

DEPARTMENT OF HOMELAND SECURITY  
 FEDERAL EMERGENCY MANAGEMENT AGENCY  
**ENVIRONMENTAL AND HISTORIC PRESERVATION SCREENING FORM**

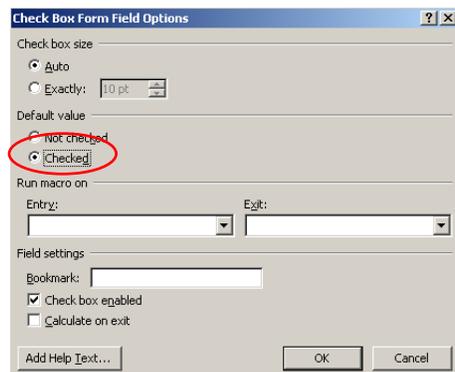
**Paperwork Burden Disclosure Notice**

*Public reporting burden for this form is estimated to average 8 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and submitting the form. You are not required to respond to this collection of information unless it displays a valid OMB control number. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing the burden to: Information Collections Management, Department of Homeland Security, Federal Emergency Management Agency, 500 C Street, SW, Washington, DC 20472, Paperwork Reduction Project (1660- 0115) **NOTE: Do not send your completed form to this address.***

**Completing the Screening Form:**

This form must be attached to all project information sent to the Grant Programs Directorate (GPD) to initiate environmental and historic preservation (EHP) compliance review, per the National Environmental Policy Act (NEPA) and other EHP laws and executive orders. *There is no need to complete and submit this form if the grant scope is limited to planning, management and administration, classroom-based training, table-top exercises and functional exercises, or purchase of mobile and portable equipment where no installation needed.* Information Bulletin 345 (September 1, 2010) provides details on these activities. The form must be completed by someone with in-depth understanding of project details and location. Completion of this form does not conclude the EHP review process and FEMA may need to contact you for further information. Not providing requested information may result in funding release delays. This form is intended to be completed electronically. The following website provides a version of this form that is suitable for printing and completing by hand as well as additional guidance such as on how to make an aerial map: <http://www.fema.gov/plan/ehp/ehp-applicant-help.shtm#5>.

To check (X) a box (for example,  Yes  No), left double-click using your mouse and a Check Box Form Field Options box will appear, then under the Default Value, select Checked and press OK (see figure, right). To write in a text field (\_\_\_\_), select the text field with your mouse and begin typing.



*Submit completed form with necessary attachments to GPDEHPInfo@dhs.gov with the following information in the e-mail subject line: EHP Submission: Project Title, Subgrantee Name; Grant Award Number (Example, EHP Submission: Courthouse Camera Installation, Any Town, State, 12345).*

**Complete all of Section A, Section B, all of each portion(s) of Section C corresponding to checked blocks in Section B, and all of section D that apply to the project.**

**A. PROJECT INFORMATION (complete all)**

DHS Grant Award Number: GE -78-0026 Grant Program:.....HSGP/UASI  
Fiscal Year: .....2013  
Project Title:.....Quincy Security Camera Upgrade  
Grantee (SAA): .....Executive Office of Public Safety and Security Subgrantee POC:.....Michael Kane  
Grantee POC: .....Jenny Barron Mailing Address:.....Boston City Hall, Room 204  
Mailing Address:.....10 Park Plaza, Suite 3720 .....One City Hall Square  
.....Boston, MA 02116 .....Boston, MA 02201  
E-mail:.....Jenny.Barron@state.ma.us E-mail:michael.kane@boston.gov  
Sub grantee: .....Metro Boston Homeland Security Region  
Dollar value of grant (*if known*): NA

**B. PROJECT TYPE**

Please check ALL the block(s) that best fit the scope of the project.

