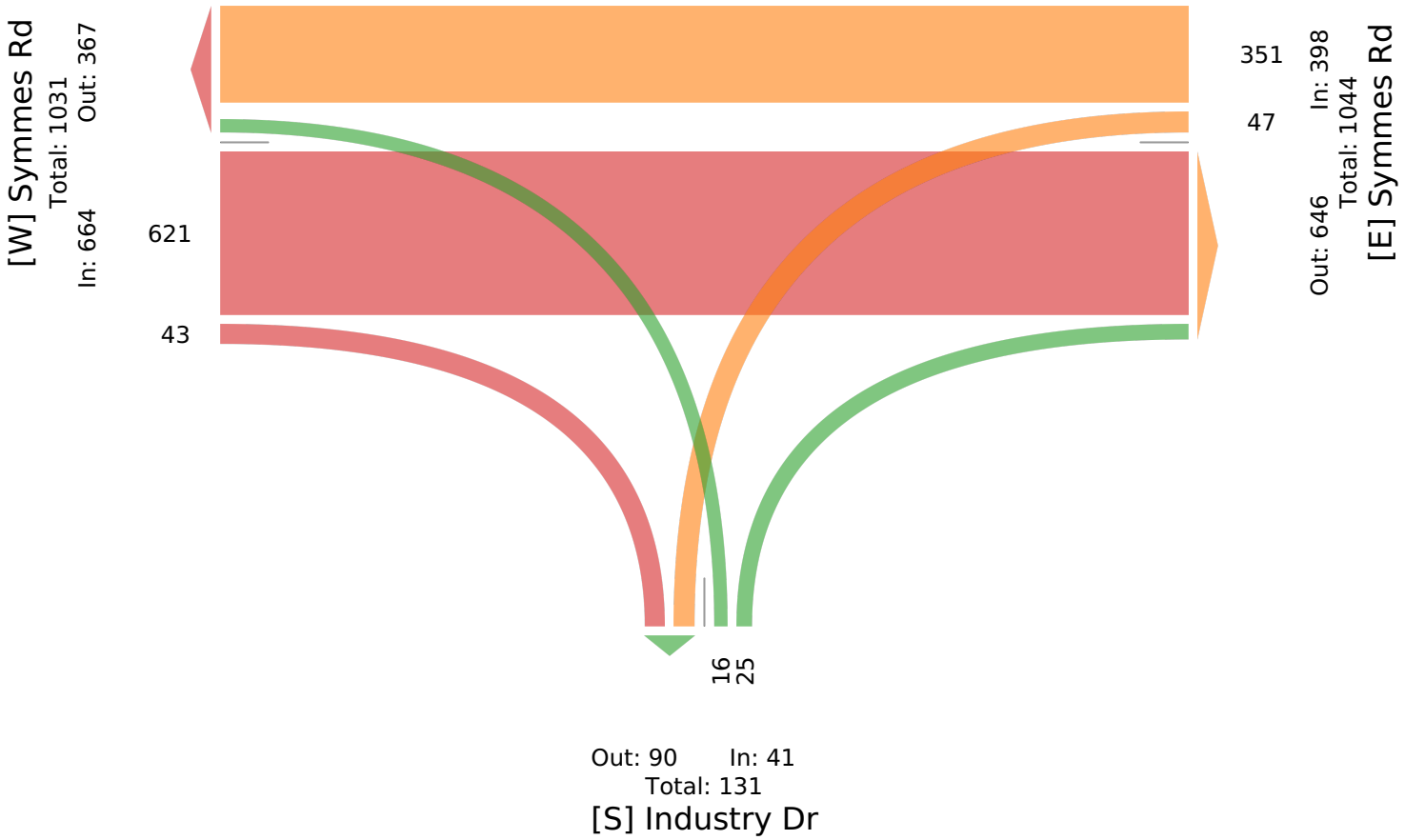
GEWALT HAMILTON ASSOCIATES, INC.
Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US

Leg Direction	Symmes Rd Westbound				Industry Dr Northbound				Symmes Rd Eastbound				
Time	T	L	U	**App**	R	L	U	**App**	R	T	U	**App**	**Int**
2024-05-09 7:15AM	68	10	0	**78**	7	2	0	**9**	9	151	0	**160**	**247**
7:30AM	87	15	0	**102**	5	4	0	**9**	17	169	0	**186**	**297**
7:45AM	112	14	0	**126**	8	3	0	**11**	10	182	0	**192**	**329**
8:00AM	84	8	0	**92**	5	7	0	**12**	7	119	0	**126**	**230**
Total	351	47	0	**398**	25	16	0	**41**	43	621	0	**664**	**1103**
% Approach	88.2%	11.8%	0%	**-**	61.0%	39.0%	0%	**-**	6.5%	93.5%	0%	**-**	-
% Total	31.8%	4.3%	0%	**36.1%**	2.3%	1.5%	0%	**3.7%**	3.9%	56.3%	0%	**60.2%**	-
PHF	0.783	0.783	-	**0.790**	0.781	0.571	-	**0.854**	0.632	0.853	-	**0.865**	0.838
Lights	340	45	0	**385**	18	15	0	**33**	41	610	0	**651**	1069
% Lights	96.9%	95.7%	0%	**96.7%**	72.0%	93.8%	0%	**80.5%**	95.3%	98.2%	0%	**98.0%**	96.9%
Articulated Trucks	3	0	0	**3**	3	0	0	**3**	0	1	0	**1**	7
% Articulated Trucks	0.9%	0%	0%	**0.8%**	12.0%	0%	0%	**7.3%**	0%	0.2%	0%	**0.2%**	0.6%
Buses and Single-Unit Trucks	8	2	0	**10**	4	1	0	**5**	2	10	0	**12**	27
% Buses and Single-Unit Trucks	2.3%	4.3%	0%	**2.5%**	16.0%	6.3%	0%	**12.2%**	4.7%	1.6%	0%	**1.8%**	2.4%

*L: Left, R: Right, T: Thru, U: U-Turn

Symmes Road & Industry Drive - TMC
Thu May 9, 2024
AM Peak (7:15 AM - 8:15 AM)
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182811, Location: 39.349296, -84.531063

Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US



Symmes Road & Industry Drive - TMC

Thu May 9, 2024
PM Peak (3:45 PM - 4:45 PM) - Overall Peak Hour
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182811, Location: 39.349296, -84.531063

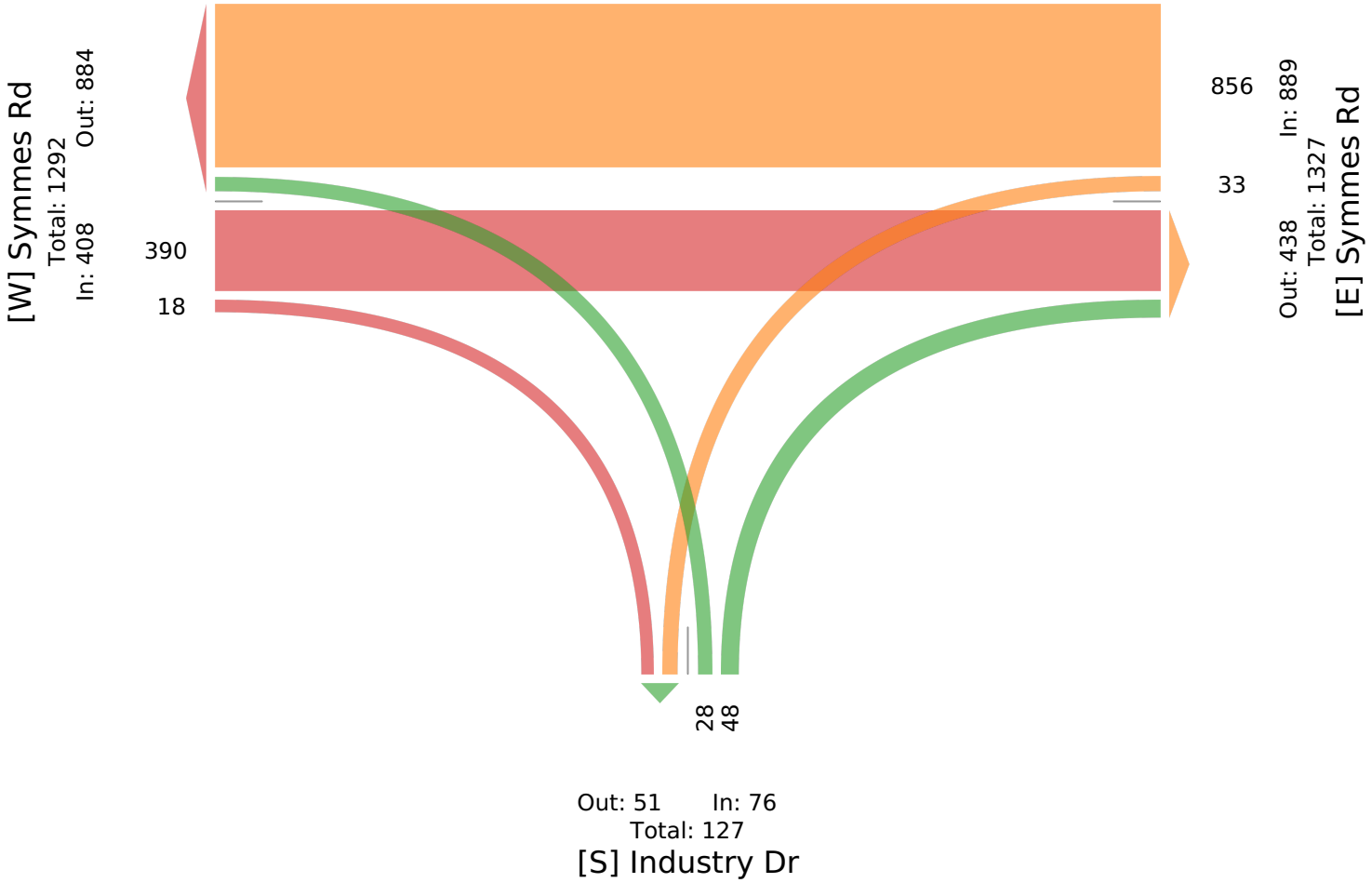
GEWALT HAMILTON ASSOCIATES, INC.
Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US

Leg Direction	Symmes Rd Westbound				Industry Dr Northbound				Symmes Rd Eastbound				
Time	T	L	U	**App**	R	L	U	**App**	R	T	U	**App**	**Int**
2024-05-09 3:45PM	236	6	0	**242**	8	7	0	**15**	1	99	0	**100**	**357**
4:00PM	216	6	0	**222**	15	6	0	**21**	3	93	0	**96**	**339**
4:15PM	193	17	0	**210**	16	7	0	**23**	9	100	0	**109**	**342**
4:30PM	211	4	0	**215**	9	8	0	**17**	5	98	0	**103**	**335**
Total	856	33	0	**889**	48	28	0	**76**	18	390	0	**408**	**1373**
% Approach	96.3%	3.7%	0%	**-**	63.2%	36.8%	0%	**-**	4.4%	95.6%	0%	**-**	-
% Total	62.3%	2.4%	0%	**64.7%**	3.5%	2.0%	0%	**5.5%**	1.3%	28.4%	0%	**29.7%**	-
PHF	0.907	0.485	-	**0.918**	0.750	0.875	-	**0.826**	0.500	0.975	-	**0.936**	0.961
Lights	843	30	0	**873**	48	28	0	**76**	16	376	0	**392**	1341
% Lights	98.5%	90.9%	0%	**98.2%**	100%	100%	0%	**100%**	88.9%	96.4%	0%	**96.1%**	97.7%
Articulated Trucks	3	0	0	**3**	0	0	0	**0**	0	6	0	**6**	9
% Articulated Trucks	0.4%	0%	0%	**0.3%**	0%	0%	0%	**0%**	0%	1.5%	0%	**1.5%**	0.7%
Buses and Single-Unit Trucks	10	3	0	**13**	0	0	0	**0**	2	8	0	**10**	23
% Buses and Single-Unit Trucks	1.2%	9.1%	0%	**1.5%**	0%	0%	0%	**0%**	11.1%	2.1%	0%	**2.5%**	1.7%

*L: Left, R: Right, T: Thru, U: U-Turn

Symmes Road & Industry Drive - TMC
Thu May 9, 2024
PM Peak (3:45 PM - 4:45 PM) - Overall Peak Hour
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182811, Location: 39.349296, -84.531063

Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US



Symmes Road & N Gilmore Road - TMC

Thu May 9, 2024
Full Length (6 AM-9 AM, 2 PM-6 PM)
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182813, Location: 39.346831, -84.520115

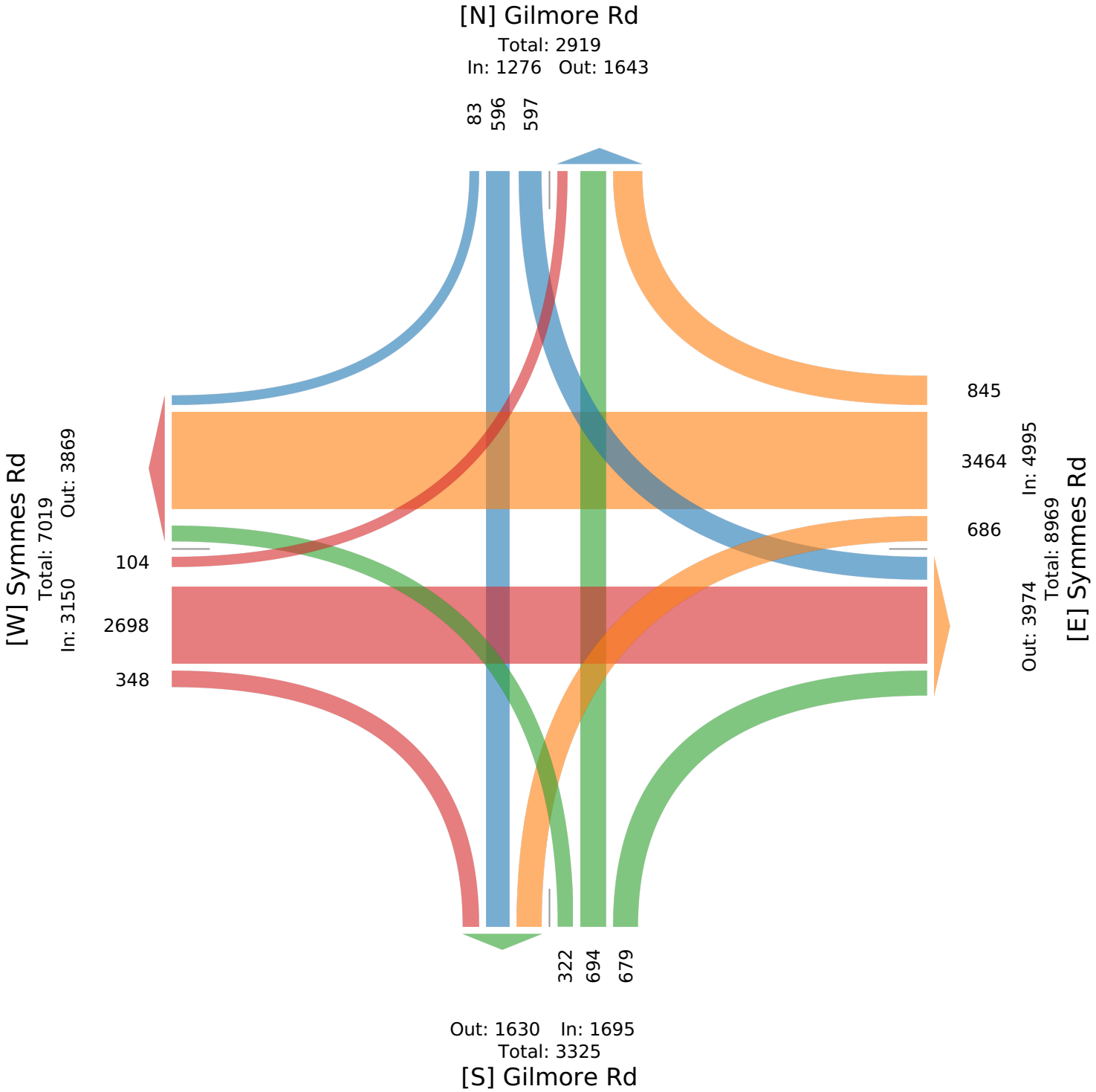
GEWALT HAMILTON ASSOCIATES, INC.
Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US

