

US 25 Mount Vernon
Corridor Improvement Study
Rockcastle County

Traffic Forecast Report



1.0	PROJECT DESCRIPTION.....	1
2.0	DATA COLLECTION EFFORTS	2
2.1	Comparison of 2021 Counts.....	4
3.0	NO-BUILD TRAFFIC	5
3.1	2045 No-Build Traffic Projections	9
4.0	BUILD TRAFFIC.....	10
4.1	Build 1: Five Lane US 25, Backage Road, Green-T option	10
4.2	Build 2: Four Lane US 25, Roundabout(s)	11

FIGURES

Figure 1: Study Area	1
Figure 2: FHWA Vehicle Classifications	2
Figure 3: Turning Movement Count Locations	3
Figure 4: Directional Hourly Volume Comparison	4
Figure 5: KY Statewide Travel Model Interface.....	5
Figure 6: TAZ Boundaries, Before (Green) and After (Red)	6
Figure 7: Projected Household Growth, 2020 to 2045	7
Figure 8: Projected Employment Growth, 2020 to 2045	8
Figure 9: Highway Projects Added to the KYSTM	9
Figure 10: Build Concept with Roundabouts at Southbound (left) and Northbound (right) Ramps	11

TABLES

Table 1: LOS and Delay at Study Intersections	10
Table 2: Comparison of Vissim 2045 PM Peak Roundabout Scenarios	12

APPENDICES

Appendix A: August 2021 Weekend Count Data	
Appendix B: August 2021 Weekday Count Data	
Appendix C: 2021 Turning Movement Forecasts	
Appendix D: 2045 No-Build Turning Movement Forecasts	
Appendix E: Vissim Output Tables for Roundabout Scenarios	

1.0 PROJECT DESCRIPTION

The Kentucky Transportation Cabinet (KYTC) assigned Qk4 a corridor study for transportation improvements along US 25 between KY 461 at milepoint (MP) 15.018 and Beiting Lane at MP 17.342. **Figure 1** illustrates the study area, which is divided sections on either side of the I-75 interchange (Exit 62). This report summarizes methodologies and procedures associated with the development of future traffic analyses to support the study.



Figure 1: Study Area

2.0 DATA COLLECTION EFFORTS

US 25 is one of the primary gateways to access Lake Cumberland from the north; it carries substantial weekend traffic during summer months. However, traditional planning efforts focus on peak hour commuter flows, generally occurring within 7-9 AM and 4-6 PM. Therefore, Qk4 collected two rounds of traffic data to understand typical traffic flows.

First, a tube count was placed across US 25 south of the interchange, near MP 15.5. Hourly count data was collected from Thursday, August 12 through Monday, August 16, 2021, to capture a representative summer weekend traffic pattern. Directional data was divided into 13 bin classifications based on axle lengths (**Figure 2**).

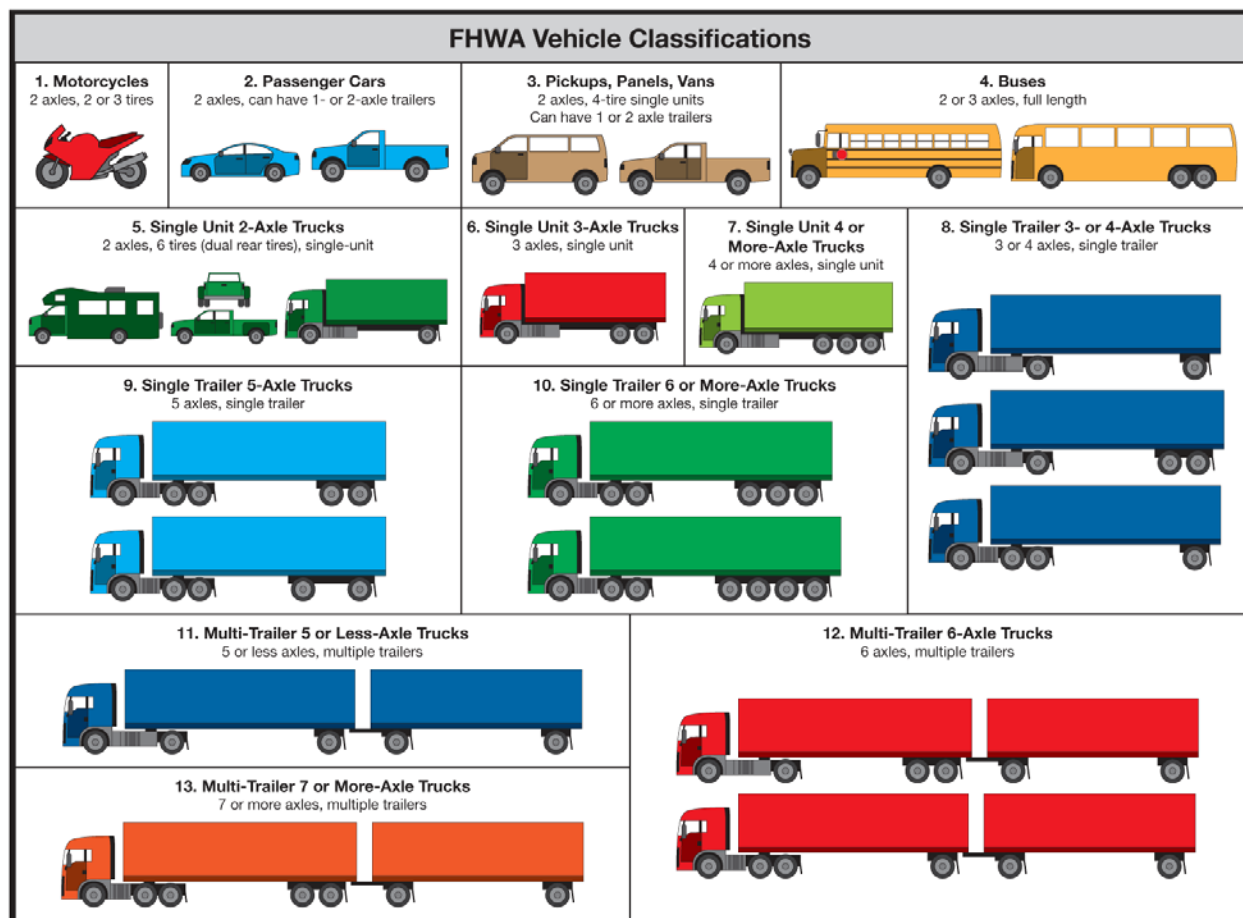


Figure 2: FHWA Vehicle Classifications

Daily total volumes ranged from 15,300 to 19,200 vehicles per day (vpd), with peak flows southbound—towards Lake Cumberland—on Friday and northbound on Sunday. Miovision turning movements at the US 25/KY 461 intersections were also recorded and processed for the two highest weekend hours. Raw data from these counts is included in **Appendix A**.

During the highest weekend peak hour (Sunday 12-1 PM), 12% of traffic represents trucks: 4.4% single unit trucks plus 7.6% tractor/trailer combos. Of the 88% representing passenger cars and pickups, 8.6% were larger than a typical auto: drivers hauling boats, RVs, other trailers, etc.

Next, additional video-based turning movement counts were collected at the five intersections shown in **Figure 3**: the US 25 intersection with KY 461 (MP 15.018), Wendy's/KFC driveway (approximate MP 15.2), the I-75 southbound ramps (approximate MP 15.7), the I-75 northbound ramps (approximate MP 15.9), and KY 2793 (MP 16.487). These 12-hour counts were conducted on Tuesday, August 31, 2021, once local schools were in session. Counts classified vehicles into one of five categories: motorcycles, cars & light good vehicles, buses, single unit trucks, and articulated trucks.

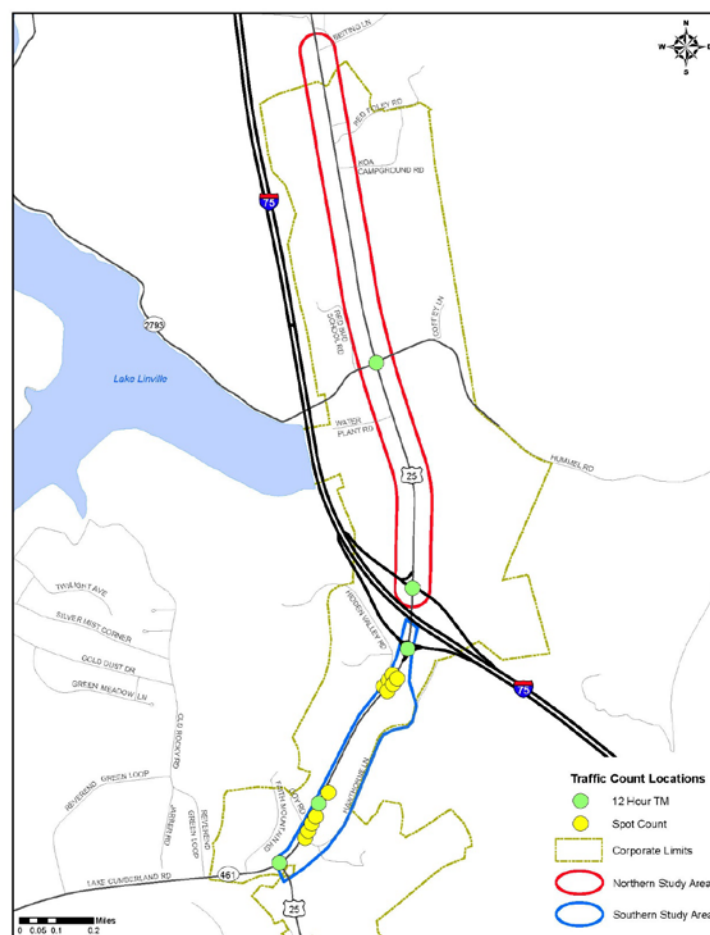


Figure 3: Turning Movement Count Locations

Concurrent with the 12-hour turning movement counts, spot counts at adjacent driveways were conducted to get an order of magnitude estimate of cross traffic. Unadjusted turning movement counts are presented in **Appendix B**. Turning movement forecasts for the 2021 Existing scenario are presented in **Appendix C** for the five study intersections. Existing weekday average daily traffic is 4,700-7,800 vehicles per day (vpd) to the north, and up to 14,600 vpd south of the interchange.

2.1 Comparison of 2021 Counts

Figure 4 compares hourly volumes by direction from the two data sets. Weekend counts are shown as solid lines; the later midweek counts are shown as a dotted line. Consistent with anecdotal input from key project team members, summer weekend traffic volumes are notably higher than traditional mid-week peaks with school in session.

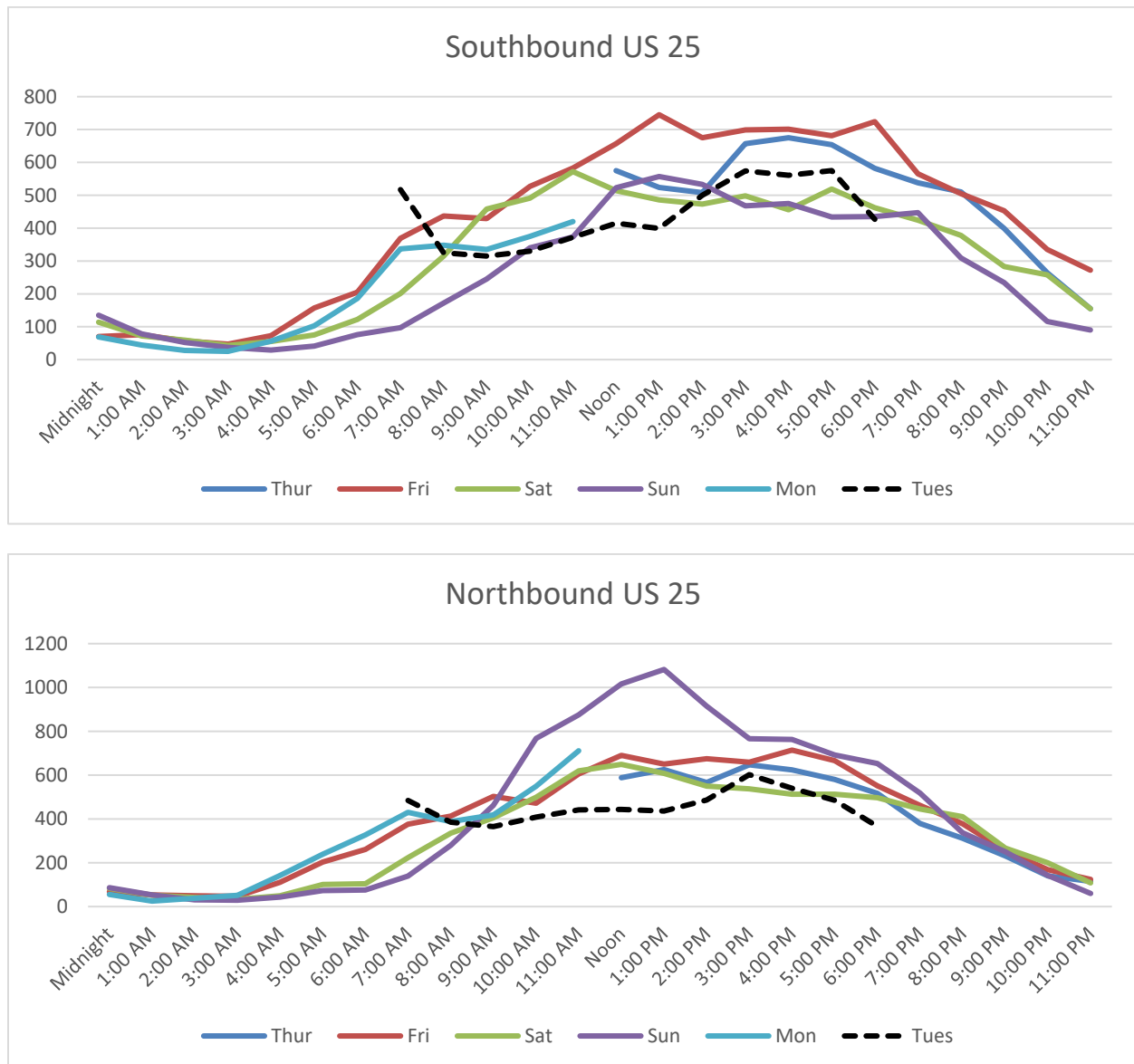


Figure 4: Directional Hourly Volume Comparison

Both periods were analyzed to determine existing operational metrics via Highway Capacity Software (HCS, version 7). The US 25/KY 461 intersection, the only site with data in both periods, operates at LOS C-D during weekday peak hours versus LOS C-E during midday summer weekend peaks. Other study intersections operate at LOS B-C during weekday peaks.

3.0 NO-BUILD TRAFFIC

To project future year traffic forecasts, KYTC's Statewide Travel Demand Model (KYSTM)¹, shown in **Figure 5**, was applied. The year 2020 served as the existing baseline scenario. Future year 2045 No-Build and Build forecasts were also developed. The KYTC model runs in TransCAD7 and is a 24-hour model, with no time-of-day components. Existing traffic analysis zone (TAZ) boundaries for two zones were adjusted by KYTC Modal Group staff to provide a finer level of detail in the study area vicinity as depicted in **Figure 6**.

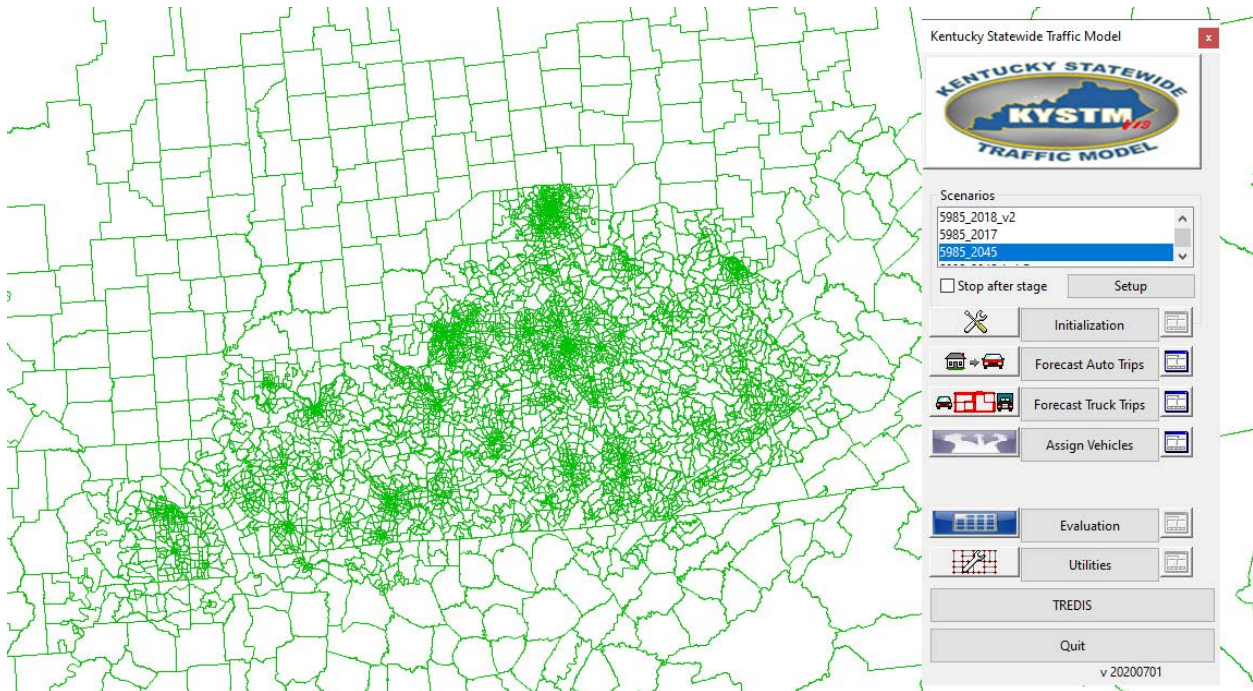


Figure 5: KY Statewide Travel Model Interface

¹ KYSTMv19 Version v20200701 with 5985 TAZs

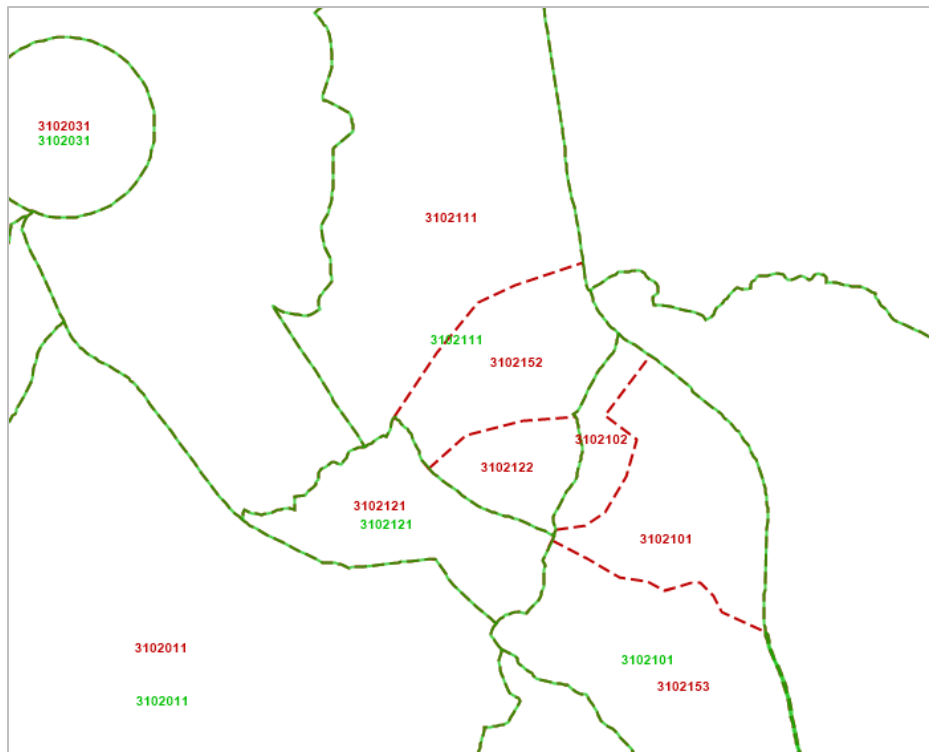


Figure 6: TAZ Boundaries, Before (Green) and After (Red)

Generally, the model shows negative growth projections for the region between 2020 and 2045. Based on conversations with key stakeholders during September 2021, employment projections in some locations were revised for consistency with local development efforts:

- There are two industrial parks near the KY 461/US 150 intersection. The Chapin plant is developing with sites in both industrial parks, expected to add 100 to 400 jobs. Exela is adding 500 jobs in north industrial park and Highland Equipment is coming to south industrial park with an additional 50-140 jobs.
- Earthwork is nearly complete for a narrow stretch of property fronting US 25 between MP 15.3-15.5. While tenants have yet to be identified, a series of highway-oriented businesses and a small grocery could be expected.
- KOA campground will triple in size over next 5-7 years, jumping from 86 sites/12,000 visitor-nights this year to 45,000 visitor-nights by 2030.