- 1. Training and Exercises. Go to page 2. Complete all of Section C.1.
- 2. Purchase of Equipment. Go to page 3. Complete all of Section C.2.
- 3. Physical security enhancements. Go to page 3. Complete all of Section C.3.
- 4. Renovations/upgrades/modifications to existing structures. Go to page 3. Complete all of Section C.4.
- 5. New construction/addition. Go to page 4. Complete all of Section C.5.
- 6. Communication towers, related equipment, and equipment shelters. Go to page 5. Complete all of Section C.6.
- 7. Other. If your project does not match any of these categories, go to page 6. Complete Section C.7

*The following information is required to initiate EHP review of the project. Based on the project's scope of work, determine which project type applies below and complete that section. For multi-component projects or those that may fit into multiple project types, complete the section that best applies and provide a complete project description. The project description should contain a brief summary of what specific action is proposed, where it is proposed, and how it will be implemented. If the project involves multiple locations, information for each must be provided. Attach additional pages, if needed.*

Provide a complete project description:

**Proposed Scope of Work for Quincy PSnet Extensions and new Camera Deployments**

This SoW outlines responsibilities and tasking for the following contributing parties:

- MBHSR and the Boston Office of Emergency Management (MBHSR)
- The City of Quincy Police, Fire, and IT Departments (Quincy)
- Interisle Consulting and PSnet (Interisle)
- LAN-TEL and CIMS video monitoring services
- Comm-Tract
- FTG Technologies (FTG)

These parties will operate in a coordinated manner to execute the tasks outlined below in an expeditious manner. Interisle will work with both MBHSR and the City of Quincy to coordinate tasks and confirm completion to agreed standards.

The major areas of tasking include:

### **A: Extension of Quincy fiber optic network to reach the Police Marina at 136 Bay View Avenue**

Comm-Tract will perform the following tasks: **Regarding conduit, all fiber will be strung aerially, on poles, within the municipal gains. No new conduit will be trenched, and no existing conduit will be used for this fiber extension.**

A new 48-strand SM fiber cable will be strung on utility poles within the designated municipal space from the existing splice point at the intersection of Sea and Palmer Streets out to the Police Marina at 136 Bay View Avenue. At every 1,500 feet along this route, 100 foot slack loops will be installed to enable future fiber interconnects.

The new cable identified in 1 above will be spliced into the existing 96-strand SM fiber cable between the Sea and Palmer splice point, and the splice point at Sea Street and Chickatabot Road.

A total of six strands of fiber will be spliced through from the 2nd floor server room at the Police Headquarters to the Police Marina, traversing the splice points on Sea Street identified in 2 above.

In the 2nd floor server room at the Police HQ, a new 4U rack mount housing for fiber termination and patching will be installed. The six strands that are spliced through to the Police Marina will be terminated on a coupler (patch) panel that will be housed in this new unit. SC connectors will be used on the coupler panel

A new fiber termination and patch panel will be installed at the Police Marina. The six strands of SM fiber that connect back to the Police HQ will be terminated on this fiber patch panel. The termination/patch panel will be installed inside the Police Marina at a location to be defined by the City of Quincy. SC connectors will be used to patch into the fiber.

The fiber and splices will be tested using OTDR and power meters at 1310nm and 1550nm wavelengths, with test results provided to the City. In particular, the six strands that will be terminated at the Police Marina will be fully tested and qualified back to the termination/patch point in the Police server room.

Note that Comm-Tract has provided a more detailed Scope of Work for these tasks and deliverables that reflects recent alignment with City IT network plans.

In support of this fiber deployment, Quincy will provide rack space in the Police HQ server room for the 4U housing for fiber termination, and a rack to be located in a secure room for the termination/patch panel at the Police Marina. The rack at the Police Marina should also be sufficient to hold network switches along with a UPS and PDU.

## **B: Video Distribution Switches at Quincy Police HQ**

Three new Ethernet distribution switches will be provided and deployed at the Police HQ for workstation access to video servers and for other internal communications purposes. FTG will supply the switches, and will support Quincy IT in the initial deployment and configuration of these switches at the Police HQ.

FTG will supply three Cisco WS-C2960X-24PS-L switches with 24 10/100/1000BaseT copper ports, each with PoE capability. Each switch also has four SFP ports for fiber connections to the core switch at the Police HQ in the server room. These switches will be provided with the Cisco standard 1 year bundled warranty.

Quincy IT will be responsible for connecting workstations to these switches, and for integrating these switches into their existing 3750G switch stack at Police HQ.