Leg	Gilmore Rd					Symmes Rd					Gilmore Rd					Symmes Rd					
Direction	Southbound					Westbound					Northbound					Eastbound					
Time	R	T	L	U	App	R	T	L	U	App	R	T	L	U	App	R	T	L	U	App	Int
2024-05-09 6:00AM	3	12	20	0	**35**	3	41	12	0	**56**	53	12	13	0	**78**	21	5	5	0	**31**	**200**
6:15AM	1	14	35	0	**50**	9	34	14	0	**57**	45	12	4	0	**61**	17	41	1	0	**59**	**227**
6:30AM	2	33	37	0	**72**	9	51	14	0	**74**	6	4	9	0	**19**	13	117	1	0	**131**	**296**
6:45AM	2	30	31	0	**63**	18	84	50	0	**152**	28	16	7	0	**51**	17	120	3	0	**140**	**406**
Hourly Total	8	89	123	0	**220**	39	210	90	0	**339**	132	44	33	0	**209**	68	283	10	0	**361**	**1129**
7:00AM	2	36	28	0	**66**	15	68	44	0	**127**	24	14	2	0	**40**	10	112	6	0	**128**	**361**
7:15AM	1	22	34	0	**57**	15	81	24	0	**120**	25	18	6	0	**49**	13	122	2	0	**137**	**363**
7:30AM	2	26	50	0	**78**	9	96	19	0	**124**	12	13	9	0	**34**	20	145	2	0	**167**	**403**
7:45AM	8	34	33	0	**75**	15	106	34	0	**155**	24	26	25	0	**75**	37	162	2	0	**201**	**506**
Hourly Total	13	118	145	0	**276**	54	351	121	0	**526**	85	71	42	0	**198**	80	541	12	0	**633**	**1633**
8:00AM	3	16	28	0	**47**	15	88	16	0	**119**	26	15	13	0	**54**	10	110	2	0	**122**	**342**
8:15AM	1	16	12	0	**29**	16	82	10	0	**108**	3	11	6	0	**20**	9	85	3	0	**97**	**254**
8:30AM	3	19	9	0	**31**	13	70	15	0	**98**	8	15	8	0	**31**	6	93	3	0	**102**	**262**
8:45AM	6	20	17	0	**43**	10	88	10	0	**108**	12	8	7	0	**27**	5	68	3	0	**76**	**254**
Hourly Total	13	71	66	0	**150**	54	328	51	0	**433**	49	49	34	0	**132**	30	356	11	0	**397**	**1112**
2:00PM	5	23	20	0	**48**	31	84	24	0	**139**	14	13	7	0	**34**	10	79	2	0	**91**	**312**
2:15PM	3	23	19	0	**45**	33	133	24	0	**190**	16	18	9	0	**43**	8	80	4	0	**92**	**370**
2:30PM	3	18	26	0	**47**	28	132	34	0	**194**	28	37	25	0	**90**	25	137	10	0	**172**	**503**
2:45PM	3	26	21	0	**50**	48	153	29	0	**230**	36	41	22	0	**99**	13	88	2	0	**103**	**482**
Hourly Total	14	90	86	0	**190**	140	502	111	0	**753**	94	109	63	0	**266**	56	384	18	0	**458**	**1667**
3:00PM	0	20	16	0	**36**	39	152	15	0	**206**	35	34	12	0	**81**	8	110	1	0	**119**	**442**
3:15PM	1	14	17	0	**32**	49	177	37	0	**263**	32	25	19	0	**76**	11	77	9	0	**97**	**468**
3:30PM	3	24	24	0	**51**	68	156	27	0	**251**	12	21	9	0	**42**	8	80	7	0	**95**	**439**
3:45PM	3	18	12	0	**33**	89	167	45	0	**301**	39	38	8	0	**85**	20	95	4	0	**119**	**538**
Hourly Total	7	76	69	0	**152**	245	652	124	0	**1021**	118	118	48	0	**284**	47	362	21	0	**430**	**1887**
4:00PM	5	29	11	0	**45**	42	179	15	0	**236**	36	47	19	0	**102**	12	88	10	0	**110**	**493**
4:15PM	5	22	24	0	**51**	45	195	31	0	**271**	26	26	9	0	**61**	7	111	5	0	**123**	**506**
4:30PM	3	17	15	0	**35**	44	182	33	0	**259**	30	39	19	0	**88**	7	104	5	0	**116**	**498**
4:45PM	6	25	9	0	**40**	55	219	22	0	**296**	20	40	11	0	**71**	7	102	3	0	**112**	**519**
Hourly Total	19	93	59	0	**171**	186	775	101	0	**1062**	112	152	58	0	**322**	33	405	23	0	**461**	**2016**
5:00PM	4	23	15	0	**42**	46	187	14	0	**247**	23	38	18	0	**79**	6	95	5	0	**106**	**474**
5:15PM	1	10	10	0	**21**	34	167	15	0	**216**	21	49	13	0	**83**	10	84	1	0	**95**	**415**
5:30PM	1	9	11	0	**21**	29	151	19	0	**199**	25	38	8	0	**71**	11	100	2	0	**113**	**404**
5:45PM	3	17	13	0	**33**	18	141	40	0	**199**	20	26	5	0	**51**	7	88	1	0	**96**	**379**
Hourly Total	9	59	49	0	**117**	127	646	88	0	**861**	89	151	44	0	**284**	34	367	9	0	**410**	**1672**
Total	83	596	597	0	**1276**	845	3464	686	0	**4995**	679	694	322	0	**1695**	348	2698	104	0	**3150**	**11116**
% Approach	6.5%	46.7%	46.8%	0%	**-**	16.9%	69.3%	13.7%	0%	**-**	40.1%	40.9%	19.0%	0%	**-**	11.0%	85.7%	3.3%	0%	**-**	-
% Total	0.7%	5.4%	5.4%	0%	**11.5%**	7.6%	31.2%	6.2%	0%	**44.9%**	6.1%	6.2%	2.9%	0%	**15.2%**	3.1%	24.3%	0.9%	0%	**28.3%**	-
Lights	80	580	575	0	**1235**	822	3357	645	0	**4824**	648	674	319	0	**1641**	335	2588	99	0	**3022**	10722
% Lights	96.4%	97.3%	96.3%	0%	**96.8%**	97.3%	96.9%	94.0%	0%	**96.6%**	95.4%	97.1%	99.1%	0%	**96.8%**	96.3%	95.9%	95.2%	0%	**95.9%**	96.5%
Articulated Trucks	2	4	15	0	**21**	12	36	7	0	**55**	2	6	2	0	**10**	7	43	2	0	**52**	138
% Articulated Trucks	2.4%	0.7%	2.5%	0%	**1.6%**	1.4%	1.0%	1.0%	0%	**1.1%**	0.3%	0.9%	0.6%	0%	**0.6%**	2.0%	1.6%	1.9%	0%	**1.7%**	1.2%
Buses and Single-Unit Trucks	1	12	7	0	**20**	11	71	34	0	**116**	29	14	1	0	**44**	6	67	3	0	**76**	256
% Buses and Single-Unit Trucks	1.2%	2.0%	1.2%	0%	**1.6%**	1.3%	2.0%	5.0%	0%	**2.3%**	4.3%	2.0%	0.3%	0%	**2.6%**	1.7%	2.5%	2.9%	0%	**2.4%**	2.3%

*L: Left, R: Right, T: Thru, U: U-Turn

Symmes Road & N Gilmore Road - TMC
Thu May 9, 2024
Full Length (6 AM-9 AM, 2 PM-6 PM)
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182813, Location: 39.346831, -84.520115

Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US



Symmes Road & N Gilmore Road - TMC

Thu May 9, 2024
AM Peak (7 AM - 8 AM)
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182813, Location: 39.346831, -84.520115

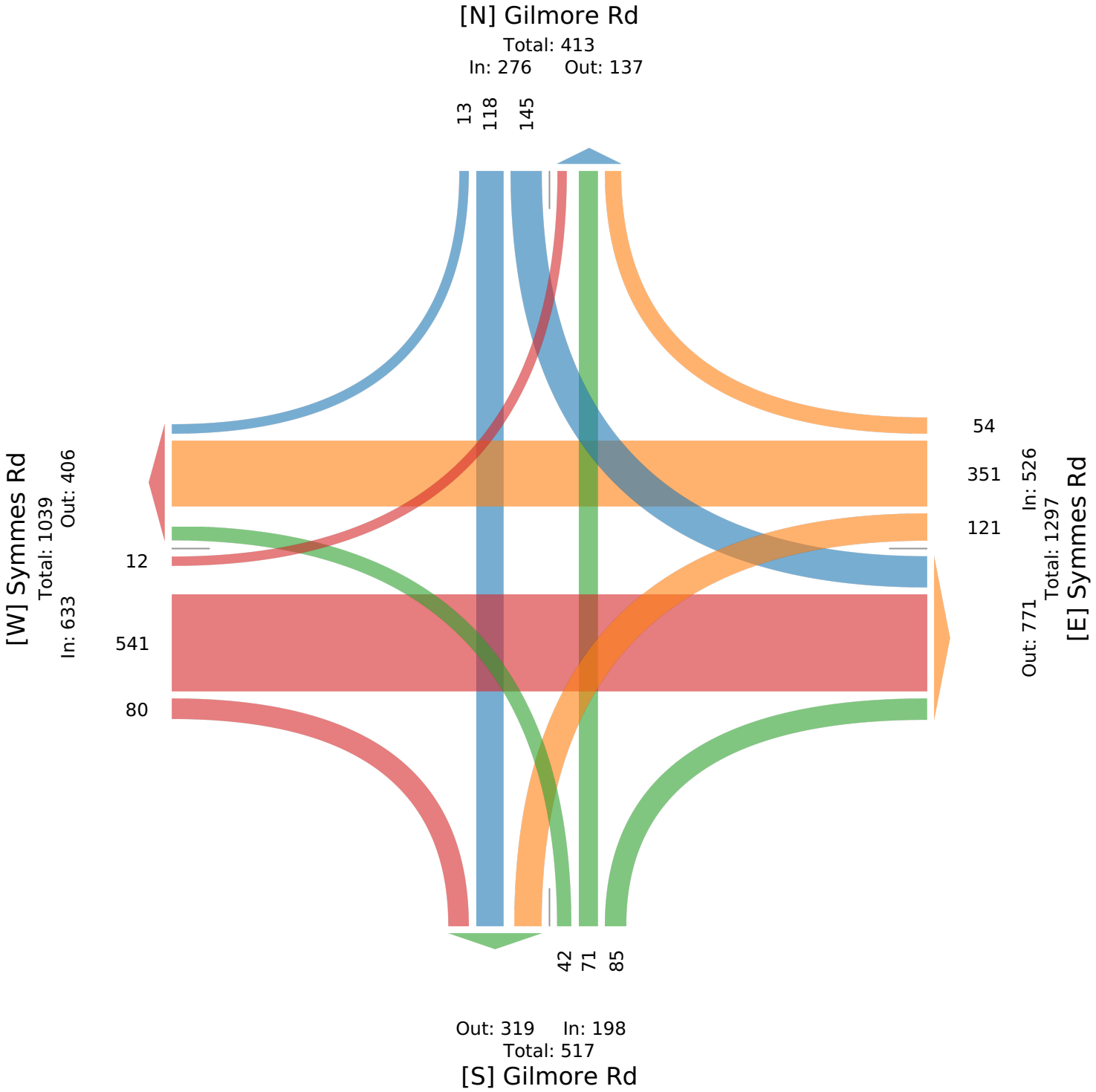
GEWALT HAMILTON ASSOCIATES, INC.
Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US

Leg	Gilmore Rd					Symmes Rd					Gilmore Rd					Symmes Rd					
Direction	Southbound					Westbound					Northbound					Eastbound					
Time	R	T	L	U	**App**	R	T	L	U	**App**	R	T	L	U	**App**	R	T	L	U	**App**	**Int**
2024-05-09 7:00AM	2	36	28	0	**66**	15	68	44	0	**127**	24	14	2	0	**40**	10	112	6	0	**128**	**361**
7:15AM	1	22	34	0	**57**	15	81	24	0	**120**	25	18	6	0	**49**	13	122	2	0	**137**	**363**
7:30AM	2	26	50	0	**78**	9	96	19	0	**124**	12	13	9	0	**34**	20	145	2	0	**167**	**403**
7:45AM	8	34	33	0	**75**	15	106	34	0	**155**	24	26	25	0	**75**	37	162	2	0	**201**	**506**
Total	13	118	145	0	**276**	54	351	121	0	**526**	85	71	42	0	**198**	80	541	12	0	**633**	**1633**
% Approach	4.7%	42.8%	52.5%	0%	**-**	10.3%	66.7%	23.0%	0%	**-**	42.9%	35.9%	21.2%	0%	**-**	12.6%	85.5%	1.9%	0%	**-**	-
% Total	0.8%	7.2%	8.9%	0%	**16.9%**	3.3%	21.5%	7.4%	0%	**32.2%**	5.2%	4.3%	2.6%	0%	**12.1%**	4.9%	33.1%	0.7%	0%	**38.8%**	-
PHF	0.406	0.819	0.725	-	**0.885**	0.900	0.828	0.688	-	**0.848**	0.850	0.683	0.420	-	**0.660**	0.541	0.835	0.500	-	**0.787**	0.807
Lights	13	117	138	0	**268**	54	340	118	0	**512**	80	68	42	0	**190**	76	518	12	0	**606**	1576
% Lights	100%	99.2%	95.2%	0%	**97.1%**	100%	96.9%	97.5%	0%	**97.3%**	94.1%	95.8%	100%	0%	**96.0%**	95.0%	95.7%	100%	0%	**95.7%**	96.5%
Articulated Trucks	0	0	5	0	**5**	0	1	0	0	**1**	0	0	0	0	**0**	2	9	0	0	**11**	17
% Articulated Trucks	0%	0%	3.4%	0%	**1.8%**	0%	0.3%	0%	0%	**0.2%**	0%	0%	0%	0%	**0%**	2.5%	1.7%	0%	0%	**1.7%**	1.0%
Buses and Single-Unit Trucks	0	1	2	0	**3**	0	10	3	0	**13**	5	3	0	0	**8**	2	14	0	0	**16**	40
% Buses and Single-Unit Trucks	0%	0.8%	1.4%	0%	**1.1%**	0%	2.8%	2.5%	0%	**2.5%**	5.9%	4.2%	0%	0%	**4.0%**	2.5%	2.6%	0%	0%	**2.5%**	2.4%

*L: Left, R: Right, T: Thru, U: U-Turn

Symmes Road & N Gilmore Road - TMC
Thu May 9, 2024
AM Peak (7 AM - 8 AM)
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182813, Location: 39.346831, -84.520115

Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US



Symmes Road & N Gilmore Road - TMC

Thu May 9, 2024
PM Peak (3:45 PM - 4:45 PM) - Overall Peak Hour
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182813, Location: 39.346831, -84.520115

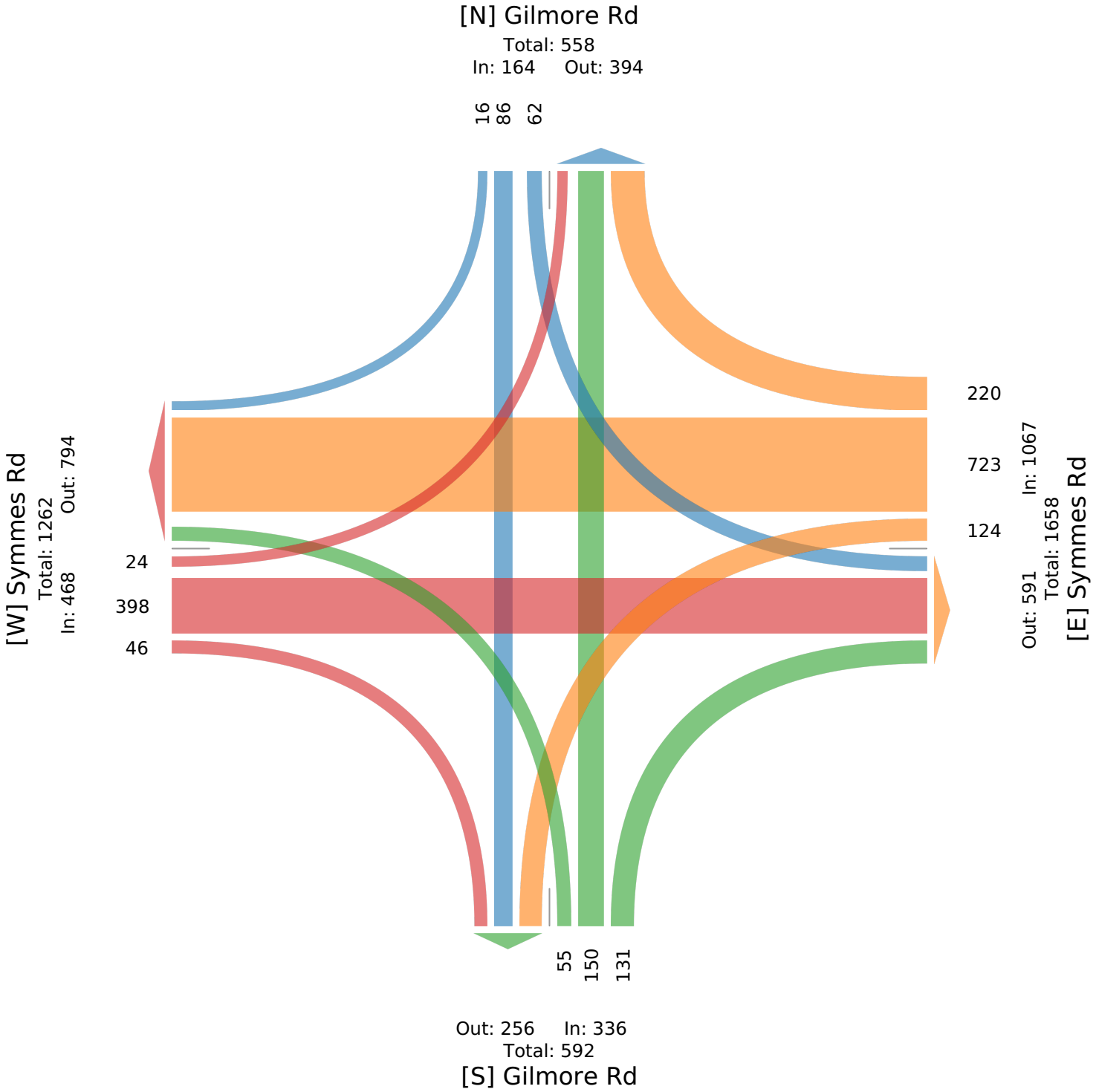
GEWALT HAMILTON ASSOCIATES, INC.
Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US

Leg	Gilmore Rd					Symmes Rd					Gilmore Rd					Symmes Rd					
Direction	Southbound					Westbound					Northbound					Eastbound					
Time	R	T	L	U	**App**	R	T	L	U	**App**	R	T	L	U	**App**	R	T	L	U	**App**	**Int**
2024-05-09 3:45PM	3	18	12	0	**33**	89	167	45	0	**301**	39	38	8	0	**85**	20	95	4	0	**119**	**538**
4:00PM	5	29	11	0	**45**	42	179	15	0	**236**	36	47	19	0	**102**	12	88	10	0	**110**	**493**
4:15PM	5	22	24	0	**51**	45	195	31	0	**271**	26	26	9	0	**61**	7	111	5	0	**123**	**506**
4:30PM	3	17	15	0	**35**	44	182	33	0	**259**	30	39	19	0	**88**	7	104	5	0	**116**	**498**
Total	16	86	62	0	**164**	220	723	124	0	**1067**	131	150	55	0	**336**	46	398	24	0	**468**	**2035**
% Approach	9.8%	52.4%	37.8%	0%	**-**	20.6%	67.8%	11.6%	0%	**-**	39.0%	44.6%	16.4%	0%	**-**	9.8%	85.0%	5.1%	0%	**-**	-
% Total	0.8%	4.2%	3.0%	0%	**8.1%**	10.8%	35.5%	6.1%	0%	**52.4%**	6.4%	7.4%	2.7%	0%	**16.5%**	2.3%	19.6%	1.2%	0%	**23.0%**	-
PHF	0.800	0.741	0.646	-	**0.804**	0.618	0.927	0.689	-	**0.886**	0.840	0.798	0.724	-	**0.824**	0.575	0.896	0.600	-	**0.951**	0.946
Lights	16	84	60	0	**160**	215	705	112	0	**1032**	129	149	54	0	**332**	46	387	24	0	**457**	1981
% Lights	100%	97.7%	96.8%	0%	**97.6%**	97.7%	97.5%	90.3%	0%	**96.7%**	98.5%	99.3%	98.2%	0%	**98.8%**	100%	97.2%	100%	0%	**97.6%**	97.3%
Articulated Trucks	0	0	1	0	**1**	3	5	1	0	**9**	0	0	0	0	**0**	0	5	0	0	**5**	15
% Articulated Trucks	0%	0%	1.6%	0%	**0.6%**	1.4%	0.7%	0.8%	0%	**0.8%**	0%	0%	0%	0%	**0%**	0%	1.3%	0%	0%	**1.1%**	0.7%
Buses and Single-Unit Trucks	0	2	1	0	**3**	2	13	11	0	**26**	2	1	1	0	**4**	0	6	0	0	**6**	39
% Buses and Single-Unit Trucks	0%	2.3%	1.6%	0%	**1.8%**	0.9%	1.8%	8.9%	0%	**2.4%**	1.5%	0.7%	1.8%	0%	**1.2%**	0%	1.5%	0%	0%	**1.3%**	1.9%

