

East Goshen Township
Chester County, PA

RESOLUTION 2017-164

BE IT RESOLVED, by authority of the Board of Supervisors of East Goshen Township, County, and it is hereby resolved by authority of the same, that the East Goshen Township Manager is authorized and directed to sign the attached Agreement on its behalf.

ATTEST:

East Goshen Township



Township Secretary

By: 

Chairman

I, Louis F. Smith, Jr, Township Secretary, of the Board of Supervisors of East Goshen Township, do hereby certify that the foregoing is a true and correct copy of the Resolution adopted at a regular meeting of the Board of Supervisors, held the 18th day of July 2017.

DATE: 7-18-17



Township Secretary

Re: Paoli Pike and Hibberd Lane

Application for Traffic Signal Approval



Please Type or Print all information in Blue or Black Ink

County : _____
Engineering District : _____
Department Tracking # : _____
Initial Submission Date : _____

A - Applicant's (Municipal) Contact Information

Municipal Contact's Name : Louis Smith Title : Township Manager
Municipal Name : East Goshen Township
Municipal Address : 1580 Paoli Pike, West Chester, PA 19380-6199
Municipal Phone Number : 610-692-7171 Alternative Phone Number : _____
E-mail Address : rsmith@eastgoshen.org
Municipal Hours of Operation : Monday – Friday from 8:00 AM to 5:00 PM

B - Application Description

Location (*intersection*) : Paoli Pike (SR 2014) and Hibberd Lane/Township Park Road
Traffic Control Device is : NEW Traffic Signal EXISTING Traffic Signal (Permit Number) : W-6627-52
Type of Device (*select one*) Traffic Control Signal (MUTCD Section 4D, 4E, 4G) Flashing Beacon (MUTCD Section 4L) School Warning System (MUTCD Section 7B)
 Other : _____
Is Traffic Signal part of a system? : YES NO System Number (*if applicable*) : I-0164
If YES, provide locations of all signalized intersections in system.
Paoli Pike (SR 2014) & Airport Road/School Driveway; Paoli Pike (SR 2014) & Ellis Lane; Paoli Pike (SR 2014) & Reservoir Road; Paoli Pike (SR 2014) & Boot Road (SR 2020); Paoli Pike (SR 2014) & Goshen Village Shopping Center; Paoli Pike (SR 2014) & North Chester Road (SR 0352); Paoli Pike (SR 2014) & Hibberd Lane/Township Park Road
Explain the proposed improvements :
Installation of multi-use trail and ADA curb ramps on the northeast, northwest and southeast corners (Hibberd Lane/Township Park Road east- west). Installation of Accessible Pedestrian Signals and Passive Pedestrian Detection for crossing Paoli Pike.
Associated with Highway Occupancy Permit (HOP)? : YES NO If YES, HOP Application # : 134747

C - Maintenance and Operation Information

Maintenance and Operations are typically performed by? :
 Municipal Personnel Municipal Contractor Municipal Personnel & Contractor
 Other : _____
Maintenance and Operations Contact Name : HIGGIN S Company/Organization : _____
Phone # : 610 566 3706 Alternative Phone # : _____ E-mail : _____

D - Attachments Listing

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> Municipal Resolution (<i>required</i>) | <input type="checkbox"/> Location Map | <input type="checkbox"/> Traffic Volumes / Pedestrian Volumes |
| <input type="checkbox"/> Letter of Financial Commitment | <input type="checkbox"/> Photographs | <input type="checkbox"/> Turn Lane Analysis |
| <input type="checkbox"/> Traffic Signal Permit | <input type="checkbox"/> Straight Line Diagram | <input type="checkbox"/> Turn Restriction Studies |
| <input type="checkbox"/> Warrant Analysis | <input type="checkbox"/> Capacity Analysis | <input type="checkbox"/> Other : _____ |
| <input type="checkbox"/> Crash Analysis | <input type="checkbox"/> Traffic Impact Study (TIS) | |
| <input type="checkbox"/> Traffic Signal Study | <input type="checkbox"/> Condition Diagram | |

Application for Traffic Signal Approval



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County : _____
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Initial Submission Date : _____

E - Applicant (Municipal) Certification

The applicant desires to own, operate, and maintain the traffic control device in the location indicated above; and the Vehicle Code requires the approval of the Department of Transportation ("Department") before any traffic signals may be legally erected or modified. A signed Application for Traffic Signal Approval (TE-160) must be submitted in conformance with the instructions provided by the Department, and a Traffic Signal Permit must be issued, before any work can begin.

If the Department approves a traffic signal after a traffic engineering study and engineering judgment indicates the need, the traffic signal shall be installed, owned, operated, and maintained within the parameters indicated in the Vehicle Code and the Department's regulations relating to traffic signs, signals, and markings. The Department may direct appropriate alterations to the design or operation (including, but not limited to, hours of operation) of the traffic signal, or require removal of the traffic signal, if traffic conditions or other considerations necessitate alteration or removal.

