

**TOWNSHIP OF UPPER SAUCON
LEHIGH COUNTY, PENNSYLVANIA
ORDINANCE NO. 170**

**AN ORDINANCE OF THE BOARD OF SUPERVISORS OF UPPER SAUCON
TOWNSHIP, LEHIGH COUNTY, PENNSYLVANIA, PROVIDING A DEFINITION OF
CONSTRUCTION TRUCKS AND MOTOR CARRIER VEHICLES, PROHIBITING
THE OPERATION OF CONSTRUCTION TRUCKS AND MOTOR CARRIER
VEHICLES ON A SEGMENT OF BLUE CHURCH ROAD SOUTH, AND PROVIDING
FOR SIGNS AND PENALTIES**

A. LEGISLATIVE FINDINGS.

WHEREAS, Blue Church Road South (T-406) in Upper Saucon Township (hereinafter, "Township") is a local Township road acting as a north-south collector route; and

WHEREAS, Blue Church Road South primarily carries local motorist from local neighborhoods to state owned and maintained regional roadways; and

WHEREAS, concern has been raised from the increase in truck traffic using Blue Church Road South as a cut-through to the state-owned regional roadways which has caused, and continues to cause, deterioration to Township roadways and compromising public safety; and

WHEREAS, a one (1) mile segment of Blue Church Road South (hereinafter, "BCR Segment") traverses from Beverly Hills Road (SR 2040) to Mill Road (SR 2024); and

WHEREAS, these considerations, among others, caused the Township Board of Supervisors (hereinafter, "Supervisors") to engage the Township Engineer (hereinafter, "Engineer") to perform a motor carrier vehicle restriction study along BCR Segment to determine the appropriateness of motor carrier vehicle use; and

WHEREAS, the Engineer issued a report, dated January 2020, a copy of which is attached hereto as **Exhibit "A"**; and

WHEREAS, the Engineer determined that the vertical and horizontal alignment along BCR Segment indicates the movement of heavy truck traffic may constitute a safety hazard due to inadequate pavement/shoulder width in conjunction with the known use by school buses; and

WHEREAS, the Engineer also determined the pavement is of inadequate structural capacity and will require excessive maintenance unless a restriction is imposed along the BCR Segment; and

WHEREAS, additionally, the Engineer determined that heavy truck braking along BCR Segment has caused rutting and washboard effect at the stop-controlled intersections; and

WHEREAS, finally, the Engineer determined that a motor carrier vehicle prohibition is justified for BCR Segment and the restriction will improve the overall safety along BCR Segment; and

WHEREAS, the Engineer recommends the installation of certain signs in connection with this prohibition; and

WHEREAS, the Vehicle Code (75 Pa.C.S.A. Section 101, *et. seq.*) at Section 4902 authorizes the Supervisors to place restrictions (with exemptions from those restrictions) on the weight or size of vehicles operated on certain roadways in accordance with the conclusions of an appropriate engineering and traffic study that roadways may be damaged or destroyed unless use by certain vehicles is prohibited; and

WHEREAS, the Pennsylvania Department of Transportation published its official Traffic Control Devices, Publication 212, (hereinafter, "Pub. 212"), under authority granted it by the Vehicle Code; and

WHEREAS, Pub. 212, at Section 212.117(b), authorizes prohibitions to be placed on the weight, kind, size or class of vehicles operated on certain roadways in accordance with the conclusions of an appropriate engineering and traffic study of the roadway; and

WHEREAS, the Supervisors find, based upon **Exhibit "A,"** that restricting the class, weight and size of trucks on BCR Segment is consistent with that study, PennDOT warrants, site conditions and the public health, safety and general welfare.

IT IS HEREBY ENACTED AND ORDAINED by the Board of Supervisors of Upper Saucon Township, Lehigh County, Pennsylvania, as follows:

B. SUBSTANTIVE PROVISIONS.

Section 1: Definitions

Except where the context clearly indicates to the contrary, the following words and phrases when used in this Ordinance shall have the following definitions. If any word or phrase used in this Ordinance is not defined herein, but is defined in Section 102 of the Vehicle Code (75 Pa.C.S.A. §102), as amended, such word or phrase shall have the same meaning as ascribed therein.

Construction Trucks

A three or four axle truck engaged in construction operations.

Motor Carrier Vehicle

(1) A truck, truck tractor or combination having a gross vehicle weight rating, gross combination weight rating, registered gross weight, registered combination weight or actual gross weight of 17,001 pounds or more.

(2) A truck, truck tractor or combination engaged in interstate commerce and having a gross vehicle weight rating, gross combination weight rating, registered gross weight, registered combination weight or actual gross weight of 10,001 pounds or more.

Section 2: Restrictions on Vehicle Size

On the one (1) mile segment of Blue Church Road South traversing from Beverly Hills Road (SR 2040) to Mill Road (SR 2024), and by authority granted by Section 4902 of the Vehicle Code, it shall be unlawful for any person to operate any vehicle meeting the definition of Construction Trucks or Motor Carrier Vehicle, as defined in Section 1 above.

Section 3: Exclusions from Prohibition

The following vehicles shall be exempt from the restrictions imposed by this Ordinance:

1. School buses,
2. Emergency vehicles,
3. Vehicles making local deliveries or pickups or providing local services, and
4. Vehicles engaged in local travel.

Section 4: Notice of Restrictions

Appropriate signs shall be erected and maintained to provide notice of the restrictions in the following manner: (1) within 25 feet of the Blue Church Road South intersection with Mill Road (SR 2024) and (2) within 25 feet of the Blue Church Road South intersection with Beverly Hills Road (SR 2040) to restrict truck traffic except for local deliveries. Signage type and size shall be in accordance with **Exhibit A**.

Section 5: Violations and Penalties

Any person convicted of a violation of a provision of this Ordinance, or any supplement or amendment hereto, shall be liable to pay a penalty as set forth in the Vehicle Code (75 Pa. C.S.A. §101 *et. seq.*) and costs of prosecution, and in those instances where the Vehicle Code fails to specify a penalty, such person shall be liable to pay a penalty of not less than \$25.00 nor more than \$50.00 and costs of prosecution and in default of payment of any such fine and costs, shall be subject to imprisonment of not more than five (5) days.

Section 6: Effective Date

This Ordinance shall become effective five (5) days after passage.

ENACTED AND ORDAINED this 8th day of February, 2021, by the Board of Supervisors of the Township of Upper Saucon, Lehigh County, Pennsylvania, in lawful session duly assembled.

**UPPER SAUCON TOWNSHIP
BOARD OF SUPERVISORS**

Brian Farrell
Chairman

Phil Anant
Vice Chairman

[Signature]
Supervisor

John Wojanex
Supervisor

[Signature]
Supervisor

ATTEST:

[Signature]
Secretary

Exhibit A

**BLUE CHURCH ROAD SOUTH (T-406)
TRUCK RESTRICTION STUDY**

**UPPER SAUCON TOWNSHIP
LEHIGH COUNTY, PENNSYLVANIA**

January 2020

Prepared for:

**Upper Saucon Township
Board of Supervisors
5500 Camp Meeting Road
Center Valley, PA 18034**

Prepared by:



HanoverEngineering

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Hanover Project US16-45

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INTRODUCTION

At the request of Upper Saucon Township, Hanover Engineering Associates, Inc. has completed a Truck Restriction Study along Blue Church Road South (T-406), between Mill Road (SR 2024, to the north) and Beverly Hills Road (SR 2040, to the south) in Upper Saucon Township, Lehigh County. The purpose of this analysis is to determine the appropriateness of truck use along this roadway segment due to recent residents' concerns of excessive truck volumes.

A truck traffic restriction should be considered where either the existing roadway conditions and/or the existing traffic conditions are poorly suited for trucks, or truck traffic is incompatible with adjacent land uses. This study was prepared in accordance with Pennsylvania Department of Transportation (PennDOT) Publication 212, *Official Traffic Control Devices*, Subchapter B, Section 212.117. As part of this report, a review of existing traffic conditions, roadway geometrics, and alternative routes were performed for Blue Church Road South to determine if trucks should be prohibited for the protection and safety of the public. Applicable references and supporting data are provided at the end of this report.

EXISTING ROADWAY NETWORK

The roadway network within the study area was reviewed to determine the existing roadway characteristics. A summary of these roadways are shown in **Table 1** below. A project location map can be found in **Appendix A**.

TABLE 1
EXISTING STUDY AREA ROADWAY CHARACTERISTICS

Road Name	Study Limits	Length	ADT Volumes	No. of Lanes	Width	Speed Limit
Blue Church Road South (T-406)	Mill Road (SR 2024) to Beverly Hills Road (SR 2040)	1.0 Miles	2,734-3,722 ¹ (Bi-directional)	2	22'-24'	35 MPH

¹Per Automatic Traffic Recorder (ATR) count data

Land Use Context

The Smart Transportation Guidebook, dated March 2008, was referenced in determining the land use context of the surround areas. Based upon a review of this information contained in Chapter 4, the Blue Church Road South and the surrounding area appears to be best described as a Suburban Neighborhood as outlined below:

Suburban Neighborhood, "Predominantly low-density residential communities, many built since WWII. House lots are typically arranged along a curvilinear internal system of streets with limited connections to regional road network or surrounding streets."

Roadway Typology

The Smart Transportation Guidebook provides additional guidance to further define the roadway contexts for the given area. Using Table 5.1 presented in Chapter 5 of the Smart Transportation Guidebook, the study area roadways can be classified as the following:

Local Road, roadways with a desired operating speed between 20 mph and 30 mph, daily traffic volumes of <3,000 vehicles per day and intersection spacing between 200-660 ft.

- Blue Church Road South (T-406)

Pedestrian/Bike Facilities

Based upon field observations of the study area roadway, there are no existing pedestrian or bicycle facilities present along the roadway.

BACKGROUND

There is concern that an excessive amount of trucks traveling through the Township will utilize Blue Church Road South, a local Township owned and maintained roadway, to avoid traveling along the State owned and maintained truck routes through Upper Saucon Township, Lehigh County. Blue Church Road South is not designed or intended to accommodate such truck traffic, and this route requires truck traffic to proceed through residential areas with narrow cartway widths and relatively steep slopes.

Blue Church Road South (T-406) is a Township owned and maintained facility acting as a north-south collector route traversing from Beverly Hills Road (SR 2040) to Mill Road (SR 2024). The remaining portions of Blue Church Road throughout the Township are state-owned.

Blue Church Road South primarily carries local motorists from local neighborhoods to the state owned and maintained regional roadways. The concern arises from the increased traffic using this route as a cut-through to the State owned and maintained facilities throughout the Township. Of particular concern is increased truck traffic deteriorating the roadway and compromising public safety.

EXISTING TRAFFIC CONDITIONS

Regarding traffic conditions, the grounds for a truck restriction under state law and regulation must meet the following criteria:

PennDOT Publication 212, Section 212.117(d) *Traffic on a highway or bridge may be prohibited or restricted by weight or size of vehicle, or kinds or classes of vehicles when, an engineering evaluation of the horizontal and vertical alignment, prevailing traffic speeds, compatibility of the various types of traffic, history of vehicle crashes or vehicular characteristics, indicates that the movement of certain vehicles constitutes a safety hazard. Restrictions may include weight; height, width or length of vehicles or their loads; types of cargo; speed or gearing; stopping requirements; specified travel lanes; and hours of operation.*

Regarding highway conditions, the following criteria must be met for a truck restriction under state law and regulation:

PennDOT Publication 212 Section 212.117(b) *Traffic on a highway may be prohibited or restricted by weight of vehicle, or kinds or classes of vehicles when warranted by an engineering evaluation. Engineering evaluation may be based on structural analysis, testing engineering judgment or a combination thereof. A restriction is warranted when one or more of the following conditions are present:*

- (1) *The highway pavement or shoulder have inadequate structural capacity or have been weakened due to deterioration, high traffic volumes or climatic condition, and may be seriously damaged unless a restriction is imposed.*
- (2) *An engineering evaluation of previous similar climatic condition on the highway or on similar highways indicates that vehicles over a certain weight should have been prohibited.*

PennDOT Publication 212 Section 212.117(c)(2) *A highway has inadequate turning radii, horizontal width or creates concerns for vehicles with low ground clearance at one or more locations.*

Our analysis of the existing traffic conditions includes an evaluation of roadway geometry, existing roadway characteristics, traffic volumes, speed, vehicle classification and compatibility with adjacent land uses.

Automatic Traffic Recorder (ATR) counts were conducted for each direction of Blue Church Road South on a 24-hour basis between Friday, October 7, 2016 and Tuesday, October 18, 2016. Data for volume, speed and vehicle classification was recorded during the counts. A summary of the total weekday and peak hour volumes are shown in **Table 2**. Automatic Traffic Recorder (ATR) count sheets are provided in **Appendix B**.

**TABLE 2
WEEKDAY TRAFFIC VOLUMES**

Intersection	Max Daily Approach Volume	Maximum Hourly Volume
Northern Blue Church Road (T-406)	3,722 Vehicles	AM: 441 vehicles PM: 516 vehicles
Southern Blue Church Road (T-406)	2,734 Vehicles	AM: 290 vehicles PM: 395 vehicles

GEOMETRIC REVIEW

Blue Church Road South is a bituminous roadway, approximately twenty-two feet (22') wide with eleven foot (11') wide travel lanes delineated by a double yellow center line. Shoulder areas are unimproved with a one foot (1') paved drainage swale and clearance to roadside features ranging from zero (0) to four (4) feet. The horizontal and vertical alignment of Blue Church Road South is relatively straight with several vertical grade changes varying from 0% to 8%. Sight distance generally appears to be adequate along the roadway segment.

ADJACENT LAND USES

In this area of Upper Saucon Township, the land adjacent to Blue Church Road South is primarily residential. While these land uses do not initially appear to create traffic concerns, the combination of truck and vehicular traffic raises safety concerns along a roadway of minimal width and no shoulders. These conditions are not desirable for a combination of trucks, passenger vehicles, and known use by school buses; therefore, the use of this roadway by trucks traversing throughout the Township is not recommended.

ALTERNATIVE ROUTES

An alternative truck route is not required to be designated as this portion of Blue Church Road South is not a numbered traffic route or state-designated highway. Likewise, truck traffic can continue to utilize other state-owned and maintained roadways to provide truck access throughout the Township.

SPEED STUDY ANALYSIS

A speed study was conducted along Blue Church Road South (T-406) utilizing Automatic Traffic Recorders (ATR's). The results of this speed study are summarized in **Table 3**.

**TABLE 3
85TH PERCENTILE SPEED SUMMARY**

Roadway	Posted Speed	Mean Average Speed	85 th Percentile Speed
Blue Church Road South (Northern Limits)	35 MPH	30 MPH	34 MPH
Blue Church Road South (Southern Limits)	35 MPH	32 MPH	36 MPH

As shown in **Table 3**, the 85th percentile speed along Blue Church Road South is within 1 MPH of the posted speed. PennDOT recommends that the posted speed limit be within 5 mph of the 85th percentile speed, which is validated by the data collected. The 85th percentile speed is the speed which motorists travel at or below 85 percent of the time and exceeded 15 percent of the time. Based on the data collected, the posted speed limit for Blue Church Road South is consistent with PennDOT guidelines.

VEHICLE CLASSIFICATION ANALYSIS

A vehicle classification study was conducted along Blue Church Road South (T-406) utilizing Automatic Traffic Recorders (ATR's). The results of this study are summarized in **Table 4**.

**TABLE 4
VEHICLE CLASSIFICATION SUMMARY**

Roadway	Passenger Vehicles	Trucks/Tractor Trailers
Blue Church Road South	97.3%	2.4%/0.3%

As shown in **Table 4**, approximately 2.7% vehicles are trucks, with 0.3% of the total vehicles larger than a standard local delivery truck or construction vehicle. Based upon average daily traffic (ADT) volumes and the vehicle classification distribution percentages, an average of approximately 100 trucks, including 11 tractor trailers (0.003% x 3,722), are using Blue Church Road South on a daily basis.