*L: Left, R: Right, T: Thru, U: U-Turn

Symmes Road & N Gilmore Road - TMC
Thu May 9, 2024
PM Peak (3:45 PM - 4:45 PM) - Overall Peak Hour
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182813, Location: 39.346831, -84.520115

Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US



Symmes Road & SR 4 (Dixie Hwy) - TMC

Thu May 9, 2024
Full Length (6 AM-9 AM, 2 PM-6 PM)
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182809, Location: 39.351373, -84.542436

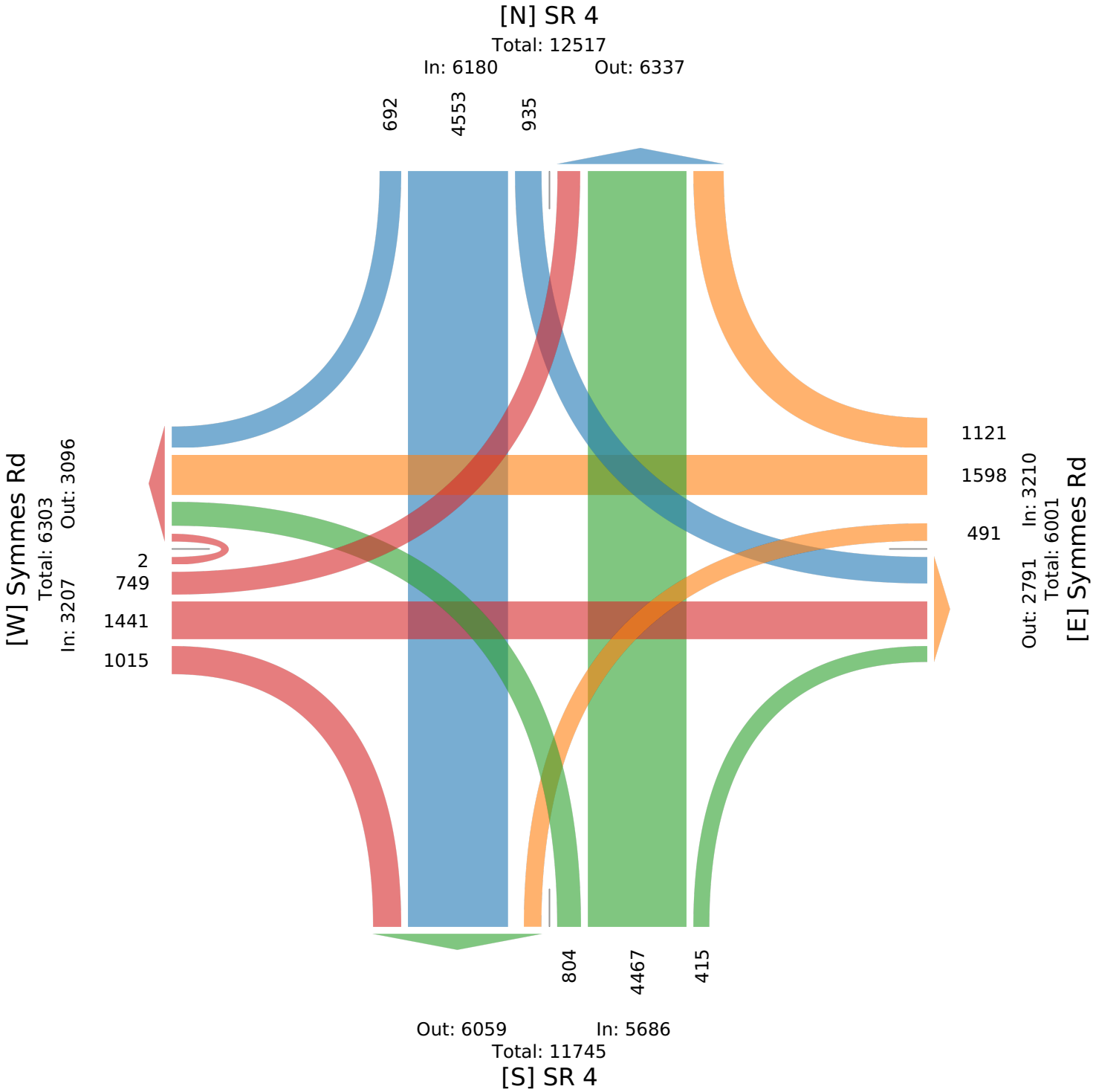
GEWALT HAMILTON ASSOCIATES, INC.
Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US

Leg	SR 4					Symmes Rd					SR 4					Symmes Rd					
Direction	Southbound					Westbound					Northbound					Eastbound					
Time	R	T	L	U	App	R	T	L	U	App	R	T	L	U	App	R	T	L	U	App	Int
2024-05-09 6:00AM	9	112	29	0	**150**	15	1	7	0	**23**	12	59	8	0	**79**	46	36	10	0	**92**	**344**
6:15AM	10	168	50	0	**228**	19	4	7	0	**30**	6	37	13	0	**56**	54	43	12	0	**109**	**423**
6:30AM	9	193	47	0	**249**	7	9	2	0	**18**	12	52	12	0	**76**	64	71	19	0	**154**	**497**
6:45AM	13	185	61	0	**259**	19	21	6	0	**46**	12	101	9	0	**122**	60	91	26	0	**177**	**604**
Hourly Total	41	658	187	0	**886**	60	35	22	0	**117**	42	249	42	0	**333**	224	241	67	0	**532**	**1868**
7:00AM	15	199	44	0	**258**	10	20	12	0	**42**	16	117	19	0	**152**	53	72	29	0	**154**	**606**
7:15AM	15	183	54	0	**252**	20	23	14	0	**57**	13	115	13	0	**141**	56	86	31	0	**173**	**623**
7:30AM	17	221	61	0	**299**	16	24	9	0	**49**	17	125	21	0	**163**	45	95	22	0	**162**	**673**
7:45AM	16	191	55	0	**262**	29	43	7	0	**79**	24	135	15	0	**174**	54	124	29	0	**207**	**722**
Hourly Total	63	794	214	0	**1071**	75	110	42	0	**227**	70	492	68	0	**630**	208	377	111	0	**696**	**2624**
8:00AM	19	146	31	0	**196**	33	24	15	0	**72**	27	134	22	0	**183**	47	54	27	0	**128**	**579**
8:15AM	25	159	21	0	**205**	19	33	20	0	**72**	11	91	15	0	**117**	32	48	24	0	**104**	**498**
8:30AM	15	147	29	0	**191**	17	33	16	0	**66**	9	110	21	0	**140**	43	43	23	0	**109**	**506**
8:45AM	13	125	25	0	**163**	12	39	13	0	**64**	14	117	15	0	**146**	26	38	15	2	**81**	**454**
Hourly Total	72	577	106	0	**755**	81	129	64	0	**274**	61	452	73	0	**586**	148	183	89	2	**422**	**2037**
2:00PM	33	167	30	0	**230**	23	42	18	0	**83**	24	171	19	0	**214**	30	47	30	0	**107**	**634**
2:15PM	16	139	32	0	**187**	42	57	17	0	**116**	16	134	29	0	**179**	27	47	21	0	**95**	**577**
2:30PM	27	152	29	0	**208**	80	79	25	0	**184**	19	198	24	0	**241**	18	53	30	0	**101**	**734**
2:45PM	26	130	32	0	**188**	51	90	26	0	**167**	16	184	34	0	**234**	23	40	27	0	**90**	**679**
Hourly Total	102	588	123	0	**813**	196	268	86	0	**550**	75	687	106	0	**868**	98	187	108	0	**393**	**2624**
3:00PM	30	155	25	0	**210**	47	75	24	0	**146**	18	160	39	0	**217**	25	40	31	0	**96**	**669**
3:15PM	30	143	25	0	**198**	69	96	22	0	**187**	22	214	31	0	**267**	27	35	27	0	**89**	**741**
3:30PM	34	166	32	0	**232**	45	42	20	0	**107**	15	257	38	0	**310**	26	24	33	0	**83**	**732**
3:45PM	46	177	22	0	**245**	78	94	36	0	**208**	18	231	43	0	**292**	21	35	32	0	**88**	**833**
Hourly Total	140	641	104	0	**885**	239	307	102	0	**648**	73	862	151	0	**1086**	99	134	123	0	**356**	**2975**
4:00PM	32	157	27	0	**216**	54	99	28	0	**181**	13	214	45	0	**272**	24	42	24	0	**90**	**759**
4:15PM	34	181	23	0	**238**	56	95	24	0	**175**	18	203	36	0	**257**	27	43	28	0	**98**	**768**
4:30PM	29	187	23	0	**239**	78	95	36	0	**209**	11	241	42	0	**294**	31	43	36	0	**110**	**852**
4:45PM	43	154	30	0	**227**	69	107	24	0	**200**	10	223	47	0	**280**	35	46	32	0	**113**	**820**
Hourly Total	138	679	103	0	**920**	257	396	112	0	**765**	52	881	170	0	**1103**	117	174	120	0	**411**	**3199**
5:00PM	32	166	25	0	**223**	59	106	15	0	**180**	11	225	44	0	**280**	28	38	38	0	**104**	**787**
5:15PM	32	170	24	0	**226**	67	73	19	0	**159**	7	225	55	0	**287**	30	33	34	0	**97**	**769**
5:30PM	34	135	23	0	**192**	42	100	12	0	**154**	15	184	44	0	**243**	38	39	29	0	**106**	**695**
5:45PM	38	145	26	0	**209**	45	74	17	0	**136**	9	210	51	0	**270**	25	35	30	0	**90**	**705**
Hourly Total	136	616	98	0	**850**	213	353	63	0	**629**	42	844	194	0	**1080**	121	145	131	0	**397**	**2956**
Total	692	4553	935	0	**6180**	1121	1598	491	0	**3210**	415	4467	804	0	**5686**	1015	1441	749	2	**3207**	**18283**
% Approach	11.2%	73.7%	15.1%	0%	**-**	34.9%	49.8%	15.3%	0%	**-**	7.3%	78.6%	14.1%	0%	**-**	31.6%	44.9%	23.4%	0.1%	**-**	-
% Total	3.8%	24.9%	5.1%	0%	**33.8%**	6.1%	8.7%	2.7%	0%	**17.6%**	2.3%	24.4%	4.4%	0%	**31.1%**	5.6%	7.9%	4.1%	0%	**17.5%**	-
Lights	676	4445	898	0	**6019**	1090	1566	474	0	**3130**	402	4350	785	0	**5537**	995	1410	731	2	**3138**	17824
% Lights	97.7%	97.6%	96.0%	0%	**97.4%**	97.2%	98.0%	96.5%	0%	**97.5%**	96.9%	97.4%	97.6%	0%	**97.4%**	98.0%	97.8%	97.6%	100%	**97.8%**	97.5%
Articulated Trucks	0	34	15	0	**49**	13	5	10	0	**28**	5	41	2	0	**48**	3	5	2	0	**10**	135
% Articulated Trucks	0%	0.7%	1.6%	0%	**0.8%**	1.2%	0.3%	2.0%	0%	**0.9%**	1.2%	0.9%	0.2%	0%	**0.8%**	0.3%	0.3%	0.3%	0%	**0.3%**	0.7%
Buses and Single-Unit Trucks	16	74	22	0	**112**	18	27	7	0	**52**	8	76	17	0	**101**	17	26	16	0	**59**	324
% Buses and Single-Unit Trucks	2.3%	1.6%	2.4%	0%	**1.8%**	1.6%	1.7%	1.4%	0%	**1.6%**	1.9%	1.7%	2.1%	0%	**1.8%**	1.7%	1.8%	2.1%	0%	**1.8%**	1.8%

*L: Left, R: Right, T: Thru, U: U-Turn

Symmes Road & SR 4 (Dixie Hwy) - TMC
Thu May 9, 2024
Full Length (6 AM-9 AM, 2 PM-6 PM)
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182809, Location: 39.351373, -84.542436

Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US



Symmes Road & SR 4 (Dixie Hwy) - TMC

Thu May 9, 2024
AM Peak (7 AM - 8 AM)
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182809, Location: 39.351373, -84.542436

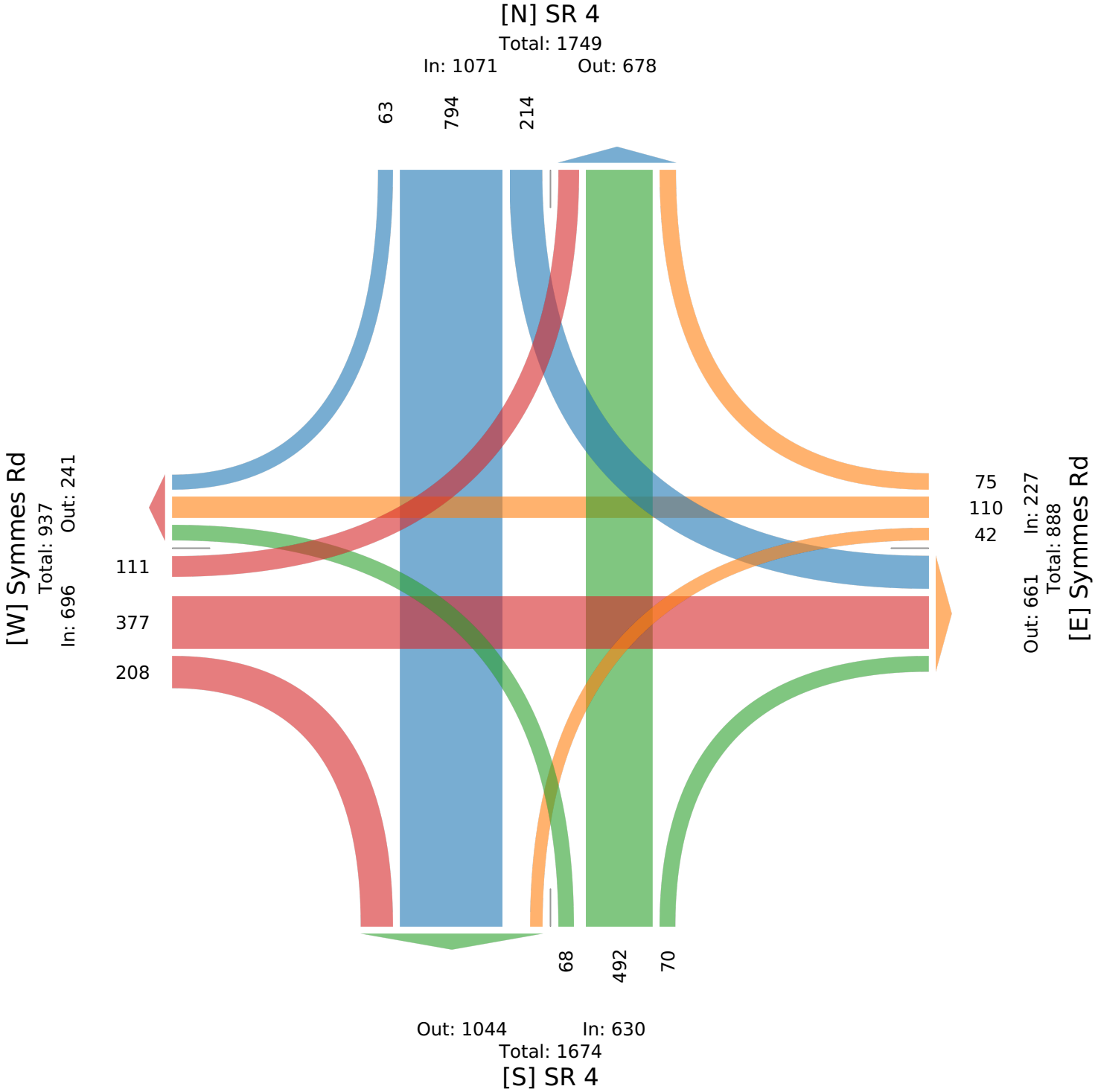
GEWALT HAMILTON ASSOCIATES, INC.
Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US

Leg	SR 4					Symmes Rd					SR 4					Symmes Rd					
Direction	Southbound					Westbound					Northbound					Eastbound					
Time	R	T	L	U	**App**	R	T	L	U	**App**	R	T	L	U	**App**	R	T	L	U	**App**	**Int**
2024-05-09 7:00AM	15	199	44	0	**258**	10	20	12	0	**42**	16	117	19	0	**152**	53	72	29	0	**154**	**606**
7:15AM	15	183	54	0	**252**	20	23	14	0	**57**	13	115	13	0	**141**	56	86	31	0	**173**	**623**
7:30AM	17	221	61	0	**299**	16	24	9	0	**49**	17	125	21	0	**163**	45	95	22	0	**162**	**673**
7:45AM	16	191	55	0	**262**	29	43	7	0	**79**	24	135	15	0	**174**	54	124	29	0	**207**	**722**
Total	63	794	214	0	**1071**	75	110	42	0	**227**	70	492	68	0	**630**	208	377	111	0	**696**	**2624**
% Approach	5.9%	74.1%	20.0%	0%	**-**	33.0%	48.5%	18.5%	0%	**-**	11.1%	78.1%	10.8%	0%	**-**	29.9%	54.2%	15.9%	0%	**-**	-
% Total	2.4%	30.3%	8.2%	0%	**40.8%**	2.9%	4.2%	1.6%	0%	**8.7%**	2.7%	18.8%	2.6%	0%	**24.0%**	7.9%	14.4%	4.2%	0%	**26.5%**	-
PHF	0.926	0.898	0.877	-	**0.895**	0.647	0.640	0.750	-	**0.718**	0.729	0.911	0.810	-	**0.905**	0.929	0.760	0.895	-	**0.841**	0.909
Lights	61	771	209	0	**1041**	74	103	38	0	**215**	69	468	64	0	**601**	202	373	109	0	**684**	2541
% Lights	96.8%	97.1%	97.7%	0%	**97.2%**	98.7%	93.6%	90.5%	0%	**94.7%**	98.6%	95.1%	94.1%	0%	**95.4%**	97.1%	98.9%	98.2%	0%	**98.3%**	96.8%
Articulated Trucks	0	5	1	0	**6**	0	1	2	0	**3**	0	11	1	0	**12**	1	0	0	0	**1**	22
% Articulated Trucks	0%	0.6%	0.5%	0%	**0.6%**	0%	0.9%	4.8%	0%	**1.3%**	0%	2.2%	1.5%	0%	**1.9%**	0.5%	0%	0%	0%	**0.1%**	0.8%
Buses and Single-Unit Trucks	2	18	4	0	**24**	1	6	2	0	**9**	1	13	3	0	**17**	5	4	2	0	**11**	61
% Buses and Single-Unit Trucks	3.2%	2.3%	1.9%	0%	**2.2%**	1.3%	5.5%	4.8%	0%	**4.0%**	1.4%	2.6%	4.4%	0%	**2.7%**	2.4%	1.1%	1.8%	0%	**1.6%**	2.3%