Additional development plans identified by stakeholders include a large park and 50-store mall on the knob south of the interchange. Due to the anticipated costs and speculative timeline, neither was reflected in the employment forecasts for the 2045 model runs.

Figure 7 and **Figure 8** summarize changes in households and employment for TAZ in the study vicinity. Overall, Rockcastle County shows a negative growth rate for population (-0.46%) and households (-0.14%) between 2015 and 2045 but employment increases (0.64%).

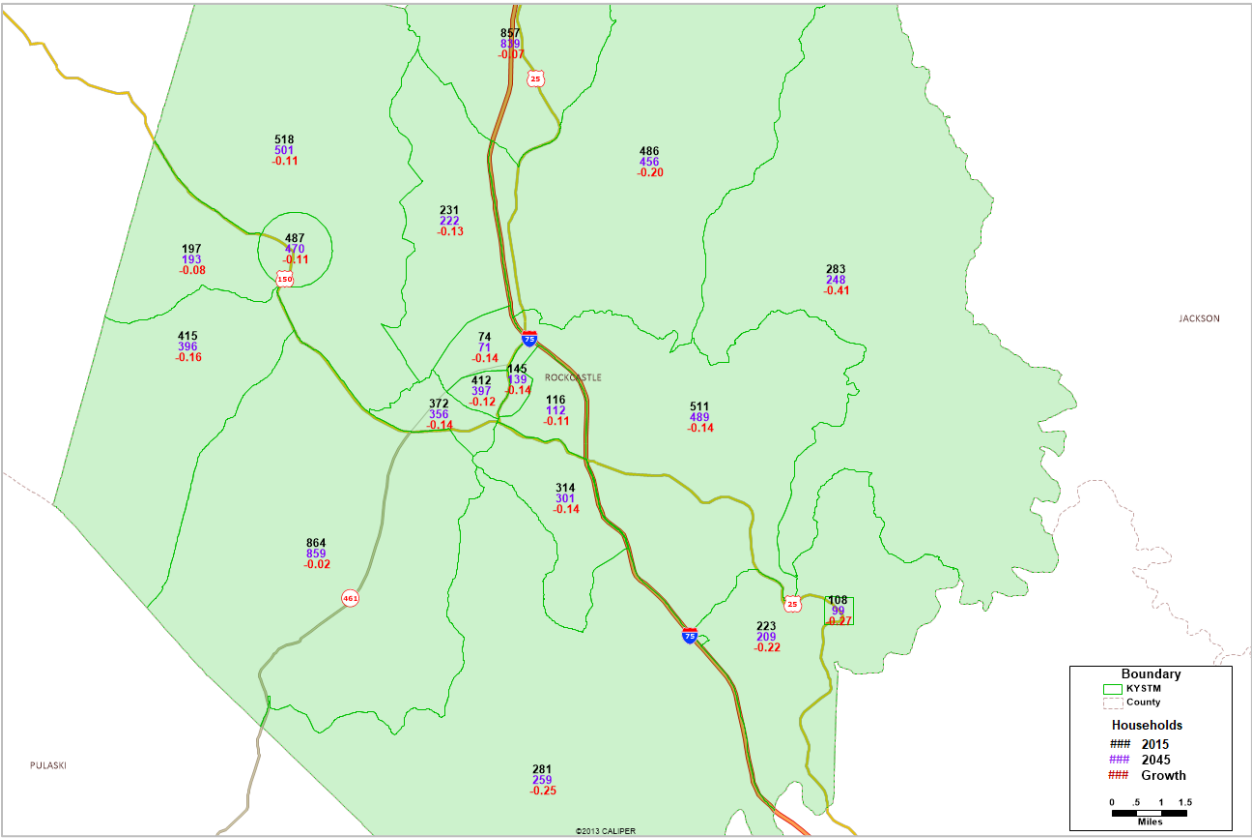


Figure 7: Projected Household Growth, 2020 to 2045

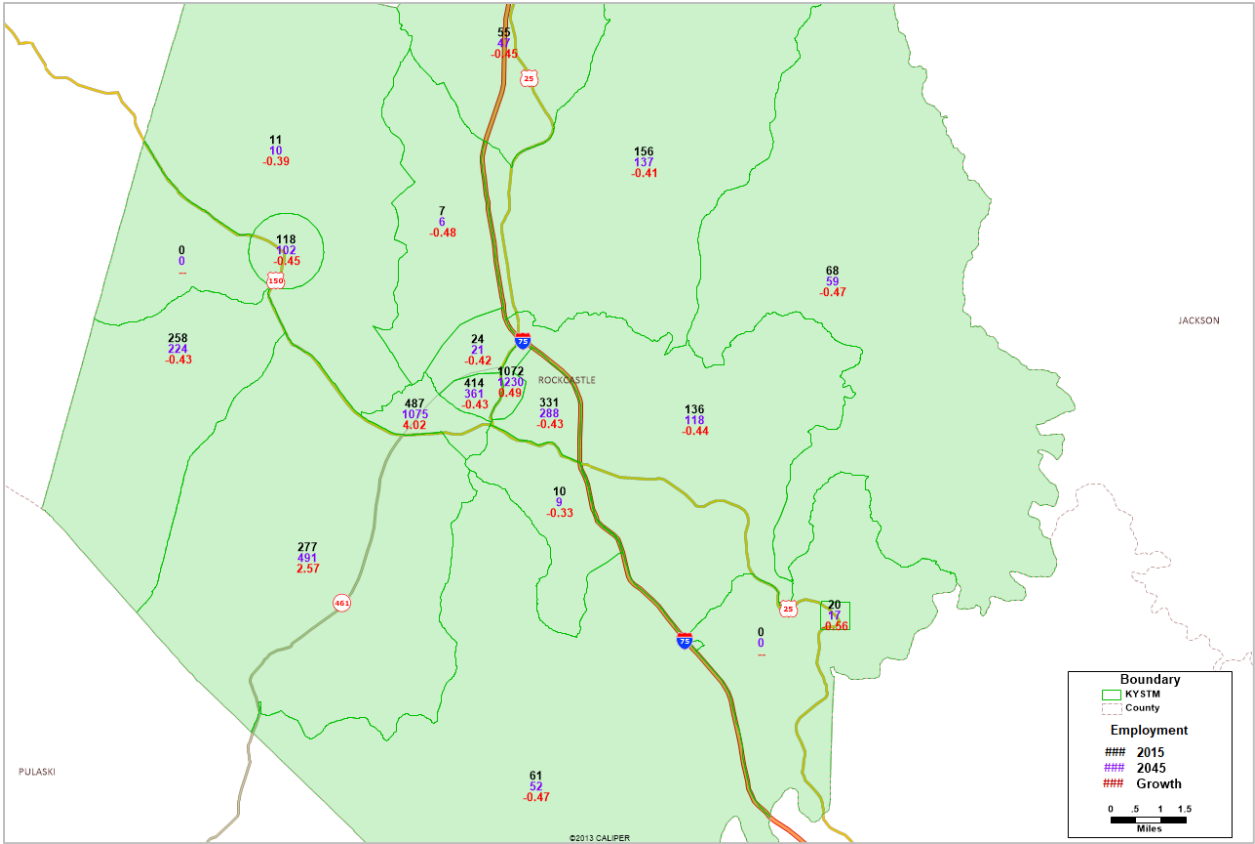


Figure 8: Projected Employment Growth, 2020 to 2045

One existing highway project in the vicinity was added to the model network: Item No. 8-8952 creates a four- to five-lane section along KY 461 between US 150 and US 25, immediately south of the study area. The impacted roadway segments are identified in **Figure 9**.

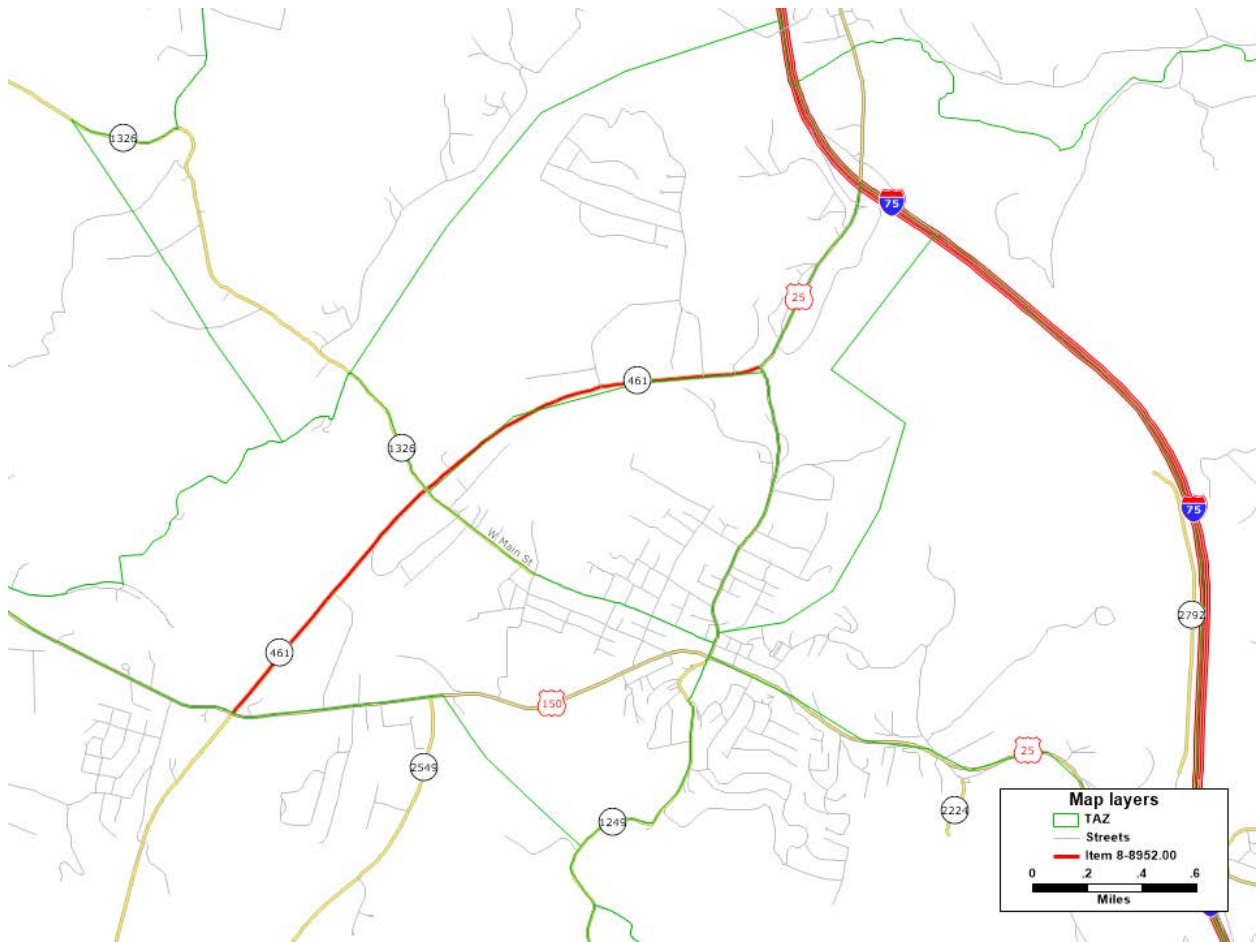


Figure 9: Highway Projects Added to the KYSTM

3.1 2045 No-Build Traffic Projections

Considering historic traffic growth rates, population projections, anticipated development, and STD M projections, an annual growth rate of 0.6% south of the interchange and 0.2% north was applied to the 2021 Existing scenario to project future 2045 No-Build traffic. The corridor is expected to carry 8,400 to 16,800 vpd in the No-Build scenario, compared to 7,800 to 14,600 in the Existing scenario. No-Build forecasts for study area intersections can be found in **Appendix D**.

Per HCS, most study intersections and stop-controlled approaches operate at LOS D or better during both peak hours. The exception is the left turn movement from the southbound I-75 off-ramp, which operates at LOS E in the AM and PM peak hours. However, 95th percentile queue lengths for this movement are less than two vehicles in length.

4.0 BUILD TRAFFIC

4.1 Build 1: Five Lane US 25, Backage Road, Green-T option

The first Build scenario assumes US 25 provides two thru lanes in each direction, with various intersection options south of the interchange. Other improvement options considered relate to pedestrian mobility or safety and would not impact anticipated traffic demand.

The build scenario also includes development at the narrow stretch of property fronting US 25 between MP 15.3-15.5. While no specific tenants have been identified, trip generation rates were assumed from the ITE Trip Generation Manual (11th Edition), assuming a small supermarket, fast food restaurant, and coffee/donut shop. A forecast spreadsheet for this intersection is included in **Appendix D** as well.

The corridor is expected to carry 8,400 to 16,800 vpd in the Build scenario, with intersections south of the interchange operating at LOS D or better during both peak hours. **Table 1** provides a side-by-side comparison for study intersection operations in the Existing, No-Build, and Build scenarios.

Table 1: LOS and Delay at Study Intersections

Location	2021 Weekday (3 lane + TWLTL)		2045 No-Build (3 lane + TWLTL)		2045 Build 1 (4 lane + TWLTL)	
	AM Peak	PM Peak	AM Peak	PM Peak	AM Peak	PM Peak
US 25 at KY 461 (signalized)	B 16 sec	C 26 sec	B 17 sec	D 45 sec	B 14 sec	C 25 sec
US 25 at KY 461 (signalized Green-T)	-	-	-	-	B 13 sec	C 22 sec
Wendy's Driveway (stop-controlled WB approach)	C 25 sec	C 24 sec	D 31 sec	D 34 sec	D 30 sec	D 32 sec
New Development Driveway (signalized Green-T)	-	-	-	-	A 9 sec	A 8 sec
I-75 SB Off-Ramp (stop-controlled EB left turn)	E 35 sec	E 36 sec	E 45 sec	E 46 sec	E 45 sec	E 46 sec
I-75 NB Ramps (signalized)	B 19 sec	B 18 sec	B 20 sec	B 18 sec	B 20 sec	B 18 sec
US 25 at Hummel Road (stop-controlled EB approach)	B 13 sec	B 13 sec	B 13 sec	B 14 sec	B 13 sec	B 14 sec
US 25 at Hummel Road (stop-controlled WB approach)	B 13 sec	C 15 sec	B 14 sec	C 16 sec	B 14 sec	C 16 sec

4.2 Build 2: Four Lane US 25, Roundabout(s)

Another build concept adds a divided median south of the interchange and reconstructs one or both ramp termini intersections as roundabouts.

- A roundabout at the I-75 southbound ramps facilitates u-turns for northbound US 25 traffic south of the interchange but could result in queue concerns if the signal remains at the I-75 northbound ramps.
- Roundabouts at both ramp termini increase costs but relieve queuing concerns by reducing stops.

South of the interchange, four opportunities to make left- or u-turns are assumed (three southbound, one northbound); otherwise, all access points are assumed to become right-in/right-out between KY 461 and the interchange. Assumed lane configurations at the roundabouts are shown in **Figure 10**.

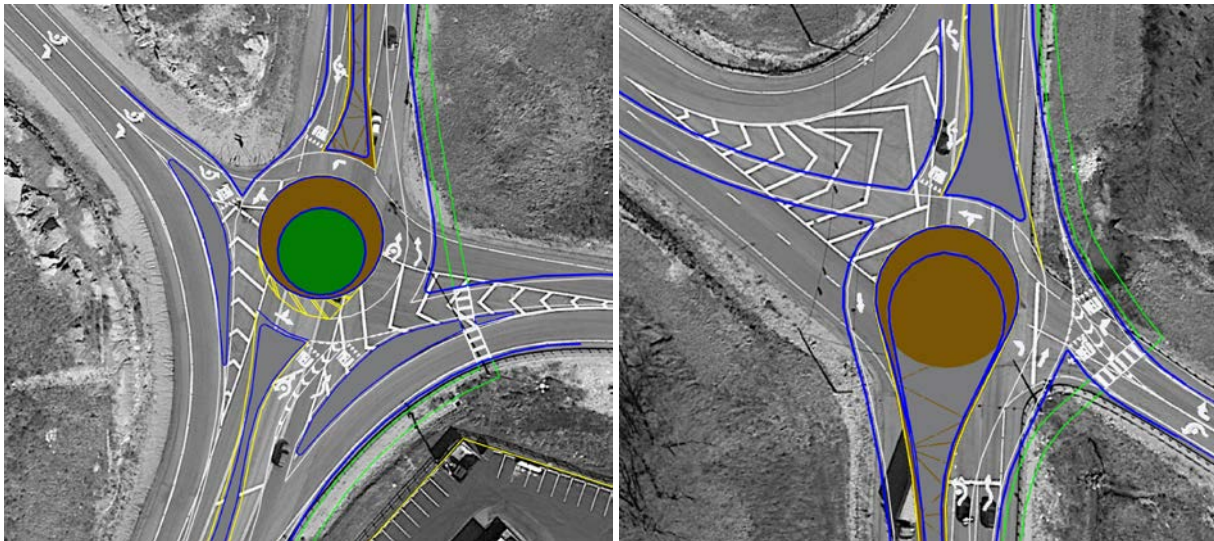


Figure 10: Build Concept with Roundabouts at Southbound (left) and Northbound (right) Ramps

Highway Capacity Software (HCS7 Version 7.9.5) indicates both roundabouts provide adequate capacity for anticipated peak hour traffic volumes.