RECOMMENDATION AND CONCLUSIONS

In accordance with Pennsylvania Department of Transportation (PennDOT) Publication

212, *Official Traffic Control Devices*, Subchapter B, Section 212.117 a truck prohibition is justified for Blue Church Road South for the following reasons:

1. An engineering evaluation of the vertical and horizontal alignment on Blue Church Road South indicates that the movement of heavy truck traffic may constitute a safety hazard due to inadequate pavement/shoulder width in conjunction with the known use by school buses.
2. Pavement appears to have inadequate structural capacity and may require excessive maintenance unless a restriction is imposed along the study area roadways. Specifically, stop-controlled intersection approaches show signs of rutting and washboard effect from heavy vehicle braking.
3. Truck traffic can continue to utilize other state-owned and maintained roadways to provide truck access throughout the Township.
4. Per PennDOT Publication 212 Section 212.117(b)(2)(e):

Appropriate signs shall be erected within 25 feet of each end of a restricted portion of a highway or bridge whenever vehicles are prohibited under subsection (a), (b), (c) or (d). In the case of a restriction on a highway or bridge which does not begin or end at an intersection with an unrestricted highway, an advance information sign shall also be erected at the intersection nearest each end of the restricted highway or bridge to allow drivers to avoid the restricted highway or bridge.

If approved by the Upper Saucon Township Board of Supervisors, signs must be placed: 1) within 25 feet of the Blue Church Road South intersection with Mill Road (SR 2024) and 2) within 25 feet of the Blue Church Road South intersection with Beverly Hills Road (SR 2040) to restrict truck traffic except for local deliveries.

We recommend that signage, R5-2 “No Truck” and R5-2-3 “Except Local Deliveries”, be installed at the intersections referenced above. A map is attached with the location and signage type. The signs should be installed outside the right-of-way of the State roads and should be clearly visible to traffic prior to entering the restricted street. All signs shall be supplied by a PennDOT approved supplier and installed in accordance with PennDOT regulations and guidelines.

The implementation of these recommendations should adequately discourage truck traffic from Blue Church Road South to improve the overall safety along the roadway.

Blue Church Road South (T-406) Truck Restriction Study
Upper Saucon Township, Lehigh County

APPENDICES

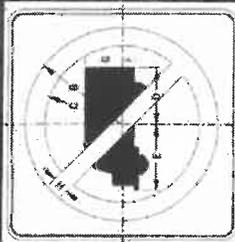
Blue Church Road South (T-406) Truck Restriction Study
Upper Saucon Township, Lehigh County

APPENDIX A

Study Area Location Map

Blue Church Road S.

Truck Restriction Study



**EXCEPT
LOCAL
DELIVERIES**

Proposed Signs (TYP)

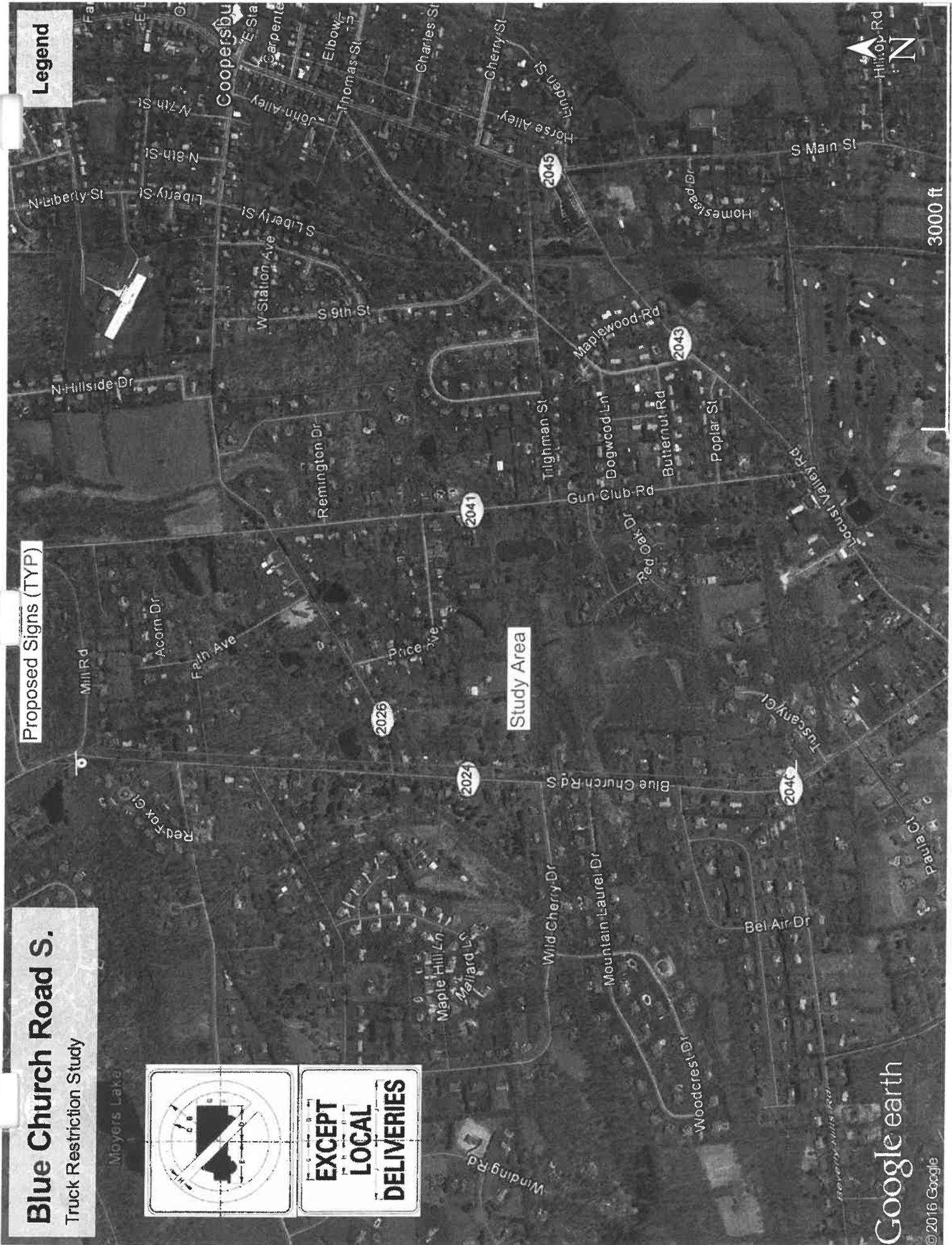
Legend

Study Area

Google earth

© 2016 Google

3000 ft



Blue Church Road South (T-406) Truck Restriction Study
Upper Saucon Township, Lehigh County

APPENDIX B

Automatic Traffic Recorder (ATR) Printouts

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Northern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Southbound, Northbound

Start Time	Motor	Cars Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Doubl	5 Axle Doubl	>6 Axl Doubl	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Bicycl	Not Class	Total
10/07/1																
6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	2	295	31	1	8	1	0	1	0	0	0	0	0	0	2	341
16:00	3	361	31	0	10	0	0	0	0	0	0	0	0	0	9	414
17:00	4	376	48	0	3	0	0	1	0	0	0	0	0	0	5	437
18:00	1	293	30	0	2	0	0	0	0	0	0	0	0	0	7	333
19:00	1	168	18	0	0	0	0	0	0	0	0	0	0	0	0	187
20:00	2	121	16	0	0	0	0	0	0	0	0	0	0	1	1	141
21:00	0	81	7	0	0	0	0	0	0	0	0	0	0	0	0	88
22:00	0	85	3	0	0	0	0	0	0	0	0	0	0	0	0	88
23:00	0	51	4	0	0	0	0	0	0	0	0	0	0	0	1	56
Total	13	1831	188	1	23	1	0	2	0	0	0	0	0	1	25	2085
Percent	0.6%	87.8%	9.0%	0.0%	1.1%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2%	

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Southbound, Northbound

Start Time	Motor	Cars Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Doubl	5 Axle Doubl	>6 Axl Doubl	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Bicycl	Not Class	Total
10/08/1																
6	0	26	3	0	0	0	0	0	0	0	0	0	0	0	0	29
01:00	0	16	1	0	0	0	0	0	0	0	0	0	0	0	0	17
02:00	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
03:00	0	8	0	0	0	0	0	0	0	0	0	0	0	0	1	9
04:00	0	9	4	0	0	0	0	0	0	0	0	0	0	0	0	13
05:00	0	17	3	0	1	0	0	0	0	0	0	0	0	0	0	21
06:00	0	51	5	0	0	0	0	0	0	0	0	0	0	1	2	59
07:00	0	66	13	0	0	0	0	0	0	0	0	0	0	0	3	82
08:00	0	119	23	0	1	0	0	2	0	0	0	0	0	0	2	147
09:00	1	153	22	2	6	0	0	0	0	0	0	0	0	1	6	191
10:00	0	213	28	0	6	0	0	0	0	0	0	0	0	0	3	250
11:00	0	201	25	0	2	0	0	0	0	0	0	0	0	0	1	229
12 PM	1	228	20	0	1	0	0	0	0	0	0	0	0	0	2	252
13:00	1	189	28	0	3	0	0	0	0	0	0	0	0	0	6	227
14:00	1	176	9	0	2	0	0	1	0	0	0	0	0	0	1	190
15:00	1	214	23	0	2	0	0	0	0	0	0	0	0	0	2	242
16:00	1	205	20	1	2	0	0	0	0	0	0	0	0	0	4	233
17:00	0	183	11	0	0	0	0	0	0	0	0	0	0	0	4	198
18:00	1	184	13	1	5	0	0	0	0	0	0	0	0	0	2	206
19:00	0	133	14	0	1	0	0	0	0	0	0	0	0	0	1	149
20:00	0	98	15	0	0	0	0	1	0	0	0	0	0	0	1	115
21:00	0	101	4	0	0	0	0	0	0	0	0	0	0	0	2	107
22:00	0	87	10	0	0	0	0	0	0	0	0	0	0	0	0	97
23:00	0	60	2	0	0	0	0	0	0	0	0	0	0	0	0	62
Total	7	2747	296	4	32	0	0	4	0	0	0	0	0	2	43	3135
Percent	0.2%	87.6%	9.4%	0.1%	1.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	1.4%	

Hanover Engineering
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Start Time	Motor	Cars Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Doubl	5 Axle Doubl	>6 Axl Doubl	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Bicycl	Not Class	Total
10/09/1																
6	0	30	1	0	0	0	0	0	0	0	0	0	0	0	0	31
01:00	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
02:00	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
03:00	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	11
04:00	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
05:00	0	7	1	0	0	0	0	0	0	0	0	0	0	0	0	8
06:00	0	31	1	0	0	0	0	0	0	0	0	0	0	0	0	32
07:00	0	46	11	0	1	0	0	0	0	0	0	0	0	0	0	58
08:00	0	86	9	0	1	0	0	0	0	0	0	0	0	0	1	97
09:00	0	128	18	0	0	0	0	1	0	0	0	0	0	0	2	149
10:00	1	142	14	0	1	0	0	0	0	0	0	0	0	0	3	161
11:00	0	212	21	0	1	0	0	1	0	0	0	0	0	0	2	237
12 PM	1	235	24	0	0	0	0	0	0	0	0	0	0	0	4	264
13:00	0	184	20	0	0	0	0	0	0	0	0	0	0	0	1	205
14:00	0	214	15	0	2	0	0	0	0	0	0	0	0	0	2	233
15:00	4	190	13	0	1	0	0	0	0	0	0	0	0	0	1	209
16:00	0	199	16	0	1	0	0	2	0	0	0	0	0	0	0	218
17:00	1	165	22	0	2	0	0	0	0	0	0	0	0	0	4	194
18:00	1	181	12	0	0	0	0	0	0	0	0	0	0	0	2	196
19:00	0	102	13	0	1	0	0	0	0	0	0	0	0	0	0	116
20:00	0	94	9	0	0	0	0	1	0	0	0	0	0	0	2	106
21:00	0	50	2	0	0	0	0	0	0	0	0	0	0	0	0	52
22:00	0	43	3	0	0	0	0	0	0	0	0	0	0	0	1	47
23:00	0	29	1	0	0	0	0	0	0	0	0	0	0	0	0	30
Total	8	2406	226	0	11	0	0	5	0	0	0	0	0	0	25	2681
Percent	0.3%	89.7%	8.4%	0.0%	0.4%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9%	

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Northern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Southbound, Northbound

Start Time	Motor	Cars Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Doubl	5 Axle Doubl	>6 Axl Doubl	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Bicycl	Not Class	Total
10/10/1																
6	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	20
01:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
02:00	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
03:00	0	9	1	0	0	0	0	0	0	0	0	0	0	0	1	11
04:00	0	6	3	0	0	0	0	0	0	0	0	0	0	0	0	9
05:00	0	32	6	0	2	0	0	0	0	0	0	0	0	0	0	40
06:00	0	141	23	0	2	0	0	1	0	0	0	0	0	0	4	171
07:00	0	255	27	0	10	2	0	1	0	0	0	0	0	1	6	302
08:00	0	196	31	1	6	1	0	0	0	0	0	0	0	0	5	240
09:00	0	148	21	0	2	0	0	1	0	0	0	0	0	0	2	174
10:00	0	131	21	0	6	2	0	1	0	0	0	0	0	0	6	167
11:00	1	167	25	1	2	1	0	0	0	0	0	0	0	0	0	197
12 PM	2	165	25	0	1	1	1	2	0	0	0	0	0	0	6	203
13:00	2	181	38	0	5	0	0	2	0	0	0	0	0	2	5	235
14:00	1	226	28	1	4	3	0	0	1	0	0	0	0	1	2	267
15:00	2	278	45	1	6	0	0	0	0	0	0	0	0	0	7	339
16:00	0	341	39	0	6	0	0	0	0	0	0	0	0	0	11	397
17:00	2	372	42	0	1	0	0	2	0	0	0	0	0	1	2	422
18:00	1	266	23	0	3	0	0	0	1	0	0	0	0	0	3	297
19:00	1	164	14	0	2	0	0	1	0	0	0	0	0	0	1	183
20:00	0	115	12	0	2	0	0	0	0	0	0	0	0	0	1	130
21:00	0	71	5	0	0	0	0	0	0	0	0	0	0	0	1	77
22:00	0	36	3	0	1	0	0	0	0	0	0	0	0	0	0	40
23:00	0	21	2	0	2	0	0	0	0	0	0	0	0	0	0	25
Total	12	3349	434	4	63	10	1	11	2	0	0	0	0	5	63	3954
Percent	0.3%	84.7%	11.0%	0.1%	1.6%	0.3%	0.0%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%	1.6%	

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Northern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Southbound, Northbound

Start Time	Motor	Cars Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Doubl	5 Axle Doubl	>6 Axl Doubl	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Bicycl	Not Class	Total
10/11/1																
6	0	10	1	0	0	0	0	0	0	0	0	0	0	0	0	11
01:00	0	7	3	0	0	0	0	0	0	0	0	0	0	0	0	10
02:00	0	7	0	0	1	0	0	0	0	0	0	0	0	0	0	8
03:00	0	11	0	0	0	1	0	0	0	0	0	0	0	0	0	12
04:00	0	9	1	0	0	0	0	0	0	0	0	0	0	0	0	10
05:00	0	40	10	0	1	0	0	0	0	0	0	0	0	0	0	51
06:00	1	158	18	1	1	0	0	1	0	0	0	0	0	0	1	181
07:00	0	361	48	10	5	0	0	1	0	0	0	0	0	1	12	438
08:00	1	224	50	5	9	2	0	1	0	0	0	0	0	0	5	297
09:00	0	163	19	0	5	1	1	1	0	0	0	0	0	0	7	197
10:00	0	113	18	0	5	3	0	1	0	0	0	0	0	0	3	143
11:00	0	138	27	1	5	3	0	1	0	0	0	0	0	0	2	177
12 PM	0	154	31	1	0	1	0	1	0	0	0	0	0	1	4	193
13:00	1	154	29	0	8	0	0	0	0	0	0	0	0	0	0	192
14:00	0	224	24	4	6	2	0	0	0	0	0	0	0	0	5	265
15:00	0	272	48	5	4	1	0	1	0	0	0	0	0	1	4	336
16:00	0	363	55	4	3	1	0	1	0	0	0	0	0	0	9	436
17:00	1	438	43	0	2	0	0	1	0	0	0	0	0	0	6	491
18:00	0	306	34	0	2	0	0	0	0	0	0	0	0	0	6	348
19:00	1	180	10	0	1	0	0	1	0	0	0	0	0	0	7	200
20:00	0	111	10	1	0	0	0	0	0	0	0	0	0	0	2	124
21:00	0	88	3	0	2	0	0	0	0	0	0	0	0	0	0	93
22:00	0	39	1	0	0	0	0	0	0	0	0	0	0	0	0	40
23:00	0	11	1	0	0	0	0	0	0	0	0	0	0	0	0	12
Total	5	3581	484	32	60	15	1	11	0	0	0	0	0	3	73	4265
Percent	0.1%	84.0%	11.3%	0.8%	1.4%	0.4%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	1.7%	