*L: Left, R: Right, T: Thru, U: U-Turn

Symmes Road & SR 4 (Dixie Hwy) - TMC
Thu May 9, 2024
AM Peak (7 AM - 8 AM)
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182809, Location: 39.351373, -84.542436

GEWALT HAMILTON ASSOCIATES, INC.
Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US



Symmes Road & SR 4 (Dixie Hwy) - TMC

Thu May 9, 2024
PM Peak (4:30 PM - 5:30 PM) - Overall Peak Hour
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182809, Location: 39.351373, -84.542436

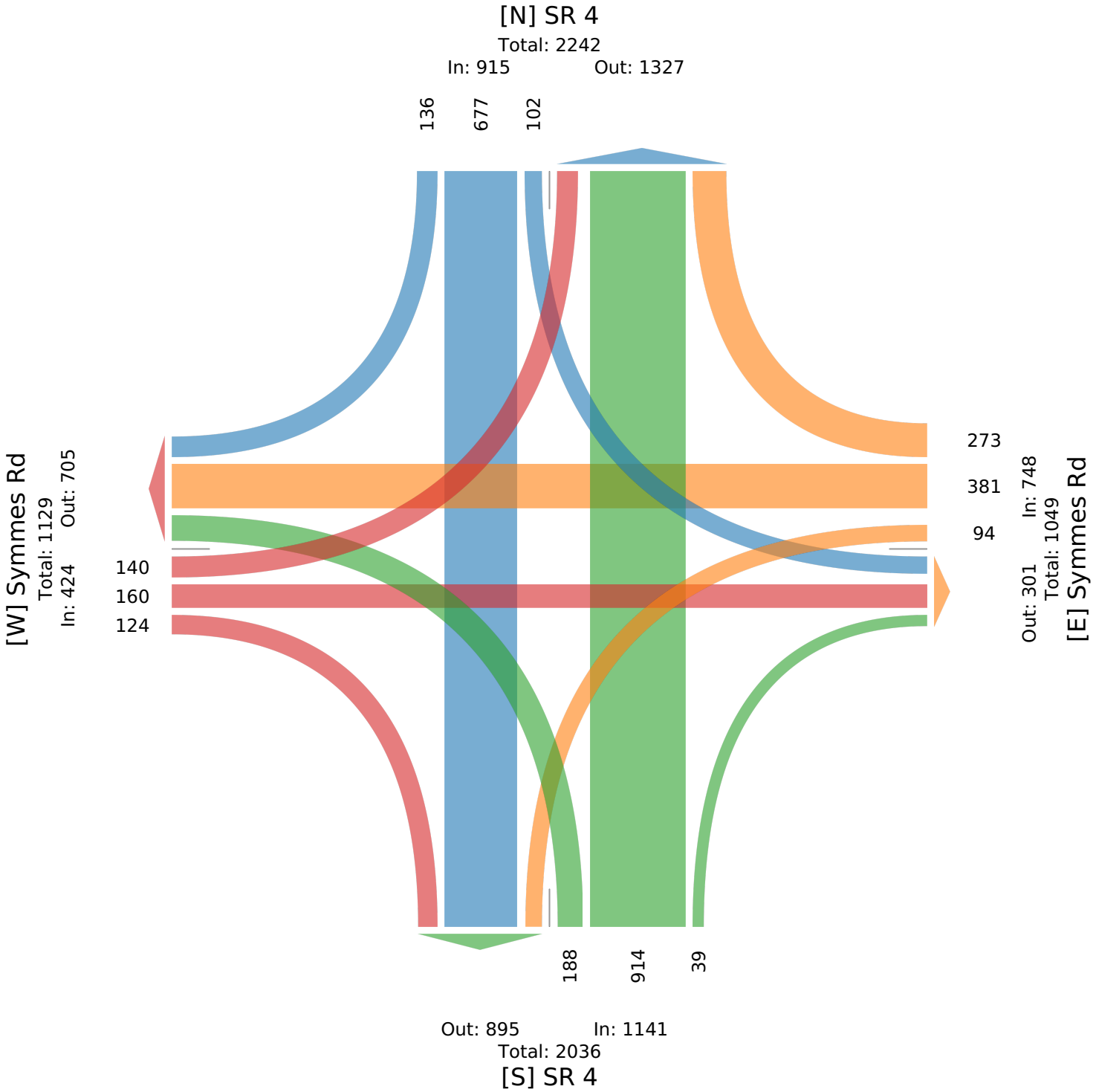
GEWALT HAMILTON ASSOCIATES, INC.
Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US

Leg	SR 4					Symmes Rd					SR 4					Symmes Rd					
Direction	Southbound					Westbound					Northbound					Eastbound					
Time	R	T	L	U	**App**	R	T	L	U	**App**	R	T	L	U	**App**	R	T	L	U	**App**	**Int**
2024-05-09 4:30PM	29	187	23	0	**239**	78	95	36	0	**209**	11	241	42	0	**294**	31	43	36	0	**110**	**852**
4:45PM	43	154	30	0	**227**	69	107	24	0	**200**	10	223	47	0	**280**	35	46	32	0	**113**	**820**
5:00PM	32	166	25	0	**223**	59	106	15	0	**180**	11	225	44	0	**280**	28	38	38	0	**104**	**787**
5:15PM	32	170	24	0	**226**	67	73	19	0	**159**	7	225	55	0	**287**	30	33	34	0	**97**	**769**
Total	136	677	102	0	**915**	273	381	94	0	**748**	39	914	188	0	**1141**	124	160	140	0	**424**	**3228**
% Approach	14.9%	74.0%	11.1%	0%	**-**	36.5%	50.9%	12.6%	0%	**-**	3.4%	80.1%	16.5%	0%	**-**	29.2%	37.7%	33.0%	0%	**-**	-
% Total	4.2%	21.0%	3.2%	0%	**28.3%**	8.5%	11.8%	2.9%	0%	**23.2%**	1.2%	28.3%	5.8%	0%	**35.3%**	3.8%	5.0%	4.3%	0%	**13.1%**	-
PHF	0.791	0.905	0.850	-	**0.957**	0.875	0.890	0.653	-	**0.895**	0.886	0.948	0.855	-	**0.970**	0.886	0.870	0.921	-	**0.938**	0.947
Lights	135	665	97	0	**897**	270	377	93	0	**740**	39	904	187	0	**1130**	121	159	140	0	**420**	3187
% Lights	99.3%	98.2%	95.1%	0%	**98.0%**	98.9%	99.0%	98.9%	0%	**98.9%**	100%	98.9%	99.5%	0%	**99.0%**	97.6%	99.4%	100%	0%	**99.1%**	98.7%
Articulated Trucks	0	3	2	0	**5**	0	0	0	0	**0**	0	4	0	0	**4**	0	1	0	0	**1**	10
% Articulated Trucks	0%	0.4%	2.0%	0%	**0.5%**	0%	0%	0%	0%	**0%**	0%	0.4%	0%	0%	**0.4%**	0%	0.6%	0%	0%	**0.2%**	0.3%
Buses and Single-Unit Trucks	1	9	3	0	**13**	3	4	1	0	**8**	0	6	1	0	**7**	3	0	0	0	**3**	31
% Buses and Single-Unit Trucks	0.7%	1.3%	2.9%	0%	**1.4%**	1.1%	1.0%	1.1%	0%	**1.1%**	0%	0.7%	0.5%	0%	**0.6%**	2.4%	0%	0%	0%	**0.7%**	1.0%

*L: Left, R: Right, T: Thru, U: U-Turn

Symmes Road & SR 4 (Dixie Hwy) - TMC
Thu May 9, 2024
PM Peak (4:30 PM - 5:30 PM) - Overall Peak Hour
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182809, Location: 39.351373, -84.542436

Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US



Symmes Road & Tedia Way - TMC

Thu May 9, 2024
Full Length (6 AM-9 AM, 2 PM-6 PM)
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182812, Location: 39.348056, -84.52548

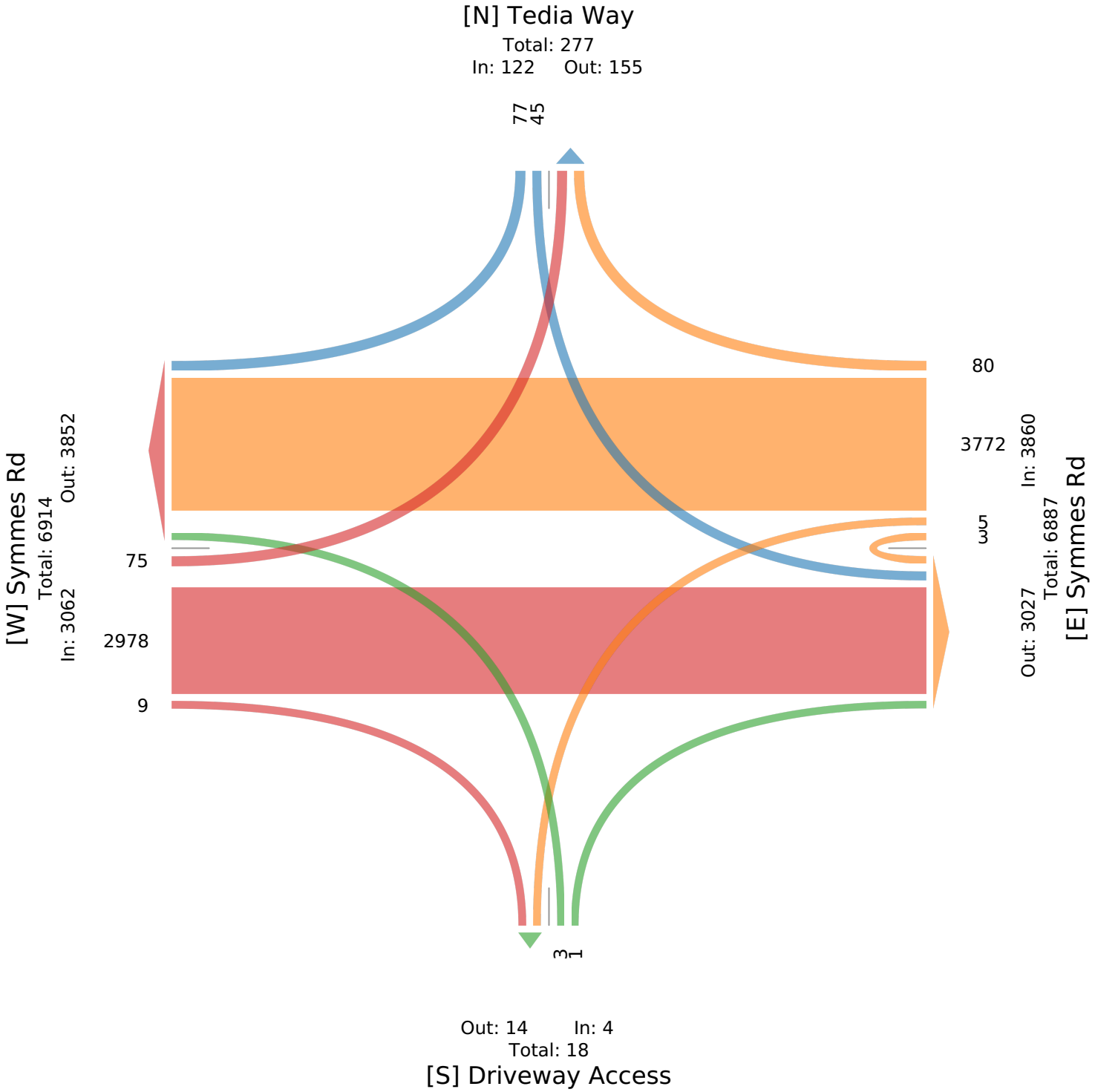
GEWALT HAMILTON ASSOCIATES, INC.
Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US

Leg	Tedia Way					Symmes Rd					Driveway Access					Symmes Rd					
Direction	Southbound					Westbound					Northbound					Eastbound					
Time	R	T	L	U	App	R	T	L	U	App	R	T	L	U	App	R	T	L	U	App	Int
2024-05-09 6:00AM	1	0	2	0	**3**	9	28	0	1	**38**	0	0	0	0	**0**	0	32	1	0	**33**	**74**
6:15AM	4	0	0	0	**4**	3	30	1	2	**36**	0	0	0	0	**0**	0	68	3	0	**71**	**111**
6:30AM	0	0	0	0	**0**	4	40	0	0	**44**	0	0	0	0	**0**	0	141	1	0	**142**	**186**
6:45AM	1	0	0	0	**1**	8	80	0	0	**88**	0	0	0	0	**0**	0	144	6	0	**150**	**239**
Hourly Total	6	0	2	0	**8**	24	178	1	3	**206**	0	0	0	0	**0**	0	385	11	0	**396**	**610**
7:00AM	5	0	3	0	**8**	2	60	0	0	**62**	0	0	0	0	**0**	1	121	2	0	**124**	**194**
7:15AM	4	0	0	0	**4**	2	79	0	0	**81**	0	0	0	0	**0**	3	145	3	0	**151**	**236**
7:30AM	0	0	1	0	**1**	6	100	1	0	**107**	0	0	0	0	**0**	0	164	3	0	**167**	**275**
7:45AM	1	0	1	0	**2**	2	124	0	0	**126**	0	0	1	0	**1**	0	190	4	0	**194**	**323**
Hourly Total	10	0	5	0	**15**	12	363	1	0	**376**	0	0	1	0	**1**	4	620	12	0	**636**	**1028**
8:00AM	1	0	1	0	**2**	4	89	1	0	**94**	0	0	0	0	**0**	0	117	4	0	**121**	**217**
8:15AM	1	0	0	0	**1**	4	82	0	0	**86**	0	0	0	0	**0**	1	85	4	0	**90**	**177**
8:30AM	0	0	1	0	**1**	3	76	0	0	**79**	0	0	0	0	**0**	0	99	1	0	**100**	**180**
8:45AM	0	0	1	0	**1**	2	96	0	0	**98**	0	0	0	0	**0**	2	75	3	0	**80**	**179**
Hourly Total	2	0	3	0	**5**	13	343	1	0	**357**	0	0	0	0	**0**	3	376	12	0	**391**	**753**
2:00PM	6	0	2	0	**8**	2	99	0	0	**101**	0	0	1	0	**1**	1	96	2	0	**99**	**209**
2:15PM	1	0	2	0	**3**	2	126	0	0	**128**	0	0	0	0	**0**	0	105	3	0	**108**	**239**
2:30PM	6	0	1	0	**7**	7	214	0	0	**221**	0	0	0	0	**0**	0	125	2	0	**127**	**355**
2:45PM	1	0	2	0	**3**	1	179	0	0	**180**	0	0	0	0	**0**	0	95	5	0	**100**	**283**
Hourly Total	14	0	7	0	**21**	12	618	0	0	**630**	0	0	1	0	**1**	1	421	12	0	**434**	**1086**
3:00PM	5	0	7	0	**12**	2	171	0	0	**173**	0	0	0	0	**0**	0	106	1	0	**107**	**292**
3:15PM	4	0	3	0	**7**	2	194	0	0	**196**	0	0	0	0	**0**	1	86	4	0	**91**	**294**
3:30PM	2	0	2	0	**4**	2	86	1	0	**89**	1	0	0	0	**1**	0	54	1	0	**55**	**149**
3:45PM	5	0	3	0	**8**	4	224	0	0	**228**	0	0	0	0	**0**	0	119	5	0	**124**	**360**
Hourly Total	16	0	15	0	**31**	10	675	1	0	**686**	1	0	0	0	**1**	1	365	11	0	**377**	**1095**
4:00PM	4	0	2	0	**6**	2	225	0	0	**227**	0	0	0	0	**0**	0	104	4	0	**108**	**341**
4:15PM	1	0	0	0	**1**	0	208	1	0	**209**	0	0	0	0	**0**	0	117	2	0	**119**	**329**
4:30PM	3	0	3	0	**6**	3	211	0	0	**214**	0	0	0	0	**0**	0	112	0	0	**112**	**332**
4:45PM	6	0	4	0	**10**	1	226	0	0	**227**	0	0	0	0	**0**	0	103	2	0	**105**	**342**
Hourly Total	14	0	9	0	**23**	6	870	1	0	**877**	0	0	0	0	**0**	0	436	8	0	**444**	**1344**
5:00PM	8	0	1	0	**9**	1	202	0	0	**203**	0	0	1	0	**1**	0	76	4	0	**80**	**293**
5:15PM	3	0	2	0	**5**	0	199	0	0	**199**	0	0	0	0	**0**	0	89	5	0	**94**	**298**
5:30PM	3	0	1	0	**4**	1	165	0	0	**166**	0	0	0	0	**0**	0	122	0	0	**122**	**292**
5:45PM	1	0	0	0	**1**	1	159	0	0	**160**	0	0	0	0	**0**	0	88	0	0	**88**	**249**
Hourly Total	15	0	4	0	**19**	3	725	0	0	**728**	0	0	1	0	**1**	0	375	9	0	**384**	**1132**
Total	77	0	45	0	**122**	80	3772	5	3	**3860**	1	0	3	0	**4**	9	2978	75	0	**3062**	**7048**
% Approach	63.1%	0%	36.9%	0%	**-**	2.1%	97.7%	0.1%	0.1%	**-**	25.0%	0%	75.0%	0%	**-**	0.3%	97.3%	2.4%	0%	**-**	-
% Total	1.1%	0%	0.6%	0%	**1.7%**	1.1%	53.5%	0.1%	0%	**54.8%**	0%	0%	0%	0%	**0.1%**	0.1%	42.3%	1.1%	0%	**43.4%**	-
Lights	73	0	44	0	**117**	76	3668	5	3	**3752**	1	0	3	0	**4**	9	2875	67	0	**2951**	6824
% Lights	94.8%	0%	97.8%	0%	**95.9%**	95.0%	97.2%	100%	100%	**97.2%**	100%	0%	100%	0%	**100%**	100%	96.5%	89.3%	0%	**96.4%**	96.8%
Articulated Trucks	0	0	1	0	**1**	1	30	0	0	**31**	0	0	0	0	**0**	0	33	4	0	**37**	69
% Articulated Trucks	0%	0%	2.2%	0%	**0.8%**	1.3%	0.8%	0%	0%	**0.8%**	0%	0%	0%	0%	**0%**	0%	1.1%	5.3%	0%	**1.2%**	1.0%
Buses and Single-Unit Trucks	4	0	0	0	**4**	3	74	0	0	**77**	0	0	0	0	**0**	0	70	4	0	**74**	155
% Buses and Single-Unit Trucks	5.2%	0%	0%	0%	**3.3%**	3.8%	2.0%	0%	0%	**2.0%**	0%	0%	0%	0%	**0%**	0%	2.4%	5.3%	0%	**2.4%**	2.2%