To get a more detailed estimate regarding queues between the interchange ramps, a Vissim (Version 2022.00-04) microsimulation network of the interchange vicinity was constructed. While microsimulation was beyond the original scoped effort for the study, the Vissim model was developed using proposed traffic volumes and truck percentages and was based on KYTC default simulation parameters. **Table 2** summarizes the operational impacts during the busier PM peak hour. As shown, northbound queue lengths along US 25 between ramps are shorter in the dual roundabout configuration. However, either scenario provides sufficient storage length for anticipated maximum weekday queues. Vissim outputs are included as **Appendix E**.

Table 2: Comparison of Vissim 2045 PM Peak Roundabout Scenarios

2045 PM Scenario	At SB Ramps	At NB Ramps
No-Build	(Stop-controlled) LOS A; left from ramp at LOS E	(Signalized) LOS D NBL max queue = 410 ft
South Roundabout	(Roundabout w Dual Thru Lanes) LOS A	(Signalized) LOS D NBL max queue = 408 ft
Dual Roundabouts	(Roundabout w Dual Thru Lanes) LOS A	(Roundabout) LOS A No conflicts so no NBL queue

Note: LOS thresholds for signalized vs unsignalized intersections vary

The southbound u-turn feeding the new development driveway operates at LOS A-B during both peak hours.

Appendix A

August 2021 Weekend Count Data

August 2021 Weekend Tube Counts

Site Code: 11111111
Station ID:
Location 1:
Location 2:
Latitude: 37.374764
Longitude: -84.332430
Direction: A to B, None Specified

File Name: Count 1
Date Printed: 8/17/2021
Start Date: 8/12/2021
End Date: 8/16/2021
GPS Accuracy: 79ft
Location Verified: Yes

8/12/2021 Time	Motor Cycles	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	No Class	Total
12:00 AM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
1:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
12:00 PM	9	384	100	3	10	1	0	16	28	1	0	0	2	21	575
1:00	4	352	97	10	8	4	0	12	19	2	0	0	0	16	524
2:00	3	340	93	7	7	1	1	12	17	0	0	3	0	24	508
3:00	3	463	109	6	12	5	0	12	15	3	1	2	2	24	657
4:00	7	465	112	5	11	2	0	13	15	2	0	1	2	40	675
5:00	7	477	95	8	8	4	0	9	9	1	1	1	1	33	654
6:00	2	409	110	5	8	0	1	8	7	0	0	2	0	30	582
7:00	6	385	93	4	6	1	0	10	12	0	0	0	0	21	538
8:00	10	338	115	4	5	1	0	8	13	2	0	0	0	14	510
9:00	3	256	94	6	5	1	0	5	12	2	0	0	1	14	399
10:00	0	188	50	2	6	0	0	3	6	0	0	0	0	9	264
11:00	2	97	33	1	3	0	0	5	8	3	0	0	0	3	155
Total	56	4154	1101	61	89	20	2	113	161	16	2	9	8	249	6041
Percent	0.9%	68.8%	18.2%	1.0%	1.5%	0.3%	0.0%	1.9%	2.7%	0.3%	0.0%	0.1%	0.1%	4.1%	
AM Peak	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PM Peak	8:00	5:00	8:00	1:00	3:00	3:00	2:00	12:00 PM	12:00 PM	3:00	3:00	2:00	12:00 PM	4:00	4:00
	10	477	115	10	12	5	1	16	28	3	1	3	2	40	675

Qk4
Traffic Engineering

Site Code: 11111111
Station ID:
Location 1:
Location 2:
Latitude: 37.374764
Longitude: -84.332430
Direction: A to B, None Specified

File Name: Count 1
Date Printed: 8/17/2021
Start Date: 8/12/2021
End Date: 8/16/2021
GPS Accuracy: 79ft
Location Verified: Yes

8/13/2021 Time	Motor Cycles	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	No Class	Total
12:00 AM	1	52	8	0	0	0	0	1	8	0	0	0	0	0	70
1:00	0	45	15	0	1	0	0	3	8	1	1	0	0	2	76
2:00	0	39	7	0	1	1	0	0	8	0	0	0	0	1	57
3:00	1	28	9	1	1	1	0	3	3	0	0	0	0	0	47
4:00	0	57	8	0	0	1	0	2	5	0	0	0	0	0	73
5:00	0	103	18	3	3	1	0	3	18	1	2	0	1	4	157
6:00	1	134	31	2	5	3	0	5	19	0	0	0	0	5	205
7:00	3	254	63	3	5	4	2	5	12	3	2	0	2	11	369
8:00	1	285	76	7	10	2	2	9	27	1	0	0	1	16	437
9:00	2	280	81	7	5	8	0	14	17	2	0	0	1	12	429
10:00	6	328	85	8	12	6	0	21	26	2	1	2	3	27	527
11:00	5	385	99	14	8	3	0	16	23	2	1	1	1	25	583
12:00 PM	7	427	133	9	16	5	1	19	17	2	2	0	1	18	657
1:00	9	488	140	10	14	5	0	14	27	2	1	1	1	33	745
2:00	10	443	126	9	13	2	2	15	24	4	1	2	1	23	675
3:00	2	466	133	20	14	3	0	14	10	1	1	0	0	35	699
4:00	4	460	136	16	13	0	0	23	16	1	1	0	1	30	701
5:00	3	485	123	11	12	2	0	12	11	0	0	1	0	21	681
6:00	6	496	129	11	14	1	0	16	10	1	1	0	0	39	724
7:00	8	399	111	4	15	0	0	8	6	0	0	1	0	13	565
8:00	2	356	105	12	5	2	0	7	3	0	0	0	0	13	505
9:00	2	311	93	5	14	0	0	7	9	1	1	1	0	9	453
10:00	0	227	79	5	5	1	0	8	4	1	0	2	0	3	335
11:00	0	177	57	2	11	1	0	10	9	0	0	0	0	5	272
Total	73	6725	1865	159	197	52	7	235	320	25	15	11	13	345	10042
Percent	0.7%	67.0%	18.6%	1.6%	2.0%	0.5%	0.1%	2.3%	3.2%	0.2%	0.1%	0.1%	0.1%	3.4%	
AM Peak	10:00	11:00	11:00	11:00	10:00	9:00	7:00	10:00	8:00	7:00	5:00	10:00	10:00	10:00	11:00
	6	385	99	14	12	8	2	21	27	3	2	2	3	27	583
PM Peak	2:00	6:00	1:00	3:00	12:00 PM	12:00 PM	2:00	4:00	1:00	2:00	12:00 PM	2:00	12:00 PM	6:00	1:00
	10	496	140	20	16	5	2	23	27	4	2	2	1	39	745

Qk4
Traffic Engineering

Site Code: 11111111
Station ID:
Location 1:
Location 2:
Latitude: 37.374764
Longitude: -84.332430
Direction: A to B, None Specified

File Name: Count 1
Date Printed: 8/17/2021
Start Date: 8/12/2021
End Date: 8/16/2021
GPS Accuracy: 79ft
Location Verified: Yes

8/14/2021 Time	Motor Cycles	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	No Class	Total
12:00 AM	0	83	27	0	1	0	0	0	3	0	0	0	0	0	114
1:00	0	47	17	1	1	0	0	2	3	0	1	0	0	0	72
2:00	0	41	10	0	1	1	0	1	4	0	0	0	0	1	59
3:00	0	29	8	0	0	0	0	1	5	0	0	0	0	0	43
4:00	0	38	12	0	0	0	0	0	5	0	0	0	0	0	55
5:00	0	53	16	1	2	0	0	1	2	0	0	0	0	0	75
6:00	1	82	29	1	1	1	0	3	3	0	1	0	0	0	122
7:00	0	126	58	0	2	1	0	1	5	1	1	1	1	4	201
8:00	3	225	65	3	3	1	1	4	1	2	0	0	0	7	315
9:00	3	293	109	7	8	1	0	11	10	3	1	0	0	12	458
10:00	3	345	91	6	9	3	0	9	2	0	0	0	0	23	491
11:00	10	406	99	9	10	0	0	10	6	2	0	2	0	18	572
12:00 PM	9	354	96	8	9	2	0	4	9	0	0	0	0	23	514
1:00	5	337	93	5	12	1	0	9	8	0	0	1	1	14	486
2:00	4	354	75	5	7	2	0	9	5	0	0	0	0	12	473
3:00	3	393	68	4	7	1	0	3	2	0	0	0	0	17	498
4:00	7	330	86	3	5	0	0	7	4	0	0	0	0	14	456
5:00	3	387	89	3	6	2	0	12	5	1	0	0	0	11	519
6:00	8	359	59	5	7	2	0	2	3	0	0	0	0	17	462
7:00	6	309	79	6	6	0	0	7	5	0	0	1	0	5	424
8:00	7	284	68	3	3	0	0	6	1	0	0	1	0	5	378
9:00	1	227	38	4	5	0	0	1	2	0	0	0	0	5	283
10:00	2	182	61	1	3	1	0	3	2	0	0	0	0	3	258
11:00	2	124	20	3	1	2	0	1	1	1	0	0	0	0	155
Total	77	5408	1373	78	109	21	1	107	96	10	4	6	2	191	7483
Percent	1.0%	72.3%	18.3%	1.0%	1.5%	0.3%	0.0%	1.4%	1.3%	0.1%	0.1%	0.1%	0.0%	2.6%	
AM Peak	11:00	11:00	9:00	11:00	11:00	10:00	8:00	9:00	9:00	9:00	1:00	11:00	7:00	10:00	11:00
	10	406	109	9	10	3	1	11	10	3	1	2	1	23	572
PM Peak	12:00	3:00	12:00	12:00	1:00	12:00		5:00	12:00	5:00		1:00	1:00	12:00	5:00
	PM		PM	PM		PM			PM					PM	
	9	393	96	8	12	2	*	12	9	1	*	1	1	23	519

Qk4
Traffic Engineering

Site Code: 11111111
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GPS Accuracy: 79ft
Location Verified: Yes

8/15/2021 Time	Motor Cycles	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	No Class	Total
12:00 AM	2	103	24	0	2	0	0	2	1	0	0	1	0	0	135
1:00	0	48	23	2	4	0	0	0	1	0	0	0	0	0	78
2:00	0	43	8	0	1	0	0	0	0	0	0	0	0	0	52
3:00	0	28	7	0	0	0	0	0	2	0	0	0	0	0	37
4:00	0	20	3	1	1	0	0	3	1	0	0	0	0	0	29
5:00	0	29	10	0	0	0	0	1	1	0	0	0	0	0	41
6:00	0	57	16	0	0	0	0	3	0	0	0	0	0	0	76
7:00	0	69	22	0	2	0	0	0	3	0	0	0	0	1	97
8:00	0	128	34	1	2	0	0	2	2	0	0	0	0	3	172
9:00	2	179	45	3	4	1	0	3	3	1	0	0	0	4	245
10:00	3	249	64	3	3	0	0	9	3	0	0	1	0	5	340
11:00	3	257	74	5	3	1	0	12	6	0	0	0	0	12	373
12:00 PM	1	374	97	6	10	0	0	15	7	1	0	0	0	12	523
1:00	3	416	86	7	11	0	0	13	5	2	0	0	0	14	557
2:00	2	402	94	2	11	0	0	5	3	0	1	0	1	12	533
3:00	5	358	64	6	6	0	0	10	5	0	0	0	0	14	468
4:00	6	333	101	2	8	0	0	11	2	0	0	2	0	10	475
5:00	5	313	77	2	7	3	0	8	8	0	0	0	0	11	434
6:00	3	330	62	7	13	1	0	4	3	0	0	2	0	10	435
7:00	2	355	59	3	5	1	0	9	5	0	1	0	0	7	447
8:00	4	228	54	3	5	0	0	2	3	1	0	1	0	8	309
9:00	1	180	35	3	1	2	0	2	7	0	0	0	0	3	234
10:00	0	85	22	1	1	1	0	2	1	0	0	0	1	2	116
11:00	0	72	12	0	0	0	0	1	4	0	0	0	0	1	90
Total	42	4656	1093	57	100	10	0	117	76	5	2	7	2	129	6296
Percent	0.7%	74.0%	17.4%	0.9%	1.6%	0.2%	0.0%	1.9%	1.2%	0.1%	0.0%	0.1%	0.0%	2.0%	
AM Peak	10:00	11:00	11:00	11:00	1:00	9:00		11:00	11:00	9:00		12:00 AM		11:00	11:00
	3	257	74	5	4	1	*	12	6	1	*	1	*	12	373
PM Peak	4:00	1:00	4:00	1:00	6:00	5:00		12:00 PM	5:00	1:00	2:00	4:00	2:00	1:00	1:00
	6	416	101	7	13	3	*	15	8	2	1	2	1	14	557

Qk4
Traffic Engineering

Site Code: 11111111
Station ID:
Location 1:
Location 2:
Latitude: 37.374764
Longitude: -84.332430
Direction: A to B, None Specified

File Name: Count 1
Date Printed: 8/17/2021
Start Date: 8/12/2021
End Date: 8/16/2021
GPS Accuracy: 79ft
Location Verified: Yes

8/16/2021 Time	Motor Cycles	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	No Class	Total
12:00 AM	0	52	11	0	0	0	0	3	2	0	0	1	0	0	69
1:00	0	33	7	0	1	0	0	1	2	0	0	0	0	0	44
2:00	0	21	2	0	0	0	0	1	3	0	0	0	0	1	28
3:00	0	16	5	0	1	0	0	0	3	0	0	0	0	0	25
4:00	0	35	11	2	1	0	0	0	7	0	0	0	0	0	56
5:00	0	63	20	2	1	0	0	1	10	3	0	0	1	2	103
6:00	2	119	32	5	5	3	0	1	12	0	0	0	0	7	186
7:00	0	229	55	12	4	0	0	7	14	4	0	1	0	11	337
8:00	0	226	60	7	9	3	0	7	24	2	0	0	2	8	348
9:00	2	217	56	7	13	5	0	11	14	1	0	0	1	8	335
10:00	3	232	63	5	13	8	0	10	18	1	0	1	1	20	375
11:00	0	4	1	0	0	0	0	0	0	0	0	0	0	0	5
12:00 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
1:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
Total	7	1247	323	40	48	19	0	42	109	11	0	3	5	57	1911
Percent	0.4%	65.3%	16.9%	2.1%	2.5%	1.0%	0.0%	2.2%	5.7%	0.6%	0.0%	0.2%	0.3%	3.0%	
AM Peak	10:00	10:00	10:00	7:00	9:00	10:00		9:00	8:00	7:00		12:00 AM	8:00	10:00	10:00
PM Peak	3	232	63	12	13	8	*	11	24	4	*	1	2	20	375
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Grand Total	255	22190	5755	395	543	122	10	614	762	67	23	36	30	971	31773
Percent	0.0%	3.9%	1.0%	0.1%	0.2%	0.1%	0.0%	0.1%	0.3%	0.0%	0.0%	0.0%	0.0%	0.2%	

Qk4
Traffic Engineering

Site Code: 11111111
Station ID:
Location 1:
Location 2:
Latitude: 37.374764
Longitude: -84.332430
Direction: Combined

File Name: Count 1
Date Printed: 8/17/2021
Start Date: 8/12/2021
End Date: 8/16/2021
GPS Accuracy: 79ft
Location Verified: Yes

8/12/2021 Time	Motor Cycles	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	No Class	Total
12:00 AM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
1:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
12:00 PM	9	384	100	3	10	1	0	16	28	1	0	0	2	21	575
1:00	4	352	97	10	8	4	0	12	19	2	0	0	0	16	524
2:00	3	340	93	7	7	1	1	12	17	0	0	3	0	24	508
3:00	3	463	109	6	12	5	0	12	15	3	1	2	2	24	657
4:00	7	465	112	5	11	2	0	13	15	2	0	1	2	40	675
5:00	7	477	95	8	8	4	0	9	9	1	1	1	1	33	654
6:00	2	409	110	5	8	0	1	8	7	0	0	2	0	30	582
7:00	6	385	93	4	6	1	0	10	12	0	0	0	0	21	538
8:00	10	338	115	4	5	1	0	8	13	2	0	0	0	14	510
9:00	3	256	94	6	5	1	0	5	12	2	0	0	1	14	399
10:00	0	188	50	2	6	0	0	3	6	0	0	0	0	9	264
11:00	2	97	33	1	3	0	0	5	8	3	0	0	0	3	155
Total	56	4154	1101	61	89	20	2	113	161	16	2	9	8	249	6041
Percent	0.9%	68.8%	18.2%	1.0%	1.5%	0.3%	0.0%	1.9%	2.7%	0.3%	0.0%	0.1%	0.1%	4.1%	
AM Peak	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PM Peak	8:00	5:00	8:00	1:00	3:00	3:00	2:00	12:00 PM	12:00 PM	3:00	3:00	2:00	12:00 PM	4:00	4:00
	10	477	115	10	12	5	1	16	28	3	1	3	2	40	675

Qk4
Traffic Engineering

Site Code: 11111111
Station ID:
Location 1:
Location 2:
Latitude: 37.374764
Longitude: -84.332430
Direction: Combined

File Name: Count 1
Date Printed: 8/17/2021
Start Date: 8/12/2021
End Date: 8/16/2021
GPS Accuracy: 79ft
Location Verified: Yes

