

**NOTICE OF INTENT TO ENACT ORDINANCE
BETHEL TOWNSHIP
LEBANON COUNTY, PENNSYLVANIA
PROPOSED ORDINANCE NO. 041124**

NOTICE IS HEREBY GIVEN by the Board of Supervisors of the Township of Bethel, County of Lebanon, and Commonwealth of Pennsylvania, that it shall consider proposed Ordinance No. 041124 at its regularly scheduled meeting on Thursday, April 11, 2024 and, following consideration at that meeting or at a subsequent public meeting held within 60 days of the date of publication of this notice, may enact an ordinance the title of which is as follows:

AN ORDINANCE OF THE TOWNSHIP OF BETHEL, LEBANON COUNTY, PENNSYLVANIA, AMENDING CHAPTER 15, PART 2 TRAFFIC REGULATIONS, OF THE TOWNSHIP OF BETHEL CODE OF ORDINANCES, BY ADDING §15-215 MULTI-WAY STOP INTERSECTION TO REGULATE TRAFFIC AT THE INTERSECTION OF CAMP STRAUSE ROAD (T-607) AND MOUNTAIN DRIVE AND TO PROVIDE FOR SIGNAGE THEREFOR.

A brief summary of the proposed ordinance is as follows. **Section 1** Provides for multiple stop signs to be erected and stop bars to be placed at the intersection of Mountain Drive and Camp Strause Road. This section also provides for penalties for violation. **Section 2** adds engineering traffic studies as exhibits. **Section 3** provides an effective date.

Copies of Proposed Ordinance No. 041124 may be examined without charge or may be obtained for cost thereof at the Bethel Township Municipal Building, 3015 South Pine Grove Street, Fredericksburg, PA, between the hours of 8:00 a.m. and 4:00 p.m. Monday through Wednesday and 7:00 a.m. and 3:00 p.m. Thursdays and Fridays, prevailing time, excluding holidays. A copy may also be viewed on the Bethel Township website at betheltwplebanon.gov.

It is anticipated that final action will be taken on this proposed ordinance at the regular meeting of the Board of Supervisors scheduled for Thursday, April 11, 2024, at 7:00 p.m., prevailing time, at the Bethel Township Municipal Building, 3015 South Pine Grove Street, Fredericksburg, PA.

By order of the Board of Supervisors, Bethel Township, Lebanon County, Pennsylvania.

Richard Rudy
Chairman

Please publish on or before April 1, 2024, IN THE LEBANON DAILY NEWS.

Send bill and proofs of publication to Board of Supervisors, Bethel Township, 3015 South Pine Grove Street, Fredericksburg, PA, 17026.

BETHEL TOWNSHIP
LEBANON COUNTY, PENNSYLVANIA

ORDINANCE NO. 041124

AN ORDINANCE OF THE TOWNSHIP OF BETHEL, LEBANON COUNTY, PENNSYLVANIA, AMENDING CHAPTER 15, PART 2 TRAFFIC REGULATIONS, OF THE TOWNSHIP OF BETHEL CODE OF ORDINANCES, BY ADDING §15-215 MULTI-WAY STOP INTERSECTION TO REGULATE TRAFFIC AT THE INTERSECTION OF CAMP STRAUSE ROAD (T-607) AND MOUNTAIN DRIVE AND TO PROVIDE FOR SIGNAGE THEREFOR.

BE IT AND IT IS HEREBY ORDAINED AND ENACTED by the Board of Supervisors of the Township of Bethel, Lebanon County, Pennsylvania, as follows:

Section 1. Chapter 15, Part 2 of the Township of Bethel Code of Ordinances is amended by adding §15-215 Multi-Way Stop Intersection, which shall read in its entirety as follows.

§15-215. Multi-Way Stop Intersection

1. The intersection of Camp Strause Road (T-607) and Mountain Drive (T-553) is an unusually configured intersection. Official stop signs shall be erected and stop bars shall be placed at this intersection as the same are shown on the “Mountain Dr. and Camp Strauss Road Stop Sign Exhibit” prepared by Mack Engineering, Inc., a copy of which is attached to this Part as Exhibit 15-2-B.