All items associated with the traffic control device (geometric features, signs, signals, pavement markings, pedestrian accommodations, and other traffic control device associated items) are the applicant's responsibility. The Traffic Signal Permit will then document all of the items associated with operation of each traffic control device. The applicant, at its sole expense, shall provide the necessary inspection, maintenance, and operation activities in conformance with the Department's Publication 191 or as otherwise agreed to by the Department. The applicant shall perform the preventative and responsive maintenance requirements and recordkeeping in accordance with the exhibits specified below. If the applicant fails to provide the required inspection, maintenance, or operation services within thirty (30) days of receipt of written notice from the Department, the Department shall have the right to perform the required inspection, maintenance, or operation services in the applicant's stead and the applicant shall reimburse the Department for all costs incurred. Federal- and/or state-aid participation may be withheld on all future projects if the applicant fails to demonstrate to the Department the ability to provide all required maintenance and operation services. The applicant certifies that it has funds available and committed for the operation and maintenance of the traffic control device and that it will make available sufficient funds for all required future inspection, maintenance, and operation activities.

The applicant shall indemnify, save harmless and, defend (if requested) the Commonwealth of Pennsylvania, its agents, representatives, and employees from and against any damages recoverable under the Sovereign Immunity Act, 42 Pa. C.S. §§ 8521-8528, up to the limitations on damages under said law, arising out of any personal injury or damage to property which is finally determined by a court to be caused by or result from acts or omissions of the applicant and for which a court has held applicant, its officials, or employees to be liable. This provision shall not be construed to limit the applicant in asserting any rights or defenses. Additionally, the applicant shall include in any contracts into which it enters for maintenance, operation, or inspection of the traffic control device this same obligation to indemnify the Commonwealth and its officers, agents, and employees; and it shall require its contractor(s) to provide public liability insurance coverage, naming the Commonwealth and the applicant as additional insureds for bodily injury, including death and property damage, in the minimum amounts of \$500,000 per person, \$1,000,000 per occurrence, it being the intention of parties to have the contractor fully insure and indemnify the Commonwealth and the applicant.

The applicant shall comply with the study and ordinance requirements of 75 Pa. C.S. § 6109. The applicant submits this application with the intention of being legally bound.

Neither this application nor any Traffic Signal Permit creates any rights or obligations with respect to parties other than the applicant and the Department. Third parties may not rely upon any representations made by either the applicant or the Department in connection with the submission or approval of this application or any work permitted or approved that is related to this application, as regards either payment of funds or performance of any particular item of maintenance precisely as specified.

The applicant agrees to comply with the attached Exhibits:

- Exhibit "A": Preventative and Response Maintenance Requirements (Sheet 3 of 5)
- Exhibit "B": Recordkeeping (Sheet 4 of 5)
- Exhibit "C": Signal Maintenance Organization (Sheet 5 of 5)

Printed Municipal Contact Name : Louis Smith

Date : 7-18-17

Signed By : [Signature]

Witness or Attest : [Signature]

Title of Signatory : TOWNSHIP MANAGER

Title of Witness or Attester : TWP ZONING OFFICER

Exhibit "A":
Preventative and Response Maintenance
Requirements



County : _____
 Engineering District : _____
 Department Tracking # : _____
 Initial Submission Date : _____

Preventive Maintenance

The APPLICANT or its contractor will provide preventive maintenance for each individual component of the traffic signal installation covered by this application at intervals not less than those indicated in the Preventive Maintenance Summary, PA DOT Publication 191, current version. This is the recommended level of maintenance to keep the intersection control equipment and signals in mechanically, structurally and aesthetically good condition.

Response Maintenance

The APPLICANT or its contractor will provide response maintenance in accordance with the provisions of the Response Maintenance Schedule. It encompasses the work necessary to restore a traffic signal system to proper and safe operation. Includes Emergency Repair and Final Repair.

FINAL REPAIR:

Repair or replace failed equipment to restore system to proper and safe operation in accordance with permit within a 24-hour period.

EMERGENCY REPAIR:

Use alternative means or mode to temporarily restore system to safe operation within a 24-hour period. Final repair must then be completed within 30 days unless prohibited by weather conditions or availability of equipment.