8/13/2021 Time	Motor Cycles	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	No Class	Total
12:00 AM	1	52	8	0	0	0	0	1	8	0	0	0	0	0	70
1:00	0	45	15	0	1	0	0	3	8	1	1	0	0	2	76
2:00	0	39	7	0	1	1	0	0	8	0	0	0	0	1	57
3:00	1	28	9	1	1	1	0	3	3	0	0	0	0	0	47
4:00	0	57	8	0	0	1	0	2	5	0	0	0	0	0	73
5:00	0	103	18	3	3	1	0	3	18	1	2	0	1	4	157
6:00	1	134	31	2	5	3	0	5	19	0	0	0	0	5	205
7:00	3	254	63	3	5	4	2	5	12	3	2	0	2	11	369
8:00	1	285	76	7	10	2	2	9	27	1	0	0	1	16	437
9:00	2	280	81	7	5	8	0	14	17	2	0	0	1	12	429
10:00	6	328	85	8	12	6	0	21	26	2	1	2	3	27	527
11:00	5	385	99	14	8	3	0	16	23	2	1	1	1	25	583
12:00 PM	7	427	133	9	16	5	1	19	17	2	2	0	1	18	657
1:00	9	488	140	10	14	5	0	14	27	2	1	1	1	33	745
2:00	10	443	126	9	13	2	2	15	24	4	1	2	1	23	675
3:00	2	466	133	20	14	3	0	14	10	1	1	0	0	35	699
4:00	4	460	136	16	13	0	0	23	16	1	1	0	1	30	701
5:00	3	485	123	11	12	2	0	12	11	0	0	1	0	21	681
6:00	6	496	129	11	14	1	0	16	10	1	1	0	0	39	724
7:00	8	399	111	4	15	0	0	8	6	0	0	1	0	13	565
8:00	2	356	105	12	5	2	0	7	3	0	0	0	0	13	505
9:00	2	311	93	5	14	0	0	7	9	1	1	1	0	9	453
10:00	0	227	79	5	5	1	0	8	4	1	0	2	0	3	335
11:00	0	177	57	2	11	1	0	10	9	0	0	0	0	5	272
Total	73	6725	1865	159	197	52	7	235	320	25	15	11	13	345	10042
Percent	0.7%	67.0%	18.6%	1.6%	2.0%	0.5%	0.1%	2.3%	3.2%	0.2%	0.1%	0.1%	0.1%	3.4%	
AM Peak	10:00	11:00	11:00	11:00	10:00	9:00	7:00	10:00	8:00	7:00	5:00	10:00	10:00	10:00	11:00
	6	385	99	14	12	8	2	21	27	3	2	2	3	27	583
PM Peak	2:00	6:00	1:00	3:00	12:00 PM	12:00 PM	2:00	4:00	1:00	2:00	12:00 PM	2:00	12:00 PM	6:00	1:00
	10	496	140	20	16	5	2	23	27	4	2	2	1	39	745

Qk4
Traffic Engineering

Site Code: 11111111
Station ID:
Location 1:
Location 2:
Latitude: 37.374764
Longitude: -84.332430
Direction: Combined

File Name: Count 1
Date Printed: 8/17/2021
Start Date: 8/12/2021
End Date: 8/16/2021
GPS Accuracy: 79ft
Location Verified: Yes

8/14/2021 Time	Motor Cycles	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	No Class	Total
12:00 AM	0	83	27	0	1	0	0	0	3	0	0	0	0	0	114
1:00	0	47	17	1	1	0	0	2	3	0	1	0	0	0	72
2:00	0	41	10	0	1	1	0	1	4	0	0	0	0	1	59
3:00	0	29	8	0	0	0	0	1	5	0	0	0	0	0	43
4:00	0	38	12	0	0	0	0	0	5	0	0	0	0	0	55
5:00	0	53	16	1	2	0	0	1	2	0	0	0	0	0	75
6:00	1	82	29	1	1	1	0	3	3	0	1	0	0	0	122
7:00	0	126	58	0	2	1	0	1	5	1	1	1	1	4	201
8:00	3	225	65	3	3	1	1	4	1	2	0	0	0	7	315
9:00	3	293	109	7	8	1	0	11	10	3	1	0	0	12	458
10:00	3	345	91	6	9	3	0	9	2	0	0	0	0	23	491
11:00	10	406	99	9	10	0	0	10	6	2	0	2	0	18	572
12:00 PM	9	354	96	8	9	2	0	4	9	0	0	0	0	23	514
1:00	5	337	93	5	12	1	0	9	8	0	0	1	1	14	486
2:00	4	354	75	5	7	2	0	9	5	0	0	0	0	12	473
3:00	3	393	68	4	7	1	0	3	2	0	0	0	0	17	498
4:00	7	330	86	3	5	0	0	7	4	0	0	0	0	14	456
5:00	3	387	89	3	6	2	0	12	5	1	0	0	0	11	519
6:00	8	359	59	5	7	2	0	2	3	0	0	0	0	17	462
7:00	6	309	79	6	6	0	0	7	5	0	0	1	0	5	424
8:00	7	284	68	3	3	0	0	6	1	0	0	1	0	5	378
9:00	1	227	38	4	5	0	0	1	2	0	0	0	0	5	283
10:00	2	182	61	1	3	1	0	3	2	0	0	0	0	3	258
11:00	2	124	20	3	1	2	0	1	1	1	0	0	0	0	155
Total	77	5408	1373	78	109	21	1	107	96	10	4	6	2	191	7483
Percent	1.0%	72.3%	18.3%	1.0%	1.5%	0.3%	0.0%	1.4%	1.3%	0.1%	0.1%	0.1%	0.0%	2.6%	
AM Peak	11:00	11:00	9:00	11:00	11:00	10:00	8:00	9:00	9:00	9:00	1:00	11:00	7:00	10:00	11:00
	10	406	109	9	10	3	1	11	10	3	1	2	1	23	572
PM Peak	12:00	3:00	12:00	12:00	1:00	12:00		5:00	12:00	5:00		1:00	1:00	12:00	5:00
	PM		PM	PM		PM			PM					PM	
	9	393	96	8	12	2	*	12	9	1	*	1	1	23	519

Qk4
Traffic Engineering

Site Code: 11111111
Station ID:
Location 1:
Location 2:
Latitude: 37.374764
Longitude: -84.332430
Direction: Combined

File Name: Count 1
Date Printed: 8/17/2021
Start Date: 8/12/2021
End Date: 8/16/2021
GPS Accuracy: 79ft
Location Verified: Yes

8/15/2021 Time	Motor Cycles	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	No Class	Total
12:00 AM	2	103	24	0	2	0	0	2	1	0	0	1	0	0	135
1:00	0	48	23	2	4	0	0	0	1	0	0	0	0	0	78
2:00	0	43	8	0	1	0	0	0	0	0	0	0	0	0	52
3:00	0	28	7	0	0	0	0	0	2	0	0	0	0	0	37
4:00	0	20	3	1	1	0	0	3	1	0	0	0	0	0	29
5:00	0	29	10	0	0	0	0	1	1	0	0	0	0	0	41
6:00	0	57	16	0	0	0	0	3	0	0	0	0	0	0	76
7:00	0	69	22	0	2	0	0	0	3	0	0	0	0	1	97
8:00	0	128	34	1	2	0	0	2	2	0	0	0	0	3	172
9:00	2	179	45	3	4	1	0	3	3	1	0	0	0	4	245
10:00	3	249	64	3	3	0	0	9	3	0	0	1	0	5	340
11:00	3	257	74	5	3	1	0	12	6	0	0	0	0	12	373
12:00 PM	1	374	97	6	10	0	0	15	7	1	0	0	0	12	523
1:00	3	416	86	7	11	0	0	13	5	2	0	0	0	14	557
2:00	2	402	94	2	11	0	0	5	3	0	1	0	1	12	533
3:00	5	358	64	6	6	0	0	10	5	0	0	0	0	14	468
4:00	6	333	101	2	8	0	0	11	2	0	0	2	0	10	475
5:00	5	313	77	2	7	3	0	8	8	0	0	0	0	11	434
6:00	3	330	62	7	13	1	0	4	3	0	0	2	0	10	435
7:00	2	355	59	3	5	1	0	9	5	0	1	0	0	7	447
8:00	4	228	54	3	5	0	0	2	3	1	0	1	0	8	309
9:00	1	180	35	3	1	2	0	2	7	0	0	0	0	3	234
10:00	0	85	22	1	1	1	0	2	1	0	0	0	1	2	116
11:00	0	72	12	0	0	0	0	1	4	0	0	0	0	1	90
Total	42	4656	1093	57	100	10	0	117	76	5	2	7	2	129	6296
Percent	0.7%	74.0%	17.4%	0.9%	1.6%	0.2%	0.0%	1.9%	1.2%	0.1%	0.0%	0.1%	0.0%	2.0%	
AM Peak	10:00	11:00	11:00	11:00	1:00	9:00		11:00	11:00	9:00		12:00 AM		11:00	11:00
	3	257	74	5	4	1	*	12	6	1	*	1	*	12	373
PM Peak	4:00	1:00	4:00	1:00	6:00	5:00		12:00 PM	5:00	1:00	2:00	4:00	2:00	1:00	1:00
	6	416	101	7	13	3	*	15	8	2	1	2	1	14	557

Qk4
Traffic Engineering

Site Code: 11111111
Station ID:
Location 1:
Location 2:
Latitude: 37.374764
Longitude: -84.332430
Direction: Combined

File Name: Count 1
Date Printed: 8/17/2021
Start Date: 8/12/2021
End Date: 8/16/2021
GPS Accuracy: 79ft
Location Verified: Yes

8/16/2021 Time	Motor Cycles	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	No Class	Total
12:00 AM	0	52	11	0	0	0	0	3	2	0	0	1	0	0	69
1:00	0	33	7	0	1	0	0	1	2	0	0	0	0	0	44
2:00	0	21	2	0	0	0	0	1	3	0	0	0	0	1	28
3:00	0	16	5	0	1	0	0	0	3	0	0	0	0	0	25
4:00	0	35	11	2	1	0	0	0	7	0	0	0	0	0	56
5:00	0	63	20	2	1	0	0	1	10	3	0	0	1	2	103
6:00	2	119	32	5	5	3	0	1	12	0	0	0	0	7	186
7:00	0	229	55	12	4	0	0	7	14	4	0	1	0	11	337
8:00	0	226	60	7	9	3	0	7	24	2	0	0	2	8	348
9:00	2	217	56	7	13	5	0	11	14	1	0	0	1	8	335
10:00	3	232	63	5	13	8	0	10	18	1	0	1	1	20	375
11:00	0	4	1	0	0	0	0	0	0	0	0	0	0	0	5
12:00 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
1:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
Total	7	1247	323	40	48	19	0	42	109	11	0	3	5	57	1911
Percent	0.4%	65.3%	16.9%	2.1%	2.5%	1.0%	0.0%	2.2%	5.7%	0.6%	0.0%	0.2%	0.3%	3.0%	
AM Peak	10:00	10:00	10:00	7:00	9:00	10:00		9:00	8:00	7:00		12:00 AM	8:00	10:00	10:00
PM Peak	3	232	63	12	13	8	*	11	24	4	*	1	2	20	375
	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Grand Total	255	22190	5755	395	543	122	10	614	762	67	23	36	30	971	31773
Percent	0.0%	3.9%	1.0%	0.1%	0.2%	0.1%	0.0%	0.1%	0.3%	0.0%	0.0%	0.0%	0.0%	0.2%	

August 2021 Weekend TM Counts

Study Name Friday US 25 & KY 461

Start Date 08/13/2021

Start Time 12:00 PM

Cars

	US 25 Southbound			US 25 Westbound			KY 461 Northbound		
Start Time	Thru	Left	U-Turn	Right	Left	U-Turn	Right	Thru	U-Turn
12:00 PM	95	55	0	86	18	0	19	98	0
12:15 PM	116	62	0	64	11	1	16	85	0
12:30 PM	102	61	0	66	17	1	9	84	0
12:45 PM	93	65	0	67	15	2	12	98	1

Other Vehicles

	US 25 Southbound			US 25 Westbound			KY 461 Northbound		
Start Time	Thru	Left	U-Turn	Right	Left	U-Turn	Right	Thru	U-Turn
12:00 PM	6	1	0	0	0	0	0	11	0
12:15 PM	13	5	0	2	0	0	0	11	0
12:30 PM	7	2	0	0	0	0	1	11	0
12:45 PM	7	2	0	1	1	0	0	6	0

Total

	US 25 Southbound			US 25 Westbound			KY 461 Northbound		
Start Time	Thru	Left	U-Turn	Right	Left	U-Turn	Right	Thru	U-Turn
12:00 PM	101	56	0	86	18	0	19	109	0
12:15 PM	129	67	0	66	11	1	16	96	0
12:30 PM	109	63	0	66	17	1	10	95	0
12:45 PM	100	67	0	68	16	2	12	104	1

Study Name Sunday US 25 & KY 461**Start Date 08/15/2021****Start Time 12:00 PM****Cars**

	US 25 Southbound			US 25 Westbound			KY 461 Northbound		
Start Time	Thru	Left	U-Turn	Right	Left	U-Turn	Right	Thru	U-Turn
12:00 PM	88	45	1	65	9	0	21	168	0
12:15 PM	83	41	0	91	17	1	35	180	0
12:30 PM	98	58	1	85	13	1	14	172	0
12:45 PM	89	57	1	62	17	0	15	210	0

Other Vehicles

	US 25 Southbound			US 25 Westbound			KY 461 Northbound		
Start Time	Thru	Left	U-Turn	Right	Left	U-Turn	Right	Thru	U-Turn
12:00 PM	3	2	0	3	0	0	0	3	0
12:15 PM	5	0	0	0	1	0	0	1	0
12:30 PM	4	0	0	0	0	0	0	4	0
12:45 PM	3	0	0	0	0	0	0	1	0

Total:

	US 25 Westbound			US 25 Northbound			KY 461 Eastbound		
Start Time	Thru	Left	U-Turn	Right	Left	U-Turn	Right	Thru	U-Turn
12:00 PM	91	47	1	68	9	0	21	171	0
12:15 PM	88	41	0	91	18	1	35	181	0
12:30 PM	102	58	1	85	13	1	14	176	0
12:45 PM	92	57	1	62	17	0	15	211	0
Total:	373	203	3	306	57	2	85	739	0

Appendix B

August 2021 Weekday Count Data

Study Name US 25 & US 461**Start Date 08/31/2021****Start Time 7:00 AM****Site Code****Cars & Light Goods**

Start Time	US 25 Southbound		US 25 Westbound		US 461 Northbound	
	Thru	Left	Right	Left	Right	Thru
7:00 AM	53	24	28	2	9	60
7:15 AM	70	34	22	8	20	72
7:30 AM	92	50	37	10	29	77
7:45 AM	79	65	55	21	18	75
8:00 AM	51	26	23	8	25	83
8:15 AM	43	32	23	7	12	56
8:30 AM	43	33	29	2	15	50
8:45 AM	35	32	21	11	16	57
9:00 AM	42	26	31	9	13	59
9:15 AM	45	27	29	14	10	43
9:30 AM	41	21	34	9	7	46
9:45 AM	30	30	34	6	14	48
10:00 AM	43	24	35	11	14	47
10:15 AM	33	33	49	10	16	48
10:30 AM	44	30	38	14	19	55
10:45 AM	47	28	33	16	14	54
11:00 AM	36	32	42	11	6	46
11:15 AM	37	30	46	8	18	67
11:30 AM	48	52	59	14	20	51
11:45 AM	44	37	53	17	26	50
12:00 PM	63	64	70	18	23	63
12:15 PM	57	34	42	22	13	53
12:30 PM	32	47	47	14	17	56
12:45 PM	44	43	31	4	18	51
1:00 PM	49	31	45	13	19	64
1:15 PM	67	39	50	9	17	55
1:30 PM	41	35	36	12	23	54
1:45 PM	49	46	41	9	12	55
2:00 PM	50	45	50	15	13	52
2:15 PM	66	49	49	9	9	61
2:30 PM	69	46	46	10	18	75
2:45 PM	69	47	67	23	24	50
3:00 PM	75	47	56	17	23	73
3:15 PM	94	39	64	20	22	104
3:30 PM	88	41	53	17	24	87
3:45 PM	102	63	56	11	13	60
4:00 PM	83	55	51	16	14	78
4:15 PM	76	50	64	8	11	61
4:30 PM	87	73	69	19	21	57
4:45 PM	80	42	67	16	17	63
5:00 PM	86	52	59	24	16	70
5:15 PM	86	38	54	12	9	70
5:30 PM	106	49	41	11	9	63
5:45 PM	77	53	44	11	11	66
6:00 PM	74	39	34	9	7	45
6:15 PM	65	30	36	15	13	65
6:30 PM	65	34	38	9	7	54
6:45 PM	56	42	28	11	12	29

Study Name US 25 & US 461**Start Date 08/31/2021****Start Time 7:00 AM****Site Code****Totals**

Start Time	US 25 Southbound		US 25 Westbound		US 461 Northbound	
	Thru	Left	Right	Left	Right	Thru
7:00 AM	59	24	28	2	9	68
7:15 AM	80	34	22	8	21	78
7:30 AM	101	54	37	10	30	87
7:45 AM	96	66	55	23	19	84
8:00 AM	60	28	24	8	25	92
8:15 AM	47	33	24	7	12	64
8:30 AM	50	35	32	2	15	58
8:45 AM	46	33	22	11	17	66
9:00 AM	60	26	32	9	14	69
9:15 AM	58	30	30	15	10	48
9:30 AM	56	21	35	9	7	57
9:45 AM	36	30	36	6	15	63
10:00 AM	58	25	36	12	14	54
10:15 AM	47	34	51	11	16	56
10:30 AM	48	30	40	14	19	61
10:45 AM	60	29	34	16	14	64
11:00 AM	45	34	43	11	7	61
11:15 AM	39	32	46	9	18	83
11:30 AM	64	52	59	14	21	61
11:45 AM	61	38	54	19	26	58
12:00 PM	70	66	71	19	23	70
12:15 PM	70	35	43	22	13	61
12:30 PM	38	47	47	14	17	68
12:45 PM	56	43	33	4	18	62
1:00 PM	57	31	47	15	19	72
1:15 PM	79	40	50	9	17	62
1:30 PM	54	36	37	12	24	58
1:45 PM	61	48	43	9	13	65
2:00 PM	63	47	52	17	13	59
2:15 PM	76	51	49	9	10	68
2:30 PM	79	46	47	11	19	80
2:45 PM	83	48	67	23	25	58
3:00 PM	82	48	59	17	25	85
3:15 PM	106	39	64	20	22	111
3:30 PM	94	41	54	18	24	92
3:45 PM	111	64	58	11	13	66
4:00 PM	91	57	52	16	14	85
4:15 PM	84	52	65	8	12	66
4:30 PM	89	74	70	19	21	62
4:45 PM	85	42	67	16	17	70
5:00 PM	88	53	59	24	16	77
5:15 PM	96	38	55	12	9	75
5:30 PM	111	50	41	11	9	66
5:45 PM	85	53	45	11	11	70
6:00 PM	77	39	36	9	7	52
6:15 PM	70	32	36	15	13	69
6:30 PM	72	36	39	9	7	59
6:45 PM	63	42	28	11	12	36