## **C: Deploy four new PTZ Camera Sites using Existing Cameras with Microwave or Fiber Backhaul Communications**

LAN-TEL will furnish and deploy camera mounts plus all power and communications wiring with associated conduits at four sites as follows:

**Police Marina** at 136 Bay View Avenue. The camera mount will either be on the roof of the Police Marina, or on a pole nearby, as determined by consultation with Lt. Gillan with Quincy Police. Communications will be back to the Police Marina, and will use the new fiber for communications to the video recording systems at Police HQ.

**Police Marina** at Light Pole at Sea Street. The camera mount will be on an existing street light pole, as determined by Lt. Gillan

**Pageant Field** across Vietnam Veterans Drive from the Quincy Park and Forestry Offices. The camera mount will be on an existing pole in this field, to be determined in consultation with Quincy Police. Camera communications will be back to the Recreation Offices, where there is existing fiber termination and PSnet switches for communication back to Police HQ.

**Pagnano Towers**, Quincy Housing Authority, **109 Curtis Avenue**. Camera mount to be deployed on the roof in accordance to guidance from Quincy Police and Housing Authority representatives. A microwave backhaul will be needed to get camera feed back to Police HQ, since there is no fiber to this building. The most likely backhaul site is O'Brien Towers across the Town River Bay.

**Intersection of Newport Avenue and Beale Street**. Camera to be mounted on traffic signal pole. Backhaul communications will be via microwave link. This site is near the new Central Middle School (<2,500'), which is on City fiber, and would be a preferred backhaul site. Another possible backhaul site is 100 Newport Avenue.

Note that the City will provide the cameras, which are being redeployed from other sites.

The City of Quincy will provide bandwidth for camera backhaul communications on its fiber plant as appropriate. LAN-TEL and Interisle will also work with the City to explore options

for optimizing camera communications taking into consideration plans for subsequent camera sites and network extensions.

## **D: PSnet Extensions to Police Marina and to support Camera Backhaul**

Interisle will extend PSnet communications to the Police Marina utilizing the new fiber being deployed to this site. This will include:

Deploying and configuring at least one, but possibly two, PSnet Layer 2/3 switches at the Police Marina with fiber optic transceivers for lighting the fiber back to the Police HQ. These switches will be housed in an equipment rack to be provided by Quincy. The argument for deploying two switches is to improve resilience through redundancy, but this would only make sense if two fiber pairs are allocated.

Completing the fiber optic connections from the Police Marina into the PSnet switches located in the Police HQ.

Integrating new Police Marina switch(es) and fiber optic communications into PSnet management system for continuous monitoring.

Provide at least four ports for camera connections at Police Marina, and at least four additional ports for use by Quincy for internal communications to this site. City communications may be configured as a "VLAN tunnel" to provide traffic isolation and flexibility to carry multiple VLANs for different applications.

At Quincy's option, a refurbished UPS can be provided at the Police Marina to handle short term power interruptions. If PSnet provides this UPS, it will be integrated into the network management system for continuous monitoring and logging. If Quincy provides its own UPS, it may be possible to integrate this with PSnet management depending on brand/model/configuration.

For camera backhaul at other sites, Interisle will assist with integration of microwave radios and incorporation into network management systems. Interisle will help coordinate frequency use, and will implement adequate over-the-air security measures.

## **E: Project Coordination**

Interisle will coordinate with all players involved with these extensions and upgrades to help achieve effective system integration and resolution of any problems that crop up as good plans meet the reality of actual deployments. Some specific tasks include:

Project status memos to MBHSR, Quincy, and the other contributors as appropriate. These memos will also advise project contributors of issues that may affect their plans/work.

Manage activities to best meet the needs and objectives of the MBHSR and Quincy stakeholders.

Serve as a central focal point for flagging issues and coordinating schedules and activities of the contributors.

Facilitate steps to complete qualification and acceptance of deliverables, especially where one contributor's deliverables have dependencies on deliverables or system integration provided by other players.

## Project Scheduling

It is essential that all work be completed and signed off on by stakeholders prior to July 31, 2015. All invoices must also have been submitted by this date. However, it is in everyone's interest to complete this work well before this deadline.