2. Any person who violates any provision of this Section shall, upon conviction, be sentenced to pay a fine of \$25 and costs.

Section 2. The “Bethel Twp. Intersection Evaluation Mountain Drive and Camp Strauss Road” (Rettew Project No. 127412001) letter dated September 14, 2023, and the “Bethel Twp. Intersection Sight Distance Evaluation Mountain Drive and Camp Strause Road” (Rettew Project N. 127412001) letter dated October 31, 2023, shall be attached to this Part 2 as Exhibits 15-2-C and 15-2-D respectively.

Section 3. This Ordinance shall become effective five (5) days after enactment.

DULY ENACTED AND ORDAINED this _____ day of _____, 2024, by the Board of Supervisors of the Township of Bethel, Lebanon County, Pennsylvania, in lawful session duly assembled.

**BOARD OF SUPERVISORS
BETHEL TOWNSHIP
LEBANON COUNTY, PENNSYLVANIA**

Chairperson

Supervisor

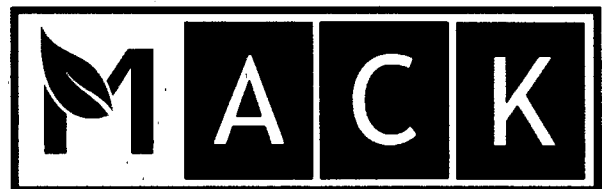
Supervisor

ATTEST:

Secretary



Mountain Dr. and Camp Strauss Road Stop Sign Exhibit
Bethel Township, Lebanon County, PA



Engineering Inc.

CIVIL ENGINEERS, LAND PLANNERS & MUNICIPAL ENGINEERING SERVICES

Not To Scale

Date: 1/8/2023

Exhibit 15-2-B



We answer to you.

3020 Columbia Avenue, Lancaster, PA 17603 • Phone: (800) 738-8395
E-mail: rettetw@rettetw.com • Website: rettetw.com

September 14, 2023

Matthew J. Mack, PE LEED AP
Mack Engineering Inc.
429 Barbara Street
Landisville, PA 17538.

Engineers
Environmental
Consultants
Surveyors
Landscape
Architects
Safety
Consultants

RE: Bethel Twp Intersection Evaluation
Mountain Drive and Camp Strauss Road
Bethel Township, Lebanon County
RETTEW Project No. 127412001

Dear Mr. Mack:

In response to your request, RETTEW Associates, Inc. has conducted the necessary data collection and analyses to evaluate the intersection of Mountain Drive and Camp Straus Road. It is our understanding that the Township is concerned with the configuration of the intersection and is looking for guidance regarding additional signage at this intersection.

EXISTING CONDITIONS

1. The intersection of Mountain Drive and Camp Strauss Road is unusually configured with Mountain Drive/Camp Strauss Road as the major road with ROW through the intersection. Mountain Drive (minor road approach) is STOP controlled at the intersection with the major road approaches.
2. Mountain Drive is a two-way, two-lane local road with a posted speed limit of 40 mph to the south of the intersection and 35 mph to the east of the intersection. Mountain Drive is a north/south road on the south leg of the intersection and an east/west road on the east leg of the intersection. Mountain Drive has a rolling terrain and several curves to the south and east of the intersection. A STOP Ahead sign is located prior to the intersection.
3. Camp Strauss Road is a two-way, two-lane local road with a posted speed limit of 40 mph to the north of the intersection. Camp Strauss Road is a north/south road approaching the intersection. Camp Strauss Road has a rolling terrain and several curves to the north of the intersection.
4. Manual turning movement traffic counts were conducted on August 15, 2023, at the intersection of Mountain Road and Camp Strauss Road from 6:00 AM to 9:00 AM and from 4:00 PM to 6:00 PM. The counts indicate very low volume on all approaches (under 30 vehicles). From the traffic counts it appears that the predominant movements are as follows:

Morning Peak

- Southbound on Camp Strass Road/Mountain Drive
- Southbound left turn from Camp Strauss Road to Mountain Drive.