Study Name US 25 & Wendy's
Start Date 08/31/2021
Start Time 7:00 AM
Site Code
Cars & Light Goods

Start Time	US 25 Southbound		Westbound Approach Westbound		US 25 Northbound	
	Thru	Left	Right	Left	Right	Thru
7:00 AM	70	2	0	6	11	81
7:15 AM	106	2	0	2	14	86
7:30 AM	138	14	0	6	19	98
7:45 AM	135	7	2	9	31	106
8:00 AM	71	3	2	6	9	102
8:15 AM	68	2	1	4	7	68
8:30 AM	73	4	3	2	7	77
8:45 AM	67	1	1	2	8	67
9:00 AM	63	3	4	4	15	73
9:15 AM	67	0	0	1	8	61
9:30 AM	57	5	1	5	11	63
9:45 AM	60	3	6	4	11	77
10:00 AM	67	1	1	3	14	68
10:15 AM	61	2	3	4	12	88
10:30 AM	70	1	3	3	22	73
10:45 AM	65	5	5	8	13	71
11:00 AM	65	4	2	3	12	75
11:15 AM	67	6	4	4	12	89
11:30 AM	86	8	6	9	17	87
11:45 AM	85	4	2	3	21	78
12:00 PM	117	7	8	6	23	102
12:15 PM	83	4	4	7	18	80
12:30 PM	75	5	3	5	16	84
12:45 PM	74	9	4	4	13	63
1:00 PM	78	3	2	1	18	88
1:15 PM	98	3	5	4	19	84
1:30 PM	67	4	6	6	11	78
1:45 PM	92	6	8	5	18	81
2:00 PM	90	10	7	7	26	86
2:15 PM	111	6	4	3	19	85
2:30 PM	111	6	5	8	19	107
2:45 PM	117	7	3	4	15	96
3:00 PM	111	3	6	4	19	112
3:15 PM	127	5	1	3	27	150
3:30 PM	120	7	7	9	19	123
3:45 PM	157	7	9	6	14	101
4:00 PM	131	6	4	12	19	105
4:15 PM	107	2	8	9	15	110
4:30 PM	147	6	3	3	15	110
4:45 PM	118	12	3	7	14	117
5:00 PM	134	10	5	5	9	121
5:15 PM	126	4	4	7	14	108
5:30 PM	142	11	3	9	17	89
5:45 PM	123	1	5	4	23	80
6:00 PM	103	3	5	6	16	63
6:15 PM	98	5	3	7	12	85
6:30 PM	90	5	2	4	22	72
6:45 PM	89	4	2	7	9	57

Study Name US 25 & Wendy's

Start Date 08/31/2021

Start Time 7:00 AM

Site Code

Totals

Start Time	US 25 Southbound		Westbound Approach Westbound		US 25 Northbound	
	Thru	Left	Right	Left	Right	Thru
7:00 AM	76	2	0	6	11	90
7:15 AM	115	4	0	2	17	91
7:30 AM	149	14	0	6	19	109
7:45 AM	154	7	2	9	31	116
8:00 AM	80	3	2	7	9	110
8:15 AM	72	2	1	4	7	77
8:30 AM	79	4	3	2	7	88
8:45 AM	79	1	1	2	9	78
9:00 AM	80	3	4	4	15	83
9:15 AM	82	0	0	1	8	68
9:30 AM	74	5	1	5	11	73
9:45 AM	65	3	6	4	11	96
10:00 AM	83	1	1	3	14	77
10:15 AM	76	2	4	4	14	98
10:30 AM	74	2	3	3	22	86
10:45 AM	79	5	5	8	13	84
11:00 AM	75	4	2	3	12	91
11:15 AM	74	6	5	4	14	103
11:30 AM	103	8	6	9	17	97
11:45 AM	101	4	2	3	21	86
12:00 PM	126	7	8	6	23	111
12:15 PM	98	4	4	7	18	90
12:30 PM	84	5	3	5	16	96
12:45 PM	85	9	4	4	13	76
1:00 PM	86	3	2	1	18	98
1:15 PM	109	4	6	4	19	91
1:30 PM	83	5	6	6	11	86
1:45 PM	105	6	9	5	19	94
2:00 PM	104	10	8	7	27	94
2:15 PM	122	6	5	3	19	92
2:30 PM	122	6	5	8	19	115
2:45 PM	130	7	3	4	15	105
3:00 PM	119	3	6	4	19	126
3:15 PM	140	5	1	3	28	157
3:30 PM	126	7	7	9	20	130
3:45 PM	167	7	9	6	14	108
4:00 PM	139	7	4	13	20	114
4:15 PM	115	3	10	9	15	117
4:30 PM	150	6	3	3	15	117
4:45 PM	125	12	3	7	14	128
5:00 PM	136	10	5	5	9	130
5:15 PM	135	4	4	7	14	113
5:30 PM	147	11	3	9	17	93
5:45 PM	132	1	5	4	23	86
6:00 PM	104	3	5	6	16	73
6:15 PM	104	5	3	7	12	90
6:30 PM	100	6	2	4	22	79
6:45 PM	95	4	2	7	9	65

Study Name US 25 & I75 Southbound Ramps**Start Date 08/31/2021****Start Time 7:00 AM****Site Code****Cars & Light Goods**

Start Time	US 25 Southbound		US 25 Northbound		I75 SB Off Ramp Eastbound		
	Thru	Left	Right	Thru	Right	Thru	Left
7:00 AM	34	6	6	81	39	0	3
7:15 AM	45	5	6	87	56	0	2
7:30 AM	94	1	6	102	47	0	1
7:45 AM	74	5	4	107	55	0	0
8:00 AM	34	7	10	92	32	0	2
8:15 AM	38	5	1	78	27	0	1
8:30 AM	36	2	8	70	35	0	4
8:45 AM	34	2	6	69	31	0	1
9:00 AM	28	11	8	79	31	0	1
9:15 AM	30	3	5	62	38	0	3
9:30 AM	31	2	7	65	31	0	1
9:45 AM	39	2	9	88	18	0	0
10:00 AM	26	1	2	72	34	0	1
10:15 AM	33	0	14	80	36	0	1
10:30 AM	35	1	6	82	32	0	1
10:45 AM	37	6	8	74	32	0	3
11:00 AM	36	7	3	70	23	0	4
11:15 AM	45	5	7	85	26	0	2
11:30 AM	44	4	8	88	35	0	2
11:45 AM	44	7	13	74	28	0	5
12:00 PM	46	4	8	111	64	0	1
12:15 PM	45	3	14	75	36	0	3
12:30 PM	50	7	13	85	31	1	1
12:45 PM	36	4	13	73	30	0	2
1:00 PM	46	5	9	82	35	0	1
1:15 PM	51	2	12	88	41	0	2
1:30 PM	38	6	11	86	27	0	0
1:45 PM	51	1	7	84	45	0	1
2:00 PM	53	9	14	93	40	0	4
2:15 PM	58	11	8	87	53	0	2
2:30 PM	53	8	9	118	40	0	4
2:45 PM	58	4	10	92	59	0	2
3:00 PM	59	5	11	114	57	1	2
3:15 PM	59	6	16	141	64	0	0
3:30 PM	64	5	11	133	55	0	5
3:45 PM	48	2	9	110	111	0	7
4:00 PM	65	6	6	97	75	0	0
4:15 PM	52	4	10	114	67	1	0
4:30 PM	57	9	11	99	94	0	5
4:45 PM	60	2	7	122	69	1	6
5:00 PM	49	7	7	123	81	0	4
5:15 PM	58	16	16	103	72	0	6
5:30 PM	63	12	8	87	76	0	3
5:45 PM	68	7	7	83	46	1	8
6:00 PM	39	9	9	67	64	0	3
6:15 PM	55	7	4	84	41	0	3
6:30 PM	43	4	9	70	49	0	3
6:45 PM	39	3	13	53	50	0	3

Study Name US 25 & I75 Southbound Ramps**Start Date 08/31/2021****Start Time 7:00 AM****Site Code****Totals**

Start Time	US 25 Southbound		US 25 Northbound		I75 SB Off Ramp Eastbound		
	Thru	Left	Right	Thru	Right	Thru	Left
7:00 AM	37	8	7	89	40	0	4
7:15 AM	47	8	6	93	66	0	2
7:30 AM	98	1	7	115	53	0	1
7:45 AM	80	7	4	117	67	0	0
8:00 AM	36	9	11	103	40	0	7
8:15 AM	41	5	1	89	29	0	1
8:30 AM	37	2	8	82	42	0	4
8:45 AM	36	4	6	80	41	0	2
9:00 AM	31	11	8	86	46	0	1
9:15 AM	31	5	5	70	51	0	5
9:30 AM	31	3	8	73	49	0	3
9:45 AM	40	6	9	104	24	0	1
10:00 AM	28	1	5	79	48	0	2
10:15 AM	34	1	14	90	48	0	1
10:30 AM	36	1	9	91	36	0	3
10:45 AM	38	8	10	84	44	0	4
11:00 AM	38	8	4	85	34	0	4
11:15 AM	45	7	8	100	32	0	4
11:30 AM	47	5	8	100	49	0	2
11:45 AM	47	9	14	81	40	0	5
12:00 PM	51	4	8	118	67	1	2
12:15 PM	47	3	15	82	49	0	3
12:30 PM	52	7	14	98	39	2	2
12:45 PM	36	6	15	84	40	1	2
1:00 PM	47	6	9	92	43	0	1
1:15 PM	53	2	13	97	51	0	5
1:30 PM	42	7	11	95	39	0	3
1:45 PM	58	1	8	97	53	0	3
2:00 PM	60	9	16	100	48	0	6
2:15 PM	60	12	8	94	61	0	2
2:30 PM	55	10	12	123	50	1	4
2:45 PM	63	4	11	101	67	0	4
3:00 PM	59	6	12	128	66	1	2
3:15 PM	61	7	16	147	74	0	1
3:30 PM	66	7	11	141	60	0	7
3:45 PM	51	3	9	118	119	0	10
4:00 PM	72	6	7	102	77	0	0
4:15 PM	58	5	11	122	71	1	1
4:30 PM	57	11	12	107	97	0	6
4:45 PM	61	2	7	130	74	1	7
5:00 PM	52	8	8	132	81	0	8
5:15 PM	60	16	16	110	79	0	6
5:30 PM	64	13	9	94	82	0	5
5:45 PM	68	7	9	86	54	1	8
6:00 PM	39	9	9	76	66	0	4
6:15 PM	57	8	4	89	45	0	4
6:30 PM	45	4	9	76	57	0	5
6:45 PM	40	3	14	59	53	0	4

Study Name US 25 & I75 Northbound Ramps**Start Date 08/31/2021****Start Time 7:00 AM****Site Code****Cars & Light Goods**

Start Time	US 25 Southbound			I75 NB Off Ramp Westbound			US 25 Northbound		
	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left
7:00 AM	7	38	0	9	0	1	0	30	54
7:15 AM	10	48	0	3	0	2	0	29	60
7:30 AM	2	89	0	6	0	12	0	50	50
7:45 AM	7	70	0	6	0	2	0	59	47
8:00 AM	8	38	0	8	0	3	0	48	48
8:15 AM	4	36	0	6	0	7	0	29	53
8:30 AM	9	34	0	4	0	3	0	29	42
8:45 AM	2	32	0	2	0	4	0	24	45
9:00 AM	5	36	0	11	0	4	0	39	37
9:15 AM	6	28	0	1	0	3	0	26	40
9:30 AM	2	28	0	6	0	4	0	30	33
9:45 AM	1	38	0	5	0	3	0	29	50
10:00 AM	8	26	0	4	0	2	0	26	47
10:15 AM	5	25	0	6	0	7	0	40	41
10:30 AM	8	35	0	9	0	1	0	44	36
10:45 AM	6	39	0	3	0	9	0	39	37
11:00 AM	5	33	0	1	0	7	0	36	37
11:15 AM	9	40	0	6	0	6	0	38	47
11:30 AM	3	40	0	12	0	9	0	38	54
11:45 AM	5	42	0	10	0	7	0	38	37
12:00 PM	9	44	0	4	0	5	0	46	61
12:15 PM	4	43	0	4	0	5	0	36	44
12:30 PM	4	49	0	7	0	8	0	37	43
12:45 PM	3	36	0	8	0	9	0	28	48
1:00 PM	1	44	0	10	0	6	0	48	33
1:15 PM	5	44	0	8	0	9	0	47	43
1:30 PM	5	41	0	7	0	4	0	43	41
1:45 PM	6	42	0	4	0	10	0	35	50
2:00 PM	4	58	0	8	0	2	0	56	41
2:15 PM	2	61	0	4	0	8	0	43	42
2:30 PM	4	50	0	7	0	12	0	63	58
2:45 PM	7	57	0	7	0	9	0	62	33
3:00 PM	4	52	0	5	0	9	0	71	46
3:15 PM	5	55	0	6	0	11	0	71	63
3:30 PM	10	60	0	4	0	8	0	90	53
3:45 PM	5	47	0	13	0	4	0	71	45
4:00 PM	2	68	0	11	0	5	0	56	39
4:15 PM	2	49	0	8	0	4	0	55	59
4:30 PM	3	63	0	11	0	6	0	62	39
4:45 PM	5	57	0	9	0	3	0	70	59
5:00 PM	7	55	0	8	0	3	0	69	51
5:15 PM	6	70	0	14	0	4	0	70	46
5:30 PM	6	67	0	8	0	10	0	45	43
5:45 PM	4	63	0	10	0	8	0	50	43
6:00 PM	3	47	0	3	0	1	0	36	32
6:15 PM	1	51	0	7	0	11	0	43	40
6:30 PM	2	42	0	3	0	4	0	39	36
6:45 PM	2	38	0	6	0	4	0	42	13

Study Name US 25 & I75 Northbound Ramps

Start Date 08/31/2021

Start Time 7:00 AM

Site Code

Totals

Start Time	US 25 Southbound			I75 NB Off Ramp Westbound			US 25 Northbound		
	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left
7:00 AM	10	43	0	10	0	1	0	33	60
7:15 AM	13	53	0	5	0	2	0	30	65
7:30 AM	3	92	0	10	1	13	0	53	59
7:45 AM	11	79	0	6	0	2	0	64	51
8:00 AM	9	40	0	9	0	5	0	53	58
8:15 AM	6	39	0	8	0	7	0	31	61
8:30 AM	11	35	0	5	0	3	0	33	48
8:45 AM	4	35	0	2	0	5	0	26	57
9:00 AM	9	37	0	11	0	6	0	42	42
9:15 AM	7	31	0	3	1	4	0	31	47
9:30 AM	4	30	0	7	0	4	0	34	40
9:45 AM	1	42	0	9	0	4	0	33	66
10:00 AM	9	27	0	4	0	3	0	29	53
10:15 AM	5	27	0	6	0	7	0	42	48
10:30 AM	8	36	0	10	0	1	0	49	42
10:45 AM	8	42	0	3	0	9	0	42	46
11:00 AM	10	35	0	1	1	8	0	38	48
11:15 AM	10	43	0	6	1	6	0	44	60
11:30 AM	3	45	0	13	0	9	0	39	66
11:45 AM	6	46	0	11	0	9	0	39	43
12:00 PM	9	49	0	5	0	6	0	47	70
12:15 PM	6	45	0	5	0	5	0	36	52
12:30 PM	4	50	0	8	0	9	0	40	52
12:45 PM	5	38	0	9	0	9	0	30	57
1:00 PM	3	45	0	10	0	7	0	50	40
1:15 PM	6	44	0	10	0	12	0	49	52
1:30 PM	5	44	0	9	0	6	0	47	49
1:45 PM	6	48	0	6	0	12	0	38	62
2:00 PM	5	61	0	11	0	5	0	60	47
2:15 PM	3	62	0	5	0	10	0	43	49
2:30 PM	6	52	0	7	0	15	0	63	63
2:45 PM	9	59	0	7	0	11	0	67	39
3:00 PM	6	53	0	7	0	9	0	80	52
3:15 PM	5	56	0	11	0	13	0	72	69
3:30 PM	12	62	0	4	0	11	0	93	59
3:45 PM	6	49	0	16	0	6	0	75	52
4:00 PM	2	73	0	12	0	7	0	58	41
4:15 PM	4	54	0	10	0	7	0	58	69
4:30 PM	5	65	0	12	0	6	0	63	47
4:45 PM	5	57	0	10	0	4	0	72	66
5:00 PM	7	57	0	9	0	6	0	75	59
5:15 PM	6	73	0	15	1	4	0	73	49
5:30 PM	7	69	0	11	0	11	0	47	47
5:45 PM	4	63	0	12	0	8	0	51	46
6:00 PM	3	47	0	5	0	1	0	40	39
6:15 PM	3	53	0	9	0	13	0	44	45
6:30 PM	2	43	0	6	1	4	0	41	42
6:45 PM	4	40	0	6	0	4	0	46	18

Study Name US 25 & Hummel Rd**Start Date 08/31/2021****Start Time 7:00 AM****Site Code****Cars & Light Goods**