In particular, completing the fiber out to the Police Marina is an essential deliverable that will impact many other deliverables and task scheduling. The plan is to start the fiber deployment as soon as authorization is received from the Office of Emergency Management (pending EHP acceptance). A priority will be placed on getting this fiber deployment under way as soon as feasible. Comm-Tract has indicated they can start within the first half of March, and complete the work within a few days.

Another short term objective will be to finalize plans for each of the camera sites, and get agreement on exactly where cameras will be mounted, how they will communicate back to Police HQ, and what additional provisions will be necessary to deliver power and communications to the cameras. It will also be important to address any concerns with building management on any internal or external wiring, and camera mounting arrangements. Any sites that will be used for camera backhaul communications will also need to be provisioned, and mounts for microwave radios planned out.

As plans are finalized for camera deployments, work can proceed on an opportunistic scheduling basis.

Presumably, the video distribution switches for the Police HQ can be procured and deployed at any time. Quincy IT should set the schedule for when these deployments will take place. There is no new construction associated with these switch deployments, as they will be replacing currently deployed switches that are inadequate for video monitoring.

## C. PROJECT DETAILS

1.  **Training and Exercises** (*check each that applies*):  **Classroom-based**     **Field-based**  
*If the training is classroom and discussion-based only, and is not field-based, this form does not need to be completed and submitted.* All other training must provide the following:
- a. Describe the scope of the proposed training or exercise (purpose, frequency, materials, and equipment needed, number of participants, and type of activities required)  
(*Attach additional pages, if needed*):.....
  - b. Will the field-based training take place at an existing facility having established procedures for that particular proposed training and exercise, and that conforms with existing land use designations (refer to Information Bulletin #329 ([http://fema.dps.mo.gov/empg/IB%20329\\_20090902.pdf](http://fema.dps.mo.gov/empg/IB%20329_20090902.pdf)) for further information)? .....  Yes  No
    - If yes, please provide the name and location of the facility (physical training site address or latitude-longitude):.....
    - If no, provide the location (physical project address or latitude-longitude) **and** a full description of the area where training will occur:.....

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c. Does the field-based training/exercise differ in any way (including, but not limited to frequency, amount of facilities/land used, materials or equipment used, number of participants, type of activities) from previously permitted training exercises and training practices? .....  Yes  No

• If yes, explain any differences between the proposed activity and those that were approved in the past, and the reason(s) for the change in scope: .....

d. Will any equipment or structures need to be installed to facilitate training? .....  Yes  No

• If yes, explain how and where this is proposed to be done (*include site-specific color photographs*): .....

2.  **Purchase of equipment (If the entire project is limited to purchase of mobile/portable equipment and there is no installation needed, you do not need to complete and submit this form.)**

a. Specify what equipment, and the quantity: 4

b. Provide AEL number(s) (if known): .....03OE-02-FIBR

c. Will this equipment be installed? .....  Yes  No

• If Yes, go to page 6. Complete Section D.

3.  **Physical security enhancements and or installations (for example: installation of back-up generators, fencing, cameras, building/room access control, bollards, motion detection systems, x-ray machines, and lighting).**

a. Describe what, how, and where improvement(s)/installation(s) will occur in/on the facility/building/structure: .....See scope of work

b. Provide project location (physical project address and latitude-longitude): .....See scope of work

c. Will the new equipment/improvements use the existing power supply systems?.....  Yes  No

• If no, describe new power source and installation (such as utility trenching): .....

d. If generator installation, please state the capacity (KW):.....

• If a separate fuel tank is also included, describe if it is to be installed above or below ground, and its capacity (gallons): .....

e. Go to Page 6. Provide additional project details in Section D.

4.  **Renovations/upgrades/modifications to existing structures.**

a. Provide detailed description of modifications:.....

b. Provide project location (physical project address and latitude-longitude): .....

c. Will any equipment need to be installed?.....  Yes  No

• If yes, please note in Section 2, (purchase of equipment).

f. Go to Page 6. Provide additional project details in Section D.