Evening Peak

- Southbound left turn from Camp Strauss Road to Mountain Drive
- Westbound right turn from Mountain Drive to Camp Strauss Road
- Northbound from Mountain Drive to Camp Strauss Road.

5. A field visit was made to observe traffic on Saturday August 5, 2023 and Thursday September 14, 2023 to observe traffic operations. This field visit did not include sight distance measurements.

OBSERVATIONS

Based on our site visits we have the following observations:

- Vehicles traveling from Camp Strauss Road to Mountain Drive conflict with vehicles traveling from westbound Mountain Drive to southbound Mountain Drive. Both approaches appear to have limited sight distance.
- Traffic stopped on Mountain Drive to turn left onto Mountain Drive appears to have limited sight distance to vehicles approaching from the left.

CONCLUSIONS

Based on the traffic count data we collected on August 15, 2023, at the intersection of Mountain Road and Camp Strauss Road, it was determined that there is light traffic at the intersection. However, based on the field observations, several of the approaches appear to have limited sight distance.

The intersection warrants additional study to determine the appropriate intersection redesign. The following two configurations could be explored.

- 1) The removal of the island to create a more traditional T-intersection eliminating the southbound left westbound left conflict.
- 2) The installation of a compact traffic circle which would eliminate all conflicts. The intersection grades may not allow for this design.

It is our understanding that the Township is looking for a low cost but effective solution to prevent potential crashes at this location. We recommend a multi-way STOP control at the intersection including placing a STOP sign on southbound Camp Strauss Road and northbound Mountain Drive. A formal sight distance evaluation should be completed to support the installation of the Multi-way STOP.

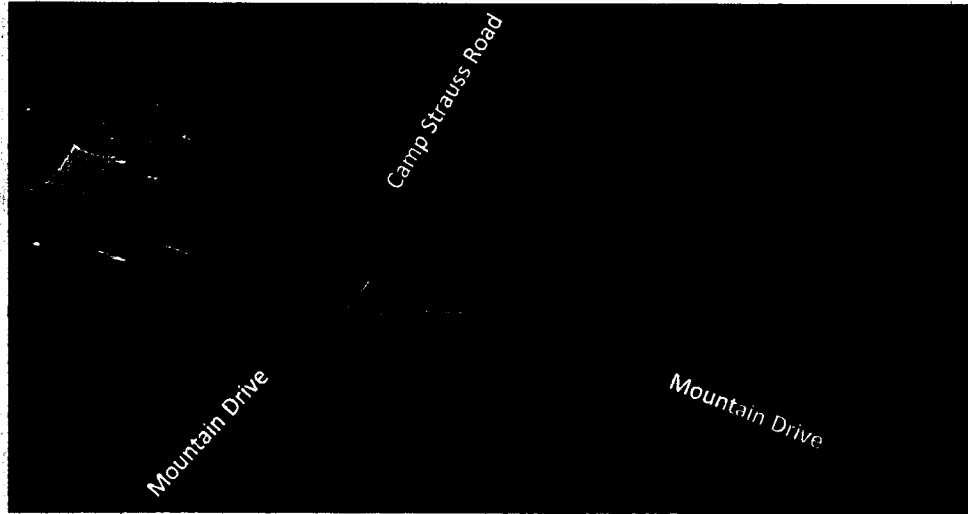
Should you have any questions regarding the information provided in this letter or wish to discuss the next steps, please call me at (484) 654-2005. We at RETTEW stand ready to help with you with subsequent phases of this project.

Sincerely,



Susan C. Phillips PE, AICP
Project Manager

Enclosure



Intersection:
Mountain Drive and Camp Strauss
Road



Mountain Drive looking West
toward the intersection with
Camp Strass Road.