Start Time	US 25 Southbound			Hummel Rd Westbound			US 25 Northbound			Green Hill Rd Eastbound		
	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left
7:00 AM	0	27	0	0	0	1	0	17	3	5	0	1
7:15 AM	0	41	0	0	0	0	0	30	2	2	0	0
7:30 AM	1	76	0	0	0	3	1	21	2	10	1	1
7:45 AM	0	46	0	1	0	3	0	38	4	7	0	0
8:00 AM	0	20	0	1	0	1	2	28	2	3	0	0
8:15 AM	0	21	0	1	0	2	1	17	3	3	0	1
8:30 AM	1	23	1	0	0	2	1	25	1	2	0	0
8:45 AM	1	16	0	0	0	0	4	14	4	5	0	2
9:00 AM	1	24	0	2	0	2	6	25	1	7	0	2
9:15 AM	0	24	0	0	0	2	2	14	2	0	0	2
9:30 AM	1	24	0	0	1	1	2	22	5	2	0	0
9:45 AM	0	24	0	2	0	3	4	27	4	2	0	1
10:00 AM	0	20	0	1	0	1	0	20	3	2	0	0
10:15 AM	1	15	0	1	0	3	2	26	2	2	0	2
10:30 AM	1	21	1	1	0	2	3	26	5	4	0	0
10:45 AM	0	28	0	0	0	0	1	21	3	4	1	0
11:00 AM	1	24	0	0	0	1	3	23	2	1	0	1
11:15 AM	1	23	0	1	0	4	3	22	4	3	0	0
11:30 AM	0	26	0	2	0	2	4	20	5	3	2	0
11:45 AM	1	29	0	0	0	1	0	22	6	4	1	0
12:00 PM	0	25	0	1	1	0	2	36	4	3	0	0
12:15 PM	1	31	3	1	0	3	4	23	0	4	0	1
12:30 PM	1	26	1	1	1	3	6	28	2	4	0	0
12:45 PM	1	28	0	0	1	2	4	23	2	0	1	0
1:00 PM	0	25	0	2	1	3	3	39	4	7	0	0
1:15 PM	2	24	0	1	0	3	3	37	4	3	0	0
1:30 PM	1	36	0	1	1	2	4	31	3	3	0	0
1:45 PM	0	26	0	0	1	2	1	22	3	3	0	0
2:00 PM	2	37	0	1	0	6	3	35	4	3	0	1
2:15 PM	0	39	0	0	0	4	5	30	3	4	0	2
2:30 PM	0	33	0	0	1	5	6	49	5	5	0	0
2:45 PM	1	41	0	0	0	0	1	43	7	5	0	0
3:00 PM	0	34	1	2	0	2	3	46	15	5	0	0
3:15 PM	3	45	1	2	3	4	3	53	11	8	1	0
3:30 PM	1	37	0	1	1	3	4	59	8	8	1	0
3:45 PM	1	35	0	1	0	2	4	54	6	5	0	0
4:00 PM	0	49	2	0	0	1	3	48	4	1	1	0
4:15 PM	2	29	1	2	0	5	9	35	3	1	0	0
4:30 PM	2	49	1	1	0	2	8	49	7	2	0	1
4:45 PM	2	42	0	3	0	4	6	42	10	2	0	0
5:00 PM	1	44	2	2	1	5	8	46	11	6	1	0
5:15 PM	2	50	3	3	2	8	7	46	11	4	2	0
5:30 PM	2	46	1	1	2	6	12	33	9	5	0	0
5:45 PM	1	40	1	2	1	4	6	28	8	4	0	0
6:00 PM	1	31	3	1	0	2	7	25	5	5	0	0
6:15 PM	1	32	1	1	1	3	2	31	3	5	1	1
6:30 PM	0	27	1	3	0	3	2	21	2	5	0	1
6:45 PM	0	22	2	2	0	2	3	30	4	4	0	0

Study Name US 25 & Hummel Rd

Start Date 08/31/2021

Start Time 7:00 AM

Site Code

Totals

	US 25 Southbound			Hummel Rd Westbound			US 25 Northbound			Green Hill Rd Eastbound		
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left
7:00 AM	0	27	0	0	0	1	0	18	3	6	0	1
7:15 AM	0	43	0	0	0	0	0	32	2	2	0	0
7:30 AM	1	79	0	0	0	4	1	22	2	10	1	1
7:45 AM	0	53	0	1	0	3	0	41	4	7	0	0
8:00 AM	0	22	0	1	0	1	2	30	2	3	0	0
8:15 AM	0	21	0	1	0	2	2	19	3	3	0	1
8:30 AM	1	24	1	0	0	2	1	26	1	2	0	0
8:45 AM	1	17	0	0	0	0	4	15	4	5	0	2
9:00 AM	1	27	0	2	0	2	6	26	1	7	0	2
9:15 AM	0	25	0	0	0	2	2	15	2	0	0	2
9:30 AM	1	26	0	0	1	1	2	22	5	2	0	0
9:45 AM	0	25	0	2	0	3	4	29	5	2	0	1
10:00 AM	0	21	0	1	1	1	1	20	3	2	0	0
10:15 AM	1	15	0	1	0	4	2	28	2	2	0	3
10:30 AM	1	21	1	1	0	2	3	27	5	4	0	0
10:45 AM	0	30	0	0	0	0	1	23	3	4	1	0
11:00 AM	1	25	0	0	0	1	3	25	2	1	0	1
11:15 AM	1	25	0	1	0	4	3	23	4	3	0	0
11:30 AM	0	27	0	2	0	2	4	21	5	3	2	0
11:45 AM	1	31	0	0	0	1	0	22	6	4	1	0
12:00 PM	0	27	0	1	1	0	2	36	4	3	0	0
12:15 PM	1	33	3	1	0	3	4	23	0	4	0	1
12:30 PM	1	29	1	1	1	3	6	30	2	4	0	0
12:45 PM	1	28	0	0	1	2	4	25	2	0	1	0
1:00 PM	0	26	0	2	1	3	3	40	4	7	0	0
1:15 PM	2	25	0	1	0	3	3	39	4	3	0	0
1:30 PM	1	40	0	1	1	2	4	33	3	3	0	0
1:45 PM	0	28	0	0	1	2	1	22	3	3	0	1
2:00 PM	2	39	0	1	0	6	3	36	4	4	0	1
2:15 PM	0	39	0	0	0	4	5	31	3	4	0	2
2:30 PM	1	33	0	0	1	5	6	49	5	5	0	0
2:45 PM	2	43	0	0	0	0	1	43	7	5	1	0
3:00 PM	0	34	1	2	0	3	3	54	15	5	0	0
3:15 PM	3	45	1	2	3	4	4	55	11	8	1	0
3:30 PM	1	38	0	1	1	4	4	60	8	8	1	0
3:45 PM	1	36	0	1	0	2	4	54	7	6	0	0
4:00 PM	0	52	2	0	0	1	3	49	4	1	1	0
4:15 PM	2	30	1	2	0	5	9	35	4	1	0	0
4:30 PM	2	51	1	1	0	2	8	49	7	2	0	1
4:45 PM	2	42	0	3	0	4	6	44	11	2	0	0
5:00 PM	1	45	2	2	1	5	8	47	11	6	1	0
5:15 PM	2	51	3	3	2	8	7	48	12	4	2	0
5:30 PM	2	46	1	1	2	6	12	33	10	5	0	0
5:45 PM	1	40	1	2	1	4	6	29	8	4	0	0
6:00 PM	1	31	3	1	0	2	7	26	5	6	0	0
6:15 PM	1	32	1	1	1	3	2	31	3	5	1	1
6:30 PM	0	28	1	3	0	3	2	22	2	5	0	1
6:45 PM	0	22	2	2	0	2	3	32	4	4	0	0

Appendix C

2021 Turning Movement Forecasts

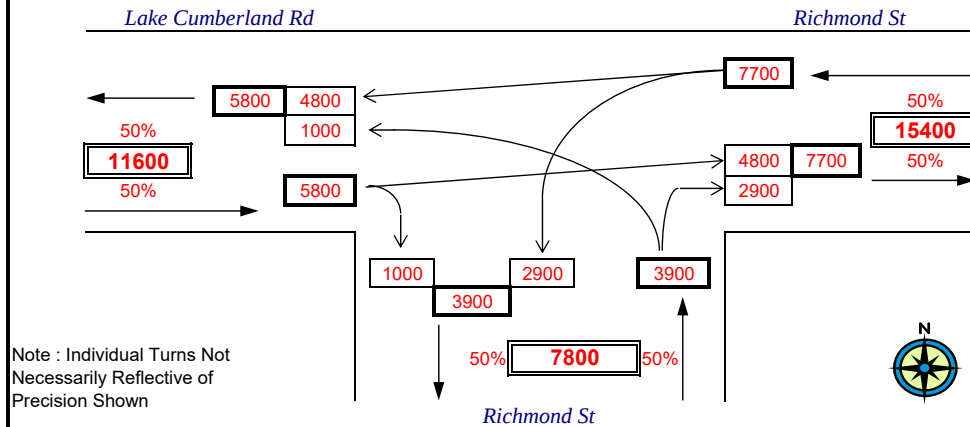
PROJECT: US 25 Mt Vernon Planning Study
 ITEM NUMBER: 0
 MARS NUMBER: 0
 REQUEST DATE: Tuesday, February 1, 2022
 ANALYST: 0
 YEAR: 2021 ADT and Design Hour Volumes
 INTERSECTION: US 25 & KY 461

NOTE: K-Factors, Directional Distributions, and Peak Hour Factors were determined from a 2021 Turning Movement Count. AM and PM DHVs represent 30th highest hour estimates for each turn maneuver.

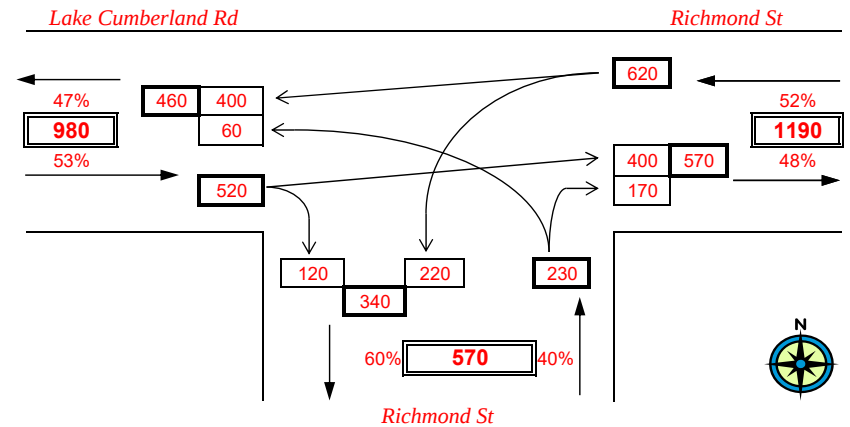
TURN MOVEMENT 1 (2021)

****DHV TURN MOVEMENT FORECASTS SHOULD NOT BE USED FOR SIGNAL TIMING OR WARRANT ANALYSIS**

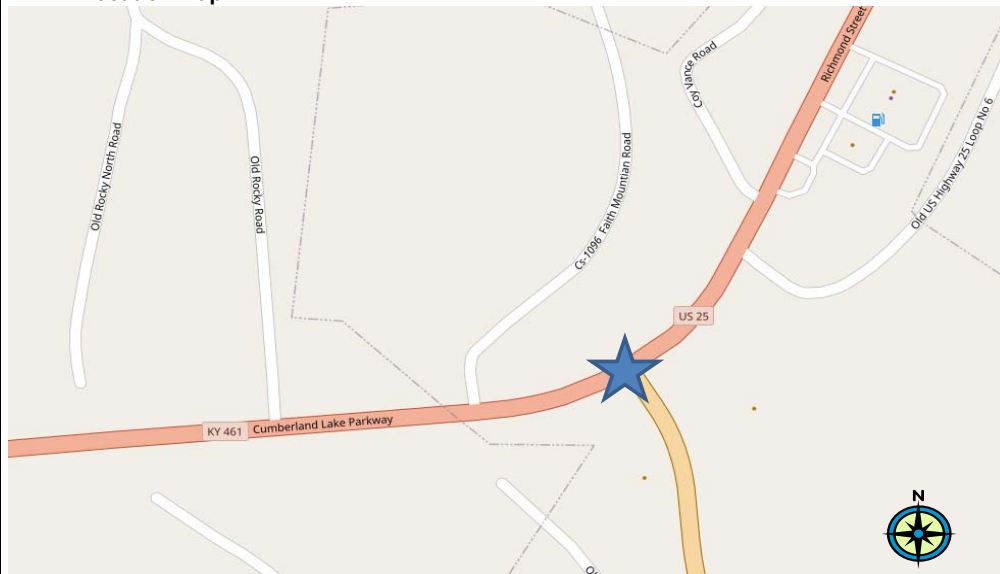
2021 ADT



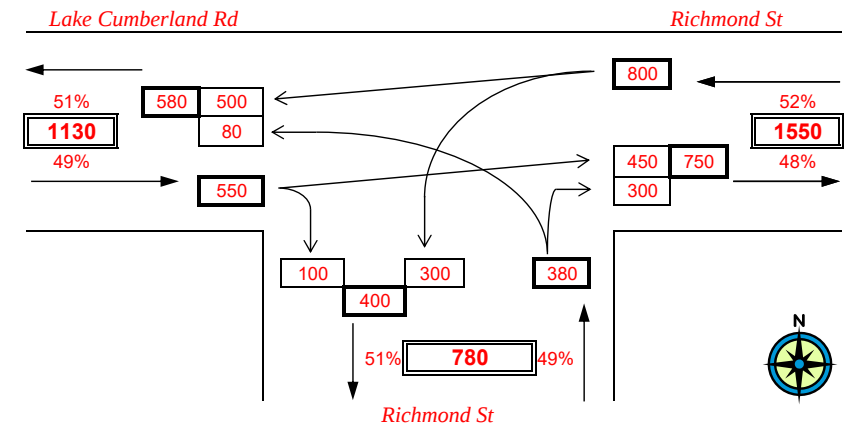
2021 AM Design Hour



Location Map



2021 PM Design Hour

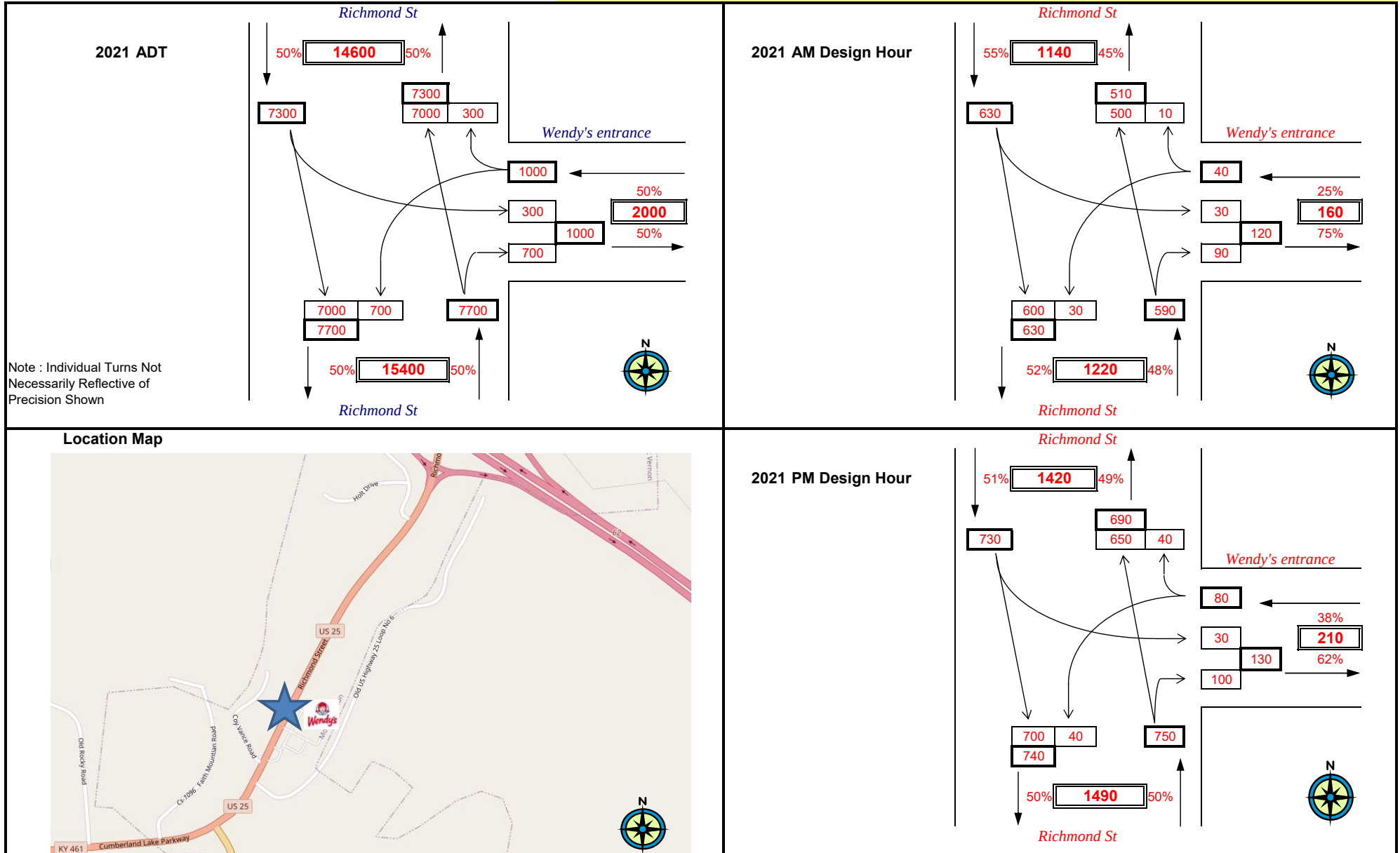


PROJECT: US 25 Mt Vernon Planning Study
 ITEM NUMBER: 0
 MARS NUMBER: 0
 REQUEST DATE: Tuesday, February 1, 2022
 ANALYST: 0
 YEAR: 2021 ADT and Design Hour Volumes
 INTERSECTION: US 25 & Wendy's entrance

NOTE: K-Factors, Directional Distributions, and Peak Hour Factors were determined from a 2021 Turning Movement Count. AM and PM DHVs represent 30th highest hour estimates for each turn maneuver.