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Northern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Southbound, Northbound

Start Time	Motor	Cars Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Doubl	5 Axle Doubl	>6 Axl Doubl	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Bicycl	Not Class	Total
10/12/1																
6	0	13	2	0	0	0	0	0	0	0	0	0	0	0	0	15
01:00	0	6	1	0	0	0	0	0	0	0	0	0	0	0	0	7
02:00	0	5	1	0	0	0	0	0	0	0	0	0	0	0	0	6
03:00	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
04:00	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	14
05:00	0	38	6	0	2	1	0	0	0	0	0	0	0	0	0	47
06:00	0	160	12	1	4	1	0	0	0	0	0	0	0	0	1	179
07:00	1	363	51	11	5	0	0	1	0	0	0	0	0	0	9	441
08:00	1	248	41	7	7	0	0	1	0	0	0	0	0	1	11	317
09:00	1	136	24	0	5	0	0	0	0	0	0	0	0	0	3	169
10:00	0	120	21	1	2	0	0	1	1	0	0	0	0	0	3	149
11:00	0	133	21	1	4	1	0	0	0	0	0	0	0	0	3	163
12 PM	0	138	41	2	4	0	0	0	0	0	0	0	0	0	4	189
13:00	0	148	26	0	5	0	0	0	0	0	0	0	0	1	0	180
14:00	0	176	37	4	5	1	0	0	0	0	0	0	0	0	1	224
15:00	0	278	38	5	7	0	0	0	1	0	0	0	0	0	8	337
16:00	0	343	39	4	7	0	0	0	0	0	0	0	0	0	9	402
17:00	2	424	46	1	2	0	0	0	0	0	0	0	0	2	12	489
18:00	1	297	26	0	3	0	0	0	0	0	0	0	0	0	1	328
19:00	0	155	9	1	0	0	0	0	0	0	0	0	0	0	0	165
20:00	1	140	10	0	1	0	0	1	0	0	0	0	0	0	2	155
21:00	0	72	1	0	2	0	0	0	0	0	0	0	0	0	1	76
22:00	0	46	3	0	1	0	0	0	0	0	0	0	0	0	0	50
23:00	0	16	3	0	0	0	0	0	0	0	0	0	0	0	0	19
Total	7	3478	459	38	66	4	0	4	2	0	0	0	0	4	68	4130
Percent	0.2%	84.2%	11.1%	0.9%	1.6%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	1.6%	

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Northern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Southbound, Northbound

Start Time	Motor	Cars Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Doubl	5 Axle Doubl	>6 Axl Doubl	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Bicycl	Not Class	Total
10/13/1																
6	0	16	1	0	0	0	0	0	0	0	0	0	0	0	1	18
01:00	0	4	0	0	1	0	0	0	0	0	0	0	0	0	0	5
02:00	0	7	2	0	0	0	0	0	0	0	0	0	0	0	0	9
03:00	0	8	1	0	0	1	0	0	0	0	0	0	0	0	0	10
04:00	0	12	1	0	1	0	0	0	0	0	0	0	0	0	0	14
05:00	0	44	8	0	2	1	0	0	0	0	0	0	0	0	0	55
06:00	0	150	20	1	2	0	0	0	0	0	0	0	0	0	0	173
07:00	0	343	33	10	6	3	0	0	0	0	0	0	0	0	10	405
08:00	0	226	31	4	6	1	0	0	0	0	0	0	0	0	8	276
09:00	3	148	19	0	4	0	0	0	0	0	0	0	0	0	0	174
10:00	0	122	25	0	3	1	1	0	0	0	0	0	0	0	2	154
11:00	0	116	23	1	5	0	0	0	0	0	0	0	0	1	2	148
12 PM	1	138	21	1	5	1	0	0	0	0	0	0	0	0	2	169
13:00	0	115	27	0	3	0	0	0	0	0	0	0	0	0	0	145
14:00	0	201	36	5	5	0	0	1	0	0	0	0	0	1	5	254
15:00	0	285	49	7	5	0	0	1	0	0	0	0	0	1	8	356
16:00	0	377	36	2	4	1	0	1	1	0	0	0	0	0	5	427
17:00	0	433	46	0	1	0	0	2	0	0	0	0	0	1	11	494
18:00	0	240	33	0	0	0	0	1	0	0	0	0	0	0	10	284
19:00	0	152	11	0	1	0	0	0	0	0	0	0	0	0	0	164
20:00	1	130	14	0	0	0	0	1	0	0	0	0	0	0	0	146
21:00	1	70	3	0	0	0	0	0	0	0	0	0	0	0	2	76
22:00	0	38	2	0	0	0	0	0	0	0	0	0	0	0	0	40
23:00	0	21	1	0	0	0	0	0	0	0	0	0	0	0	0	22
Total	6	3396	443	31	54	9	1	7	1	0	0	0	0	4	66	4018
Percent	0.1%	84.5%	11.0%	0.8%	1.3%	0.2%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	1.6%	

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Northern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Southbound, Northbound

Start Time	Motor	Cars Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Doubl	5 Axle Doubl	>6 Axl Doubl	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Bicycl	Not Class	Total
10/14/1																
6	0	11	2	0	0	0	0	0	0	0	0	0	0	0	0	13
01:00	0	5	1	0	0	0	0	0	0	0	0	0	0	0	0	6
02:00	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
03:00	0	7	0	0	0	0	0	0	0	0	0	0	0	0	1	8
04:00	0	8	1	0	0	0	0	0	0	0	0	0	0	0	0	9
05:00	0	37	10	0	1	0	0	0	0	0	0	0	0	0	1	49
06:00	0	140	18	2	3	0	0	0	0	0	0	0	0	0	1	164
07:00	1	344	47	11	2	0	1	0	0	0	0	0	0	1	6	413
08:00	1	214	39	6	6	2	0	1	1	0	0	0	0	1	10	281
09:00	0	133	26	0	2	0	0	1	0	0	0	0	0	1	2	165
10:00	0	118	24	0	3	1	0	0	1	0	0	0	0	0	0	147
11:00	0	133	15	1	1	0	0	1	1	0	0	0	0	0	3	155
12 PM	0	154	21	1	3	2	1	0	0	0	0	0	0	0	4	186
13:00	0	170	25	1	3	2	0	0	1	0	0	0	0	0	3	205
14:00	0	206	34	4	2	1	0	0	1	0	0	0	0	3	9	260
15:00	0	288	45	3	6	1	0	0	0	0	0	0	0	0	7	350
16:00	3	349	32	4	4	0	0	0	0	0	0	0	0	0	10	402
17:00	4	461	32	0	4	0	0	0	0	0	0	0	0	0	15	516
18:00	0	324	35	0	4	1	0	0	0	0	0	0	0	1	10	375
19:00	0	193	14	0	1	0	0	0	0	0	0	0	0	0	0	208
20:00	0	142	7	0	1	0	0	0	0	0	0	0	0	0	0	150
21:00	1	110	4	0	0	0	0	0	0	0	0	0	0	0	2	117
22:00	0	90	8	0	0	0	0	0	0	0	0	0	0	0	0	98
23:00	0	32	3	0	0	0	0	0	0	0	0	0	0	0	0	35
Total	10	3675	443	33	46	10	2	3	5	0	0	0	0	7	84	4318
Percent	0.2%	85.1%	10.3%	0.8%	1.1%	0.2%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%	1.9%	

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Northern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Southbound, Northbound

Start Time	Motor	Cars Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Doubl	5 Axle Doubl	>6 Axl Doubl	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Bicycl	Not Class	Total
10/15/1																
6	0	28	1	0	0	0	0	0	0	0	0	0	0	0	0	29
01:00	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15
02:00	0	5	1	0	0	0	0	0	0	0	0	0	0	0	0	6
03:00	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
04:00	0	10	2	0	0	0	0	0	0	0	0	0	0	0	0	12
05:00	0	13	4	0	0	0	0	0	0	0	0	0	0	0	0	17
06:00	0	48	3	0	2	0	0	0	0	0	0	0	0	0	1	54
07:00	1	120	17	0	2	0	0	0	0	0	0	0	0	0	0	140
08:00	0	144	31	0	3	0	0	0	0	0	0	0	0	0	1	179
09:00	1	162	23	0	0	0	0	1	0	0	0	0	0	1	3	191
10:00	0	190	26	0	2	0	0	0	0	0	0	0	0	0	3	221
11:00	2	223	24	0	3	2	0	0	0	0	0	0	0	0	6	260
12 PM	1	266	29	0	1	0	0	0	0	0	0	0	0	0	1	298
13:00	1	209	20	0	0	1	0	0	0	0	0	0	0	0	1	232
14:00	4	204	24	0	1	0	0	0	0	0	0	0	0	0	7	240
15:00	4	254	27	0	1	0	0	0	0	0	0	0	0	0	5	291
16:00	4	244	15	0	0	0	0	0	0	0	0	0	0	0	4	267
17:00	0	215	19	0	0	0	0	0	0	0	0	0	0	0	6	240
18:00	5	210	11	0	3	0	0	0	0	0	0	0	0	0	5	234
19:00	0	163	16	0	0	0	0	0	0	0	0	0	0	0	6	185
20:00	0	115	13	0	0	0	0	0	0	0	0	0	0	0	1	129
21:00	0	124	4	0	0	0	0	0	0	0	0	0	0	0	1	129
22:00	0	108	9	0	1	0	0	0	0	0	0	0	0	0	0	118
23:00	0	43	5	0	0	0	0	0	0	0	0	0	0	0	0	48
Total	23	3120	324	0	19	3	0	1	0	0	0	0	0	1	51	3542
Percent	0.6%	88.1%	9.1%	0.0%	0.5%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%	

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Northern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Southbound Northbound

Start Time	Motor	Cars Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Doubl	5 Axle Doubl	>6 Axl Doubl	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Bicycl	Not Class	Total
10/16/1																
6	0	24	1	0	0	0	0	0	0	0	0	0	0	0	0	25
01:00	0	14	1	0	0	0	0	0	0	0	0	0	0	0	1	16
02:00	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
03:00	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
04:00	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	4
05:00	0	4	1	0	1	0	0	0	0	0	0	0	0	0	0	6
06:00	0	32	1	0	0	0	0	0	0	0	0	0	0	0	0	33
07:00	0	63	8	0	1	0	0	0	0	0	0	0	0	0	0	72
08:00	0	110	9	0	3	0	0	0	0	0	0	0	0	0	0	122
09:00	2	151	13	0	0	0	0	0	0	0	0	0	0	0	0	166
10:00	4	198	14	0	1	0	0	0	0	0	0	0	0	0	3	220
11:00	2	224	19	1	2	0	0	0	0	0	0	0	0	0	2	250
12 PM	9	254	18	1	3	0	0	0	0	0	0	0	0	0	10	295
13:00	2	249	15	0	1	0	0	1	1	0	0	0	0	0	2	271
14:00	1	256	21	0	4	0	0	1	0	0	0	0	0	0	3	296
15:00	7	238	16	0	1	0	0	0	0	0	0	0	0	0	1	263
16:00	7	300	19	0	1	0	0	2	0	0	0	0	0	0	10	339
17:00	4	185	17	0	1	0	0	0	0	0	0	0	0	1	0	208
18:00	0	163	20	0	1	0	0	0	0	0	0	0	0	0	5	189
19:00	0	138	8	0	0	0	0	0	0	0	0	0	0	0	1	147
20:00	0	110	10	0	0	0	0	1	0	0	0	0	0	0	0	121
21:00	1	53	7	0	1	0	0	0	0	0	0	0	0	0	0	62
22:00	0	29	4	0	0	0	0	0	0	0	0	0	0	0	0	33
23:00	0	8	1	0	0	0	0	0	0	0	0	0	0	0	0	9
Total	39	2828	224	2	21	0	0	5	1	0	0	0	0	1	38	3159
Percent	1.2%	89.5%	7.1%	0.1%	0.7%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2%	

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Northern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Southbound, Northbound

Start Time	Motor	Cars Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Doubl	5 Axle Doubl	>6 Axl Doubl	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Bicycl	Not Class	Total
10/17/1																
6	0	12	1	0	0	0	0	0	0	0	0	0	0	0	0	13
01:00	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	4
02:00	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
03:00	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
04:00	0	11	2	0	0	0	0	0	0	0	0	0	0	0	0	13
05:00	0	36	4	1	1	0	0	0	0	0	0	0	0	0	1	43
06:00	0	168	17	1	4	0	0	0	0	0	0	0	0	0	1	191
07:00	2	324	48	9	6	0	0	0	0	0	0	0	0	0	11	400
08:00	1	218	44	7	7	0	0	0	0	0	0	0	0	0	5	282
09:00	1	162	33	0	6	0	0	2	0	0	0	0	0	0	8	212
10:00	0	110	23	0	5	0	0	2	0	0	0	0	0	1	1	142
11:00	3	128	17	1	4	2	0	0	0	0	0	0	0	0	7	162
12 PM	2	151	21	0	5	1	0	1	0	0	0	0	0	0	1	182
13:00	2	149	19	0	4	0	0	0	1	0	0	0	0	0	2	177
14:00	4	189	25	4	3	0	0	2	0	0	0	0	0	0	1	228
15:00	1	261	44	6	3	0	0	0	0	0	0	0	0	0	4	319
16:00	1	407	43	5	2	1	0	1	0	0	0	0	0	0	7	467
17:00	6	417	47	0	3	0	0	1	0	0	0	0	0	0	13	487
18:00	1	256	22	0	2	0	0	0	0	0	0	0	0	0	3	284
19:00	0	156	16	0	0	0	0	0	0	0	0	0	0	0	3	175
20:00	0	76	10	0	1	0	0	0	0	0	0	0	0	0	0	87
21:00	0	68	9	0	2	0	0	0	0	0	0	0	0	0	2	81
22:00	0	40	2	0	0	0	0	0	0	0	0	0	0	0	0	42
23:00	0	10	2	0	0	0	0	0	0	0	0	0	0	0	0	12
Total	24	3366	450	34	58	4	0	9	1	0	0	0	0	1	70	4017
Percent	0.6%	83.8%	11.2%	0.8%	1.4%	0.1%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.7%	

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Northern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Southbound, Northbound

Start Time	Motor	Cars Trailer	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Doubl	5 Axle Doubl	>6 Axl Doubl	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Bicycl	Not Class	Total
10/18/1																
6	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
01:00	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	5
02:00	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
03:00	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
04:00	0	15	2	0	1	0	0	0	0	0	0	0	0	0	0	18
05:00	0	42	9	0	1	0	0	0	0	0	0	0	0	0	1	53
06:00	0	164	22	2	3	0	0	0	0	0	0	0	0	0	1	192
07:00	1	342	51	10	4	0	0	2	0	0	0	0	0	0	7	417
08:00	0	255	36	8	7	1	0	0	0	0	0	0	0	0	3	310
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	1	846	121	20	16	1	0	2	0	0	0	0	0	0	12	1019
Percent	0.1%	83.0%	11.9%	2.0%	1.6%	0.1%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2%	
Total	155	34623	4092	199	469	57	5	64	12	0	0	0	0	29	618	40323
Percent	0.4%	85.9%	10.1%	0.5%	1.2%	0.1%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	1.5%	