Response Maintenance Schedule

KNOCKDOWNS

- Support - Mast arm
- Support - Strain pole
- Span wire/tether wire
- Pedestal
- Cabinet
- Signal heads

TYPE OF REPAIR PERMITTED

- Emergency or Final
- Emergency or Final
- Final Only
- Emergency or Final
- Emergency or Final
- Final Only

EQUIPMENT FAILURE

- Lamp burnout (veh. & ped.)
- Local controller
- Master controller
- Detector sensor
 - Loop
 - Magnetometer
 - Sonic
 - Magnetic
 - Pushbutton
- Detector amplifier
- Conflict monitor
- Flasher
- Time clock
- Load switch/relay
- Coordination unit
- Communication interface, mode
- Signal cable
- Traffic Signal Communications
- Traffic Signal Systems

- Final Only
- Emergency or Final
- Emergency or Final
- Emergency or Final
- Emergency or Final
- Emergency or Final
- Emergency or Final
- Emergency or Final
- Emergency or Final
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- Final Only
- Final Only

**Exhibit "B":
Recordkeeping**

County : _____
 Engineering District : _____
 Department Tracking # : _____
 Initial Submission Date : _____

Recordkeeping

Accurate and up-to-date recordkeeping is an essential component of a good traffic signal maintenance program. In recognition of this fact, the APPLICANT must prepare, retain, and make available to the COMMONWEALTH, on request, a record of all preventive and response maintenance activities performed on the traffic signal equipment covered by this application.

The APPLICANT shall establish a separate file for each installation and keep its records in the municipal building, signal maintenance shop, or other weather-protected enclosure.

At a minimum, the following records will be kept by the APPLICANT or its contractor for each traffic signal. These forms can be found in Section 10.0, Maintenance Record Forms, PA DOT Publication 191, current version.

FORM 1 - Master Intersection Record

This form, which lists all maintenance functions performed at the intersection, should be updated within one day of the activity but no more than one week later.

FORM 2 - Response Maintenance Record

Each time response maintenance is required at the intersection, this form is to be completed. Once the pertinent information is transferred to the master intersection record, this form is to be placed in the intersection file.

FORM 3 - Preventive Maintenance Record

This form will be used to provide a record of the preventive maintenance activities performed at each intersection. The date, the activities performed, and the signature of the person in charge of the work must be recorded in the form.

This form may be kept at the intersection, if it is adequately protected from the weather. Form 1 must be updated at the central file, however, to reflect the date and activity.

**Exhibit "C":
Signal Maintenance Organization**
 County : _____
 Engineering District : _____
 Department Tracking # : _____
 Initial Submission Date : _____
Personnel Classifications

In order to properly maintain the traffic signal equipment covered by this applicant, the APPLICANT agrees to provide, as minimum, the following staff throughout the useful life of equipment. The APPLICANT agrees to abide by all guidance provided in PA DOT Publication 191.

Traffic Engineer - The administrative position which has prime responsibility for the proper operation of traffic signal equipment. The principal function of this position is the supervision and control of subordinate personnel and the planning of their activities to ensure adequate preventive and response maintenance programs.

Minimum Position Requirements

1. A thorough understanding of traffic signal design, installation and maintenance.
2. A working knowledge of the interaction between the following traffic characteristics: Intersection geometry, traffic flow theory, control type (fixed time, actuated, etc.), signal phasing and timing, and interconnection.
3. An ability to supervise subordinate personnel effectively in the assignment of their work.
4. Possession of a college degree in engineering, which includes course work in traffic engineering.
5. Either four years experience in the field of traffic engineering or its equivalent in graduate college work.

Signal Specialist - The individual responsible for the diagnostics and repair of all traffic signal equipment including solid state equipment.

Minimum Position Requirements

1. Extensive training and troubleshooting skills in electronics and software.
2. Ability to repair modules in the shop and to design test equipment needed to diagnose and repair a problem.
3. Ability to make design and modifications to implement or omit special functions.
4. Ability to implement a recordkeeping system to include maintenance activities, inventory control and identification of recurring problems.
5. Ability to perform all tasks required of a signal technician.

Signal Technician - Individual responsible for the operation and maintenance of traffic signals and electromechanical equipment.

Minimum Position Requirements

1. Ability to perform response maintenance on solid state equipment up to the device exchange level.
2. Capability to diagnose a vehicle loop failure and initiate corrective action.
3. Ability to tune detector amplifiers.
4. Ability to follow wiring schematics, check and set timings from plan sheet and check all field connections.
5. Ability to perform preventive maintenance on all equipment and to maintain accurate records of all work perform.

Training

The APPLICANT agrees to secure training in order to upgrade the ability of its present staff to properly perform the required maintenance functions. The APPLICANT agrees to abide by all guidance provided in PA DOT Publication 191.

Budget Requirements

The APPLICANT agrees to provide, in its annual operating budget, dedicated funds which are sufficient to cover the cost of the personnel, training, contractors (if utilized) and specialized maintenance equipment which are required, by virtue of this application. The APPLICANT agrees to abide by all guidance provided in PA DOT Publication 191..