5.  **New construction/addition (for example: emergency operations centers, docks, piers, security guardhouse).**
- a. Provide detailed scope of work (site acreage, new facility square footage/number of stories, utilities, parking, stormwater features, etc): .....
  - b. Provide project location (physical project address or latitude-longitude):.....
  - c. Will any equipment need to be installed?.....  Yes  No
    - If yes, please note in Section 2 (purchase of equipment).
  - d. Will the new building/facility/renovations use existing utilities? .....  Yes  No
    - If no, describe installation of new utilities in (a) above (including trenching): .....
  - e. Go to Page 6. Provide additional project details in Section D.

6.  **Communication towers, related equipment, and equipment shelters**
- a. Provide a detailed description of the project .....
  - b. Provide project location (physical project address or latitude-longitude: .....
  - c. Provide the elevation above mean sea level of the project location:.....
  - d. For projects involving antenna(s) installations on existing towers:
    - Provide the height of the existing tower: .....
    - The height of the tower following the installation of the new antenna(s): .....
  - e. For new tower projects, state the total height (in feet) of the communication tower or structure including any antennae to be mounted: .....
    - If the proposed tower height is greater than 199 feet above ground level, state why this is needed to meet the requirements of the project: .....
    - Will the tower be free-standing or require guy wires? .....  Free standing  Guy wires
    - If guy wires are required, state number of bands and how many: .....
    - State why a guyed tower is needed to meet the requirements of this project:.....
    - What kind of lighting will be installed, if any (for example: white strobe, red strobe, or steady burning?):.....  - f. A general description of terrain (For example: mountainous, rolling hills, flat to undulating):.....
  - g. Describe the frequency and seasonality of fog/low cloud cover:.....
  - h. Provide a list of habitat types and land use on and adjacent to the tower site (within ½ mile), by acreage and percentage of total (e.g., woodland conifer forest, grassland, agriculture) waterbody, marsh): .....
  - i. Is there evidence of bird roosts or rookeries present within ½-mile of the proposed site? .....  Yes  No

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- a. If yes, describe: .....
  - Distance to nearest wetland area (for example: forested swamp, marsh, riparian, marine) and coastline if applicable:.....
- i. Distance to nearest telecommunication tower:.....
- j. Have measures been incorporated for minimizing impacts to migratory birds?.....  Yes  No
  - If yes, describe: .....
- k. Has an FCC registration been obtained for this tower?.....  Yes  No
  - If yes, provide Registration #: .....
- l. Has the FCC E106 process been completed?.....  Yes  No
- m. Has the FCC Tower Construction Notification System (TCNS) process been completed? .....  Yes  No
  - If yes, attach all relevant environmental documentation submitted as part of the registration process including use of the Tower Construction Notification System (TCNS), if applicable. FRN# .....
- n. Will any equipment or structures need to be installed?.....  Yes  No
  - If yes, explain what type how and where this is proposed to be done (*attach additional pages, if pages needed*): .....
- o. Will equipment be co-located on existing FCC licensed tower or other structure?.....  Yes  No
  - If yes, identify the type of structure: .....
- p. Go to Page 6. Provide additional project details in Section D.

7.  **Other.** For any project that does not fit a category listed above, please provide a thorough summary of the proposed action and location. Include as much detail as necessary to ensure someone not personally familiar with the project is able to conduct an EHP review.

Project Summary:

- a. Provide additional project details in Section D.

**D. OTHER PROJECT RELATED INFORMATION (complete all that apply)**

The following website may provide some additional EHP related guidance and resources to help complete this section <http://www.fema.gov/plan/ehp/ehp-applicant-help.shtm#5>.

- 1. If work is proposed on/in an existing building(s) or structure(s) provide the year built:.....
  - over 45 years old and significant renovation, rehabilitation, or modification has occurred, please provide the year(s) and briefly describe the nature of remodeling: .....
- 2. If the project affects the exterior of the building, are there any known buildings and/or structures that are 45 years or older in the immediate project area?.....  Yes  No/NA
  - If yes, please provide the location, ground-level color photos of these, and identify their location(s) on the aerial map.
- 3. Is the building or structure on which work is proposed a historic property or in a historic district, or are there any adjacent historic properties? .....  Yes  No