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Northern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace Speed	Number in Pace
10/07/16	15	20	25	30	35	40	45	50	55	60	65	70	75	999	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	3	1	26	125	141	42	1	2	0	0	0	0	0	341	26-35	266
16:00	10	2	42	160	162	36	2	0	0	0	0	0	0	414	26-35	322
17:00	5	0	31	180	180	38	2	0	0	1	0	0	0	437	26-35	360
18:00	7	1	29	145	134	16	1	0	0	0	0	0	0	333	26-35	279
19:00	1	1	17	71	76	19	2	0	0	0	0	0	0	187	26-35	147
20:00	1	2	12	59	44	14	9	0	0	0	0	0	0	141	26-35	103
21:00	1	0	7	37	24	18	0	1	0	0	0	0	0	88	26-35	61
22:00	1	1	7	31	41	6	1	0	0	0	0	0	0	88	26-35	72
23:00	1	3	9	16	20	4	2	1	0	0	0	0	0	56	26-35	36
Total	30	11	180	824	822	193	20	4	0	1	0	0	0	2085		
Percent	1.4%	0.5%	8.6%	39.5%	39.4%	9.3%	1.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak																
Vol.																
PM Peak	16:00	23:00	16:00	17:00	17:00	15:00	20:00	15:00	17:00	17:00	17:00	17:00	17:00	17:00		
Vol.	10	3	42	180	180	42	9	2	1	1	1	1	1	437		

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Northern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Southbound_Northbound	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Pace	Number	
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Speed	in Pace	
10/08/16	0	0	3	9	8	8	0	1	0	0	0	0	0	0	29	26-35	17
01:00	0	1	1	5	5	4	1	0	0	0	0	0	0	0	17	26-35	10
02:00	0	0	1	1	6	1	1	0	0	0	0	0	0	0	10	31-40	7
03:00	2	1	1	2	1	1	1	0	0	0	0	0	0	0	9	26-35	3
04:00	0	0	0	4	5	4	0	0	0	0	0	0	0	0	13	26-35	9
05:00	0	0	0	7	11	2	1	0	0	0	0	0	0	0	21	26-35	18
06:00	4	1	4	15	23	9	3	0	0	0	0	0	0	0	59	26-35	38
07:00	4	1	6	31	29	11	0	0	0	0	0	0	0	0	82	26-35	60
08:00	2	1	7	54	59	20	3	1	0	0	0	0	0	0	147	26-35	113
09:00	6	5	18	84	67	10	1	0	0	0	0	0	0	0	191	26-35	151
10:00	4	1	21	99	93	29	2	0	1	0	0	0	0	0	250	26-35	192
11:00	2	3	25	99	80	20	0	0	0	0	0	0	0	0	229	26-35	179
12 PM	2	1	21	127	85	16	0	0	0	0	0	0	0	0	252	26-35	212
13:00	7	7	22	85	86	20	0	0	0	0	0	0	0	0	227	26-35	171
14:00	2	6	29	77	66	9	1	0	0	0	0	0	0	0	190	26-35	143
15:00	6	3	33	98	92	9	1	0	0	0	0	0	0	0	242	26-35	190
16:00	4	4	18	104	85	18	0	0	0	0	0	0	0	0	233	26-35	189
17:00	4	6	13	83	77	14	0	1	0	0	0	0	0	0	198	26-35	160
18:00	2	0	17	71	90	24	1	1	0	0	0	0	0	0	206	26-35	161
19:00	1	0	15	45	70	16	1	1	0	0	0	0	0	0	149	26-35	115
20:00	1	0	14	39	46	14	1	0	0	0	0	0	0	0	115	26-35	85
21:00	2	2	7	39	39	11	6	1	0	0	0	0	0	0	107	26-35	78
22:00	0	0	6	43	33	12	2	1	0	0	0	0	0	0	97	26-35	76
23:00	0	2	5	19	26	8	2	0	0	0	0	0	0	0	62	26-35	45
Total	55	45	287	1240	1182	290	28	7	1	0	0	0	0	0	3135		
Percent	1.8%	1.4%	9.2%	39.6%	37.7%	9.3%	0.9%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	09:00	09:00	11:00	10:00	10:00	10:00	06:00	00:00	10:00						10:00		
Vol.	6	5	25	99	93	29	3	1	1						250		
PM Peak	13:00	13:00	15:00	12:00	15:00	18:00	21:00	17:00							12:00		
Vol.	7	7	33	127	92	24	6	1							252		

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Northern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	Pace Speed	Number in Pace
10/09/16	1	1	1	8	14	6	0	0	0	0	0	0	0	0	26-35	31
01:00	0	0	0	3	2	4	0	0	0	0	0	0	0	0	29-38	9
02:00	0	0	1	0	3	1	1	0	0	0	0	0	0	0	31-40	6
03:00	0	0	2	3	2	3	0	1	0	0	0	0	0	0	28-37	11
04:00	0	0	1	2	7	2	0	0	0	0	0	0	0	0	26-35	9
05:00	0	1	1	3	3	0	0	0	0	0	0	0	0	0	26-35	8
06:00	0	0	1	11	13	5	2	0	0	0	0	0	0	0	26-35	32
07:00	1	1	5	22	21	6	2	0	0	0	0	0	0	0	26-35	58
08:00	2	0	13	42	34	4	2	0	0	0	0	0	0	0	26-35	97
09:00	2	1	14	61	54	15	2	0	0	0	0	0	0	0	26-35	149
10:00	3	0	15	64	55	24	0	0	0	0	0	0	0	0	26-35	161
11:00	3	0	16	111	88	18	0	0	0	0	0	0	0	0	26-35	237
12 PM	4	2	21	109	106	20	1	0	0	0	0	0	0	0	26-35	264
13:00	1	1	13	77	89	23	1	0	0	0	0	0	0	0	26-35	215
14:00	4	2	13	94	95	23	2	0	0	0	0	0	0	0	26-35	205
15:00	2	0	11	77	97	19	3	0	0	0	0	0	0	0	26-35	233
16:00	1	2	16	77	99	21	0	0	0	0	0	0	0	0	26-35	209
17:00	4	1	14	74	82	18	1	0	0	0	0	0	0	0	26-35	218
18:00	2	3	11	79	89	12	0	0	0	0	0	0	0	0	26-35	194
19:00	0	0	7	53	44	11	1	0	0	0	0	0	0	0	26-35	196
20:00	1	1	4	39	42	17	2	0	0	0	0	0	0	0	26-35	116
21:00	0	0	1	21	16	13	1	0	0	0	0	0	0	0	26-35	106
22:00	1	0	2	11	25	5	2	1	0	0	0	0	0	0	26-35	52
23:00	0	0	0	9	16	4	1	0	0	0	0	0	0	0	26-35	47
Total	32	16	183	1050	1096	274	28	2	0	0	0	0	0	0	26-35	30
Percent	1.2%	0.6%	6.8%	39.2%	40.9%	10.2%	1.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	26-35	2681
AM Peak	10:00	00:00	11:00	11:00	11:00	10:00	06:00	03:00							26-35	11:00
Vol.	3	1	16	111	88	24	2	1							26-35	237
PM Peak	12:00	18:00	12:00	12:00	12:00	13:00	15:00	22:00							26-35	12:00
Vol.	4	3	21	109	106	23	3	1							26-35	264

Hanover Engineering
 252 Brodhead Road, Suite 100
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Blue Church Road S (Northern Location)

Site Code:
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Latitude: 0' 0.0000 Undefined

Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	Pace Speed	Number in Pace	
10/11/16	1	20	1	2	2	4	1	0	0	0	0	0	0	0	11	30-39	6
01:00	0	0	1	5	3	1	0	0	0	0	0	0	0	0	10	25-34	8
02:00	0	0	2	3	1	2	0	0	0	0	0	0	0	0	8	21-30	5
03:00	0	0	1	5	4	2	0	0	0	0	0	0	0	0	12	26-35	9
04:00	0	0	0	6	0	3	1	0	0	0	0	0	0	0	10	26-35	6
05:00	0	0	2	23	18	7	1	0	0	0	0	0	0	0	51	26-35	41
06:00	1	0	16	56	85	19	3	1	0	0	0	0	0	0	181	26-35	141
07:00	12	7	51	177	143	45	3	1	0	0	0	0	0	0	438	26-35	320
08:00	11	3	23	94	118	42	5	1	0	0	0	0	0	0	297	26-35	212
09:00	7	2	12	63	81	28	4	0	0	0	0	0	0	0	197	26-35	144
10:00	5	2	16	42	65	11	2	0	0	0	0	0	0	0	143	26-35	107
11:00	3	3	19	78	58	15	1	0	0	0	0	0	0	0	177	26-35	136
12 PM	4	0	13	75	81	20	0	0	0	0	0	0	0	0	193	26-35	156
13:00	1	1	13	76	84	16	1	0	0	0	0	0	0	0	192	26-35	160
14:00	10	7	26	109	92	19	2	0	265	26-35	201						
15:00	4	5	45	112	140	30	0	0	0	0	0	0	0	0	336	26-35	252
16:00	9	7	40	185	168	27	0	0	0	0	0	0	0	0	436	26-35	353
17:00	6	6	55	200	189	34	1	0	491	26-35	389						
18:00	7	2	38	128	141	32	0	0	0	0	0	0	0	0	348	26-35	269
19:00	7	1	14	80	79	15	4	0	0	0	0	0	0	0	200	26-35	159
20:00	2	1	11	38	52	15	4	1	0	0	0	0	0	0	124	26-35	90
21:00	0	0	5	35	41	9	2	1	0	0	0	0	0	0	93	26-35	76
22:00	0	0	7	10	19	2	2	0	0	0	0	0	0	0	40	26-35	29
23:00	0	0	1	2	6	3	0	0	0	0	0	0	0	0	12	29-38	9
Total	89	48	412	1604	1670	401	37	4	0	0	0	0	0	0	4265		
Percent AM Peak	2.1%	1.1%	9.7%	37.6%	39.2%	9.4%	0.9%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
Vol.	12	7	51	177	143	45	5	1							07:00		
PM Peak Vol.	14:00	14:00	17:00	17:00	17:00	17:00	19:00	20:00							17:00		
	10	7	55	200	189	34	4	1							438		
															491		

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Northern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Southbound	Northbound	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace	Number
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85		Speed	in Pace
10/12/16	0	0	1	6	4	3	1	0	0	0	0	0	0	0	0	15	26-35	10
01:00	0	0	0	1	6	0	0	0	0	0	0	0	0	0	0	7	26-35	7
02:00	0	0	0	3	2	1	0	0	0	0	0	0	0	0	0	6	26-35	5
03:00	0	1	2	2	4	4	0	0	0	0	0	0	0	0	0	9	25-34	6
04:00	0	0	2	3	5	4	0	0	0	0	0	0	0	0	0	14	29-38	9
05:00	0	1	3	19	17	6	0	1	0	0	0	0	0	0	0	47	26-35	36
06:00	1	3	18	53	81	18	4	0	1	0	0	0	0	0	0	179	26-35	134
07:00	8	3	56	168	166	36	4	0	0	0	0	0	0	0	0	441	26-35	334
08:00	11	7	33	120	122	20	4	0	0	0	0	0	0	0	0	317	26-35	242
09:00	4	2	13	67	59	22	2	0	0	0	0	0	0	0	0	169	26-35	126
10:00	3	4	18	52	56	15	1	0	0	0	0	0	0	0	0	149	26-35	108
11:00	4	1	15	66	63	13	1	0	0	0	0	0	0	0	0	163	26-35	129
12 PM	5	1	23	78	62	18	2	0	0	0	0	0	0	0	0	189	26-35	140
13:00	1	0	13	69	81	15	1	0	0	0	0	0	0	0	0	180	26-35	150
14:00	1	3	28	83	83	25	1	0	0	0	0	0	0	0	0	224	26-35	166
15:00	9	5	31	148	120	22	2	0	0	0	0	0	0	0	0	337	26-35	268
16:00	10	6	46	163	143	32	2	0	0	0	0	0	0	0	0	402	26-35	306
17:00	12	2	48	197	201	28	1	0	0	0	0	0	0	0	0	489	26-35	398
18:00	1	0	25	144	134	21	3	0	0	0	0	0	0	0	0	328	26-35	278
19:00	0	0	15	62	65	18	5	0	0	0	0	0	0	0	0	165	26-35	127
20:00	2	1	17	57	54	22	1	0	1	0	0	0	0	0	0	155	26-35	111
21:00	1	1	10	29	26	8	1	0	0	0	0	0	0	0	0	76	26-35	55
22:00	0	0	4	15	23	3	5	0	0	0	0	0	0	0	0	50	26-35	38
23:00	0	2	1	5	9	1	0	1	1	0	0	0	0	0	0	19	26-35	14
Total	73	43	422	1610	1586	351	41	2	2	0	0	0	0	0	0	4130		
Percent	1.8%	1.0%	10.2%	39.0%	38.4%	8.5%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	08:00	08:00	07:00	07:00	07:00	07:00	06:00	05:00	06:00							07:00		
Vol.	11	7	56	168	166	36	4	1	1							441		
PM Peak	17:00	16:00	17:00	17:00	17:00	16:00	19:00	23:00	20:00							17:00		
Vol.	12	6	48	197	201	32	5	1	1							489		

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Northern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Southbound_Northbound	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Pace	Number	
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Speed	in Pace	
10/13/16	1	1	0	4	6	5	1	0	0	0	0	0	0	0	18	29-38	11
01:00	0	0	2	1	1	1	0	0	0	0	0	0	0	0	5	21-30	3
02:00	0	0	2	1	2	4	0	0	0	0	0	0	0	0	9	31-40	6
03:00	0	1	2	4	1	2	0	0	0	0	0	0	0	0	10	21-30	6
04:00	0	0	1	5	5	1	2	0	0	0	0	0	0	0	14	26-35	10
05:00	0	0	5	20	20	8	1	1	0	0	0	0	0	0	55	26-35	40
06:00	0	1	13	59	63	33	4	0	0	0	0	0	0	0	173	26-35	122
07:00	10	11	53	151	137	35	8	0	0	0	0	0	0	0	405	26-35	288
08:00	8	1	32	88	118	23	5	1	0	0	0	0	0	0	276	26-35	206
09:00	0	5	10	75	59	20	4	1	0	0	0	0	0	0	174	26-35	134
10:00	3	3	9	57	67	13	2	0	0	0	0	0	0	0	154	26-35	124
11:00	5	13	26	65	30	8	1	0	0	0	0	0	0	0	148	26-35	95
12 PM	8	22	57	60	22	0	0	0	0	0	0	0	0	0	169	21-30	117
13:00	2	8	41	68	25	1	0	0	0	0	0	0	0	0	145	21-30	109
14:00	7	5	47	91	83	21	0	0	0	0	0	0	0	0	254	26-35	174
15:00	10	5	38	147	129	26	1	0	0	0	0	0	0	0	356	26-35	276
16:00	5	2	60	162	163	28	7	0	0	0	0	0	0	0	427	26-35	325
17:00	11	0	24	192	221	44	2	0	0	0	0	0	0	0	494	26-35	413
18:00	10	0	19	126	110	18	1	0	0	0	0	0	0	0	284	26-35	236
19:00	0	0	12	63	58	28	3	0	0	0	0	0	0	0	164	26-35	121
20:00	1	1	20	55	50	15	3	1	0	0	0	0	0	0	146	26-35	105
21:00	2	4	4	24	27	9	5	0	1	0	0	0	0	0	76	26-35	51
22:00	0	0	1	18	13	7	0	1	0	0	0	0	0	0	40	26-35	31
23:00	0	0	6	3	8	5	0	0	0	0	0	0	0	0	22	30-39	13
Total	83	83	484	1539	1418	355	50	5	1	0	0	0	0	0	4018		
Percent	2.1%	2.1%	12.0%	38.3%	35.3%	8.8%	1.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	07:00	11:00	07:00	07:00	07:00	07:00	07:00	05:00							07:00		
Vol.	10	13	53	151	137	35	8	1							405		
PM Peak	17:00	12:00	16:00	17:00	17:00	17:00	16:00	20:00	21:00						17:00		
Vol.	11	22	60	192	221	44	7	1	1						494		