STOP Ahead sign

Posted speed on Mountain Drive
Road 35 mph



Mountain Drive looking West
toward the intersection with
Camp Strass Road.

STOP signs located on both
approaches.



Mountain Drive at Camp Strauss Road existing stop signs on both approaches.



Looking left on Mountain Drive from Mountain Drive/Camp Strauss Road.



Mountain Drive approaching the intersection with Camp Strass Road.

TRI-ST TE

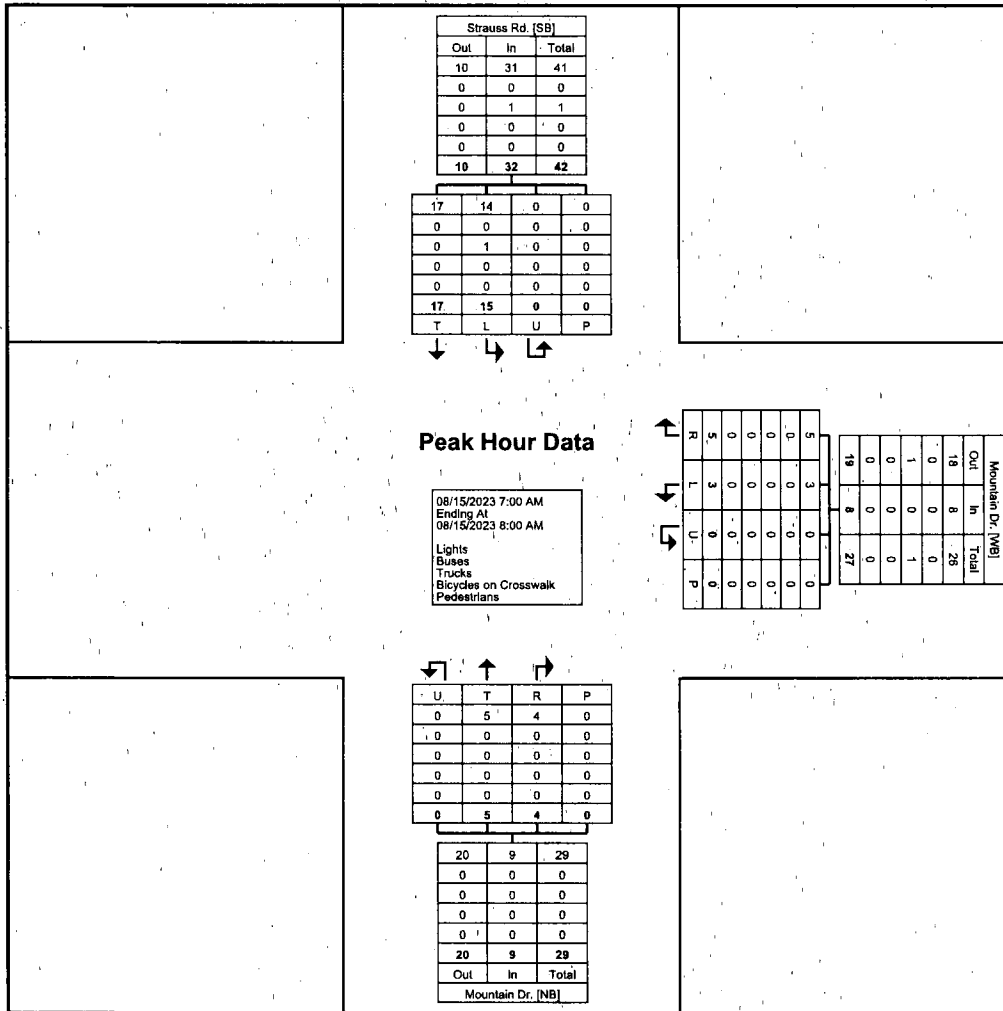
TRAFFIC DATA

www.TSTData.com
184 Baker Rd

Coatesville, Pennsylvania, United States 19320
610-466-1469
Serving Transportation Professionals Since 1995