*L: Left, R: Right, T: Thru, U: U-Turn

Symmes Road & Tedia Way - TMC
Thu May 9, 2024
Full Length (6 AM-9 AM, 2 PM-6 PM)
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182812, Location: 39.348056, -84.52548

Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US



Symmes Road & Tedia Way - TMC

Thu May 9, 2024
AM Peak (7:15 AM - 8:15 AM)
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182812, Location: 39.348056, -84.52548

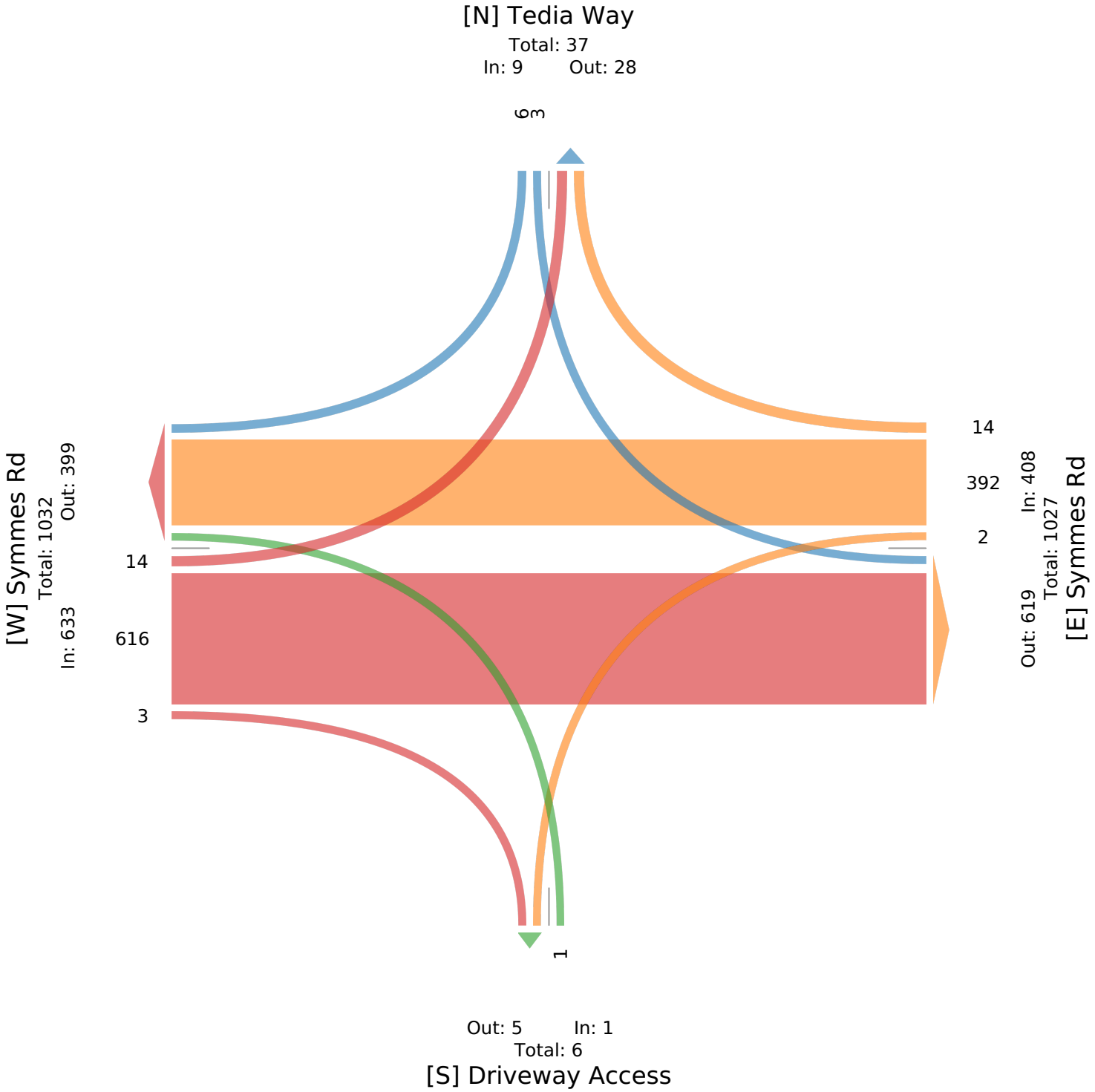
GEWALT HAMILTON ASSOCIATES, INC.
Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US

Leg	Tedia Way					Symmes Rd					Driveway Access					Symmes Rd					
Direction	Southbound					Westbound					Northbound					Eastbound					
Time	R	T	L	U	App	R	T	L	U	App	R	T	L	U	App	R	T	L	U	App	Int
2024-05-09 7:15AM	4	0	0	0	**4**	2	79	0	0	**81**	0	0	0	0	**0**	3	145	3	0	**151**	**236**
7:30AM	0	0	1	0	**1**	6	100	1	0	**107**	0	0	0	0	**0**	0	164	3	0	**167**	**275**
7:45AM	1	0	1	0	**2**	2	124	0	0	**126**	0	0	1	0	**1**	0	190	4	0	**194**	**323**
8:00AM	1	0	1	0	**2**	4	89	1	0	**94**	0	0	0	0	**0**	0	117	4	0	**121**	**217**
Total	6	0	3	0	**9**	14	392	2	0	**408**	0	0	1	0	**1**	3	616	14	0	**633**	**1051**
% Approach	66.7%	0%	33.3%	0%	**-**	3.4%	96.1%	0.5%	0%	**-**	0%	0%	100%	0%	**-**	0.5%	97.3%	2.2%	0%	**-**	-
% Total	0.6%	0%	0.3%	0%	**0.9%**	1.3%	37.3%	0.2%	0%	**38.8%**	0%	0%	0.1%	0%	**0.1%**	0.3%	58.6%	1.3%	0%	**60.2%**	-
PHF	0.375	-	0.750	-	**0.563**	0.583	0.790	0.500	-	**0.810**	-	-	0.250	-	**0.250**	0.250	0.811	0.875	-	**0.816**	0.813
Lights	6	0	3	0	**9**	13	376	2	0	**391**	0	0	1	0	**1**	3	597	14	0	**614**	1015
% Lights	100%	0%	100%	0%	**100%**	92.9%	95.9%	100%	0%	**95.8%**	0%	0%	100%	0%	**100%**	100%	96.9%	100%	0%	**97.0%**	96.6%
Articulated Trucks	0	0	0	0	**0**	0	3	0	0	**3**	0	0	0	0	**0**	0	5	0	0	**5**	8
% Articulated Trucks	0%	0%	0%	0%	**0%**	0%	0.8%	0%	0%	**0.7%**	0%	0%	0%	0%	**0%**	0%	0.8%	0%	0%	**0.8%**	0.8%
Buses and Single-Unit Trucks	0	0	0	0	**0**	1	13	0	0	**14**	0	0	0	0	**0**	0	14	0	0	**14**	28
% Buses and Single-Unit Trucks	0%	0%	0%	0%	**0%**	7.1%	3.3%	0%	0%	**3.4%**	0%	0%	0%	0%	**0%**	0%	2.3%	0%	0%	**2.2%**	2.7%

*L: Left, R: Right, T: Thru, U: U-Turn

Symmes Road & Tedia Way - TMC
Thu May 9, 2024
AM Peak (7:15 AM - 8:15 AM)
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182812, Location: 39.348056, -84.52548

Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US



Symmes Road & Tedia Way - TMC

Thu May 9, 2024
PM Peak (3:45 PM - 4:45 PM) - Overall Peak Hour
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182812, Location: 39.348056, -84.52548

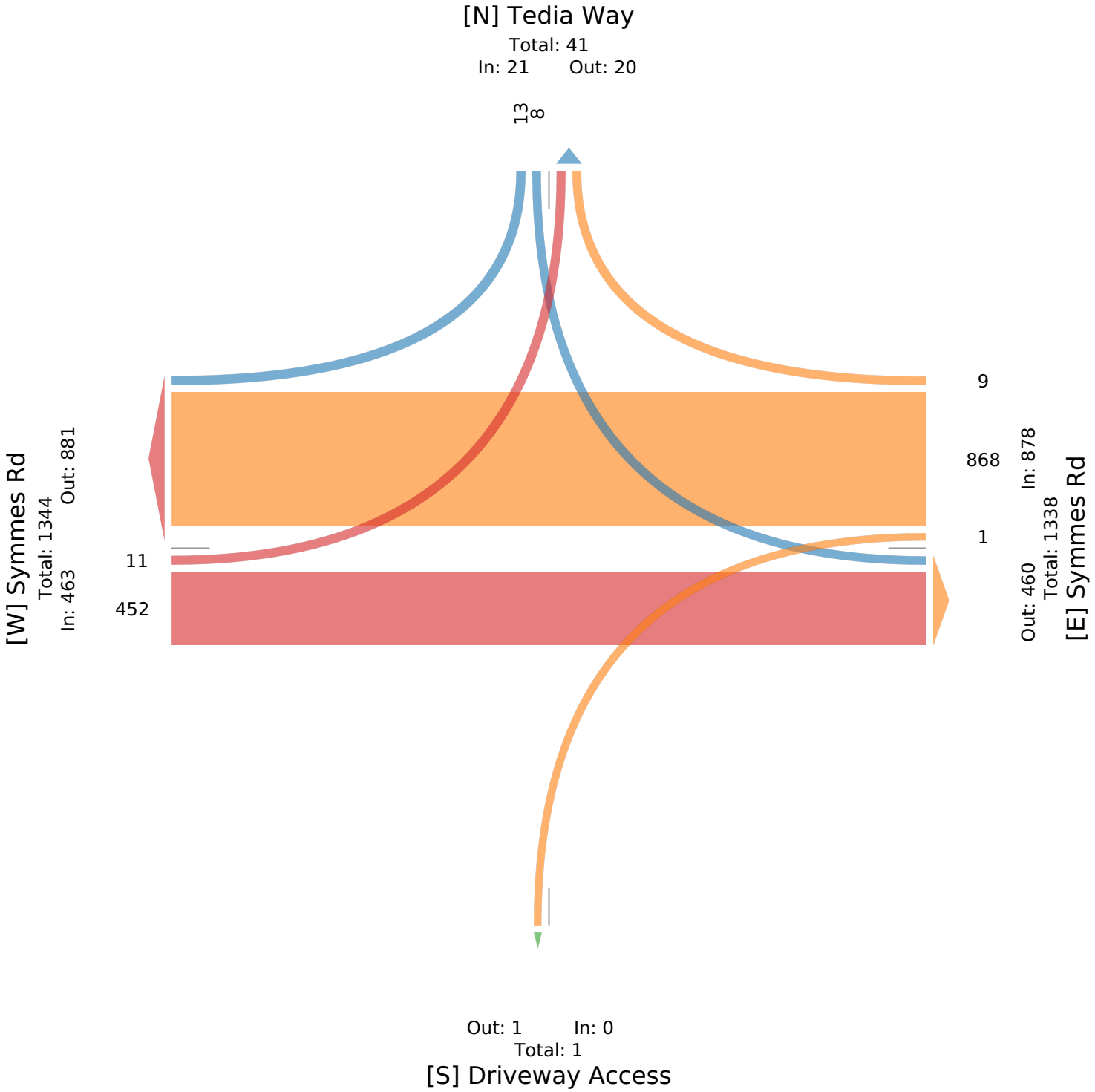
GEWALT HAMILTON ASSOCIATES, INC.
Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US

Leg	Tedia Way					Symmes Rd					Driveway Access					Symmes Rd					
Direction	Southbound					Westbound					Northbound					Eastbound					
Time	R	T	L	U	**App**	R	T	L	U	**App**	R	T	L	U	**App**	R	T	L	U	**App**	**Int**
2024-05-09 3:45PM	5	0	3	0	**8**	4	224	0	0	**228**	0	0	0	0	**0**	0	119	5	0	**124**	**360**
4:00PM	4	0	2	0	**6**	2	225	0	0	**227**	0	0	0	0	**0**	0	104	4	0	**108**	**341**
4:15PM	1	0	0	0	**1**	0	208	1	0	**209**	0	0	0	0	**0**	0	117	2	0	**119**	**329**
4:30PM	3	0	3	0	**6**	3	211	0	0	**214**	0	0	0	0	**0**	0	112	0	0	**112**	**332**
Total	13	0	8	0	**21**	9	868	1	0	**878**	0	0	0	0	**0**	0	452	11	0	**463**	**1362**
% Approach	61.9%	0%	38.1%	0%	**-**	1.0%	98.9%	0.1%	0%	**-**	0%	0%	0%	0%	**-**	0%	97.6%	2.4%	0%	**-**	-
% Total	1.0%	0%	0.6%	0%	**1.5%**	0.7%	63.7%	0.1%	0%	**64.5%**	0%	0%	0%	0%	**0%**	0%	33.2%	0.8%	0%	**34.0%**	-
PHF	0.650	-	0.667	-	**0.656**	0.563	0.964	0.250	-	**0.963**	-	-	-	-	**-**	-	0.950	0.550	-	**0.933**	0.946
Lights	12	0	8	0	**20**	8	850	1	0	**859**	0	0	0	0	**0**	0	440	11	0	**451**	1330
% Lights	92.3%	0%	100%	0%	**95.2%**	88.9%	97.9%	100%	0%	**97.8%**	0%	0%	0%	0%	**-**	0%	97.3%	100%	0%	**97.4%**	97.7%
Articulated Trucks	0	0	0	0	**0**	0	3	0	0	**3**	0	0	0	0	**0**	0	5	0	0	**5**	8
% Articulated Trucks	0%	0%	0%	0%	**0%**	0%	0.3%	0%	0%	**0.3%**	0%	0%	0%	0%	**-**	0%	1.1%	0%	0%	**1.1%**	0.6%
Buses and Single-Unit Trucks	1	0	0	0	**1**	1	15	0	0	**16**	0	0	0	0	**0**	0	7	0	0	**7**	24
% Buses and Single-Unit Trucks	7.7%	0%	0%	0%	**4.8%**	11.1%	1.7%	0%	0%	**1.8%**	0%	0%	0%	0%	**-**	0%	1.5%	0%	0%	**1.5%**	1.8%

*L: Left, R: Right, T: Thru, U: U-Turn

Symmes Road & Tedia Way - TMC
Thu May 9, 2024
PM Peak (3:45 PM - 4:45 PM) - Overall Peak Hour
All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)
All Movements
ID: 1182812, Location: 39.348056, -84.52548

Provided by: Gewalt Hamilton Associates Inc.
625 Forest Edge Drive, Vernon Hills, IL, 60061, US



ATTACHMENT B

PEAK HOUR to DESIGN HOUR FACTORS

FUNCTIONAL CLASSIFICATION = 03, 04, 05u

(Urban Principal Arterial, Urban Minor Arterial, & Urban Minor Collector)

Day / Month	Monthly Average by Day-of-Week							
	WEEKDAY MON-THUR	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
January	1.25	1.81	1.27	1.25	1.25	1.23	1.18	1.61
February	1.23	1.78	1.26	1.23	1.23	1.19	1.17	1.58
March	1.18	1.63	1.20	1.18	1.17	1.17	1.12	1.47
April	1.13	1.57	1.15	1.14	1.12	1.11	1.08	1.42
May	1.10	1.47	1.12	1.10	1.10	1.07	1.06	1.35
June	1.14	1.51	1.16	1.14	1.14	1.11	1.10	1.40
July	1.14	1.54	1.16	1.14	1.13	1.14	1.11	1.45
August	1.12	1.49	1.14	1.14	1.12	1.10	1.06	1.41
September	1.12	1.53	1.15	1.13	1.13	1.09	1.05	1.42
October	1.12	1.54	1.15	1.12	1.11	1.10	1.05	1.42
November	1.16	1.63	1.17	1.15	1.15	1.15	1.08	1.52
December	1.16	1.61	1.18	1.16	1.16	1.13	1.10	1.50

peak hour volume * factor = design hour volume

source: year 2018,2019,2021 Automatic Traffic Recorders (ATR) Data

ATR Stations:

2018: 15 Stations
2019: 21 Stations
2021: 22 Stations

Ohio Department of Transportatio
Modeling & Forecasting Section
Nov 2022

NOTE: These are NOT seasonal adjustment factors!!!

Note: Insufficient data exists to produce factors for functional classes 06 and 07 Urban.

For converting partial day turning movements counts to seasonally adjusted 24 hour (AADT) counts.
Yellow boxes require user input. Scroll down for 24 hour diagrams. Use the Seasonal AdjuistmtFactors_YYYY spreadsheet to lookup seasonal factor.
Use Avg TD by FC.xslx to compute P&A B&C FACTORs.