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Northern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	15	16	21	26	31	36	41	46	51	56	61	66	71	76	Pace Speed	Number in Pace
10/14/16	0	0	1	4	6	2	0	0	0	0	0	0	0	0	13	10
01:00	0	0	1	2	2	0	1	0	0	0	0	0	0	0	6	4
02:00	0	0	0	1	2	3	0	0	0	0	0	0	0	0	6	5
03:00	2	0	2	2	1	1	0	0	0	0	0	0	0	0	8	4
04:00	0	0	0	4	3	2	1	0	0	0	0	0	0	0	9	7
05:00	1	0	5	8	26	7	2	0	0	0	0	0	0	0	49	34
06:00	1	0	18	42	70	26	6	1	0	0	0	0	0	0	164	112
07:00	6	13	50	153	151	39	1	0	0	0	0	0	0	0	413	304
08:00	14	3	26	91	109	34	4	0	0	0	0	0	0	0	281	200
09:00	2	3	12	59	60	26	3	0	0	0	0	0	0	0	165	119
10:00	0	1	8	64	48	22	4	0	0	0	0	0	0	0	147	112
11:00	3	4	7	56	67	18	0	0	0	0	0	0	0	0	155	123
12 PM	7	1	16	75	62	23	2	0	0	0	0	0	0	0	186	137
13:00	6	3	14	81	79	19	3	0	0	0	0	0	0	0	205	160
14:00	8	4	23	104	89	30	2	0	0	0	0	0	0	0	260	193
15:00	8	5	32	132	146	24	3	0	0	0	0	0	0	0	350	278
16:00	9	4	30	191	140	25	3	0	0	0	0	0	0	0	402	331
17:00	16	1	38	183	238	40	0	0	0	0	0	0	0	0	516	421
18:00	11	3	35	164	128	31	2	1	0	0	0	0	0	0	375	292
19:00	0	3	18	75	84	22	6	0	0	0	0	0	0	0	208	159
20:00	0	0	14	58	57	18	3	0	0	0	0	0	0	0	150	115
21:00	2	1	15	45	42	9	3	0	0	0	0	0	0	0	117	87
22:00	0	1	8	48	30	9	2	0	0	0	0	0	0	0	98	78
23:00	0	0	6	13	10	5	1	0	0	0	0	0	0	0	35	23
Total	96	50	379	1655	1650	435	51	2	0	0	0	0	0	0	4318	3188
Percent	2.2%	1.2%	8.8%	38.3%	38.2%	10.1%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
AM Peak	08:00	07:00	07:00	07:00	07:00	07:00	06:00	06:00	06:00	06:00	06:00	06:00	06:00	06:00	07:00	413
Vol.	14	13	50	153	151	39	6	1	1	1	1	1	1	1	17:00	516
PM Peak	17:00	15:00	17:00	16:00	17:00	17:00	19:00	18:00	18:00	18:00	18:00	18:00	18:00	18:00	17:00	516
Vol.	16	5	38	191	238	40	6	1	1	1	1	1	1	1	17:00	516

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Northern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Southbound	Northbound	15	16	21	26	31	36	41	46	51	56	61	66	71	76	Pace	Number	
Start	Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Speed	in Pace	
10/17/16	0	0	1	4	7	1	0	0	0	0	0	0	0	0	0	13	26-35	11
01:00	0	1	0	2	1	0	0	0	0	0	0	0	0	0	0	4	24-33	3
02:00	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0	5	26-35	3
03:00	0	0	1	3	5	0	0	0	0	0	0	0	0	0	0	9	26-35	8
04:00	0	0	2	4	4	3	0	0	0	0	0	0	0	0	0	13	25-34	8
05:00	2	1	2	20	17	1	1	0	0	0	0	0	0	0	0	43	26-35	37
06:00	1	4	10	83	77	16	0	0	0	0	0	0	0	0	0	191	26-35	160
07:00	11	4	53	181	126	23	2	2	0	0	0	0	0	0	0	400	26-35	307
08:00	5	5	25	117	110	20	2	3	0	0	0	0	0	0	0	282	26-35	227
09:00	8	5	14	77	83	24	1	1	0	0	0	0	0	0	0	212	26-35	160
10:00	2	0	13	47	63	14	3	3	0	0	0	0	0	0	0	142	26-35	110
11:00	7	6	12	47	68	20	2	0	0	0	0	0	0	0	0	162	26-35	115
12 PM	1	3	18	80	63	17	0	0	0	0	0	0	0	0	0	182	26-35	143
13:00	2	3	23	78	59	12	0	0	0	0	0	0	0	0	0	177	26-35	137
14:00	1	2	23	100	85	17	0	0	0	0	0	0	0	0	0	228	26-35	185
15:00	5	5	23	150	108	27	1	1	0	0	0	0	0	0	0	319	26-35	258
16:00	9	2	47	202	176	31	0	0	0	0	0	0	0	0	0	467	26-35	378
17:00	13	5	46	207	183	30	0	3	0	0	0	0	0	0	0	487	26-35	390
18:00	3	1	25	128	96	29	2	2	0	0	0	0	0	0	0	284	26-35	224
19:00	3	1	15	67	66	22	1	1	0	0	0	0	0	0	0	175	26-35	133
20:00	0	1	6	37	37	4	2	2	0	0	0	0	0	0	0	87	26-35	74
21:00	2	3	8	30	24	12	1	1	1	0	0	0	0	0	0	81	26-35	54
22:00	0	1	3	14	18	5	1	1	0	0	0	0	0	0	0	42	26-35	32
23:00	0	0	1	4	5	1	1	1	0	0	0	0	0	0	0	12	26-35	9
Total	75	51	372	1684	1482	329	23	23	1	0	0	0	0	0	0	4017		
Percent	1.9%	1.3%	9.3%	41.9%	36.9%	8.2%	0.6%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	07:00	11:00	07:00	07:00	07:00	09:00	08:00									07:00		
Vol.	11	6	53	181	126	24	3									400		
PM Peak	17:00	15:00	16:00	17:00	17:00	16:00	17:00	17:00	21:00							17:00		
Vol.	13	5	47	207	183	31	3									487		

Hanover Engineering

252 Brodhead Road, Suite 100
Bethlehem, PA 18017

Blue Church Road S (Northern Location)

Site Code: Northern Blue Church
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	10-Oct-16		Tue		Wed		Thu		Fri		Sat		Sun		Week Average	
	Southbou	Northbou	Southbo	Northbou												
12:00 AM	15	5	2	9	10	9	9	6	7	15	14	13	12	9	9	
01:00	1	1	7	3	4	4	4	3	3	9	6	8	8	5	4	
02:00	4	2	4	4	2	4	4	3	3	1	5	2	2	3	4	
03:00	8	3	8	4	6	4	6	6	2	3	4	5	3	6	3	
04:00	3	6	5	5	7	7	8	5	4	4	8	3	1	5	5	
05:00	21	19	33	18	27	20	29	29	20	6	11	2	4	21	17	
06:00	74	97	67	114	75	104	64	66	98	19	35	13	20	54	82	
07:00	95	207	139	299	153	288	140	265	277	48	92	29	43	106	210	
08:00	84	156	106	191	95	222	87	88	193	71	108	50	72	83	162	
09:00	71	103	87	110	68	101	69	70	95	78	113	61	105	72	105	
10:00	72	95	63	80	67	82	63	64	83	103	118	94	126	75	96	
11:00	94	103	88	89	93	70	66	71	84	122	138	120	130	93	99	
12:00 PM	94	109	97	96	109	80	91	103	83	159	139	152	143	115	104	
01:00	116	119	97	95	79	101	83	105	100	103	129	148	123	101	107	
02:00	120	147	146	119	125	99	125	146	114	114	126	149	147	132	126	
03:00	161	178	153	183	163	174	164	170	180	164	127	148	115	160	164	
04:00	183	214	185	251	186	216	207	202	200	121	146	189	150	182	200	
05:00	216	206	224	267	250	239	247	247	244	121	119	100	108	204	204	
06:00	144	153	196	152	172	156	154	130	167	113	121	106	83	156	137	
07:00	114	69	119	81	90	75	97	67	114	90	95	76	71	97	82	
08:00	75	55	76	48	80	75	101	45	86	73	56	69	52	80	56	
09:00	46	31	61	32	48	28	43	33	67	73	56	35	27	53	37	
10:00	24	16	23	17	27	23	20	20	64	70	48	25	8	36	24	
11:00	11	14	4	8	8	11	11	11	22	28	20	4	5	13	12	
Lane	1846	2108	1990	2275	1939	2191	1871	2147	2086	2232	1834	1601	1558	1861	2049	
Day	3954		4265		4130		4018		4318		3542		3159		3910	
AM Peak	07:00	07:00	07:00	07:00	07:00	07:00	07:00	07:00	07:00	07:00	11:00	11:00	11:00	07:00	07:00	
Vol.	95	207	139	299	153	288	140	265	136	277	138	120	130	106	210	
PM Peak	17:00	16:00	17:00	17:00	17:00	17:00	17:00	17:00	17:00	17:00	16:00	16:00	16:00	17:00	17:00	
Vol.	216	214	224	267	250	239	247	247	272	244	146	189	150	204	204	

Hanover Engineering

252 Brodhead Road, Suite 100
Bethlehem, PA 18017

Blue Church Road S (Southern Location)

Site Code:
Station ID:

Latitude: 0' 0.0000 Undefined

Northbound, Southbound															
Start Time	Bikes	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	Not Classified	Total
10/07/16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	1	213	28	2	10	0	0	0	1	0	0	0	0	0	257
16:00	7	252	33	0	9	0	0	0	0	0	0	0	0	0	304
17:00	4	292	34	0	4	0	0	0	0	0	0	0	0	0	337
18:00	2	204	26	0	2	0	0	0	0	0	0	0	0	0	237
19:00	1	126	18	0	2	0	0	0	0	0	0	0	0	0	147
20:00	1	84	12	0	0	0	0	0	0	0	0	0	0	0	98
21:00	1	68	7	0	1	0	0	0	0	0	0	0	0	0	78
22:00	0	57	5	0	1	0	0	0	0	0	0	0	0	0	63
23:00	0	38	5	0	0	0	0	0	0	0	0	0	0	0	43
Total	17	1334	168	2	29	0	0	0	1	0	0	0	0	13	1564
Percent	1.1%	85.3%	10.7%	0.1%	1.9%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.8%	
AM Peak															
Vol.															
PM Peak	16:00	17:00	17:00	15:00	15:00				15:00					16:00	
Vol.	7	292	34	2	10				1					3	

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Southern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Northbound, Southbound		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	Not Classed	Total
Start Time															
10/08/16	0	19	3	0	0	0	0	0	0	0	0	0	0	0	22
01:00	0	12	1	0	0	0	0	0	0	0	0	0	0	0	13
02:00	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
03:00	0	10	0	0	0	0	0	0	0	0	0	0	0	0	10
04:00	0	9	3	0	0	0	0	0	0	0	0	0	0	0	12
05:00	0	13	1	0	1	0	0	0	0	0	0	0	0	0	15
06:00	0	33	8	0	0	0	0	1	0	0	0	0	0	0	42
07:00	0	42	9	0	1	0	0	0	0	0	0	0	0	0	52
08:00	1	86	23	1	1	0	0	1	0	0	0	0	0	3	116
09:00	1	90	18	4	5	0	0	0	0	0	0	0	0	0	118
10:00	1	136	16	0	3	0	0	0	0	0	0	0	0	0	156
11:00	0	150	29	0	5	0	0	0	0	0	0	0	0	0	186
12 PM	0	141	21	0	2	0	0	0	0	0	0	0	0	0	166
13:00	0	125	28	0	5	0	0	0	0	0	0	0	0	0	163
14:00	1	139	14	0	2	0	0	0	0	0	0	0	0	0	159
15:00	3	154	16	0	6	0	0	0	0	0	0	0	0	0	185
16:00	1	150	28	1	1	0	0	0	0	0	0	0	0	1	182
17:00	0	158	16	0	2	0	0	0	0	0	0	0	0	1	177
18:00	0	116	18	1	2	0	0	0	0	0	0	0	0	2	139
19:00	0	90	9	0	3	0	0	0	0	0	0	0	0	2	104
20:00	0	60	10	0	2	0	0	0	0	0	0	0	0	2	74
21:00	0	74	7	0	0	0	0	0	0	0	0	0	0	0	81
22:00	0	54	10	0	0	0	0	0	0	0	0	0	0	0	64
23:00	0	35	2	0	0	0	0	0	0	0	0	0	0	2	39
Total	8	1901	290	7	41	0	0	4	0	0	0	0	0	29	2280
Percent	0.4%	83.4%	12.7%	0.3%	1.8%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	1.3%	
AM Peak	08:00	11:00	11:00	09:00	09:00			06:00						08:00	
Vol.	1	150	29	4	5			1						3	
PM Peak	15:00	17:00	13:00	16:00	15:00			15:00						13:00	
Vol.	3	158	28	1	6			2						5	

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Southern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	Bikes	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	Not Classed	Total
10/09/16	0	19	2	0	0	0	0	0	0	0	0	0	0	0	21
01:00	0	6	0	0	0	0	0	0	0	0	0	0	0	0	6
02:00	0	9	0	0	0	0	0	0	0	0	0	0	0	0	9
03:00	0	6	1	0	0	0	0	0	0	0	0	0	0	0	7
04:00	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8
05:00	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
06:00	0	16	5	0	0	0	0	0	0	0	0	0	0	2	23
07:00	0	30	6	0	0	0	0	0	0	0	0	0	0	0	36
08:00	0	58	9	1	1	0	0	1	0	0	0	0	0	0	70
09:00	0	99	20	0	0	0	0	1	0	0	0	0	0	0	120
10:00	0	103	11	0	2	0	0	0	0	0	0	0	0	0	116
11:00	0	132	15	0	0	0	0	0	0	0	0	0	0	2	149
12 PM	1	177	30	0	2	0	0	0	0	0	0	0	0	3	213
13:00	0	114	18	0	5	0	0	0	0	0	0	0	0	1	138
14:00	0	138	7	0	3	0	0	0	0	0	0	0	0	1	149
15:00	2	119	14	0	2	0	1	0	0	0	0	0	0	0	138
16:00	2	136	14	0	1	0	0	1	0	0	0	0	0	1	155
17:00	1	135	19	0	1	0	0	0	0	0	0	0	0	4	160
18:00	1	116	18	0	0	0	0	0	0	0	0	0	0	2	137
19:00	0	63	12	0	2	1	0	1	0	0	0	0	0	0	79
20:00	0	61	11	0	1	0	0	1	0	0	0	0	0	0	74
21:00	0	32	3	0	0	0	0	0	0	0	0	0	0	0	35
22:00	0	26	3	0	0	0	0	0	0	0	0	0	0	0	29
23:00	0	27	1	0	0	0	0	0	0	0	0	0	0	0	28
Total	7	1635	219	1	20	1	1	5	0	0	0	0	0	16	1905
Percent	0.4%	85.8%	11.5%	0.1%	1.0%	0.1%	0.1%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%	
AM Peak		11:00	09:00	08:00	10:00			08:00						06:00	
Vol.		132	20	1	2			1						2	
PM Peak		15:00	12:00		13:00	19:00	15:00	16:00						17:00	
Vol.		2	30		5	1	1	1						4	

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Southern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	Bikes	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 Multit	6 Axle Multit	>6 Axl Multit	Not Classed	Total
10/10/16	0	18	0	0	0	0	0	0	0	0	0	0	0	0	18
01:00	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
02:00	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
03:00	0	6	1	0	0	0	0	0	0	0	0	0	0	0	7
04:00	0	4	4	0	0	0	0	0	0	0	0	0	0	0	8
05:00	0	33	7	0	1	1	0	0	0	0	0	0	0	0	42
06:00	1	103	17	0	7	0	0	0	0	0	0	0	0	0	127
07:00	1	177	23	2	6	2	0	1	1	0	0	0	0	0	214
08:00	0	135	27	5	8	1	0	2	0	0	0	0	0	2	180
09:00	1	99	12	0	3	0	0	2	0	0	0	0	0	2	119
10:00	0	108	22	0	6	1	0	1	0	0	0	0	0	2	140
11:00	0	92	17	1	4	0	0	1	0	0	0	0	0	2	117
12 PM	1	122	20	0	7	1	0	2	0	0	0	0	0	4	157
13:00	2	121	18	4	4	0	0	1	0	0	0	0	0	1	151
14:00	1	146	26	3	6	0	1	0	2	0	0	0	0	2	187
15:00	0	178	28	2	7	0	0	0	0	0	0	0	0	3	218
16:00	0	229	43	0	8	0	0	1	1	0	0	0	0	9	284
17:00	2	277	31	0	5	0	0	0	0	0	0	0	0	2	324
18:00	1	212	22	0	2	0	0	1	0	0	0	0	0	2	240
19:00	1	113	19	0	3	0	0	0	0	0	0	0	0	0	136
20:00	0	99	12	0	3	0	0	0	0	0	0	0	0	1	115
21:00	0	43	4	0	1	0	0	0	0	0	0	0	0	0	48
22:00	0	33	4	0	2	0	0	0	0	0	0	0	0	0	39
23:00	0	19	1	0	1	0	0	0	0	0	0	0	0	0	21
Total	10	2375	358	17	84	6	1	12	4	0	0	0	0	33	2900
Percent	0.3%	81.9%	12.3%	0.6%	2.9%	0.2%	0.0%	0.4%	0.1%	0.0%	0.0%	0.0%	0.0%	1.1%	
AM Peak	07:00	07:00	08:00	08:00	08:00	07:00		08:00	07:00					08:00	
Vol.	1	177	27	5	8	2		2	1					2	
PM Peak	13:00	17:00	16:00	13:00	16:00	12:00	14:00	12:00	14:00					17:00	
Vol.	2	277	43	4	8	1	1	2	2					9	