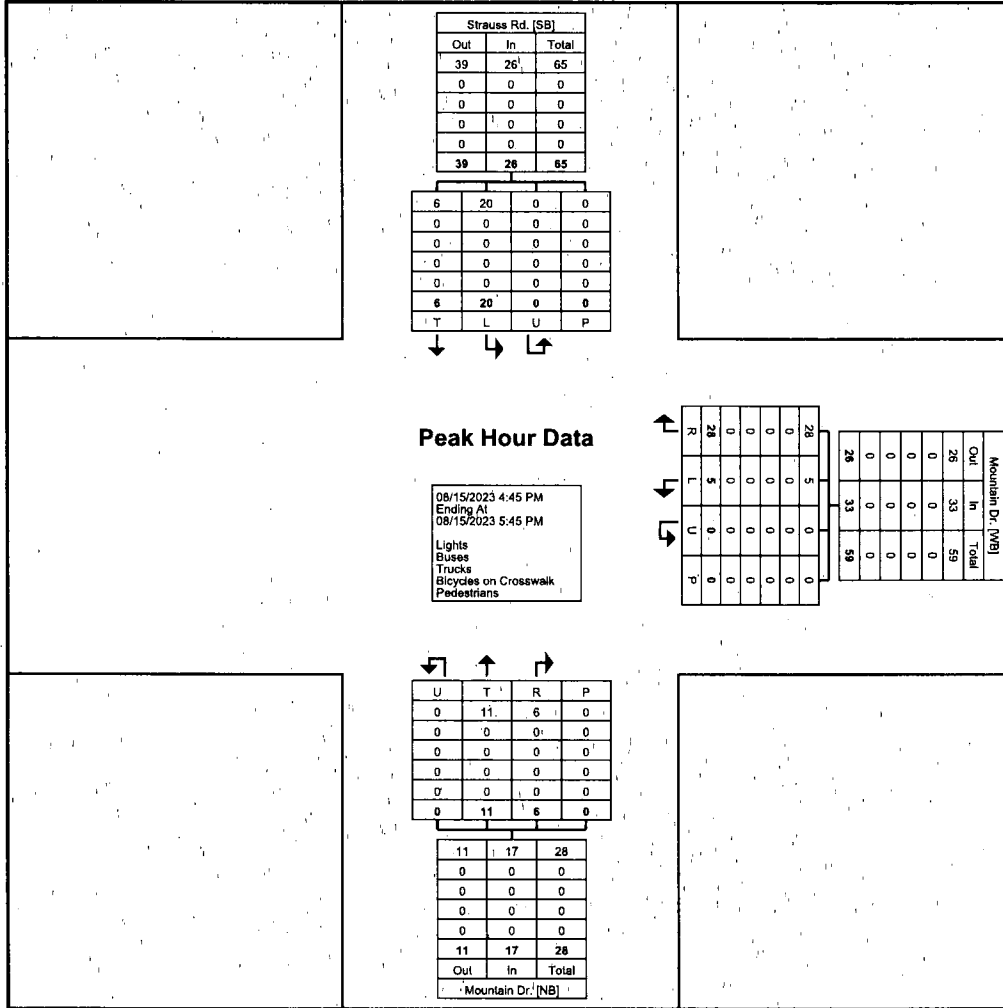
Count Name: Mountain Dr. & Strauss Rd
Strauss Rd
Site Code:
Start Date: 08/15/2023
Page No: 4

Lebanon County, PA
Mountain Dr & Strauss Rd
Tuesday, August 15, 2023
Location: 40.467295, -
76.468575



Turning Movement Peak Hour Data Plot (7:00 AM)

Lebanon County, PA
Mountain Dr & Strauss Rd
Tuesday, August 15, 2023
Location: 40.467295, -
76.468575



Turning Movement Peak Hour Data Plot (4:45 PM)



We answer to you.