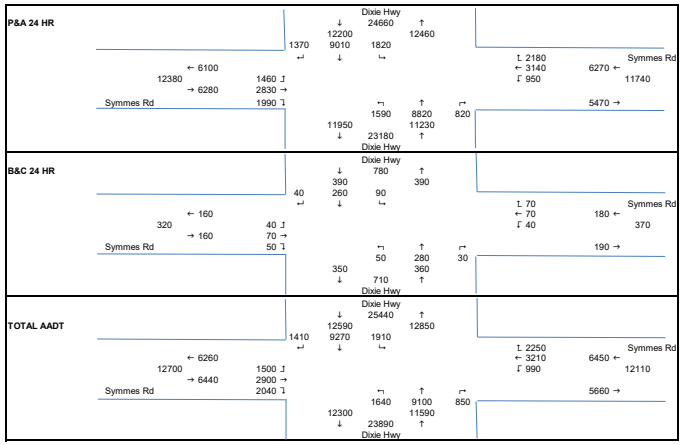
Date of Count: 5/9/2024 5 Thursday May

PART 1: INPUT PARTIAL DAY P&A VEHICLES — ROUTE Symmes Road
PARTIAL COUNT * FACTOR * SEASONAL FACTOR = 24 HR P&A

SOUTH LEG	Dixie Hwy	FC =	3	northbound			APROACH	DEPART						
				LT	THRU	RT	TOTAL	TOTAL		SOUTH LEG			APROACH	DEPART
	LT	THRU	RT	785	4350	402	5537	5914	LT	THRU	RT		TOTAL	TOTAL
P&A FACTOR	2.028	2.028	2.028	1591.98	8821.8	815.256	11229	11958.3	1590	8820	820		11230	11950
SEASONAL FACTOR	1.000	1.000	1.000	1591.98	8821.8	815.256	11229	11958.3	***1590***	***8820***	***820***		***11230***	***11950***
WEST LEG	Symmes Rd	FC =	4	eastbound			APROACH	DEPART						
	FACTOR			LT	THRU	RT	TOTAL	TOTAL		WEST LEG			APROACH	DEPART
	LT	THRU	RT	731	1410	995	3136	3027	LT	THRU	RT		TOTAL	TOTAL
P&A FACTOR	2.004	2.004	2.004	1464.92	2825.64	1993.98	6284.54	6101.17	1460	2830	1990		6280	6100
SEASONAL F	1.000	1.000	1.000	1464.92	2825.64	1993.98	6284.54	6101.17	***1460***	***2830***	***1990***		***6280***	***6100***
NORTH LEG	Dixie Hwy	FC =	3	southbound			APROACH	DEPART						
	FACTOR			LT	THRU	RT	TOTAL	TOTAL		NORTH LEG			APROACH	DEPART
	LT	THRU	RT	898	4445	676	6019	6171	LT	THRU	RT		TOTAL	TOTAL
P&A FACTOR	2.028	2.028	2.028	1821.14	9014.46	1370.93	12206.5	12471.1	1820	9010	1370		12200	12460
SEASONAL F	1.000	1.000	1.000	1821.14	9014.46	1370.93	12206.5	12471.1	***1820***	***9010***	***1370***		***12200***	***12460***
EAST LEG	Symmes Rd	FC =	4	westbound			APROACH	DEPART						
	FACTOR			LT	THRU	RT	TOTAL	TOTAL		EAST LEG			APROACH	DEPART
	LT	THRU	RT	474	1566	1090	3130	2710	LT	THRU	RT		TOTAL	TOTAL
P&A FACTOR	2.004	2.004	2.004	949.896	3138.26	2184.36	6272.52	5462.04	950	3140	2180		6270	5470
SEASONAL F	1.000	1.000	1.000	949.896	3138.26	2184.36	6272.52	5462.04	***950***	***3140***	***2180***		***6270***	***5470***

PART 2: INPUT PARTIAL DAY B&C VEHICLES — ROUTE Symmes Road
PARTIAL COUNT * FACTOR = 24 HR B&C

SOUTH LEG	Dixie Hwy	FC =	3	northbound			APROACH	DEPART						
	FACTOR			LT	THRU	RT	TOTAL	TOTAL		SOUTH LEG			APROACH	DEPART
	LT	THRU	RT	19	117	13	149	145	LT	THRU	RT		TOTAL	TOTAL
B&C FACTOR	2.410	2.410	2.410	45.79	281.97	31.33	359.09	346.342	50	280	30		360	350
SEASONAL FACTOR	1.000	1.000	1.000	45.79	281.97	31.33	359.09	346.342	***50***	***280***	***30***		***360***	***350***
WEST LEG	Symmes Rd	FC =	4	eastbound			APROACH	DEPART						
	FACTOR			LT	THRU	RT	TOTAL	TOTAL		WEST LEG			APROACH	DEPART
	LT	THRU	RT	18	31	20	69	67	LT	THRU	RT		TOTAL	TOTAL
B&C FACTOR	2.326	2.326	2.326	41.868	72.106	46.52	160.494	158.782	40	70	50		160	160
SEASONAL FACTOR	1.000	1.000	1.000	41.868	72.106	46.52	160.494	112.992	***40***	***70***	***50***		***160***	***160***
NORTH LEG	Dixie Hwy	FC =	3	southbound			APROACH	DEPART						
	FACTOR			LT	THRU	RT	TOTAL	TOTAL		NORTH LEG			APROACH	DEPART
	LT	THRU	RT	37	108	16	161	166	LT	THRU	RT		TOTAL	TOTAL
B&C FACTOR	2.410	2.410	2.410	89.17	260.28	38.56	388.01	395.944	90	260	40		390	390
SEASONAL FACTOR	1.000	1.000	1.000	89.17	260.28	38.56	388.01	395.944	***90***	***260***	***40***		***390***	***390***
EAST LEG	Symmes Rd	FC =	4	westbound			APROACH	DEPART						
	FACTOR			LT	THRU	RT	TOTAL	TOTAL		EAST LEG			APROACH	DEPART
	LT	THRU	RT	17	32	31	80	81	LT	THRU	RT		TOTAL	TOTAL
B&C FACTOR	2.326	2.326	2.326	39.542	74.432	72.106	186.08	192.606	40	70	70		180	190
SEASONAL FACTOR	1.000	1.000	1.000	39.542	74.432	72.106	186.08	192.606	***40***	***70***	***70***		***180***	***190***



Group	URBAN MINOR ARTERIAL, COLLECTORS, LOCAL (U04,05,06,07)						
From Year:	2021			To Year:	2021		
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Jan	1.831	1.129	1.026	1.012	1.007	0.959	1.329
Feb	1.608	1.248	1.307	1.044	1.077	0.982	1.289
Mar	1.384	0.960	0.923	0.908	0.936	0.880	1.110
Apr	1.317	0.913	0.881	0.903	0.900	0.850	1.117
May	1.260	0.922	0.891	0.879	0.849	0.838	1.038
Jun	1.254	0.937	0.892	0.910	0.881	0.872	1.079
Jul	1.308	0.929	0.910	0.896	0.907	0.869	1.122
Aug	1.279	0.918	0.909	0.900	0.880	0.857	1.088
Sep	1.324	0.948	0.918	0.924	0.870	0.829	1.083
Oct	1.377	0.954	0.913	0.904	0.901	0.873	1.122
Nov	1.478	0.968	0.941	0.928	0.953	0.894	1.197
Dec	1.426	0.972	0.954	0.958	0.932	0.893	1.212

Group	URBAN OTHER PRINCIPAL ARTERIAL (U03)						
From Year:	2021			To Year:	2021		
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Jan	1.740	1.135	1.084	1.072	1.056	0.997	1.272
Feb	1.564	1.239	1.246	1.067	1.091	0.983	1.228
Mar	1.375	1.005	0.968	0.943	0.976	0.899	1.078
Apr	1.332	0.959	0.919	0.936	0.933	0.862	1.061
May	1.247	0.952	0.920	0.909	0.877	0.852	1.020
Jun	1.227	0.948	0.912	0.915	0.888	0.854	1.027
Jul	1.285	0.952	0.921	0.905	0.893	0.842	1.046
Aug	1.257	0.953	0.931	0.920	0.893	0.846	1.026
Sep	1.295	0.960	0.945	0.935	0.900	0.841	1.061
Oct	1.331	0.973	0.936	0.920	0.906	0.852	1.068
Nov	1.393	0.957	0.934	0.917	0.921	0.855	1.093
Dec	1.364	0.973	0.941	0.926	0.918	0.863	1.109

Hourly Percent By Vehicle Type

Urban Minor Arterial

for Partial count factor, enter 1 for hours counted.

Hour	Hour of Day	P&A (Cars)	% P&A (Cars)	B&C (Trucks)	% B&C (Trucks)	Total	% Total	Counted Hour	Partial Count Factor 2.004 PA	2.326 BC	2.008 Total
0	12-1am	101,286	0.3%	6,321	0.6%	107,607	0.3%	0	0	0	0
1	1-2am	55,421	0.2%	5,822	0.6%	61,243	0.2%	0	0	0	0
2	2-3am	46,088	0.1%	6,340	0.6%	52,428	0.2%	0	0	0	0
3	3-4am	59,179	0.2%	10,079	1.0%	69,258	0.2%	0	0	0	0
4	4-5am	131,821	0.4%	16,040	1.5%	147,861	0.4%	0	0	0	0
5	5-6am	439,431	1.3%	24,815	2.4%	464,246	1.4%	0	0	0	0
6	6-7am	1,215,945	3.7%	45,291	4.3%	1,261,236	3.7%	1	0.037	0.043	0.037
7	7-8am	2,111,094	6.4%	67,809	6.5%	2,178,903	6.4%	1	0.064	0.065	0.064
8	8-9am	2,051,973	6.2%	78,617	7.5%	2,130,590	6.3%	1	0.062	0.075	0.063
9	9-10am	1,732,110	5.3%	82,520	7.9%	1,814,630	5.4%	0	0	0	0
10	10-11am	1,790,009	5.5%	84,539	8.0%	1,874,548	5.5%	0	0	0	0
11	11-12am	2,086,432	6.4%	85,619	8.2%	2,172,051	6.4%	0	0	0	0
12	12-1pm	2,314,243	7.0%	84,469	8.0%	2,398,712	7.1%	0	0	0	0
13	1-2pm	2,256,186	6.9%	82,478	7.9%	2,338,664	6.9%	0	0	0	0
14	2-3pm	2,572,979	7.8%	79,776	7.6%	2,652,755	7.8%	1	0.078	0.076	0.078
15	3-4pm	2,904,103	8.8%	73,991	7.0%	2,978,094	8.8%	1	0.088	0.07	0.088
16	4-5pm	2,921,745	8.9%	60,035	5.7%	2,981,778	8.8%	1	0.089	0.057	0.088
17	5-6pm	2,669,623	8.1%	46,737	4.4%	2,716,360	8.0%	1	0.081	0.044	0.08
18	6-7pm	1,843,335	5.6%	32,760	3.1%	1,876,095	5.5%	0	0	0	0
19	7-8pm	1,281,184	3.9%	24,247	2.3%	1,305,431	3.9%	0	0	0	0
20	8-9pm	952,825	2.9%	18,443	1.8%	971,268	2.9%	0	0	0	0
21	9-10pm	642,118	2.0%	14,211	1.4%	656,329	1.9%	0	0	0	0
22	10-11pm	415,681	1.3%	11,037	1.1%	426,718	1.3%	0	0	0	0
23	11-12pm	246,443	0.8%	8,390	0.8%	254,833	0.8%	0	0	0	0
	Total	32,841,254	100%	1,050,384	100%	33,891,638	100%		0.499	0.43	0.498

Hourly Percent By Vehicle Type

Urban Principal Arterial

for Partial count factor, enter 1 for hours coun

Hour	Hour of Day	P&A (Cars)	% P&A (Cars)	B&C (Trucks)	% B&C (Trucks)	Total	% Total	Counted Hour	Partial Count Factor 2.028 PA	2.410 BC	2.045 Total
0	12-1am	322,657	0.3%	30,867	0.9%	353,524	0.4%	0	0	0	0
1	1-2am	185,712	0.2%	26,022	0.8%	211,734	0.2%	0	0	0	0
2	2-3am	170,725	0.2%	27,991	0.8%	198,716	0.2%	0	0	0	0
3	3-4am	259,501	0.3%	39,607	1.2%	299,108	0.3%	0	0	0	0
4	4-5am	669,469	0.7%	59,732	1.8%	729,201	0.7%	0	0	0	0
5	5-6am	1,955,939	2.1%	103,021	3.0%	2,058,960	2.1%	0	0	0	0
6	6-7am	4,042,879	4.2%	160,898	4.8%	4,203,777	4.3%	1	0.042	0.048	0.043
7	7-8am	6,079,303	6.4%	216,928	6.4%	6,296,231	6.4%	1	0.064	0.064	0.064
8	8-9am	5,708,179	6.0%	243,017	7.2%	5,951,196	6.0%	1	0.06	0.072	0.06
9	9-10am	5,069,365	5.3%	258,993	7.7%	5,328,358	5.4%	0	0	0	0
10	10-11am	5,149,770	5.4%	262,677	7.8%	5,412,447	5.5%	0	0	0	0
11	11-12am	5,690,975	6.0%	261,917	7.7%	5,952,892	6.0%	0	0	0	0
12	12-1pm	6,124,931	6.4%	253,390	7.5%	6,378,321	6.5%	0	0	0	0
13	1-2pm	6,209,321	6.5%	248,483	7.3%	6,457,804	6.6%	0	0	0	0
14	2-3pm	6,913,138	7.3%	238,273	7.0%	7,151,411	7.3%	1	0.073	0.07	0.073
15	3-4pm	7,891,732	8.3%	215,666	6.4%	8,107,398	8.2%	1	0.083	0.064	0.082
16	4-5pm	8,336,165	8.8%	181,473	5.4%	8,517,638	8.6%	1	0.088	0.054	0.086
17	5-6pm	7,861,161	8.3%	145,289	4.3%	8,006,450	8.1%	1	0.083	0.043	0.081
18	6-7pm	5,597,635	5.9%	108,035	3.2%	5,705,670	5.8%	0	0	0	0
19	7-8pm	3,916,106	4.1%	81,086	2.4%	3,997,192	4.1%	0	0	0	0
20	8-9pm	2,883,489	3.0%	69,194	2.0%	2,952,683	3.0%	0	0	0	0
21	9-10pm	2,008,679	2.1%	58,962	1.7%	2,067,641	2.1%	0	0	0	0
22	10-11pm	1,291,567	1.4%	49,972	1.5%	1,341,539	1.4%	0	0	0	0
23	11-12pm	788,344	0.8%	39,989	1.2%	828,333	0.8%	0	0	0	0
	Total	95,126,742	100%	3,381,482	100%	98,508,224	100%		0.493	0.415	0.489

For converting partial day turning movements counts to seasonally adjusted 24 hour (AADT) counts.
Yellow boxes require user input. Scroll down for 24 hour diagrams. Use the Seasonal AdjuistmtFactors_YYYY spreadsheet to lookup seasonal factor.
Use Avg TD by FC.xslx to compute P&A B&C FACTORs.

Date of Count: 5/9/2024 5 Thursday May

PART 1: INPUT PARTIAL DAY P&A VEHICLES — ROUTE Symmes Road

PARTIAL COUNT * FACTOR * SEASONAL FACTOR = 24 HR P&A

SOUTH LEG Hicks Blvd FC = 5 — northbound

	LT	THRU	RT	LT	THRU	RT	APROACH TOTAL	DEPART TOTAL	LT	THRU	RT	APROACH TOTAL	DEPART TOTAL
				69	0	554	623	922		SOUTH LEG			
P&A FACTOR	2.004	2.004	2.004	138.276	0	1110.22	1248.49	1847.69	140	0	1110	1250	1850
SEASONAL FACTOR	1.000	1.000	1.000	138.276	0	1110.22	1248.49	1847.69	***140***	***0***	***1110***	***1250***	***1850***

WEST LEG Symmes Rd FC = 4 — eastbound

	LT	THRU	RT	LT	THRU	RT	APROACH TOTAL	DEPART TOTAL	LT	THRU	RT	APROACH TOTAL	DEPART TOTAL
FACTOR										WEST LEG			
P&A FACTOR	2.004	2.004	2.004	0	2498	153	2651	2909	0	5010	310	5320	5830
SEASONAL F	1.000	1.000	1.000	0	5005.99	306.612	5312.6	5829.64	***0***	***5010***	***310***	***5320***	***5830***

NORTH LEG Hicks Blvd FC = 5 — southbound

	LT	THRU	RT	LT	THRU	RT	APROACH TOTAL	DEPART TOTAL	LT	THRU	RT	APROACH TOTAL	DEPART TOTAL
FACTOR										NORTH LEG			
P&A FACTOR	2.004	2.004	2.004	0	0	0	0	0	0	0	0	0	0
SEASONAL F	1.000	1.000	1.000	0	0	0	0	0	***0***	***0***	***0***	***0***	***0***

EAST LEG Symmes Rd FC = 4 — westbound

	LT	THRU	RT	LT	THRU	RT	APROACH TOTAL	DEPART TOTAL	LT	THRU	RT	APROACH TOTAL	DEPART TOTAL
FACTOR										EAST LEG			
P&A FACTOR	2.004	2.004	2.004	1541.08	5691.36	0	7232.44	6116.21	1540	5690	0	7230	6120
SEASONAL F	1.000	1.000	1.000	1541.08	5691.36	0	7232.44	6116.21	***1540***	***5690***	***0***	***7230***	***6120***

PART 2: INPUT PARTIAL DAY B&C VEHICLES — ROUTE Symmes Road

PARTIAL COUNT * FACTOR = 24 HR B&C

SOUTH LEG Hicks Blvd FC = 5 — northbound

	LT	THRU	RT	LT	THRU	RT	APROACH TOTAL	DEPART TOTAL	LT	THRU	RT	APROACH TOTAL	DEPART TOTAL
FACTOR										SOUTH LEG			
B&C FACTOR	2.326	2.326	2.326	6.978	0	20.934	27.912	46.52	10	0	20	30	50
SEASONAL FACTOR	1.000	1.000	1.000	6.978	0	20.934	27.912	46.52	***10***	***0***	***20***	***30***	***50***

WEST LEG Symmes Rd FC = 4 — eastbound

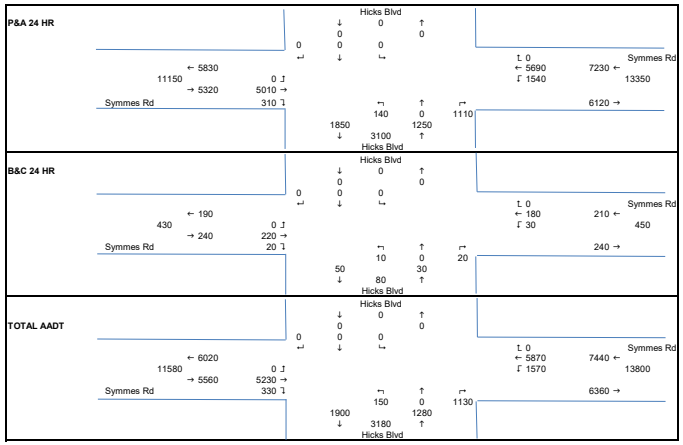
	LT	THRU	RT	LT	THRU	RT	APROACH TOTAL	DEPART TOTAL	LT	THRU	RT	APROACH TOTAL	DEPART TOTAL
FACTOR										WEST LEG			
B&C FACTOR	2.326	2.326	2.326	0	218.644	18.608	237.252	186.08	0	220	20	240	190
SEASONAL FACTOR	1.000	1.000	1.000	0	218.644	18.608	237.252	179.102	***0***	***220***	***20***	***240***	***190***

NORTH LEG Hicks Blvd FC = 5 — southbound

	LT	THRU	RT	LT	THRU	RT	APROACH TOTAL	DEPART TOTAL	LT	THRU	RT	APROACH TOTAL	DEPART TOTAL
FACTOR										NORTH LEG			
B&C FACTOR	2.326	2.326	2.326	0	0	0	0	0	0	0	0	0	0
SEASONAL FACTOR	1.000	1.000	1.000	0	0	0	0	0	***0***	***0***	***0***	***0***	***0***

EAST LEG Symmes Rd FC = 4 — westbound

	LT	THRU	RT	LT	THRU	RT	APROACH TOTAL	DEPART TOTAL	LT	THRU	RT	APROACH TOTAL	DEPART TOTAL
FACTOR										EAST LEG			
B&C FACTOR	2.326	2.326	2.326	27.912	179.102	0	207.014	239.578	30	180	0	210	240
SEASONAL FACTOR	1.000	1.000	1.000	27.912	179.102	0	207.014	239.578	***30***	***180***	***0***	***210***	***240***



Group:	URBAN MINOR ARTERIAL, COLLECTORS, LOCAL (U04,05,06,07)						
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Jul	1.308	0.929	0.910	0.896	0.907	0.869	1.122
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Sep	1.324	0.948	0.918	0.924	0.870	0.829	1.083
Oct	1.377	0.954	0.913	0.904	0.901	0.873	1.122
Nov	1.478	0.968	0.941	0.928	0.953	0.894	1.197
Dec	1.426	0.972	0.954	0.958	0.932	0.893	1.212

Hourly Percent By Vehicle Type

for Partial count factor, enter 1 for hours counted.