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Southern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	Bikes	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	Not Classed	Total
10/11/16	0	9	1	0	0	0	0	0	0	0	0	0	0	0	10
01:00	0	6	0	0	0	0	0	0	0	0	0	0	0	0	6
02:00	0	7	0	0	1	0	0	0	0	0	0	0	0	0	8
03:00	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8
04:00	0	8	0	0	1	0	0	0	0	0	0	0	0	0	9
05:00	0	39	12	0	0	0	0	2	0	0	0	0	0	2	55
06:00	0	105	15	1	4	0	0	0	0	0	0	0	0	0	125
07:00	0	234	30	5	8	0	0	3	0	0	0	0	0	7	287
08:00	0	157	30	3	3	0	0	0	0	0	0	0	0	5	198
09:00	0	117	15	1	3	1	1	1	0	0	0	0	0	1	140
10:00	0	85	18	1	4	1	0	0	0	0	0	0	0	1	110
11:00	0	104	21	0	7	1	0	2	0	0	0	0	0	0	135
12 PM	0	120	18	2	2	0	0	0	1	0	0	0	0	4	147
13:00	0	127	27	0	8	0	0	1	0	0	0	0	0	2	165
14:00	2	156	24	2	7	0	0	0	0	0	0	0	0	3	192
15:00	1	209	28	2	12	0	0	0	0	0	0	0	0	8	260
16:00	0	264	39	3	11	0	0	1	0	0	0	0	0	5	323
17:00	0	298	42	0	4	0	0	0	0	0	0	0	0	8	352
18:00	0	214	25	0	5	0	0	0	0	0	0	0	0	10	254
19:00	0	122	15	0	1	0	0	0	0	0	0	0	0	1	139
20:00	0	66	11	1	1	0	0	0	0	0	0	0	0	0	79
21:00	0	73	6	0	1	0	0	0	0	0	0	0	0	0	80
22:00	0	29	1	0	0	0	0	0	0	0	0	0	0	0	30
23:00	0	12	1	0	0	0	0	0	0	0	0	0	0	0	13
Total	3	2569	379	19	83	3	1	10	1	0	0	0	0	57	3125
Percent	0.1%	82.2%	12.1%	0.6%	2.7%	0.1%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	1.8%	
AM Peak		07:00	07:00	07:00	07:00	09:00	09:00	07:00						07:00	
Vol.		234	30	5	8	1	1	3						7	
PM Peak		17:00	17:00	16:00	15:00			13:00	12:00					18:00	
Vol.		298	42	3	12			1	1					10	

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Southern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Northbound		Southbound													
Start Time	Bikes	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	Not Classed	Total
10/12/16	0	11	1	0	0	0	0	0	0	0	0	0	0	0	12
01:00	0	4	1	0	0	0	0	0	0	0	0	0	0	0	5
02:00	0	4	1	0	0	0	0	0	0	0	0	0	0	0	5
03:00	0	7	0	0	0	0	0	0	0	0	0	0	0	0	7
04:00	0	12	0	0	0	0	0	0	0	0	0	0	0	0	12
05:00	0	38	5	0	3	1	0	0	0	0	0	0	0	0	47
06:00	1	112	6	1	9	1	0	0	0	0	0	0	0	0	130
07:00	1	237	33	6	6	1	0	2	0	0	0	0	0	5	290
08:00	1	172	28	4	6	1	0	1	0	0	0	0	0	7	220
09:00	0	105	20	1	10	0	0	0	0	0	0	0	0	0	136
10:00	0	90	13	0	1	0	0	0	1	0	0	0	0	1	106
11:00	0	92	17	0	1	2	0	1	0	0	0	0	0	1	114
12 PM	1	97	19	1	7	0	0	1	0	0	0	0	0	0	126
13:00	0	104	25	0	6	0	0	0	0	0	0	0	0	0	137
14:00	2	142	27	2	3	0	0	0	0	0	0	0	0	2	178
15:00	1	205	33	5	7	0	0	1	0	0	0	0	0	1	257
16:00	0	236	30	0	11	2	0	0	0	0	0	0	0	5	284
17:00	2	294	50	1	3	0	0	1	0	0	0	0	0	8	359
18:00	0	224	32	0	5	0	0	0	0	0	0	0	0	1	262
19:00	0	121	8	1	0	0	0	0	0	0	0	0	0	0	130
20:00	1	97	13	0	0	0	0	1	0	0	0	0	0	0	112
21:00	0	47	2	0	1	0	0	0	0	0	0	0	0	0	50
22:00	0	34	2	0	1	0	0	0	0	0	0	0	0	0	37
23:00	0	15	2	0	0	0	0	0	0	0	0	0	0	0	17
Total	10	2500	368	22	80	7	0	9	1	0	0	0	0	36	3033
Percent	0.3%	82.4%	12.1%	0.7%	2.6%	0.2%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2%	
AM Peak	06:00	07:00	07:00	07:00	09:00	11:00		07:00	10:00					08:00	
Vol.	1	237	33	6	10	2		2	1					7	
PM Peak	14:00	17:00	17:00	15:00	16:00	16:00		12:00						17:00	
Vol.	2	294	50	5	11	2		1						8	

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Southern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	Bikes	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	Not Classified	Total
10/13/16	0	22	0	0	0	0	0	0	0	0	0	0	0	0	22
01:00	0	3	1	0	0	0	0	0	0	0	0	0	0	0	4
02:00	0	4	1	0	0	0	0	0	0	0	0	0	0	0	5
03:00	0	6	1	0	0	0	0	0	0	0	0	0	0	1	8
04:00	0	10	1	0	1	4	0	0	0	0	0	0	0	0	16
05:00	0	28	8	0	2	0	0	0	0	0	0	0	0	2	40
06:00	0	101	16	1	2	0	0	0	0	0	0	0	0	1	121
07:00	1	231	28	4	8	0	0	1	0	0	0	0	0	5	278
08:00	2	171	23	3	6	1	0	0	0	0	0	0	0	2	208
09:00	1	88	15	1	7	1	0	0	0	0	0	0	0	1	114
10:00	1	90	19	1	6	3	1	0	0	0	0	0	0	0	122
11:00	2	80	18	0	7	0	0	0	0	0	0	0	0	0	107
12 PM	2	89	24	3	8	0	0	1	0	0	0	0	0	2	129
13:00	0	102	20	0	9	0	0	0	0	0	0	0	0	1	132
14:00	0	145	32	2	3	0	0	0	0	0	0	0	0	3	185
15:00	1	195	34	6	8	0	0	0	0	0	0	0	0	7	253
16:00	0	256	36	3	5	0	0	2	0	0	0	0	0	2	304
17:00	0	335	48	0	5	0	0	0	0	0	0	0	0	7	395
18:00	0	170	32	0	1	0	0	0	0	0	0	0	0	6	209
19:00	0	107	17	0	4	0	0	0	0	0	0	0	0	1	129
20:00	2	90	13	0	2	0	0	0	0	0	0	0	0	0	107
21:00	1	55	7	0	0	0	0	0	0	0	0	0	0	0	63
22:00	0	22	2	0	2	0	0	0	0	0	0	0	0	0	26
23:00	0	26	1	0	1	0	0	0	0	0	0	0	0	0	28
Total	13	2426	397	24	87	9	1	7	0	0	0	0	0	41	3005
Percent	0.4%	80.7%	13.2%	0.8%	2.9%	0.3%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%	
AM Peak	08:00	07:00	07:00	07:00	07:00	04:00	10:00	07:00						07:00	
Vol.	2	231	28	4	8	4	1	1						5	
PM Peak	12:00	17:00	17:00	15:00	13:00			15:00						15:00	
Vol.	2	335	48	6	9			2						7	

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Southern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Northbound, Southbound		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	Not Classed	Total
Start Time															
10/14/16	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
01:00	3	1	1	0	0	0	0	0	0	0	0	0	0	0	4
02:00	4	1	1	0	0	0	0	0	0	0	0	0	0	0	5
03:00	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
04:00	8	1	1	0	0	0	0	0	0	0	0	0	0	0	9
05:00	28	14	14	0	1	0	0	0	0	0	0	0	0	0	43
06:00	95	15	15	1	6	0	0	0	0	0	0	0	0	0	117
07:00	223	23	23	7	10	0	1	1	1	0	0	0	0	4	269
08:00	157	30	30	4	8	0	0	1	1	0	0	0	0	6	207
09:00	102	18	18	0	4	2	0	0	0	0	0	0	0	3	129
10:00	84	16	16	0	4	0	0	0	0	0	0	0	0	3	107
11:00	89	23	23	0	2	0	0	0	0	0	0	0	0	1	115
12 PM	115	23	23	1	3	1	0	1	1	0	0	0	0	0	144
13:00	122	26	26	0	7	2	0	0	0	0	0	0	0	3	162
14:00	150	28	28	1	2	0	0	0	1	0	0	0	0	3	187
15:00	210	31	31	4	7	0	0	1	0	0	0	0	0	1	255
16:00	261	32	32	3	6	0	0	3	0	0	0	0	0	2	309
17:00	330	48	48	0	4	0	0	3	0	0	0	0	0	5	392
18:00	229	29	29	0	3	0	0	1	0	0	0	0	0	5	267
19:00	138	20	20	0	3	0	0	1	0	0	0	0	0	0	163
20:00	107	13	13	0	1	0	0	0	0	0	0	0	0	1	123
21:00	59	8	8	0	2	0	0	0	0	0	0	0	0	0	70
22:00	39	8	8	0	1	0	0	1	0	0	0	0	0	1	50
23:00	21	3	3	0	0	0	0	0	0	0	0	0	0	0	24
Total	2586	411	411	21	74	5	1	13	2	0	0	0	0	38	3163
Percent	81.8%	13.0%	13.0%	0.7%	2.3%	0.2%	0.0%	0.4%	0.1%	0.0%	0.0%	0.0%	0.0%	1.2%	
AM Peak Vol.	07:00	08:00	08:00	07:00	07:00	09:00	07:00	07:00	08:00					08:00	
	223	30	30	7	10	2	1	1	1					6	
PM Peak Vol.	17:00	17:00	17:00	15:00	13:00	13:00	13:00	16:00	14:00					17:00	
	2	48	48	4	7	2	2	3	1					5	

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Southern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Northbound, Southbound		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	Not Classed	Total
Start Time															
10/15/16		21	1	0	0	0	0	0	0	0	0	0	0	0	22
01:00		13	1	0	0	0	0	0	0	0	0	0	0	0	15
02:00		7	1	0	0	0	0	0	0	0	0	0	0	0	8
03:00		3	0	0	0	0	0	0	0	0	0	0	0	0	3
04:00		7	2	0	0	0	0	0	0	0	0	0	0	0	9
05:00		7	2	0	1	0	0	0	0	0	0	0	0	0	10
06:00		28	5	1	3	0	0	0	0	0	0	0	0	0	37
07:00		67	14	0	3	0	0	0	0	0	0	0	0	1	85
08:00		102	25	0	3	0	0	0	0	0	0	0	0	4	135
09:00		106	12	0	1	0	0	1	0	0	0	0	0	1	122
10:00		143	20	0	3	0	0	0	0	0	0	0	0	3	169
11:00		166	18	0	6	1	0	0	0	0	0	0	0	3	195
12 PM		176	21	0	2	0	0	0	0	0	0	0	0	1	201
13:00		154	30	0	2	1	0	1	0	0	0	0	0	1	192
14:00		162	27	0	1	0	0	1	0	0	0	0	0	1	196
15:00		165	28	0	1	0	0	0	0	0	0	0	0	1	202
16:00		168	15	0	1	0	0	0	0	0	0	0	0	2	187
17:00		145	19	0	1	0	0	0	0	0	0	0	0	0	166
18:00		132	13	0	4	0	0	0	0	0	0	0	0	1	154
19:00		124	20	0	1	0	0	0	0	0	0	0	0	1	146
20:00		65	8	0	1	0	0	0	0	0	0	0	0	0	75
21:00		84	3	0	1	0	0	0	0	0	0	0	0	0	88
22:00		48	4	0	2	0	0	0	0	0	0	0	0	1	55
23:00		26	1	0	1	0	0	0	0	0	0	0	0	0	28
Total		2119	290	1	38	2	0	3	0	0	0	0	0	21	2500
Percent		84.8%	11.6%	0.0%	1.5%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%	
AM Peak		11:00	08:00	06:00	11:00	11:00		09:00						08:00	
Vol.		166	25	1	6	1		1						4	
PM Peak		12:00	13:00		18:00	13:00		13:00						16:00	
Vol.		176	30		4	1		1						2	

Hanover Engineering
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Blue Church Road S (Southern Location)

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Start Time	Bikes	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	Not Classed	Total
10/17/16	0	6	2	0	0	0	0	0	0	0	0	0	0	0	8
01:00	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
02:00	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
03:00	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
04:00	0	11	3	0	0	0	0	0	0	0	0	0	0	0	14
05:00	0	33	6	1	0	0	0	0	0	0	0	0	0	0	40
06:00	0	107	17	1	3	0	0	0	0	0	0	0	0	0	130
07:00	0	215	27	5	10	0	0	1	0	0	0	0	0	2	264
08:00	0	158	35	4	4	0	0	0	0	0	0	0	0	6	207
09:00	0	133	27	0	4	0	0	1	0	0	0	0	0	6	167
10:00	2	94	21	0	3	0	0	2	0	0	0	0	0	3	125
11:00	1	102	18	0	5	0	0	2	0	0	0	0	0	0	128
12 PM	1	103	13	3	8	0	0	2	0	0	0	0	0	2	132
13:00	1	96	17	0	4	2	0	1	0	0	0	0	0	0	121
14:00	2	116	20	0	10	1	0	2	0	0	0	0	0	0	151
15:00	1	171	36	2	9	0	0	0	0	0	0	0	0	7	226
16:00	1	283	36	4	7	1	0	1	0	0	0	0	0	5	338
17:00	4	300	42	0	10	0	0	1	0	0	0	0	0	6	363
18:00	0	181	19	0	7	0	0	0	0	0	0	0	0	4	211
19:00	0	103	15	0	1	0	0	0	0	0	0	0	0	0	119
20:00	0	64	8	0	2	0	0	0	0	0	0	0	0	2	76
21:00	0	36	6	0	1	0	0	0	0	0	0	0	0	1	44
22:00	0	23	1	0	0	0	0	0	0	0	0	0	0	0	24
23:00	0	11	1	0	0	0	0	0	0	0	0	0	0	0	12
Total	13	2356	370	20	88	4	0	13	0	0	0	0	0	46	2910
Percent	0.4%	81.0%	12.7%	0.7%	3.0%	0.1%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6%	
AM Peak	10:00	07:00	08:00	07:00	07:00			10:00						07:00	
Vol.	2	215	35	5	10			2						6	
PM Peak	17:00	17:00	17:00	16:00	14:00	13:00		12:00						15:00	
Vol.	4	300	42	4	10	2		2						7	

