

**Camera Installation and backstock at Union Station Specifications**

**2 Washington Sq.**

**Worcester, MA 01604**

- (26) Replacement cameras using existing drop.
- (2) Re-use existing camera and re-locate existing drop.
- (13) New cameras and installation of new network drop.
- Wiring, mounting, aiming, and installation of nineteen (19) interior and twenty (20) exterior cameras.
- Replace rotted ½" conduit in Food Hub Area.
- (5) Re-Aim cameras.
- (5) Clean and Re-seal cameras.

**Camera Requirements:**

- Drop will be PoE. Cat 6 Ethernet required.
- Genetec licensing with cameras is required to integrate into Genetec back-end VMS.
- Three models of cameras that will be used for the project, all will need to be Axis Communications cameras. All cameras need to be weatherproof, vandal proof style cameras. Aiming and installation by your technician.
- (6) Dome camera, Axis P3268-LVE (4K), Axis P3265-LVE (1080P) - Alternative
- (14) 4 Head camera, Axis P3737-PLE (2K), Axis P3735-PLE (1080P) - Alternative
- (19) PTZ AXIS Q6078-E (4K), AXIS P5654-E Mk II (1080P) - Alternative
- All necessary mounting hardware (arms, poles, brackets etc.) per manufacturers' specifications.

Camera Attic stock counts (see detailed Requirements below)

- (5) Dome camera, Axis P3268-LVE (4K), Axis P3265-LVE (1080P) - Alternative
- (5) 4 Head camera, Axis P3737-PLE (2K), Axis P3735-PLE (1080P) - Alternative
- (5) PTZ AXIS Q6078-E (4K), AXIS P5654-E Mk II (1080P) - Alternative

This pricing used **only if** owner adds on any additional cameras to the stated numbers for this bid.

- Separately we'll need linear foot price up 100m install for:
  - Cat 6
  - ½" PVC and hardware.
  - ½" EMT and hardware.

Walkthrough of the site will be available on the date / time noted on the front-page of these bid documents

**For security reasons, building plans will be handed out to the winning bidder.**

**Wiring and Mounting Requirements:**

**ALL NEW CABLE RUNS AND CAMERA LOCATIONS TO BE APPROVED BY BUILDING OWNER PRIOR TO ANY INSTALL.**

- Installation of (20) - Category 6 (CAT-6) plenum cable to each predetermined location.
- Vendors will be required to terminate to the nearest backbone IDF, provided room is available for additional patch panels. Vendors may be required to run cabling further than the nearest IDF  
\* No wire run will exceed CAT 6 specified maximum distance of 100 Meters.
- Vendor is responsible for providing all patch panels connectors, hangers, patch cables, mounting hardware and any other supplies necessary to provide a complete (turnkey) installation.
- Hangers must be used above ceiling tiles and may not be laid on top of tiles.
- Any **interior** wiring **will need to be snaked** given the historic nature of the building. In the rare occasion it can't be snaked it must be **pipel** (with prior approval of Owner) in **½" EMT** w/steel set screws 1-hole EMT clips 4" sq junction box if needed. Any patching to match the original walls.
- Any **exterior** mounted cameras vendor is responsible to provide **SCH 40 PVC** conduit and watertight connections using threaded boxes with gaskets duct seal **or** liquitite-sealtite-pvc coated flex cable single gang junction box if needed. Required Axis Communications weather tight end (RJ45 connector push pull plug).
- All interior penetrations must be fire stopped and the exterior caulked.
- The WRA reserves the right to delete or adjust camera locations and receive a credit.
- All camera counts to be verified on site including interior and exterior by contractor.
- **ALL WORK TO BE DONE PER THE NATIONAL ELECTRIC CODE.**

The Vendor is responsible for all costs associated with the installation of cameras including, but not limited to, all permits, lifts (interior or exterior) and/or bucket truck if and where required.

All work is to be conducted during regular business hours and/or around tenant hours if it applies, unless pre-arranged with the owner. This will typically mean normal business hours (7AM - 3PM).

**Camera Installation:**

Integration of cameras will include a meeting before project start with Union Station/IT personnel to verify correct positioning and after install for aiming of cameras.

Integration will be considered complete only after verification, by Union Station/IT, all work has been performed as per specification. No payment will be made before this verification.

**Invoicing:**

All invoices are to be emailed to [MCDERMOTTJE@WORCESTERMA.GOV](mailto:MCDERMOTTJE@WORCESTERMA.GOV) and must include the purchase order number.

**Bidders are required to be:**

- Authorized Axis Reseller for a minimum of the past 2 years and have a **valid S-License**. (please include S-license with bid)