TURN MOVEMENT 2 (2021)

****DHV TURN MOVEMENT FORECASTS SHOULD NOT BE USED FOR SIGNAL TIMING OR WARRANT ANALYSIS**

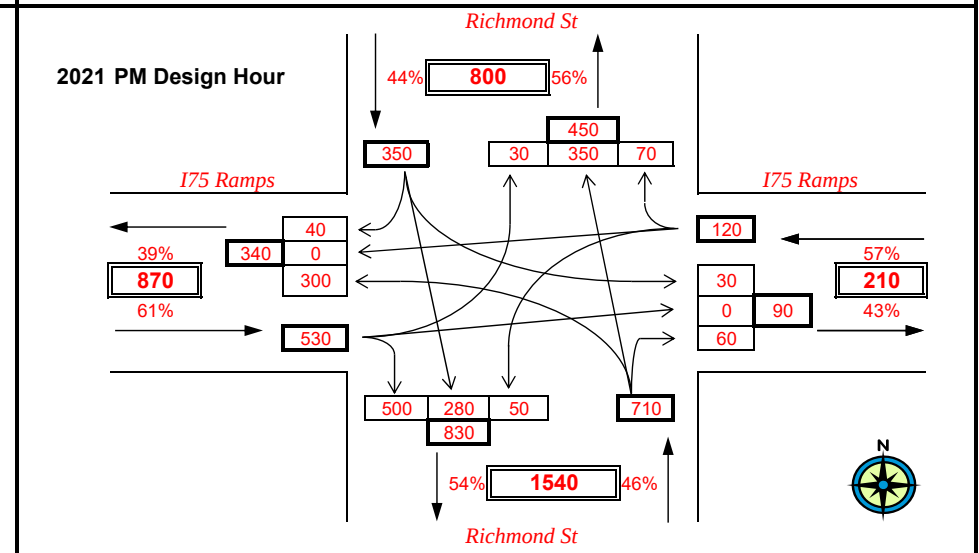
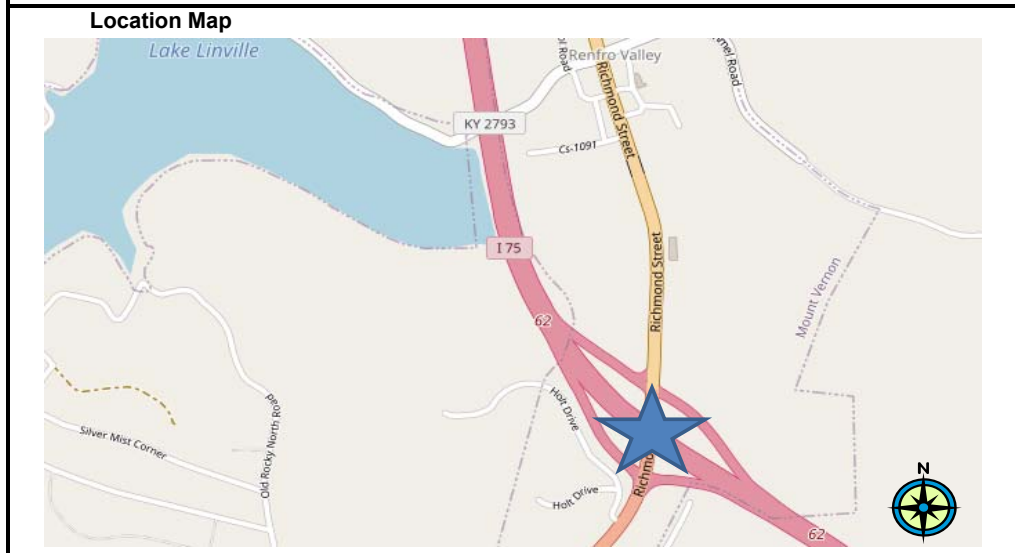
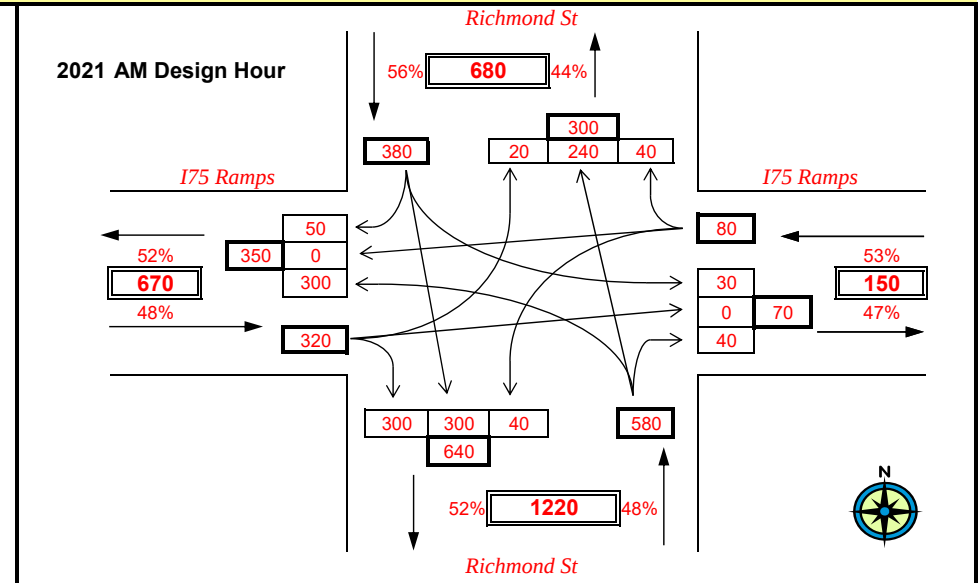
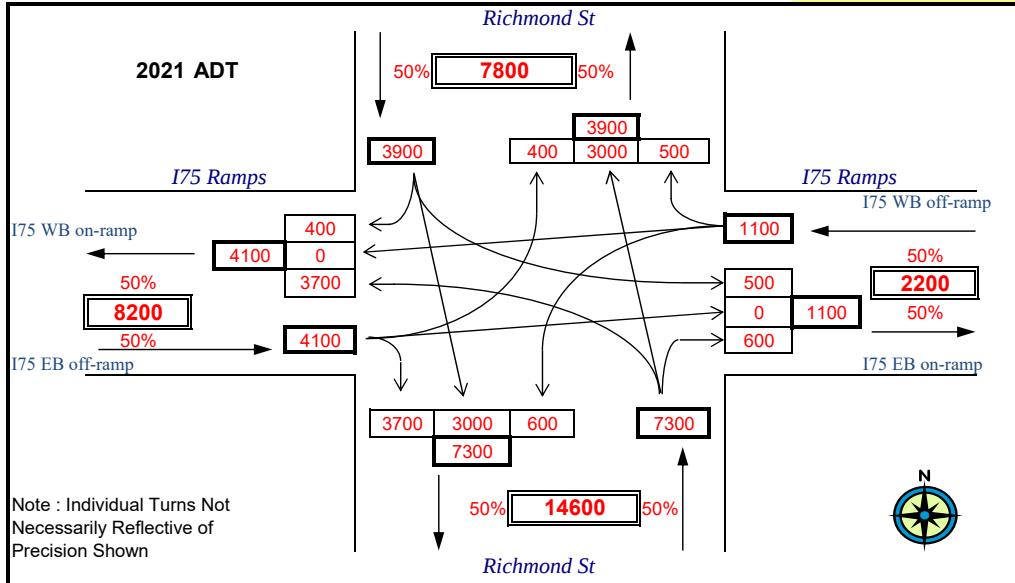


PROJECT: US 25 Mt Vernon Planning Study
 ITEM NUMBER: 0
 MARS NUMBER: 0
 REQUEST DATE: Tuesday, February 1, 2022
 ANALYST: 0
 YEAR: 2021 ADT and Design Hour Volumes
 INTERSECTION: US 25 & I75 Ramp Terminal

NOTE: K-Factors, Directional Distributions, and Peak Hour Factors were determined from a 2021 Turning Movement Count. AM and PM DHVs represent 30th highest hour estimates for each turn maneuver.

TURN MOVEMENT 3 (2021)

****DHV TURN MOVEMENT FORECASTS SHOULD NOT BE USED FOR SIGNAL TIMING OR WARRANT ANALYSIS**

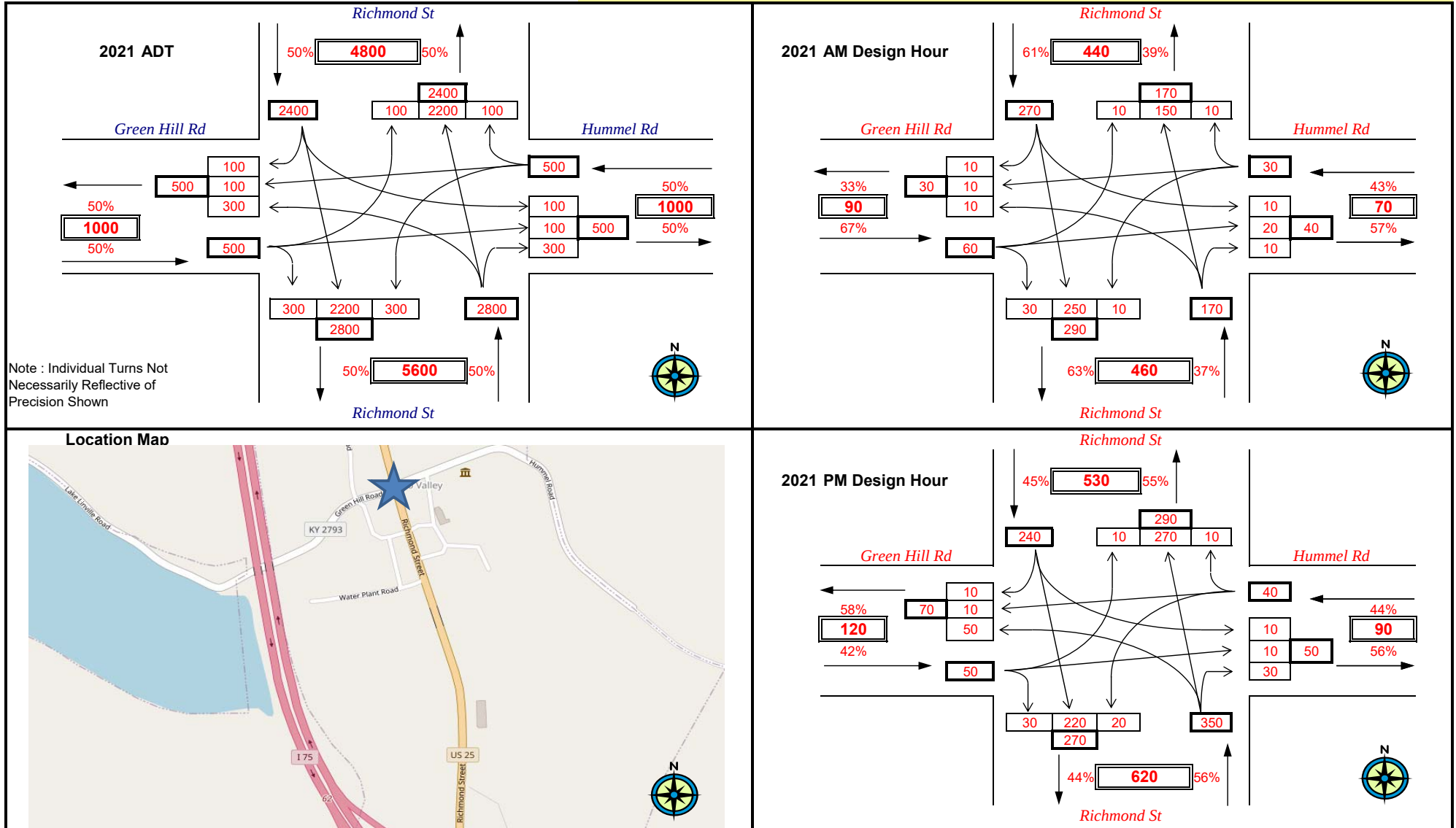


PROJECT: US 25 Mt Vernon Planning Study
 ITEM NUMBER: 0
 MARS NUMBER: 0
 REQUEST DATE: Tuesday, February 1, 2022
 ANALYST: 0
 YEAR: 2021 ADT and Design Hour Volumes
 INTERSECTION: US 25 & Hummel Road

NOTE: K-Factors, Directional Distributions, and Peak Hour Factors were determined from a 2021 Turning Movement Count. AM and PM DHVs represent 30th highest hour estimates for each turn maneuver.

TURN MOVEMENT 4 (2021)

****DHV TURN MOVEMENT FORECASTS SHOULD NOT BE USED FOR SIGNAL TIMING OR WARRANT ANALYSIS**



Appendix D

2045 No-Build Turning Movement Forecasts

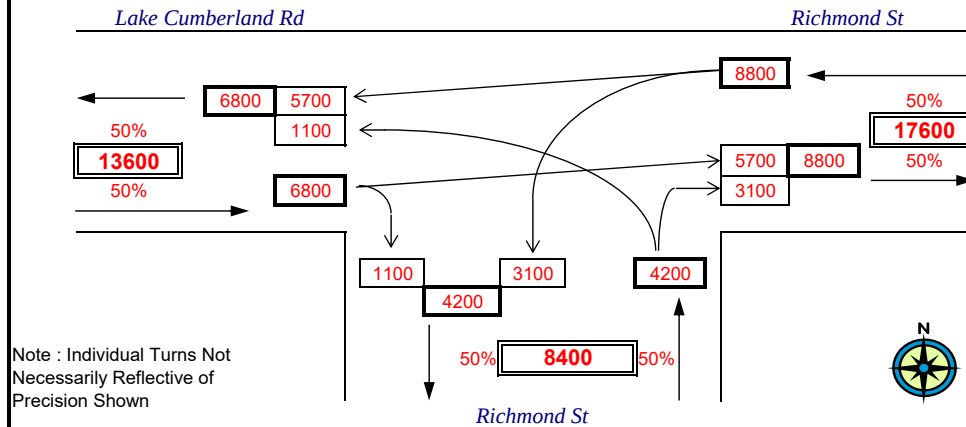
PROJECT: US 25 Mt Vernon Planning Study
 ITEM NUMBER: 0
 MARS NUMBER: 0
 REQUEST DATE: Tuesday, February 1, 2022
 ANALYST: 0
 YEAR: 2045 ADT and Design Hour Volumes
 INTERSECTION: US 25 & KY 461

NOTE: K-Factors, Directional Distributions, and Peak Hour Factors were determined from a 2045 Turning Movement Count. AM and PM DHVs represent 30th highest hour estimates for each turn maneuver.

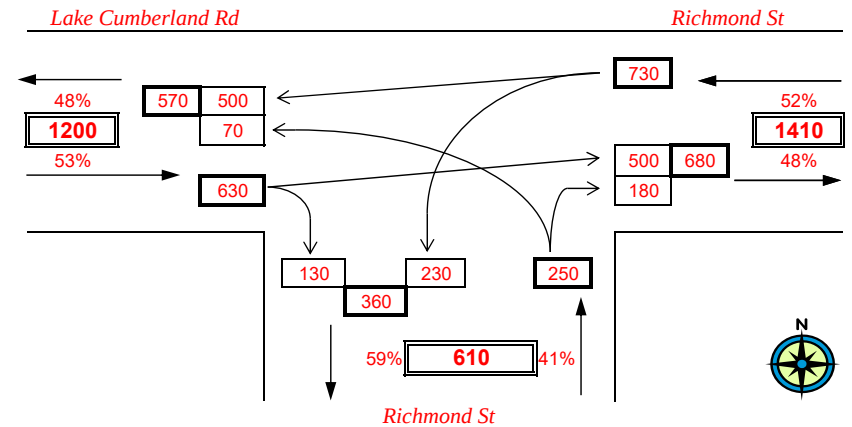
TURN MOVEMENT 1 (2045)