Hanover Engineering
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Northbound, Southbound		15	16	21	26	31	36	41	46	51	56	61	66	71	76	Pace	Number	
Start	Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Speed	in Pace	
10/07/16		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	15:00	7	0	11	58	122	53	6	0	0	0	0	0	0	0	257	26-35	180
	16:00	3	0	7	53	156	75	10	0	0	0	0	0	0	0	304	31-40	231
	17:00	3	5	15	80	156	68	9	1	0	0	0	0	0	0	337	26-35	236
	18:00	3	3	9	66	114	37	4	1	0	0	0	0	0	0	237	26-35	180
	19:00	1	2	10	48	59	22	4	1	0	0	0	0	0	0	147	26-35	107
	20:00	0	0	4	23	47	23	1	0	0	0	0	0	0	0	98	29-38	70
	21:00	1	0	2	27	33	11	4	0	0	0	0	0	0	0	78	26-35	60
	22:00	0	1	3	17	30	9	2	1	0	0	0	0	0	0	63	26-35	47
	23:00	0	3	6	9	19	5	1	0	0	0	0	0	0	0	43	26-35	28
Total		18	14	67	381	736	303	41	4	0	0	0	0	0	0	1564		
Percent		1.2%	0.9%	4.3%	24.4%	47.1%	19.4%	2.6%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak																		
Vol.																		
PM Peak		15:00	17:00	17:00	17:00	16:00	16:00	16:00	17:00	17:00	17:00	17:00	17:00	17:00	17:00			
Vol.		7	5	15	80	156	75	10	1	1	1	1	1	1	1			

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Site Code:
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Northbound, Southbound	15	16	21	26	31	36	41	46	51	56	61	66	71	76	Pace	Number
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	80	Speed	In Pace
10/09/16	0	0	2	4	11	4	0	0	0	0	0	0	0	0	21	15
01:00	0	0	0	0	3	3	0	0	0	0	0	0	0	0	6	6
02:00	0	0	0	3	5	1	0	0	0	0	0	0	0	0	9	8
03:00	0	0	1	0	2	1	3	0	0	0	0	0	0	0	7	4
04:00	0	0	0	1	6	1	0	0	0	0	0	0	0	0	8	7
05:00	0	1	0	0	3	1	0	0	0	0	0	0	0	0	5	4
06:00	2	0	0	6	10	4	1	0	0	0	0	0	0	0	23	16
07:00	0	3	2	9	10	9	2	1	0	0	0	0	0	0	36	19
08:00	0	0	7	18	36	8	1	0	0	0	0	0	0	0	70	54
09:00	0	1	6	29	59	21	4	0	0	0	0	0	0	0	120	88
10:00	0	0	1	32	55	25	3	0	0	0	0	0	0	0	116	87
11:00	2	0	1	34	63	44	4	1	0	0	0	0	0	0	149	107
12 PM	3	3	6	58	92	49	2	0	0	0	0	0	0	0	213	150
13:00	1	1	14	31	55	34	2	0	0	0	0	0	0	0	138	89
14:00	1	0	7	33	72	28	8	0	0	0	0	0	0	0	149	105
15:00	0	0	3	23	71	27	11	2	1	0	0	0	0	0	138	98
16:00	1	5	6	30	72	38	3	0	0	0	0	0	0	0	155	110
17:00	4	1	4	35	82	32	2	0	0	0	0	0	0	0	160	117
18:00	2	0	5	30	70	28	1	1	0	0	0	0	0	0	137	100
19:00	1	2	5	20	37	13	1	0	0	0	0	0	0	0	79	57
20:00	0	0	7	19	34	13	1	0	0	0	0	0	0	0	74	53
21:00	0	1	1	5	17	10	1	0	0	0	0	0	0	0	35	27
22:00	0	0	0	3	15	10	1	0	0	0	0	0	0	0	29	25
23:00	0	0	0	10	7	10	1	0	0	0	0	0	0	0	28	17
Total	17	18	78	433	887	414	52	5	1	0	0	0	0	0	1905	
Percent	0.9%	0.9%	4.1%	22.7%	46.6%	21.7%	2.7%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%		
AM Peak	06:00	07:00	08:00	11:00	11:00	11:00	09:00	07:00							11:00	
Vol.	2	3	7	34	63	44	4	1							149	
PM Peak	17:00	16:00	13:00	12:00	12:00	12:00	15:00	15:00	15:00						12:00	
Vol.	4	5	14	58	92	49	11	2	1						213	

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Northbound		Southbound		16		21		26		31		36		41		46		51		56		61		66		71		76		Pace Speed	Number in Pace
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	Total		
10/10/16	0	0	1	6	9	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	15	
01:00	0	0	1	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	3	
02:00	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	2	
03:00	0	0	1	0	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	5	7	
04:00	0	0	0	1	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	6	8	
05:00	0	0	4	10	19	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	29	42	
06:00	0	0	7	30	58	27	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	127	88	127	
07:00	2	2	9	55	94	49	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	214	149	214	
08:00	2	3	5	57	77	31	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180	134	180	
09:00	2	0	8	20	52	29	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119	81	119	
10:00	2	1	10	30	70	23	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	140	100	140	
11:00	2	0	1	30	44	37	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	117	81	117	
12 PM	4	0	6	32	70	40	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157	110	157	
13:00	1	1	10	44	65	26	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	151	109	151	
14:00	2	2	6	43	88	44	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	187	132	187	
15:00	3	1	7	38	109	50	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	218	159	218	
16:00	2	0	4	65	147	64	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	284	212	284	
17:00	9	0	15	71	159	64	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	324	230	324	
18:00	3	4	6	50	118	55	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	240	173	240	
19:00	0	2	10	38	59	26	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136	97	136	
20:00	2	0	5	33	57	16	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	115	90	115	
21:00	0	0	1	12	24	9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	36	48	
22:00	0	0	1	7	11	17	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	28	39	
23:00	0	1	0	5	7	5	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	12	21	
Total	36	17	118	678	1346	628	70	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2900			
Percent	1.2%	0.6%	4.1%	23.4%	46.4%	21.7%	2.4%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	07:00	08:00	10:00	08:00	07:00	07:00	09:00	11:00																					07:00		
Vol.	2	3	10	57	94	49	8	1																				214			
PM Peak	17:00	18:00	17:00	17:00	17:00	16:00	15:00	12:00																				17:00			
Vol.	9	4	15	71	159	64	9	1																				324			

Hanover Engineering
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Blue Church Road S (Southern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Northbound	Southbound	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace	Number
Start	Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999		Speed	in
10/12/16		0	0	0	5	5	2	0	0	0	0	0	0	0	0	12	26-35	10
01:00		0	0	0	0	4	1	0	0	0	0	0	0	0	0	5	29-38	5
02:00		0	0	0	0	2	3	0	0	0	0	0	0	0	0	5	31-40	5
03:00		0	0	0	2	3	1	0	1	0	0	0	0	0	0	7	26-35	5
04:00		0	1	0	4	4	2	1	0	0	0	0	0	0	0	12	26-35	8
05:00		0	0	1	11	18	12	4	1	0	0	0	0	0	0	47	29-38	30
06:00		0	1	11	28	54	33	2	1	0	0	0	0	0	0	130	31-40	87
07:00		7	3	14	67	136	56	7	0	0	0	0	0	0	0	290	26-35	203
08:00		8	0	15	47	94	46	10	0	0	0	0	0	0	0	220	26-35	141
09:00		1	1	9	34	58	30	3	0	0	0	0	0	0	0	136	26-35	92
10:00		1	0	6	27	40	25	7	0	0	0	0	0	0	0	106	26-35	67
11:00		1	0	2	25	69	15	2	0	0	0	0	0	0	0	114	26-35	94
12 PM		0	2	7	41	50	24	2	0	0	0	0	0	0	0	126	26-35	91
13:00		2	2	7	38	60	26	1	0	1	0	0	0	0	0	137	26-35	98
14:00		2	1	13	41	70	45	6	0	0	0	0	0	0	0	178	31-40	115
15:00		7	2	10	65	105	65	3	0	0	0	0	0	0	0	257	26-35	170
16:00		5	2	6	50	135	77	9	0	0	0	0	0	0	0	284	26-35	212
17:00		8	1	12	79	180	73	6	0	0	0	0	0	0	0	359	26-35	259
18:00		1	1	14	78	121	41	6	0	0	0	0	0	0	0	262	26-35	199
19:00		0	0	9	33	63	23	2	0	0	0	0	0	0	0	130	26-35	96
20:00		0	2	3	32	57	16	2	0	0	0	0	0	0	0	112	26-35	89
21:00		0	0	3	18	19	9	1	0	0	0	0	0	0	0	50	26-35	37
22:00		0	0	2	11	16	7	1	0	0	0	0	0	0	0	37	26-35	27
23:00		0	1	0	4	7	4	1	0	0	0	0	0	0	0	17	26-35	11
Total		43	20	144	740	1370	636	76	3	1	0	0	0	0	0	3033		
Percent		1.4%	0.7%	4.7%	24.4%	45.2%	21.0%	2.5%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak		08:00	07:00	08:00	07:00	07:00	07:00	08:00	03:00							07:00		
Vol.		8	3	15	67	136	56	10	1							290		
PM Peak		17:00	12:00	18:00	17:00	17:00	16:00	16:00		13:00						17:00		
Vol.		8	2	14	79	180	77	9		1						359		

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Southern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Northbound_Southbound	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace	Number
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999		Speed	In Pace
10/13/16	0	0	2	3	13	4	0	0	0	0	0	0	0	0	22	29-38	17
01:00	0	0	0	1	1	2	0	0	0	0	0	0	0	0	4	29-38	3
02:00	0	0	0	0	2	3	0	0	0	0	0	0	0	0	5	31-40	5
03:00	1	0	0	3	1	2	1	0	0	0	0	0	0	0	8	26-35	4
04:00	0	3	3	5	1	4	0	0	0	0	0	0	0	0	16	20-29	8
05:00	2	1	0	3	20	11	2	1	0	0	0	0	0	0	40	31-40	31
06:00	1	0	8	25	61	21	4	1	0	0	0	0	0	0	121	26-35	86
07:00	5	4	17	63	120	59	10	0	0	0	0	0	0	0	278	26-35	183
08:00	4	2	11	56	85	46	3	1	0	0	0	0	0	0	208	26-35	141
09:00	2	3	6	41	34	22	6	0	0	0	0	0	0	0	114	26-35	75
10:00	1	1	12	43	46	17	1	1	0	0	0	0	0	0	122	26-35	89
11:00	0	2	8	28	50	16	3	0	0	0	0	0	0	0	107	26-35	78
12 PM	3	3	16	39	52	15	1	0	0	0	0	0	0	0	129	26-35	91
13:00	3	1	10	41	51	25	1	0	0	0	0	0	0	0	132	26-35	92
14:00	3	0	10	37	80	48	7	0	0	0	0	0	0	0	185	31-40	128
15:00	8	0	12	51	113	63	6	0	0	0	0	0	0	0	253	31-40	176
16:00	2	2	10	65	143	62	17	3	0	0	0	0	0	0	304	26-35	208
17:00	8	0	11	81	182	105	8	0	0	0	0	0	0	0	395	31-40	287
18:00	6	0	8	55	91	43	6	0	0	0	0	0	0	0	209	26-35	146
19:00	1	1	8	36	54	24	5	0	0	0	0	0	0	0	129	26-35	90
20:00	0	0	7	27	45	22	4	1	0	1	0	0	0	0	107	26-35	72
21:00	0	0	2	18	26	14	2	0	1	0	0	0	0	0	63	26-35	44
22:00	1	0	0	7	10	7	1	0	0	0	0	0	0	0	26	26-35	17
23:00	0	1	1	7	14	4	1	0	0	0	0	0	0	0	28	26-35	21
Total	51	24	162	735	1295	639	89	8	1	1	0	0	0	0	3005		
Percent	1.7%	0.8%	5.4%	24.5%	43.1%	21.3%	3.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	07:00	07:00	07:00	07:00	07:00	07:00	07:00	05:00							07:00		
Vol.	5	4	17	63	120	59	10	1							278		
PM Peak	15:00	12:00	12:00	17:00	17:00	17:00	16:00	16:00	21:00	20:00					17:00		
Vol.	8	3	16	81	182	105	17	3	1	1					395		

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Southern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Northbound, Southbound		15	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	Pace	Number
Start	Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999		Speed	in Pace
10/14/16	0	0	0	0	1	3	4	0	0	0	0	0	0	0	0	8	31-40	7
	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	4	24-33	2
	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	5	29-38	5
	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	4	25-34	3
	0	0	0	1	4	3	0	1	0	0	0	0	0	0	0	9	25-34	7
	0	0	2	2	11	21	7	1	1	0	0	0	0	0	0	43	26-35	32
	0	3	7	18	68	123	43	9	2	1	0	0	0	0	0	117	31-40	79
	4	4	14	14	49	87	41	7	0	0	0	0	0	0	0	269	26-35	191
	6	3	3	3	31	52	36	4	0	0	0	0	0	0	0	207	26-35	136
	3	0	0	0	25	47	26	4	1	0	0	0	0	0	0	129	31-40	88
	3	0	0	0	27	44	37	3	0	0	0	0	0	0	0	107	29-38	73
	1	0	3	3	27	44	37	3	0	0	0	0	0	0	0	115	31-40	81
12 PM	0	0	0	9	48	57	23	6	1	0	0	0	0	0	0	144	26-35	105
13:00	3	0	0	8	46	73	27	5	0	0	0	0	0	0	0	162	26-35	119
14:00	4	2	2	2	39	88	43	9	0	0	0	0	0	0	0	187	31-40	131
15:00	2	2	2	9	63	110	61	6	2	0	0	0	0	0	0	255	26-35	173
16:00	2	2	9	55	177	177	56	6	2	0	0	0	0	0	0	309	29-38	233
17:00	9	3	11	97	168	168	93	10	1	0	0	0	0	0	0	392	26-35	265
18:00	9	8	16	87	110	110	35	2	0	0	0	0	0	0	0	267	26-35	197
19:00	1	0	7	38	79	79	36	1	0	0	1	0	0	0	0	163	26-35	117
20:00	2	1	8	35	50	50	23	3	0	1	0	0	0	0	0	123	26-35	85
21:00	0	1	7	17	35	35	9	1	0	0	0	0	0	0	0	70	26-35	52
22:00	1	0	5	14	18	18	10	2	0	0	0	0	0	0	0	50	26-35	32
23:00	0	1	1	4	14	14	4	0	0	0	0	0	0	0	0	24	26-35	18
Total	50	30	141	784	1418	1418	644	83	10	2	1	0	0	0	0	3163		
Percent	1.6%	0.9%	4.5%	24.8%	44.8%	44.8%	20.4%	2.6%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	08:00	07:00	07:00	07:00	07:00	07:00	07:00	07:00	06:00	06:00	06:00	06:00	06:00	06:00	06:00	07:00		
Vol.	6	4	18	68	123	123	43	9	2	1	0	0	0	0	0	269		
PM Peak	17:00	18:00	18:00	17:00	16:00	16:00	17:00	17:00	15:00	20:00	19:00	19:00	19:00	19:00	17:00			
Vol.	9	8	16	97	177	177	93	10	2	1	1	1	1	1	392			