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- Information about historic properties may be found on the National Register of Historic Places at <http://nrhp.focus.nps.gov/natreghome.do?searchtype=natreghome> or the respective State Historic Preservation Office may have information on their website.
4. Will ground disturbance be required to complete the project? .....  Yes  No
- If yes, provide total extent (depth, length and width) of each unique ground disturbing activity. Light poles, bollards and fencing are each unique ground disturbing activities (For example, six light poles, 24" dia. x 4' deep; trenching 12" x 500' x 18" deep):..... \_\_\_\_\_
5. Has the ground been previously disturbed? .....  Yes  No
- If yes, please describe the current disturbed condition of the area (for example, parking lot, roadway right-of-way, commercial development):..... \_\_\_\_\_
6. Are there technical drawings or site plans available, if yes please attach. ....  Yes  No
7. Attach color site photographs:
- Ground-level color site photos that provide context and show where site work/physical installations are proposed (label photos),
  - Ground-level color photographs of each side of the building involved.
  - Aerial color photograph with project limits outlined and with the location of any proposed installations identified.
  - Aerial color photograph(s) showing all ground disturbing activities (if applicable).
8. Is the project part of an approved plan such as a Master Plan or an Implementation Plan or any larger action/project? .....  Yes  No
- If yes, provide the plan/project name and brief description: ..... 2014 MBHSR CIMS Gap Analysis
9. Is there any *previously* completed environmental documentation for this project (for example: Environmental Impact Statement, Environmental Assessment, wetland delineation, archaeological study)? .....  Yes  No
- If yes, please attach documentation. If a NEPA document, what was the decision? (*Check one, and please attach*):  
 Finding of *No Significant Impact (FONSI)* or  
 Record of Decision (ROD)  
Name of preparing agency: ..... \_\_\_\_\_  
Date approved: ..... \_\_\_\_\_
10. Is there any *previously* completed agency coordination for this project (for example correspondence with the U.S. Fish and Wildlife Service, State Historic Preservation Office (SHPO), Tribal Historic Preservation Office (THPO), or permitting agencies? .....  Yes  No
- If yes, please attach documentation unless included in NEPA documentation identified above.
11. Provide FEMA Flood Insurance Rate Map (FIRM), with project limits outlined. FIRM maps can be created from: <http://www.fema.gov/hazard/map/firm.shtm>
12. Provide U.S. Fish and Wildlife Service, National Wetlands Inventory (NWI) Map created from: <http://www.fws.gov/wetlands/Data/Mapper.html>

**MBHSR Quincy Camera Install & Fiber Optic Cable Project Police Marina at 136**

**Bay View Avenue built in 1950:**

**Section D. #7 Color Site Photographs**



**Ground Level EAST VIEW**



**WEST VIEW**



**SOUTH VIEW**



Pole 1- Merrymount Parkway- on a pole inside the EOC parking area to capture cars coming in & out as well as Pageant Field -  
42° 15' 39.34 N / 71° 00' 08.98 W