****DHV TURN MOVEMENT FORECASTS SHOULD NOT BE USED FOR SIGNAL TIMING OR WARRANT ANALYSIS**

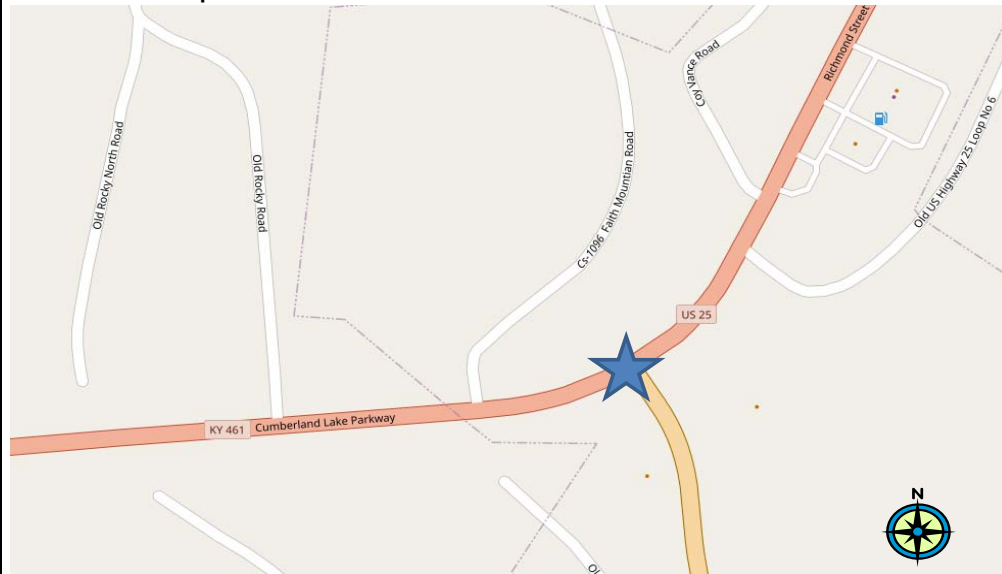
2045 ADT



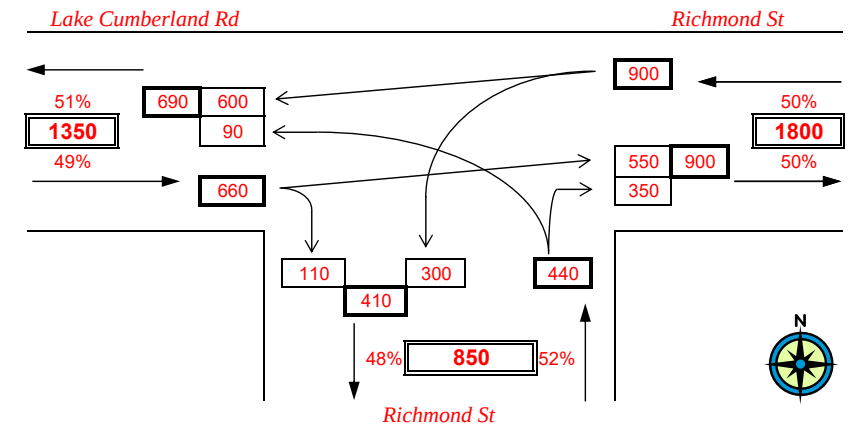
2045 AM Design Hour

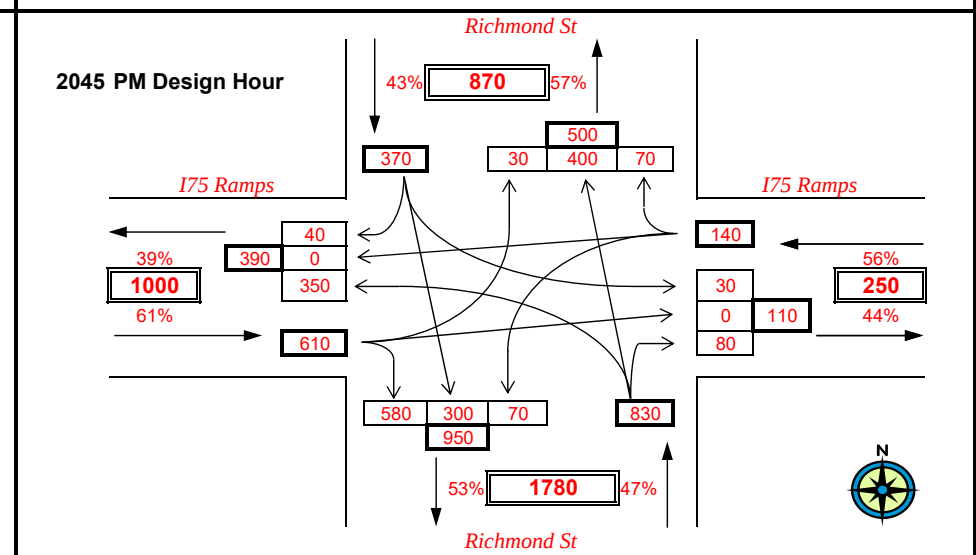


Location Map



2045 PM Design Hour



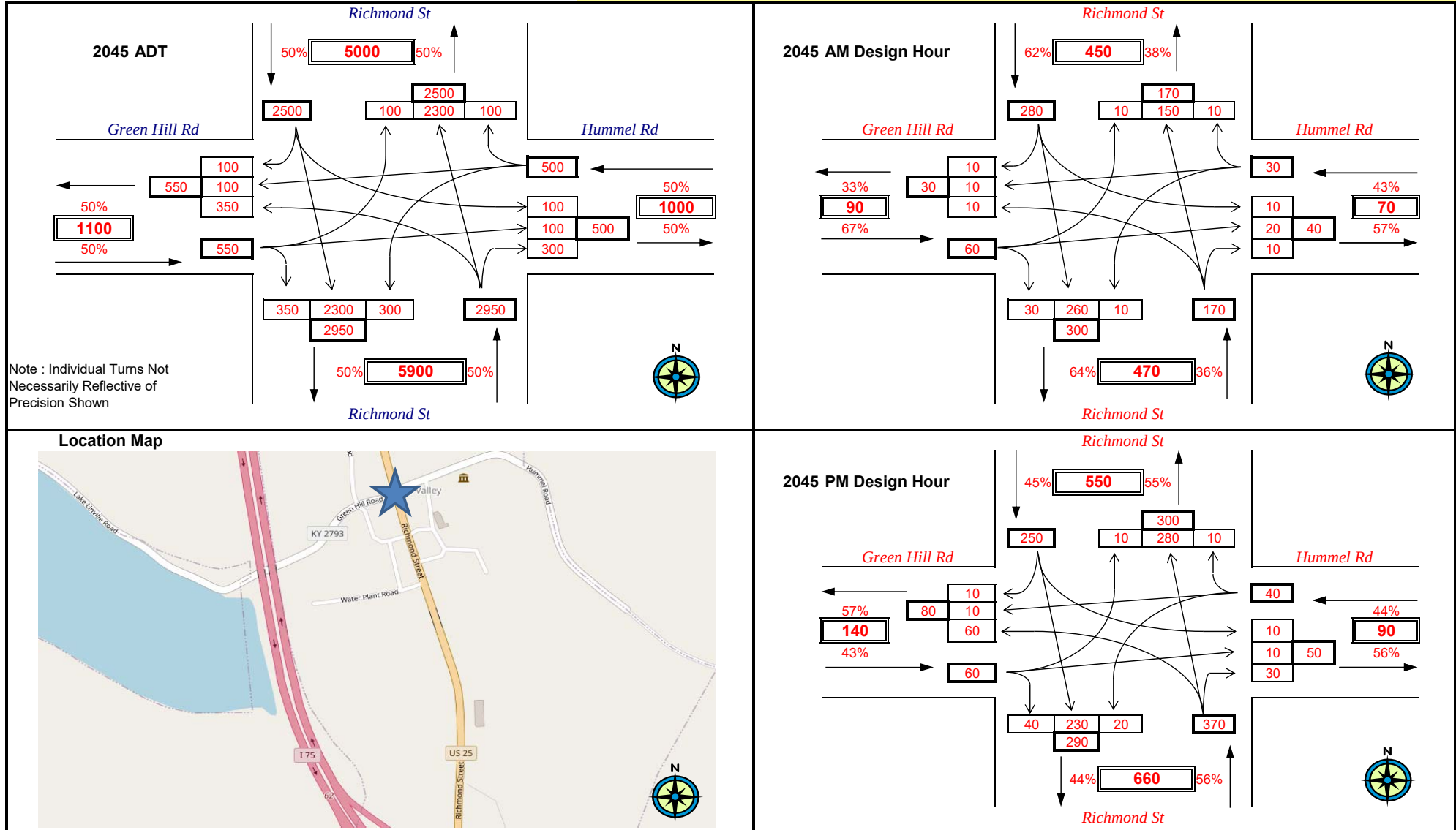


PROJECT: US 25 Mt Vernon Planning Study
 ITEM NUMBER: 0
 MARS NUMBER: 0
 REQUEST DATE: Tuesday, February 1, 2022
 ANALYST: 0
 YEAR: 2045 ADT and Design Hour Volumes
 INTERSECTION: US 25 & Hummel Road

NOTE: K-Factors, Directional Distributions, and Peak Hour Factors were determined from a 2045 Turning Movement Count. AM and PM DHVs represent 30th highest hour estimates for each turn maneuver.

TURN MOVEMENT 4 (2045)

****DHV TURN MOVEMENT FORECASTS SHOULD NOT BE USED FOR SIGNAL TIMING OR WARRANT ANALYSIS**



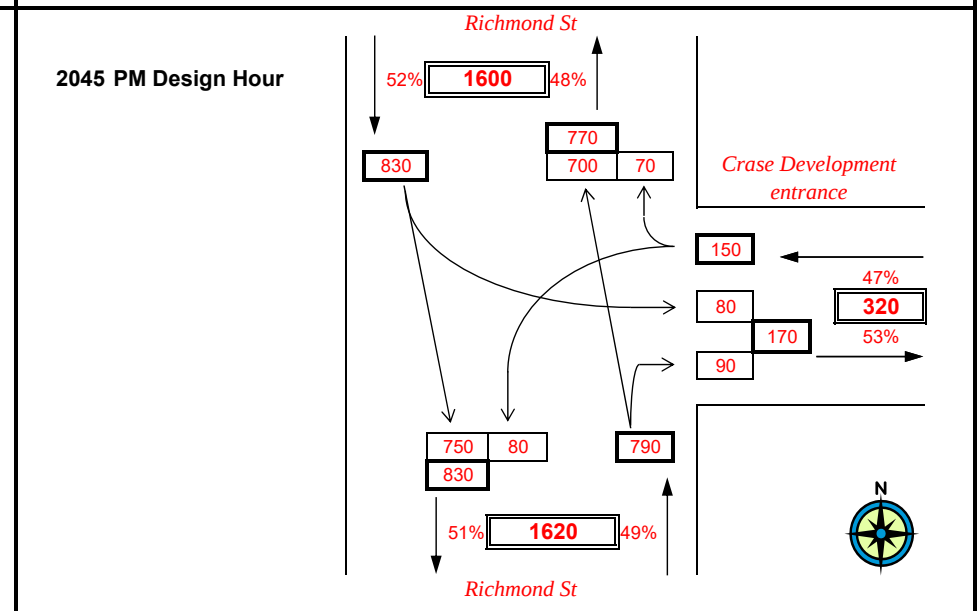
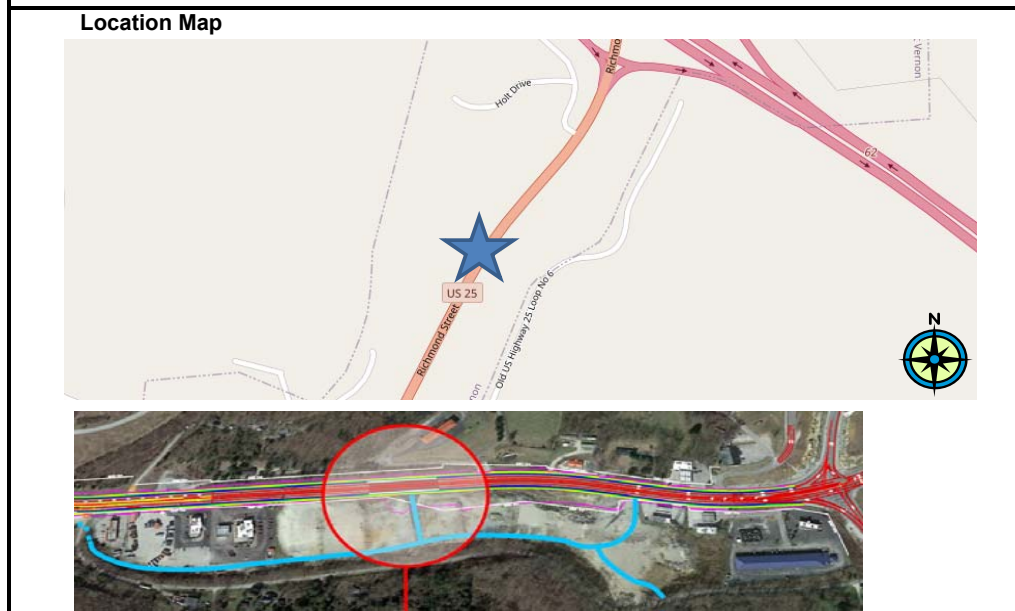
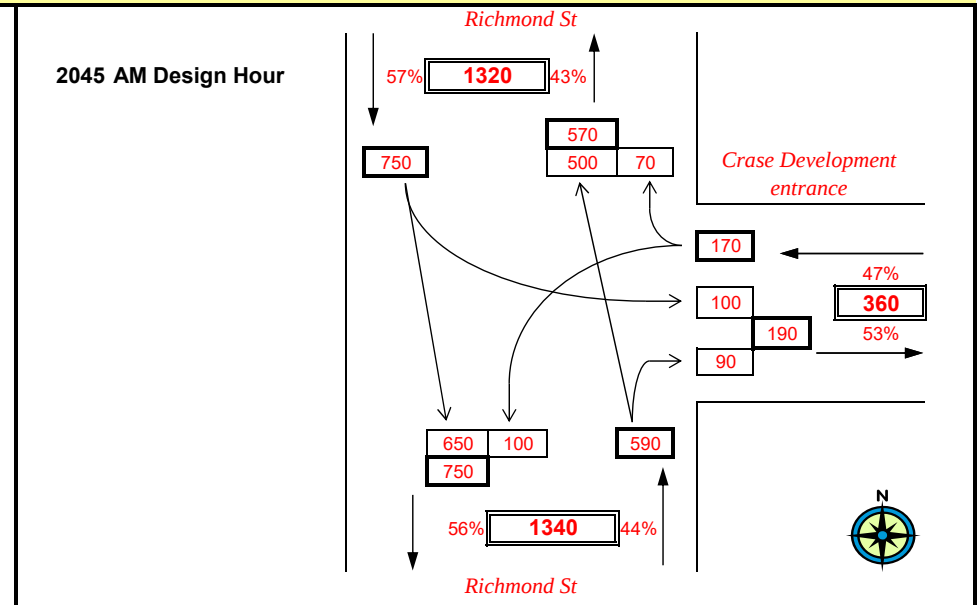
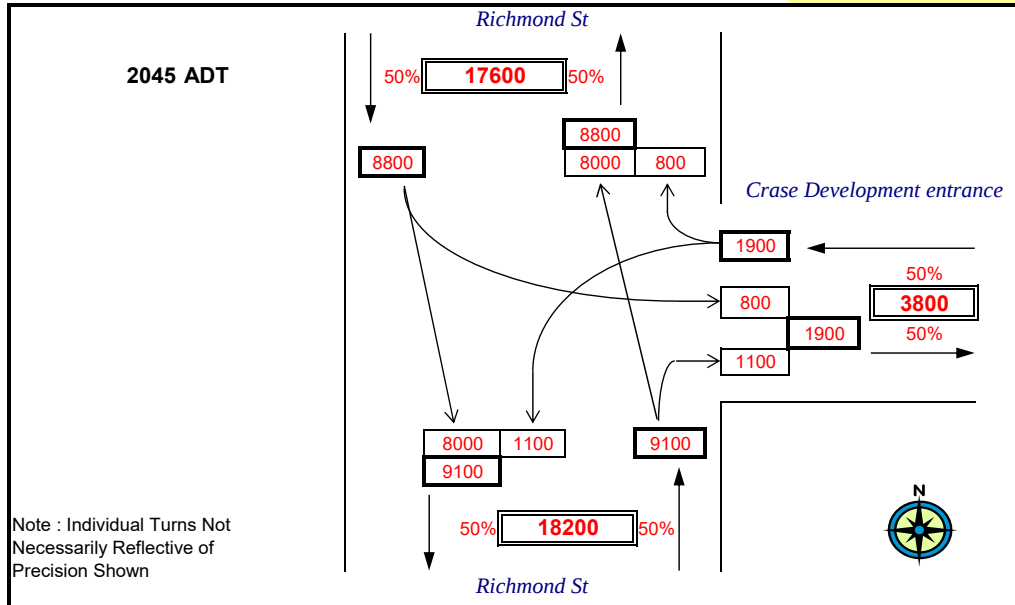
PROJECT: US 25 Mt Vernon Planning Study
ITEM NUMBER: 0
MARS NUMBER: 0
REQUEST DATE: Tuesday, February 1, 2022
ANALYST: 0

YEAR: 2045 ADT and Design Hour Volumes
INTERSECTION: US 25 & Crase Development entrance

NOTE: K-Factors, Directional Distributions, and Peak Hour Factors were determined from a 2045 Turning Movement Count. AM and PM DHVs represent 30th highest hour estimates for each turn maneuver.

TURN MOVEMENT 5 (2045)

****DHV TURN MOVEMENT FORECASTS SHOULD NOT BE USED FOR SIGNAL TIMING OR WARRANT ANALYSIS**



Appendix E

Vissim Output Tables for Roundabout Scenarios

Appendix E: Vissim Outputs for Roundabouts

2045 PM Peak Hour: No-Build

Movement	QLen	QLenMax	Vehs	LOS	VehDelay	PersDelay	StopDelay
Intersection 1: US 25 at SB Ramps	0.8	100.8	1917	LOS_A	1.4	1.4	0.2
1 - 4: US25 NB@267.6 - 3: US25 NB@13.3	0.0	0.0	857	LOS_A	0.7	0.7	0.0
1 - 4: US25 NB@267.6 - 16: EB On@40.9	0.0	0.0	78	LOS_A	1.8	1.8	0.0
1 - 7: US25 SB@4.0 - 6: US25 SB@147.4	0.0	0.0	415	LOS_A	1.1	1.1	0.0
1 - 7: US25 SB@4.0 - 16: EB On@40.9	1.4	84.6	22	LOS_A	9.2	9.2	4.3
1 - 13: EB Off@20.7 - 3: US25 NB@13.3	3.3	100.8	44	LOS_B	11.9	11.9	5.8
1 - 13: EB Off@20.7 - 15@145.3	0.0	0.0	501	LOS_A	1.5	1.5	0.0
Intersection 2: US 25 at NB Ramps	39.7	476.4	1429	LOS_C	24.2	24.2	18.4
2 - 1: US25 NB@117.2 - 2: US25 NB@25.0	81.1	433.3	552	LOS_B	10.2	10.2	5.9
2 - 1: US25 NB@117.2 - 11: WB On@316.0	81.1	433.3	342	LOS_D	47.2	47.2	39.1
2 - 9: US25 SB@30.3 - 10014: US25 SB@80.1	57.6	476.4	372	LOS_C	24.3	24.3	18.1
2 - 9: US25 SB@30.3 - 10016: WB On@10.9	0.0	48.0	43	LOS_A	0.9	0.9	0.0
2 - 10: WB Off@204.4 - 2: US25 NB@25.0	36.6	217.9	56	LOS_A	9.9	9.9	3.2
2 - 10: WB Off@204.4 - 10013: US25 SB@99.9	23.1	189.9	64	LOS_D	49.4	49.4	42.2

2045 PM Peak Hour: Roundabout at Southbound Ramps

Movement	QLen	QLenMax	Vehs	LOS	VehDelay	PersDelay	StopDelay
Intersection 1: US 25 at SB Ramps	5.8	305.1	1369	LOS_A	4.6	4.6	0.3
1 - 4: US25 NB@271.1 - 6: US25 SB@50.7	5.0	167.0	83	LOS_A	4.2	4.2	0.3
1 - 4: US25 NB@271.1 - 16: EB On@54.1	2.5	167.0	68	LOS_A	2.4	2.4	0.0
1 - 4: US25 NB@271.1 - 10025: US25 NB@31.9	5.0	167.0	786	LOS_A	3.5	3.5	0.2
1 - 8: US25 SB@331.6 - 6: US25 SB@50.7	12.3	305.1	405	LOS_A	7.1	7.1	0.6
1 - 8: US25 SB@331.6 - 16: EB On@54.1	12.3	305.1	27	LOS_A	6.6	6.6	0.4
Intersection 2: US 25 at NB Ramps	27.8	313.0	1356	LOS_B	17.9	17.9	13.2
2 - 1: US25 NB@114.8 - 2: US25 NB@7.4	54.5	256.9	506	LOS_A	4.3	4.3	1.5
2 - 1: US25 NB@114.8 - 11: WB On@414.2	54.5	256.9	314	LOS_D	42.1	42.1	35.0
2 - 9: US25 SB@113.0 - 8: US25 SB@3.0	32.1	306.1	378	LOS_B	14.6	14.6	9.6
2 - 9: US25 SB@113.0 - 10016@106.1	0.1	44.0	38	LOS_A	1.4	1.4	0.3
2 - 10: WB Off@36.7 - 2: US25 NB@7.4	33.5	173.5	65	LOS_A	8.9	8.9	1.5
2 - 10: WB Off@36.7 - 8: US25 SB@3.0	18.8	145.5	55	LOS_D	49.0	49.0	42.4

2045 PM Peak Hour: Roundabout at Both Ramps

Movement	QLen	QLenMax	Vehs	LOS	VehDelay	PersDelay	StopDelay
Intersection 1: US 25 at SB Ramps	2.6	235.7	1370	LOS_A	3.1	3.1	0.2
1 - 4: US25 NB@270.5 - 3: US25 NB@1.7	2.5	133.9	786	LOS_A	2.5	2.5	0.1
1 - 4: US25 NB@270.5 - 6: US25 SB@50.7	2.5	133.9	84	LOS_A	3.8	3.8	0.2
1 - 4: US25 NB@270.5 - 16: EB On@54.1	1.2	133.9	67	LOS_A	2.5	2.5	0.0
1 - 8: US25 SB@323.1 - 6: US25 SB@50.7	5.4	235.7	406	LOS_A	4.2	4.2	0.4
1 - 8: US25 SB@323.1 - 16: EB On@54.1	5.4	235.7	27	LOS_A	5.0	5.0	0.7
Intersection 2: US 25 at NB Ramps	3.9	273.3	1355	LOS_A	4.3	4.3	0.8
2 - 3: US25 NB@261.8 - 2: US25 NB@58.9	0.0	0.0	505	LOS_A	2.6	2.6	0.0
2 - 3: US25 NB@261.8 - 10008: WB On@45.8	0.0	0.0	314	LOS_A	2.3	2.3	0.0
2 - 9: US25 SB@11.9 - 8: US25 SB@4.0	14.1	273.3	378	LOS_A	7.5	7.5	1.7
2 - 9: US25 SB@11.9 - 10016@55.8	0.0	0.0	38	LOS_A	1.7	1.7	0.0
2 - 10: WB Off@40.4 - 2: US25 NB@58.9	2.6	114.1	65	LOS_A	6.8	6.8	2.7
2 - 10: WB Off@40.4 - 8: US25 SB@4.0	2.7	94.4	55	LOS_A	8.6	8.6	4.1