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Southern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	16	21	26	31	36	41	46	51	56	61	66	71	76	Pace	Number
Time	15	20	25	30	35	40	45	50	55	60	65	70	75	Speed	in Pace
10/15/16	0	0	2	13	5	2	0	0	0	0	0	0	0	22	18
01:00	0	0	4	9	1	1	0	0	0	0	0	0	0	15	13
02:00	0	0	2	1	4	1	0	0	0	0	0	0	0	8	5
03:00	0	0	2	1	0	0	0	0	0	0	0	0	0	3	3
04:00	1	0	2	4	1	1	0	0	0	0	0	0	0	9	6
05:00	0	0	2	2	2	3	0	0	0	0	0	0	0	10	5
06:00	0	5	9	11	9	3	0	0	0	0	0	0	0	37	20
07:00	1	6	26	25	22	4	1	0	0	0	0	0	0	85	51
08:00	7	16	28	56	24	2	0	0	0	0	0	0	0	135	84
09:00	2	2	33	53	27	3	0	0	0	0	0	0	0	122	86
10:00	3	8	40	82	30	6	0	0	0	0	0	0	0	169	122
11:00	4	0	44	98	37	7	0	0	0	0	0	0	0	195	142
12 PM	1	3	37	93	48	9	1	0	0	0	0	0	0	201	141
13:00	5	2	57	84	32	2	1	0	0	0	0	0	0	192	141
14:00	3	3	50	82	34	6	0	0	0	0	0	0	0	196	132
15:00	2	1	43	98	43	4	0	1	0	0	0	0	0	202	141
16:00	2	0	53	91	31	6	1	1	0	0	0	0	0	187	144
17:00	0	0	42	79	40	1	1	0	0	0	0	0	0	166	121
18:00	2	9	45	69	25	2	0	0	0	0	0	0	0	154	114
19:00	0	2	54	66	14	0	0	0	0	0	0	0	0	146	120
20:00	0	4	22	35	9	3	0	0	0	0	0	0	0	75	57
21:00	0	5	21	47	12	3	0	0	0	0	0	0	0	88	68
22:00	1	0	16	23	9	2	0	0	0	0	0	0	0	55	39
23:00	0	1	10	12	3	2	0	0	0	0	0	0	0	28	22
Total	34	19	644	1134	462	73	5	2	2	0	0	0	0	2500	
Percent	1.4%	0.8%	25.8%	45.4%	18.5%	2.9%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%		
AM Peak	08:00	08:00	11:00	11:00	11:00	11:00	07:00								11:00
Vol.	7	2	16	44	98	37	7	1							195
PM Peak	13:00	14:00	13:00	15:00	12:00	12:00	12:00	15:00							15:00
Vol.	5	3	18	57	98	48	9	1							202

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Southern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Northbound, Southbound	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Pace	Number	
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Speed	in Pace	
10/16/16	0	0	2	4	8	4	1	0	0	0	0	0	0	0	19	26-35	12
01:00	0	1	3	2	2	3	1	0	0	0	0	0	0	0	12	19-28	5
02:00	0	0	1	0	2	0	2	0	0	0	0	0	0	0	5	24-33	2
03:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	24-33	1
04:00	0	0	0	2	1	0	0	0	0	0	0	0	0	0	3	24-33	3
05:00	1	1	0	0	3	2	0	0	0	0	0	0	0	0	7	30-39	5
06:00	0	0	0	5	9	5	1	0	0	0	0	0	0	0	20	26-35	14
07:00	0	0	2	14	22	11	2	0	0	0	0	0	0	0	51	26-35	36
08:00	1	0	6	18	39	17	1	0	0	0	0	0	0	0	82	26-35	57
09:00	1	1	5	34	70	33	0	0	1	0	0	0	0	0	145	26-35	104
10:00	2	2	5	32	81	39	4	0	0	0	0	0	0	0	166	31-40	120
11:00	4	0	4	44	94	40	8	0	0	0	0	0	0	0	194	26-35	138
12 PM	5	2	19	67	99	44	4	0	0	0	0	0	0	0	240	26-35	166
13:00	4	1	13	62	86	48	3	0	0	0	0	0	0	0	217	26-35	148
14:00	3	2	15	76	127	60	9	0	1	0	1	0	0	0	294	26-35	203
15:00	3	2	10	49	104	47	7	0	0	0	0	0	0	0	222	26-35	153
16:00	28	2	6	79	110	39	4	1	0	0	0	0	0	0	269	26-35	189
17:00	6	2	5	38	78	17	3	0	1	0	0	0	0	0	150	26-35	116
18:00	0	0	6	49	49	21	4	0	0	0	0	0	0	0	129	26-35	98
19:00	0	1	4	40	50	18	4	0	0	0	0	0	0	0	117	26-35	90
20:00	3	1	6	27	37	16	2	0	0	0	0	0	0	0	92	26-35	64
21:00	0	2	7	9	16	9	1	0	0	0	0	0	0	0	44	26-35	25
22:00	1	0	4	9	5	4	1	0	0	0	0	0	0	0	24	24-33	14
23:00	0	1	0	7	3	1	1	0	0	1	0	0	0	0	14	26-35	10
Total	62	21	123	667	1096	478	64	1	3	1	1	0	1	0	2518		
Percent	2.5%	0.8%	4.9%	26.5%	43.5%	19.0%	2.5%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	11:00	10:00	08:00	11:00	11:00	11:00	11:00	09:00	09:00	09:00	0.0%	0.0%	0.0%	0.0%			
Vol.	4	2	6	44	94	40	8						10:00		11:00		
PM Peak	16:00	12:00	12:00	16:00	14:00	14:00	14:00	16:00	14:00	23:00	14:00	14:00	1		194		
Vol.	28	2	19	79	127	60	9	1	1	1	1	1	1		294		

Hanover Engineering
 252 Brodhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Southern Location)

Site Code:
 Station ID:

Latitude: 0' 0.0000 Undefined

Northbound	Southbound	16	21	26	31	36	41	46	51	56	61	66	71	76	Pace	Number
Start	Time	15	20	25	30	35	40	45	50	55	60	65	70	75	Speed	In
Time	10/17/16	0	0	0	2	5	1	0	0	0	0	0	0	0	8	Pace
01:00		0	0	0	0	1	1	0	0	0	0	0	0	0	26-35	7
02:00		0	0	0	0	1	1	0	0	0	0	0	0	0	29-38	2
03:00		0	0	0	0	1	1	0	0	0	0	0	0	0	29-38	2
04:00		0	0	2	2	4	5	1	0	0	0	0	0	0	24-33	3
05:00		0	0	2	15	16	6	1	0	0	0	0	0	0	31-40	9
06:00		2	1	33	52	30	30	4	0	0	0	0	0	0	26-35	31
07:00		7	1	65	125	46	46	11	0	0	0	0	0	0	26-35	85
08:00		7	1	45	98	43	43	8	0	0	0	0	0	0	264	190
09:00		2	3	38	74	32	32	3	0	0	0	0	0	0	207	143
10:00		3	1	31	54	22	22	8	0	0	0	0	0	0	167	112
11:00		0	0	12	57	27	27	1	0	0	0	0	0	0	125	85
12 PM		3	1	6	60	27	27	4	0	0	0	0	0	0	128	88
13:00		1	3	6	50	27	27	4	0	0	0	0	0	0	132	102
14:00		0	9	40	61	27	27	5	0	0	0	0	0	0	121	80
15:00		10	3	53	99	42	42	4	0	0	0	0	0	0	151	101
16:00		5	2	85	172	51	51	8	0	0	0	0	0	0	226	152
17:00		7	1	69	192	75	75	12	0	0	0	0	0	0	338	257
18:00		4	1	59	97	36	36	4	0	0	0	0	0	0	363	267
19:00		0	1	39	54	16	16	1	0	0	0	0	0	0	31-40	156
20:00		2	0	22	36	12	12	0	0	0	0	0	0	0	211	93
21:00		1	0	13	17	7	7	2	0	0	0	0	0	0	119	58
22:00		0	0	9	9	5	5	1	0	0	0	0	0	0	76	30
23:00		0	1	2	8	1	1	0	0	0	0	0	0	0	44	18
Total		54	29	143	727	1343	533	81	0	0	0	0	0	0	2910	12
Percent		1.9%	1.0%	4.9%	25.0%	46.2%	18.3%	2.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
AM Peak		07:00	09:00	09:00	07:00	07:00	07:00	07:00	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		07:00
Vol.		7	3	15	65	125	46	11							264	264
PM Peak		15:00	14:00	15:00	16:00	17:00	17:00	17:00							17:00	17:00
Vol.		10	9	15	85	192	75	12							363	363

Hanover Engineering

252 Brodhead Road, Suite 100
Bethlehem, PA 18017

Blue Church Road S (Southern Location)

Site Code: Southern Blue Church
Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	03-Oct-16		Tue		Wed		Thu		Fri		Sat		Sun		Week Average	
	Northbou	Southbo	Northbou	Southbo	Northbou	Southbo	Northbou	Southbo	Northbou	Southbo	Northbou	Southbo	Northbou	Southbo	Northbou	Southbo
12:00 AM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8	8
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5	6
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3	3
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	4	4
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2	2
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7	6
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	4
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	3
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	15	18
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	22	22
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	27	42
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	56	64
12:00 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	64	54
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	53	60
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	88	76
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	106	100
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	85	88
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	81	91
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	75	76
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	82	72
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	81	82
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	105	107
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	80	87
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	71	88
12:00 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	84	88
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	92	124
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	85	100
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	68	72
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	54	99
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	69	99
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	40	57
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	39	53
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	36	41
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	38	41
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	20	29
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	15	26
12:00 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14	15
Day	0	0	0	0	0	0	0	0	0	889	675	1240	1040	1003	902	1248
AM Peak Vol.	-	-	-	-	-	-	-	-	-	-	-	11:00	11:00	11:00	09:00	11:00
PM Peak Vol.	-	-	-	-	-	-	-	-	-	-	-	16:00	17:00	12:00	12:00	16:00
	-	-	-	-	-	-	-	-	-	-	-	107	85	112	101	126
	-	-	-	-	-	-	-	-	-	-	-	1564	2280	1905	2300	1052

Hanover Engineering
 252 Broadhead Road, Suite 100
 Bethlehem, PA 18017
Blue Church Road S (Southern Location)

Site Code: Southern Blue Church
 Station ID:

Latitude: 0' 0.0000 Undefined

Start Time	10-Oct-16		Tue		Wed		Thu		Fri		Sat		Sun		Week Average	
	Northbound	Southbound	Northbound	Southbound												
12:00 AM	8	10	7	3	6	6	11	11	5	3	15	7	10	9	9	7
01:00	1	4	4	2	4	4	2	2	3	1	8	7	7	5	4	3
02:00	0	3	4	4	3	3	4	1	2	3	7	1	3	2	3	2
03:00	1	6	1	7	1	6	1	7	1	3	1	2	0	2	1	5
04:00	4	4	3	6	4	8	8	8	2	7	5	4	1	2	4	6
05:00	16	26	12	43	11	36	8	32	7	36	5	5	4	3	9	26
06:00	52	75	49	76	46	84	49	72	48	69	20	17	10	10	39	58
07:00	114	100	156	131	161	129	153	125	148	121	48	37	22	29	115	96
08:00	101	79	110	88	131	89	119	89	112	95	77	58	33	49	78	78
09:00	62	57	79	61	81	55	57	57	67	62	63	59	79	66	70	60
10:00	75	65	57	53	55	51	69	53	66	41	93	76	81	71	61	61
11:00	60	57	80	55	57	57	58	49	61	54	101	94	108	86	75	65
12:00 PM	92	65	78	69	58	68	63	66	62	82	88	113	123	117	81	83
01:00	81	70	82	83	71	66	63	69	83	79	99	93	111	106	84	81
02:00	101	86	99	93	79	99	110	75	89	98	106	90	160	134	106	96
03:00	129	89	160	100	154	103	150	103	154	101	106	96	116	106	138	100
04:00	184	100	214	109	180	104	179	125	169	140	97	90	125	144	164	116
05:00	182	142	231	121	219	140	234	161	219	173	90	76	70	80	178	128
06:00	136	104	131	123	140	122	110	99	127	140	89	65	55	74	113	104
07:00	67	69	67	72	71	59	64	65	104	59	77	69	62	55	73	64
08:00	52	63	34	45	41	41	43	64	67	56	38	37	46	46	50	50
09:00	23	25	42	38	21	29	37	26	33	37	55	33	22	22	33	30
10:00	19	20	16	14	17	20	16	10	25	25	27	28	8	16	18	19
11:00	15	6	9	4	11	6	18	10	13	11	14	14	8	6	13	8
Lane	1575	1325	1725	1400	1652	1381	1626	1379	1667	1496	1329	1171	1264	1254	1549	1346
Day	2900	3125	3033	3005	3163	2500	2895	2518	2895	2518	2895	2518	2895	2518	2895	2518
AM Peak	07:00	07:00	07:00	07:00	07:00	07:00	07:00	07:00	07:00	07:00	11:00	11:00	11:00	11:00	07:00	07:00
Vol.	114	100	156	131	161	129	153	125	148	121	101	94	108	86	115	96
PM Peak	16:00	17:00	17:00	18:00	17:00	17:00	17:00	17:00	17:00	17:00	14:00	12:00	14:00	16:00	17:00	17:00
Vol.	184	142	231	123	219	140	234	161	219	173	106	113	160	144	178	128

Blue Church Road South (T-406) Truck Restriction Study
Upper Saucon Township, Lehigh County

APPENDIX C

PennDOT Publication 212 Excerpts
Title 75 PA C.S. 3363

§ 212.117. Weight, size and load restrictions.

(a) *Weight restriction based on condition of bridge.* Traffic on a bridge may be prohibited or restricted by weight of vehicle, number of vehicles, or kinds or classes of vehicles when an engineering evaluation conducted by a professional engineer establishes the need. Engineering evaluation of a bridge or bridge component may be based on structural analysis and rating computations, testing, engineering judgment or a combination thereof. Restriction is warranted when one or more of the following conditions are present:

(1) The safe load capacity of the bridge is exceeded by the load effect of any of the legal load configurations. The capacity and load effects are to be determined in accordance with the *Bridge Safety Inspection Manual* (Department Publication 238).

(2) Engineering judgment indicates that the condition or material of construction of one or more portions or components of a bridge is such that further use by heavy vehicles may damage the bridge because of severe impact, fatigue or other reasons.

(3) The bridge is damaged due to fire, a vehicle crash or environmental deterioration, and engineering judgment indicates that a vehicle weight restriction is necessary to ensure an adequate level of safety.

(b) *Weight restriction based on condition of highway.* Traffic on a highway may be prohibited or restricted by weight of vehicle, or kinds or classes of vehicles when warranted by an engineering evaluation. Engineering evaluation may be based on structural analysis, testing, engineering judgment or a combination thereof. A restriction is warranted when one or more of the following conditions are present:

(1) The highway pavement or shoulders have inadequate structural capacity or have been weakened due to deterioration, high traffic volumes or climatic condition, and may be seriously damaged unless a restriction is imposed.

(2) An engineering evaluation of previous similar climatic conditions on the highway or on similar highways indicates that vehicles over a certain weight should have been prohibited.

(c) *Size restriction based on condition of bridge or highway.* Traffic on a bridge or highway may be restricted by size of vehicle or kinds or classes of vehicles when, after an engineering evaluation, one or more of the following conditions are found to be present:

Blue Church Road South (T-406) Truck Restriction Study
Upper Saucon Township, Lehigh County

(1) A bridge has poor alignment, substandard horizontal or vertical clearance, or creates problems for vehicles with low ground clearance, or the restriction is otherwise necessary to protect the bridge from vehicle crashes or damage.

(2) A highway has inadequate turning radii, horizontal width or creates concerns for vehicles with low ground clearance at one or more locations.

(d) *Weight and size restrictions based on traffic conditions.* Traffic on a highway or bridge may be prohibited or restricted by weight or size of vehicle, or kinds or classes of vehicles when, an engineering evaluation of the horizontal and vertical alignment, prevailing traffic speeds, compatibility of the various types of traffic, history of vehicle crashes or vehicular characteristics, indicates that the movement of certain vehicles constitutes a safety hazard. Restrictions may include weight; height, width or length of vehicles or their loads; types of cargo; speed or gearing; stopping requirements; specified travel lanes; and hours of operation.

(e) *Erection of signs.* Appropriate signs shall be erected within 25 feet of each end of a restricted portion of a highway or bridge whenever vehicles are prohibited under subsection (a), (b), (c) or (d). In the case of a restriction on a highway or bridge which does not begin or end at an intersection with an unrestricted highway, an advance information sign shall also be erected at the intersection nearest each end of the restricted highway or bridge to allow drivers to avoid the restricted highway or bridge.

(f) *Alternate routes.* An alternate route shall be established whenever vehicles are prohibited under subsection (a) or (b) on either a numbered traffic route or a State-designated highway on the National Highway System, as established by the Federal Highway Administration, when the following apply:

(1) A reasonable alternate route exists which is not readily perceived by drivers.

(2) The alternate route can legally, safely, structurally and physically accommodate the weight and size of vehicles and their loads that are being detoured.

(3) Five or more vehicles per day are estimated to be prohibited from using the original route.