Hour	Hour of Day	P&A (Cars)	% P&A (Cars)	B&C (Trucks)	% B&C (Trucks)	Total	% Total	Counted Hour	Partial Count Factor 2.004 PA	2.326 BC	2.008 Total
		Urban Minor Arterial									
0	12-1am	101,286	0.3%	6,321	0.6%	107,607	0.3%	0	0	0	0
1	1-2am	55,421	0.2%	5,822	0.6%	61,243	0.2%	0	0	0	0
2	2-3am	46,088	0.1%	6,340	0.6%	52,428	0.2%	0	0	0	0
3	3-4am	59,179	0.2%	10,079	1.0%	69,258	0.2%	0	0	0	0
4	4-5am	131,821	0.4%	16,040	1.5%	147,861	0.4%	0	0	0	0
5	5-6am	439,431	1.3%	24,815	2.4%	464,246	1.4%	0	0	0	0
6	6-7am	1,215,945	3.7%	45,291	4.3%	1,261,236	3.7%	1	0.037	0.043	0.037
7	7-8am	2,111,094	6.4%	67,809	6.5%	2,178,903	6.4%	1	0.064	0.065	0.064
8	8-9am	2,051,973	6.2%	78,617	7.5%	2,130,590	6.3%	1	0.062	0.075	0.063
9	9-10am	1,732,110	5.3%	82,520	7.9%	1,814,630	5.4%	0	0	0	0
10	10-11am	1,790,009	5.5%	84,539	8.0%	1,874,548	5.5%	0	0	0	0
11	11-12am	2,086,432	6.4%	85,619	8.2%	2,172,051	6.4%	0	0	0	0
12	12-1pm	2,314,243	7.0%	84,469	8.0%	2,398,712	7.1%	0	0	0	0
13	1-2pm	2,256,186	6.9%	82,478	7.9%	2,338,664	6.9%	0	0	0	0
14	2-3pm	2,572,979	7.8%	79,776	7.6%	2,652,755	7.8%	1	0.078	0.076	0.078
15	3-4pm	2,904,103	8.8%	73,991	7.0%	2,978,094	8.8%	1	0.088	0.07	0.088
16	4-5pm	2,921,745	8.9%	60,035	5.7%	2,981,778	8.8%	1	0.089	0.057	0.088
17	5-6pm	2,669,623	8.1%	46,737	4.4%	2,716,360	8.0%	1	0.081	0.044	0.08
18	6-7pm	1,843,335	5.6%	32,760	3.1%	1,876,095	5.5%	0	0	0	0
19	7-8pm	1,281,184	3.9%	24,247	2.3%	1,305,431	3.9%	0	0	0	0
20	8-9pm	952,825	2.9%	18,443	1.8%	971,268	2.9%	0	0	0	0
21	9-10pm	642,118	2.0%	14,211	1.4%	656,329	1.9%	0	0	0	0
22	10-11pm	415,681	1.3%	11,037	1.1%	426,718	1.3%	0	0	0	0
23	11-12pm	246,443	0.8%	8,390	0.8%	254,833	0.8%	0	0	0	0
	Total	32,841,254	100%	1,050,384	100%	33,891,638	100%		0.499	0.43	0.498

For converting partial day turning movements counts to seasonally adjusted 24 hour (AADT) counts.
Yellow boxes require user input. Scroll down for 24 hour diagrams. Use the Seasonal AdjuistmtFactors_YYYY spreadsheet to lookup seasonal factor.
Use Avg TD by FC.xslx to compute P&A B&C FACTORs.

Date of Count: 5/9/2024 5 Thursday May

PART 1: INPUT PARTIAL DAY P&A VEHICLES — ROUTE Symmes Road

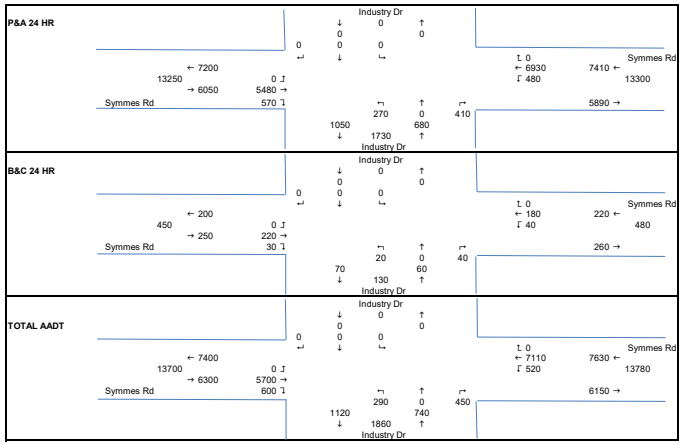
PARTIAL COUNT * FACTOR * SEASONAL FACTOR = 24 HR P&A

SOUTH LEG	Industry Dr	FC =	4	northbound			APROACH	DEPART						
				LT	THRU	RT	TOTAL	TOTAL		SOUTH LEG		APROACH	DEPART
	LT	THRU	RT	135	0	207	342	523	LT	THRU	RT	TOTAL	TOTAL
P&A FACTOR	2.004	2.004	2.004	270.54	0	414.828	685.368	1048.09	270	0	410	680	1050
SEASONAL FACTOR	1.000	1.000	1.000	270.54	0	414.828	685.368	1048.09	***270***	***0***	***410***	***680***	***1050***
WEST LEG	Symmes Rd	FC =	4	eastbound			APROACH	DEPART					
	FACTOR			LT	THRU	RT	TOTAL	TOTAL		WEST LEG		APROACH	DEPART
	LT	THRU	RT	0	2734	282	3016	3593	LT	THRU	RT	TOTAL	TOTAL
P&A FACTOR	2.004	2.004	2.004	0	5478.94	565.128	6044.06	7200.37	0	5480	570	6050	7200
SEASONAL F	1.000	1.000	1.000	0	5478.94	565.128	6044.06	7200.37	***0***	***5480***	***570***	***6050***	***7200***
NORTH LEG	Industry Dr	FC =	4	southbound			APROACH	DEPART					
	FACTOR			LT	THRU	RT	TOTAL	TOTAL		NORTH LEG		APROACH	DEPART
	LT	THRU	RT	0	0	0	0	0	LT	THRU	RT	TOTAL	TOTAL
P&A FACTOR	2.004	2.004	2.004	0	0	0	0	0	0	0	0	0	0
SEASONAL F	1.000	1.000	1.000	0	0	0	0	0	***0***	***0***	***0***	***0***	***0***
EAST LEG	Symmes Rd	FC =	4	westbound			APROACH	DEPART					
	FACTOR			LT	THRU	RT	TOTAL	TOTAL		EAST LEG		APROACH	DEPART
	LT	THRU	RT	241	3458	0	3699	2941	LT	THRU	RT	TOTAL	TOTAL
P&A FACTOR	2.004	2.004	2.004	482.964	6929.83	0	7412.8	5893.76	480	6930	0	7410	5890
SEASONAL F	1.000	1.000	1.000	482.964	6929.83	0	7412.8	5893.76	***480***	***6930***	***0***	***7410***	***5890***

PART 2: INPUT PARTIAL DAY B&C VEHICLES — ROUTE Symmes Road

PARTIAL COUNT * FACTOR = 24 HR B&C

SOUTH LEG	Industry Dr	FC =	4	northbound			APROACH	DEPART						
	FACTOR			LT	THRU	RT	TOTAL	TOTAL		SOUTH LEG		APROACH	DEPART
	LT	THRU	RT	7	0	19	26	32	LT	THRU	RT	TOTAL	TOTAL
B&C FACTOR	2.326	2.326	2.326	16.282	0	44.194	60.476	74.432	20	0	40	60	70
SEASONAL FACTOR	1.000	1.000	1.000	16.282	0	44.194	60.476	74.432	***20***	***0***	***40***	***60***	***70***
WEST LEG	Symmes Rd	FC =	4	eastbound			APROACH	DEPART					
	FACTOR			LT	THRU	RT	TOTAL	TOTAL		WEST LEG		APROACH	DEPART
	LT	THRU	RT	0	93	14	107	86	LT	THRU	RT	TOTAL	TOTAL
B&C FACTOR	2.326	2.326	2.326	0	216.318	32.564	248.882	200.036	0	220	30	250	200
SEASONAL FACTOR	1.000	1.000	1.000	0	216.318	32.564	248.882	183.754	***0***	***220***	***30***	***250***	***200***
NORTH LEG	Industry Dr	FC =	4	southbound			APROACH	DEPART					
	FACTOR			LT	THRU	RT	TOTAL	TOTAL		NORTH LEG		APROACH	DEPART
	LT	THRU	RT	0	0	0	0	0	LT	THRU	RT	TOTAL	TOTAL
B&C FACTOR	2.326	2.326	2.326	0	0	0	0	0	0	0	0	0	0
SEASONAL FACTOR	1.000	1.000	1.000	0	0	0	0	0	***0***	***0***	***0***	***0***	***0***
EAST LEG	Symmes Rd	FC =	4	westbound			APROACH	DEPART					
	FACTOR			LT	THRU	RT	TOTAL	TOTAL		EAST LEG		APROACH	DEPART
	LT	THRU	RT	18	79	0	97	112	LT	THRU	RT	TOTAL	TOTAL
B&C FACTOR	2.326	2.326	2.326	41.868	183.754	0	225.622	260.512	40	180	0	220	260
SEASONAL FACTOR	1.000	1.000	1.000	41.868	183.754	0	225.622	260.512	***40***	***180***	***0***	***220***	***260***



Group	URBAN MINOR ARTERIAL, COLLECTORS, LOCAL (U04,05,06,07)						
From Year:	2021		To Year:		2021		
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Jan	1.831	1.129	1.026	1.012	1.007	0.959	1.329
Feb	1.608	1.248	1.307	1.044	1.077	0.982	1.289
Mar	1.384	0.960	0.923	0.908	0.936	0.880	1.110
Apr	1.317	0.913	0.881	0.903	0.900	0.850	1.117
May	1.260	0.922	0.891	0.879	0.849	0.838	1.038
Jun	1.254	0.937	0.892	0.910	0.881	0.872	1.079
Jul	1.308	0.929	0.910	0.896	0.907	0.869	1.122
Aug	1.279	0.918	0.909	0.900	0.880	0.857	1.088
Sep	1.324	0.948	0.918	0.924	0.870	0.829	1.083
Oct	1.377	0.954	0.913	0.904	0.901	0.873	1.122
Nov	1.478	0.968	0.941	0.928	0.953	0.894	1.197
Dec	1.426	0.972	0.954	0.958	0.932	0.893	1.212

Hourly Percent By Vehicle Type

for Partial count factor, enter 1 for hours counted.

		Urban Minor Arterial						Partial Count Factor		
								2.004	2.326	2.008
Hour	Hour of Day	P&A (Cars)	% P&A (Cars)	B&C (Trucks)	% B&C (Trucks)	Total	% Total	Counted Hour	PA	BC	Total
0	12-1am	101,286	**0.3%**	6,321	**0.6%**	107,607	**0.3%**	0	0	0	0
1	1-2am	55,421	**0.2%**	5,822	**0.6%**	61,243	**0.2%**	0	0	0	0
2	2-3am	46,088	**0.1%**	6,340	**0.6%**	52,428	**0.2%**	0	0	0	0
3	3-4am	59,179	**0.2%**	10,079	**1.0%**	69,258	**0.2%**	0	0	0	0
4	4-5am	131,821	**0.4%**	16,040	**1.5%**	147,861	**0.4%**	0	0	0	0
5	5-6am	439,431	**1.3%**	24,815	**2.4%**	464,246	**1.4%**	0	0	0	0
6	6-7am	1,215,945	**3.7%**	45,291	**4.3%**	1,261,236	**3.7%**	1	0.037	0.043	0.037
7	7-8am	2,111,094	**6.4%**	67,809	**6.5%**	2,178,903	**6.4%**	1	0.064	0.065	0.064
8	8-9am	2,051,973	**6.2%**	78,617	**7.5%**	2,130,590	**6.3%**	1	0.062	0.075	0.063
9	9-10am	1,732,110	**5.3%**	82,520	**7.9%**	1,814,630	**5.4%**	0	0	0	0
10	10-11am	1,790,009	**5.5%**	84,539	**8.0%**	1,874,548	**5.5%**	0	0	0	0
11	11-12am	2,086,432	**6.4%**	85,619	**8.2%**	2,172,051	**6.4%**	0	0	0	0
12	12-1pm	2,314,243	**7.0%**	84,469	**8.0%**	2,398,712	**7.1%**	0	0	0	0
13	1-2pm	2,256,186	**6.9%**	82,478	**7.9%**	2,338,664	**6.9%**	0	0	0	0
14	2-3pm	2,572,979	**7.8%**	79,776	**7.6%**	2,652,755	**7.8%**	1	0.078	0.076	0.078
15	3-4pm	2,904,103	**8.8%**	73,991	**7.0%**	2,978,094	**8.8%**	1	0.088	0.07	0.088
16	4-5pm	2,921,745	**8.9%**	60,033	**5.7%**	2,981,778	**8.8%**	1	0.089	0.057	0.088
17	5-6pm	2,669,623	**8.1%**	46,737	**4.4%**	2,716,360	**8.0%**	1	0.081	0.044	0.08
18	6-7pm	1,843,335	**5.6%**	32,760	**3.1%**	1,876,095	**5.5%**	0	0	0	0
19	7-8pm	1,281,184	**3.9%**	24,247	**2.3%**	1,305,431	**3.9%**	0	0	0	0
20	8-9pm	952,825	**2.9%**	18,443	**1.8%**	971,268	**2.9%**	0	0	0	0
21	9-10pm	642,118	**2.0%**	14,211	**1.4%**	656,329	**1.9%**	0	0	0	0
22	10-11pm	415,681	**1.3%**	11,037	**1.1%**	426,718	**1.3%**	0	0	0	0
23	11-12pm	246,443	**0.8%**	8,390	**0.8%**	254,833	**0.8%**	0	0	0	0
	Total	32,841,254	**100%**	1,050,384	**100%**	33,891,638	**100%**		0.499	0.43	0.498

For converting partial day turning movements counts to seasonally adjusted 24 hour (AADT) counts.
Yellow boxes require user input. Scroll down for 24 hour diagrams. Use the Seasonal AdjuistmtFactors_YYYY spreadsheet to lookup seasonal factor.
Use Avg TD by FC.xslx to compute P&A B&C FACTORs.

Date of Count: 5/9/2024 5 Thursday May

PART 1: INPUT PARTIAL DAY P&A VEHICLES — ROUTE Symmes Road

PARTIAL COUNT * FACTOR * SEASONAL FACTOR = 24 HR P&A

SOUTH LEG Tidia Way FC = 4 — northbound

	LT	THRU	RT	LT	THRU	RT	APROACH TOTAL	DEPART TOTAL	LT	SOUTH LEG THRU	RT	APROACH TOTAL	DEPART TOTAL
				3	0	1	4	17					
P&A FACTOR	2.004	2.004	2.004	6.012	0	2.004	8.016	34.068	10	0	0	10	40
SEASONAL FACTOR	1.000	1.000	1.000	6.012	0	2.004	8.016	34.068	***10***	***0***	***0***	***10***	***40***

WEST LEG Symmes Rd FC = 4 — eastbound

	LT	THRU	RT	LT	THRU	RT	APROACH TOTAL	DEPART TOTAL	LT	WEST LEG THRU	RT	APROACH TOTAL	DEPART TOTAL
FACTOR				67	2875	9	2951	3744					
P&A FACTOR	2.004	2.004	2.004	134.268	5761.5	18.036	5913.8	7502.98	130	5760	20	5910	7510
SEASONAL F	1.000	1.000	1.000	134.268	5761.5	18.036	5913.8	7502.98	***130***	***5760***	***20***	***5910***	***7510***

NORTH LEG Tedia Way FC = 4 — southbound

	LT	THRU	RT	LT	THRU	RT	APROACH TOTAL	DEPART TOTAL	LT	NORTH LEG THRU	RT	APROACH TOTAL	DEPART TOTAL
FACTOR				44	0	73	117	143					
P&A FACTOR	2.004	2.004	2.004	88.176	0	146.292	234.468	286.572	90	0	150	240	280
SEASONAL F	1.000	1.000	1.000	88.176	0	146.292	234.468	286.572	***90***	***0***	***150***	***240***	***280***

EAST LEG Symmes Rd FC = 4 — westbound

	LT	THRU	RT	LT	THRU	RT	APROACH TOTAL	DEPART TOTAL	LT	EAST LEG THRU	RT	APROACH TOTAL	DEPART TOTAL
FACTOR				8	3668	76	3752	2920					
P&A FACTOR	2.004	2.004	2.004	16.032	7350.67	152.304	7519.01	5851.68	20	7350	150	7520	5850
SEASONAL F	1.000	1.000	1.000	16.032	7350.67	152.304	7519.01	5851.68	***20***	***7350***	***150***	***7520***	***5850***

PART 2: INPUT PARTIAL DAY B&C VEHICLES — ROUTE Symmes Road

PARTIAL COUNT * FACTOR = 24 HR B&C

SOUTH LEG Tidia Way FC = 4 — northbound

	LT	THRU	RT	LT	THRU	RT	APROACH TOTAL	DEPART TOTAL	LT	SOUTH LEG THRU	RT	APROACH TOTAL	DEPART TOTAL
FACTOR				0	0	0	0	0					
B&C FACTOR	2.326	2.326	2.326	0	0	0	0	0	0	0	0	0	0
SEASONAL FACTOR	1.000	1.000	1.000	0	0	0	0	0	***0***	***0***	***0***	***0***	***0***