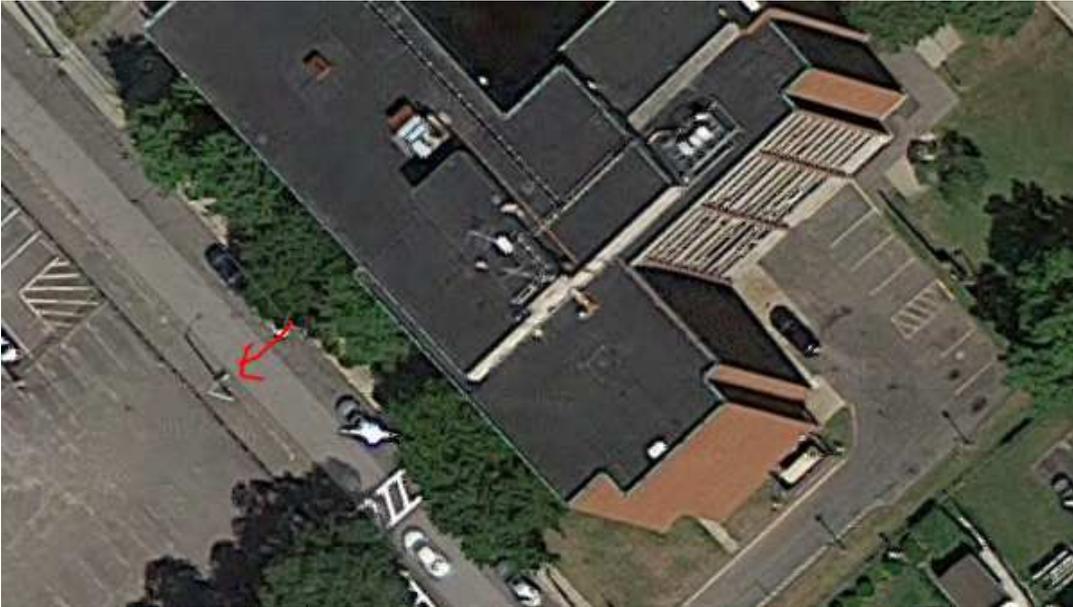


Street View:

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Pole 2- Wollaston Fire Station- 80 Clay St  
42' 15'.55.71N / 71'01'.11.05 W



Street View:

Environmental and Historic Preservation Screening Form



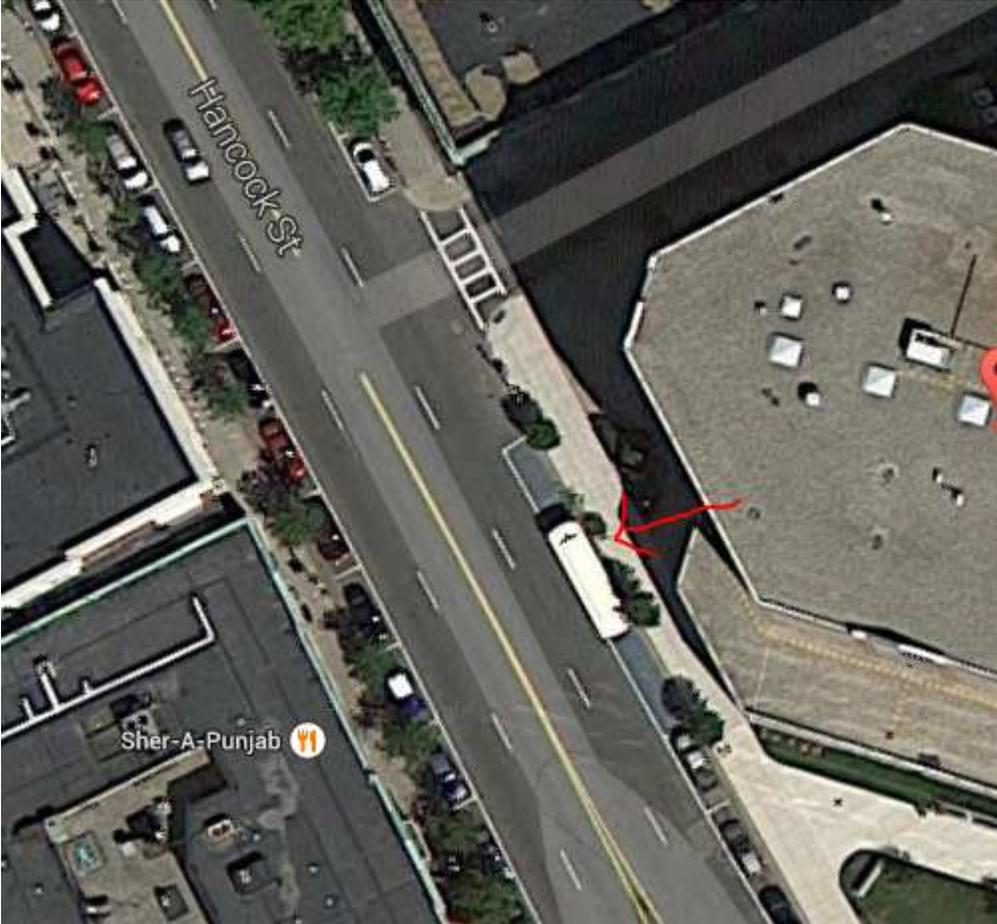
Pole 3- Pagano Towers- 109 Curtis Ave  
42°14'.50.97 N / 70° 50'.34.03 W



Street Level



Pole 4- Presidents Place -looking towards T station, City Hall & McIntyre Mall area  
42' 15' .08 .37 N / 71' 00' .12.39 W



East