



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0016

Janet T. Mills
GOVERNOR

Bruce A. Van Note
COMMISSIONER

January 8, 2024
Subject: Traffic Signals and Lighting
WIN: 025325.00
Location: **Bangor-Brewer**
Amendment No. 3

Dear Sir/Ms.:

The following questions have been received:

Question: At Rt 222 & I95 Off ramp, can the junction box top of the lowering device be mounted to the side of the mast arm? The weight of the junction box, arm and camera with stabilizing weights, may exceed the capacity of the connection at the base of the lowering arm junction box.

Response: The junction box top can be mounted directly to the side of the signal mast arm pole. Mounting must not interfere with the operation of the signal equipment nor compromise the integrity of the existing mast arm/pole or its connections.

Question: At Rt 222 & I95 Off ramp, has it been confirmed the existing conduit has sufficient space for the new cable? If the conduit is blocked/broken how will the repairs be paid for?

Response: A MaineDOT review of existing installation indicates there is sufficient space in the conduit for new cable. If conduit is not able to be used due to existing conditions, repairs will be paid separately under the contract.

Question: Have calculations been completed to ensure that the existing structures and foundations are sufficient to hold the new lowering device systems?

Response: Structural calculations were performed to understand the viability of connections detailed on the plans. As lowering devices and equipment are to be specified by the contractor, calculations for the final designs have not been completed. The contractor shall perform calculations with the equipment installed for this project, to ensure that the mast arm is in accordance with MaineDOT standards and shall supply shop drawings of the modifications and attachment details.

Question: Can information be provided on the existing lowering device on the high mast light pole, original submittals, operating or installation manuals? We do not know if it is possible to add a camera and wire to the existing lowering device until we can confirm how the lowering device functions.

Response: The existing high mast light was installed by Holophane. Cut sheets and details are not available at this time.

Question: Can you confirm if the high mast lowering device is fully functional and has been tested recently? If not, will the DOT ensure the lowering device is in working condition prior to starting work at this location?

Response: MaineDOT will confirm fully functional operability of the high mast lowering device during a preconstruction project walk through.

Question: Will MaineDOT provide the lowering winch/drill for the high mast lowering device?

Response: MaineDOT will provide the contractor with the lowering winch/drill for the high mast lowering device for up to a 48-hour period with one week's notice. The contractor may request the drill up to three times during the project. The contractor is responsible for returning the drill in working condition.

Question: Is the Cat5 cable for the camera at the high mast lowering device to be run alongside the power cables for the lights? It is not recommend to run Cat5 wire alongside power wires that are likely 480v, as it will cause interference on the data lines.

Response: The camera is intended to attach to the high mast light lowering ring. All cable will be exterior to the pole and therefor will not be alongside 480V power used to power the light housed inside the pole. A similar installation is located near I-295 Exit 3 S.B. on the high mast light structure.

Consider these changes and information prior to submitting your bid on **January 10, 2024**.

Sincerely,



George M. A. Macdougall P.E.
Contracts & Specifications Engineer