3020 Columbia Avenue, Lancaster, PA 17603 • Phone: (800) 738-8395
 E-mail: rettetw@rettetw.com • Website: rettetw.com

Engineers
 Environmental
 Consultants
 Surveyors
 Landscape
 Architects
 Safety
 Consultants

October 31, 2023

Matthew J. Mack, PE LEED AP
 Mack Engineering Inc.
 429 Barbara Street
 Landisville, PA 17538.

RE: Bethel Twp Intersection Sight Distance Evaluation
 Mountain Drive and Camp Strause Road
 Bethel Township, Lebanon County
 RETTEW Project No. 127412001

Dear Mr. Mack:

Following up on our decision to install a multi-way STOP control at the intersection of Mountain Drive and Camp Strause Road, RETTEW conducted a detailed sight distance evaluation of the intersection.

The evaluation confirmed our theories that a multi way stop installation is justified and will not create additional safety issues. The current configuration has limited sight distance to vehicles within the intersection from vehicles approaching from the north on Camp Strause Road.

The sight distance for vehicles stopped on Mountain Drive to turn left onto Mountain Drive meets the minimum sight distance requirements but falls short of the AASHTO intersection sight distance standards. The sight distance evaluation shows that adequate sight distance exists to the rear of vehicles stopped on Mountain Drive and/or Camp Strause Road at the proposed STOP sign locations.

The sight distance analysis was performed in accordance with the intersection sight distance criteria for Case A and Case B contained in Section 2.17 of PennDOT's Design Manual, Part 2, as well as Chapter 9 of the 2011 AASHTO Green Book. The following table shows the intersection and measured (existing) sight distances for the intersection.

Table - Safe Stopping Sight Distance Summary

STOP Approach on Left								
Speed Limit	Condition "A" To the Left				Condition "A" To the Right			
	Sight Distances (feet)				Sight Distances (feet)			
	Grade (%)	Field Measured	Minimum	AASHTO	Grade (%)	Field Measured	Minimum	AASHTO
40 mph	+9.67%	389'	277'	441'	-6.03%	948'	360'	383'
Speed Limit	To the Rear of a Stopped Vehicle				From a Stopped Vehicle to Oncoming Left			
	Sight Distances (feet)				Sight Distances (feet)			
	Grade (%)	Field Measured	Minimum	AASHTO	Grade (%)	Field Measured	Minimum	AASHTO
40 mph	+9.67%	559'	277'	305'	+9.67%	995'	277'	305'

STOP Approach on Right								
Speed Limit	Condition "A" to the Left				Condition "A" to the Right			
	Sight Distances (feet)				Sight Distances (feet)			
	Grade (%)	Field Measured	Minimum	AASHTO	Grade (%)	Field Measured	Minimum	AASHTO
40 mph	+8.52%	388'	280'	441'	-6.35%	348'	360'	383'
Speed Limit	To the Rear of a Stopped Vehicle				From a Stopped Vehicle to Oncoming Left			
	Sight Distances (feet)				Sight Distances (feet)			
	Grade (%)	Field Measured	Minimum	AASHTO	Grade (%)	Field Measured	Minimum	AASHTO
40 mph	+9.67%	559'	277'	305'	-6.35%	821'	360'	305'

Northbound Mountain Drive					Southbound Camp Strause Road			
Speed Limit	To the Rear of a Stopped Vehicle				To the Rear of a Stopped Vehicle			
	Sight Distances (feet)				Sight Distances (feet)			
	Grade (%)	Field Measured	Minimum	AASHTO	Grade (%)	Field Measured	Minimum	AASHTO
40 mph	+9.67%	559'	277'	305'	-6.35%	821'	360'	305'
To a Vehicle in Y on Mountain Drive from Left					To a Vehicle in Y on Mountain Drive from Right			
35 mph	+2%	383'	242'	441'	+1.0%	161'	379'	305'

Should you have any questions regarding the information provided in this letter or wish to discuss the next steps, please call me at (484) 654-2005. We at RETTEW stand ready to help with you with subsequent phases of this project.

Sincerely,



Susan C. Phillips PE, AICP
 Project Manager

Enclosure

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