WEST LEG Symmes Rd FC = 4 — eastbound

	LT	THRU	RT	LT	THRU	RT	APROACH TOTAL	DEPART TOTAL	LT	WEST LEG THRU	RT	APROACH TOTAL	DEPART TOTAL
FACTOR				8	103	0	111	108					
B&C FACTOR	2.326	2.326	2.326	18.608	239.578	0	258.186	251.208	20	240	0	260	250
SEASONAL FACTOR	1.000	1.000	1.000	18.608	239.578	0	258.186	251.208	***20***	***240***	***0***	***260***	***250***

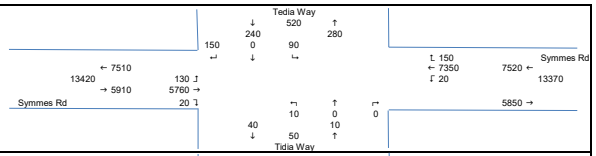
NORTH LEG Tedia Way FC = 4 — southbound

	LT	THRU	RT	LT	THRU	RT	APROACH TOTAL	DEPART TOTAL	LT	NORTH LEG THRU	RT	APROACH TOTAL	DEPART TOTAL
FACTOR				1	0	4	5	12					
B&C FACTOR	2.326	2.326	2.326	2.326	0	9.304	11.63	27.912	0	0	10	10	30
SEASONAL FACTOR	1.000	1.000	1.000	2.326	0	9.304	11.63	27.912	***0***	***0***	***10***	***10***	***30***

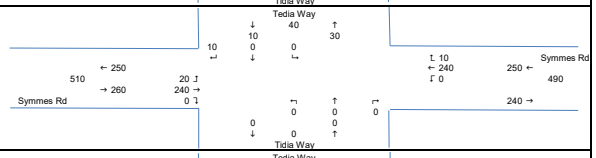
EAST LEG Symmes Rd FC = 4 — westbound

	LT	THRU	RT	LT	THRU	RT	APROACH TOTAL	DEPART TOTAL	LT	EAST LEG THRU	RT	APROACH TOTAL	DEPART TOTAL
FACTOR				0	104	4	108	104					
B&C FACTOR	2.326	2.326	2.326	0	241.904	9.304	251.208	241.904	0	240	10	250	240
SEASONAL FACTOR	1.000	1.000	1.000	0	241.904	9.304	251.208	241.904	***0***	***240***	***10***	***250***	***240***

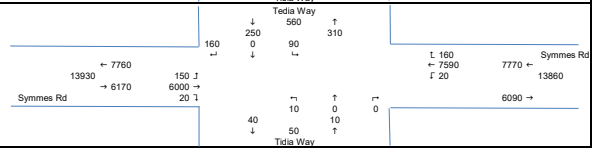
P&A 24 HR



B&C 24 HR



TOTAL AADT



Group:	URBAN MINOR ARTERIAL, COLLECTORS, LOCAL (U04,05,06,07)						
From Year:	2021			To Year:	2021		
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Jan	1.831	1.129	1.026	1.012	1.007	0.959	1.329
Feb	1.608	1.248	1.307	1.044	1.077	0.982	1.289
Mar	1.384	0.960	0.923	0.908	0.936	0.880	1.110
Apr	1.317	0.913	0.881	0.903	0.900	0.850	1.117
May	1.260	0.922	0.891	0.879	0.849	0.838	1.038
Jun	1.254	0.937	0.892	0.910	0.881	0.872	1.079
Jul	1.308	0.929	0.910	0.896	0.907	0.869	1.122
Aug	1.279	0.918	0.909	0.900	0.880	0.857	1.088
Sep	1.324	0.948	0.918	0.924	0.870	0.829	1.083
Oct	1.377	0.954	0.913	0.904	0.901	0.873	1.122
Nov	1.478	0.968	0.941	0.928	0.953	0.894	1.197
Dec	1.426	0.972	0.954	0.958	0.932	0.893	1.212

Hourly Percent By Vehicle Type

for Partial count factor, enter 1 for hours counted.

Hour	Hour of Day	P&A (Cars)	% P&A (Cars)	B&C (Trucks)	% B&C (Trucks)	Total	% Total	Counted Hour	Partial Count Factor 2.004 PA	2.326 BC	2.008 Total
			Urban Minor Arterial								
0	12-1am	101,286	0.3%	6,321	0.6%	107,607	0.3%	0	0	0	0
1	1-2am	55,421	0.2%	5,822	0.6%	61,243	0.2%	0	0	0	0
2	2-3am	46,088	0.1%	6,340	0.6%	52,428	0.2%	0	0	0	0
3	3-4am	59,179	0.2%	10,079	1.0%	69,258	0.2%	0	0	0	0
4	4-5am	131,821	0.4%	16,040	1.5%	147,861	0.4%	0	0	0	0
5	5-6am	439,431	1.3%	24,815	2.4%	464,246	1.4%	0	0	0	0
6	6-7am	1,215,945	3.7%	45,291	4.3%	1,261,236	3.7%	1	0.037	0.043	0.037
7	7-8am	2,111,094	6.4%	67,809	6.5%	2,178,903	6.4%	1	0.064	0.065	0.064
8	8-9am	2,051,973	6.2%	78,617	7.5%	2,130,590	6.3%	1	0.062	0.075	0.063
9	9-10am	1,732,110	5.3%	82,520	7.9%	1,814,630	5.4%	0	0	0	0
10	10-11am	1,790,009	5.5%	84,539	8.0%	1,874,548	5.5%	0	0	0	0
11	11-12am	2,086,432	6.4%	85,619	8.2%	2,172,051	6.4%	0	0	0	0
12	12-1pm	2,314,243	7.0%	84,469	8.0%	2,398,712	7.1%	0	0	0	0
13	1-2pm	2,256,186	6.9%	82,478	7.9%	2,338,664	6.9%	0	0	0	0
14	2-3pm	2,572,979	7.8%	79,776	7.6%	2,652,755	7.8%	1	0.078	0.076	0.078
15	3-4pm	2,904,103	8.8%	73,991	7.0%	2,978,094	8.8%	1	0.088	0.07	0.088
16	4-5pm	2,921,745	8.9%	60,033	5.7%	2,981,778	8.8%	1	0.089	0.057	0.088
17	5-6pm	2,669,623	8.1%	46,737	4.4%	2,716,360	8.0%	1	0.081	0.044	0.08
18	6-7pm	1,843,335	5.6%	32,760	3.1%	1,876,095	5.5%	0	0	0	0
19	7-8pm	1,281,184	3.9%	24,247	2.3%	1,305,431	3.9%	0	0	0	0
20	8-9pm	952,825	2.9%	18,443	1.8%	971,268	2.9%	0	0	0	0
21	9-10pm	642,118	2.0%	14,211	1.4%	656,329	1.9%	0	0	0	0
22	10-11pm	415,681	1.3%	11,037	1.1%	426,718	1.3%	0	0	0	0
23	11-12pm	246,443	0.8%	8,390	0.8%	254,833	0.8%	0	0	0	0
	Total	32,841,254	100%	1,050,384	100%	33,891,638	100%		0.499	0.43	0.498

For converting partial day turning movements counts to seasonally adjusted 24 hour (AADT) counts.
Yellow boxes require user input. Scroll down for 24 hour diagrams. Use the Seasonal AdjuistmtFactors_YYYY spreadsheet to lookup seasonal factor.
Use Avg TD by FC.xslx to compute P&A B&C FACTORs.

Date of Count: 5/9/2024 5 Thursday May

PART 1: INPUT PARTIAL DAY P&A VEHICLES — ROUTE Symmes Road

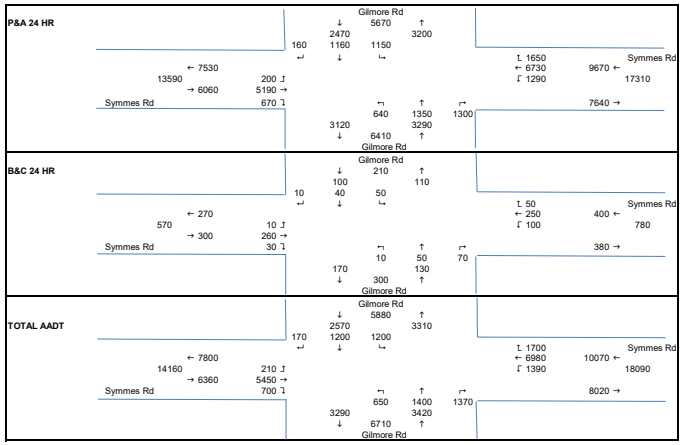
PARTIAL COUNT * FACTOR * SEASONAL FACTOR = 24 HR P&A

SOUTH LEG	Gilmore Rd	FC =	4	northbound			APROACH	DEPART						
				LT	**THRU**	**RT**	TOTAL	TOTAL		**SOUTH LEG**			**APROACH**	**DEPART**
	LT	THRU	RT	319	574	648	1641	1560	**LT**	**THRU**	**RT**		**TOTAL**	**TOTAL**
P&A FACTOR	2.004	2.004	2.004	639.276	1350.7	1298.59	3288.56	3126.24	640	1350	1300		3290	3120
SEASONAL FACTOR	1.000	1.000	1.000	639.276	1350.7	1298.59	3288.56	3126.24	***640***	***1350***	***1300***		***3290***	***3120***
WEST LEG	Symmes Rd	FC =	4	eastbound			APROACH	DEPART						
	FACTOR			**LT**	**THRU**	**RT**	TOTAL	TOTAL		**WEST LEG**			**APROACH**	**DEPART**
	LT	THRU	RT	99	2588	335	3022	3756	**LT**	**THRU**	**RT**		**TOTAL**	**TOTAL**
P&A FACTOR	2.004	2.004	2.004	198.396	5186.35	671.34	6056.09	7527.02	200	5190	670		6060	7530
SEASONAL F	1.000	1.000	1.000	198.396	5186.35	671.34	6056.09	7527.02	***200***	***5190***	***670***		***6060***	***7530***
NORTH LEG	Gilmore Rd	FC =	4	southbound			APROACH	DEPART						
	FACTOR			**LT**	**THRU**	**RT**	TOTAL	TOTAL		**NORTH LEG**			**APROACH**	**DEPART**
	LT	THRU	RT	575	580	80	1235	1595	**LT**	**THRU**	**RT**		**TOTAL**	**TOTAL**
P&A FACTOR	2.004	2.004	2.004	1152.3	1162.32	160.32	2474.94	3196.38	1150	1160	160		2470	3200
SEASONAL F	1.000	1.000	1.000	1152.3	1162.32	160.32	2474.94	3196.38	***1150***	***1160***	***160***		***2470***	***3200***
EAST LEG	Symmes Rd	FC =	4	westbound			APROACH	DEPART						
	FACTOR			**LT**	**THRU**	**RT**	TOTAL	TOTAL		**EAST LEG**			**APROACH**	**DEPART**
	LT	THRU	RT	645	3357	822	4824	3811	**LT**	**THRU**	**RT**		**TOTAL**	**TOTAL**
P&A FACTOR	2.004	2.004	2.004	1292.58	6727.43	1647.29	9667.3	7637.24	1290	6730	1650		9670	7640
SEASONAL F	1.000	1.000	1.000	1292.58	6727.43	1647.29	9667.3	7637.24	***1290***	***6730***	***1650***		***9670***	***7640***

PART 2: INPUT PARTIAL DAY B&C VEHICLES — ROUTE Symmes Road

PARTIAL COUNT * FACTOR = 24 HR B&C

SOUTH LEG	Gilmore Rd	FC =	4	northbound			APROACH	DEPART						
	FACTOR			**LT**	**THRU**	**RT**	TOTAL	TOTAL		**SOUTH LEG**			**APROACH**	**DEPART**
	LT	THRU	RT	3	20	31	54	70	**LT**	**THRU**	**RT**		**TOTAL**	**TOTAL**
B&C FACTOR	2.326	2.326	2.326	6.978	46.52	72.106	125.604	162.82	10	50	70		130	170
SEASONAL FACTOR	1.000	1.000	1.000	6.978	46.52	72.106	125.604	162.82	***10***	***50***	***70***		***130***	***170***
WEST LEG	Symmes Rd	FC =	4	eastbound			APROACH	DEPART						
	FACTOR			**LT**	**THRU**	**RT**	TOTAL	TOTAL		**WEST LEG**			**APROACH**	**DEPART**
	LT	THRU	RT	5	110	13	128	113	**LT**	**THRU**	**RT**		**TOTAL**	**TOTAL**
B&C FACTOR	2.326	2.326	2.326	11.63	255.86	30.238	297.728	262.838	10	260	30		300	270
SEASONAL FACTOR	1.000	1.000	1.000	11.63	255.86	30.238	297.728	255.86	***10***	***260***	***30***		***300***	***270***
NORTH LEG	Gilmore Rd	FC =	4	southbound			APROACH	DEPART						
	FACTOR			**LT**	**THRU**	**RT**	TOTAL	TOTAL		**NORTH LEG**			**APROACH**	**DEPART**
	LT	THRU	RT	22	16	3	41	48	**LT**	**THRU**	**RT**		**TOTAL**	**TOTAL**
B&C FACTOR	2.326	2.326	2.326	51.172	37.216	6.978	95.366	111.648	50	40	10		100	110
SEASONAL FACTOR	1.000	1.000	1.000	51.172	37.216	6.978	95.366	111.648	***50***	***40***	***10***		***100***	***110***
EAST LEG	Symmes Rd	FC =	4	westbound			APROACH	DEPART						
	FACTOR			**LT**	**THRU**	**RT**	TOTAL	TOTAL		**EAST LEG**			**APROACH**	**DEPART**
	LT	THRU	RT	41	107	23	171	163	**LT**	**THRU**	**RT**		**TOTAL**	**TOTAL**
B&C FACTOR	2.326	2.326	2.326	95.366	248.882	53.498	397.746	379.138	100	250	50		400	380
SEASONAL FACTOR	1.000	1.000	1.000	95.366	248.882	53.498	397.746	379.138	***100***	***250***	***50***		***400***	***380***



Group:	URBAN MINOR ARTERIAL, COLLECTORS, LOCAL (U04,05,06,07)						
From Year:	2021		To Year:		2021		
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Jan	1.831	1.129	1.026	1.012	1.007	0.959	1.329
Feb	1.608	1.248	1.307	1.044	1.077	0.982	1.289
Mar	1.384	0.960	0.923	0.908	0.936	0.880	1.110
Apr	1.317	0.913	0.881	0.903	0.900	0.850	1.117
May	1.260	0.922	0.891	0.879	0.849	0.838	1.038
Jun	1.254	0.937	0.892	0.910	0.881	0.872	1.079
Jul	1.308	0.929	0.910	0.896	0.907	0.869	1.122
Aug	1.279	0.918	0.909	0.900	0.880	0.857	1.088
Sep	1.324	0.948	0.918	0.924	0.870	0.829	1.083
Oct	1.377	0.954	0.913	0.904	0.901	0.873	1.122
Nov	1.478	0.968	0.941	0.928	0.953	0.894	1.197
Dec	1.426	0.972	0.954	0.958	0.932	0.893	1.212

Hourly Percent By Vehicle Type

for Partial count factor, enter 1 for hours counted.

		Urban Minor Arterial						Partial Count Factor		
								2.004	2.326	2.008
Hour	Hour of Day	P&A (Cars)	% P&A (Cars)	B&C (Trucks)	% B&C (Trucks)	Total	% Total	Counted Hour	PA	BC	Total
0	12-1am	101,286	**0.3%**	6,321	**0.6%**	107,607	**0.3%**	0	0	0	0
1	1-2am	55,421	**0.2%**	5,822	**0.6%**	61,243	**0.2%**	0	0	0	0
2	2-3am	46,088	**0.1%**	6,340	**0.6%**	52,428	**0.2%**	0	0	0	0
3	3-4am	59,179	**0.2%**	10,079	**1.0%**	69,258	**0.2%**	0	0	0	0
4	4-5am	131,821	**0.4%**	16,040	**1.5%**	147,861	**0.4%**	0	0	0	0
5	5-6am	439,431	**1.3%**	24,815	**2.4%**	464,246	**1.4%**	0	0	0	0
6	6-7am	1,215,945	**3.7%**	45,291	**4.3%**	1,261,236	**3.7%**	1	0.037	0.043	0.037
7	7-8am	2,111,094	**6.4%**	67,809	**6.5%**	2,178,903	**6.4%**	1	0.064	0.065	0.064
8	8-9am	2,051,973	**6.2%**	78,617	**7.5%**	2,130,590	**6.3%**	1	0.062	0.075	0.063
9	9-10am	1,732,110	**5.3%**	82,520	**7.9%**	1,814,630	**5.4%**	0	0	0	0
10	10-11am	1,790,009	**5.5%**	84,539	**8.0%**	1,874,548	**5.5%**	0	0	0	0
11	11-12am	2,086,432	**6.4%**	85,619	**8.2%**	2,172,051	**6.4%**	0	0	0	0
12	12-1pm	2,314,243	**7.0%**	84,469	**8.0%**	2,398,712	**7.1%**	0	0	0	0
13	1-2pm	2,256,186	**6.9%**	82,478	**7.9%**	2,338,664	**6.9%**	0	0	0	0
14	2-3pm	2,572,979	**7.8%**	79,776	**7.6%**	2,652,755	**7.8%**	1	0.078	0.076	0.078
15	3-4pm	2,904,103	**8.8%**	73,991	**7.0%**	2,978,094	**8.8%**	1	0.088	0.07	0.088
16	4-5pm	2,921,745	**8.9%**	60,033	**5.7%**	2,981,778	**8.8%**	1	0.089	0.057	0.088
17	5-6pm	2,669,623	**8.1%**	46,737	**4.4%**	2,716,360	**8.0%**	1	0.081	0.044	0.08
18	6-7pm	1,843,335	**5.6%**	32,760	**3.1%**	1,876,095	**5.5%**	0	0	0	0
19	7-8pm	1,281,184	**3.9%**	24,247	**2.3%**	1,305,431	**3.9%**	0	0	0	0
20	8-9pm	952,825	**2.9%**	18,443	**1.8%**	971,268	**2.9%**	0	0	0	0
21	9-10pm	642,118	**2.0%**	14,211	**1.4%**	656,329	**1.9%**	0	0	0	0
22	10-11pm	415,681	**1.3%**	11,037	**1.1%**	426,718	**1.3%**	0	0	0	0
23	11-12pm	246,443	**0.8%**	8,390	**0.8%**	254,833	**0.8%**	0	0	0	0
	Total	32,841,254	**100%**	1,050,384	**100%**	33,891,638	**100%**		0.499	0.43	0.498