

Borough of Naugatuck, CT Police Department

Minimum Specifications for Traffic Signal Installations
on Rubber Avenue at High School Driveway

A. All construction methods, equipment, and materials shall conform to the following Connecticut Department of Transportation (CT DOT) specifications except as amended by specifications herein which take precedence:

1. Applicable sections of the CT DOT Standard Specifications for Roads, Bridges, and Incidental Construction, Form 816 of 2004, and merged with the Supplemental Specifications of July, 2013.
2. Applicable sections of the CT DOT Functional Specifications for Traffic Control Equipment, 2012-2015, as indicated in other sections of this specification.
3. Applicable sections of the CT DOT Traffic Engineering Special Provisions.

The above specifications and special provisions are available online at www.ct.gov/dot under the "Highways and Bridges" portal. Where references are made to the CT DOT or Engineer they are to be interpreted as meaning the Borough of Naugatuck or the Town Engineer (or his designee) as appropriate.

B. Borough-approved plans for the traffic signal installations are considered a part of these specifications.

C. **The scope of this project is as follows:**

- 1) Replace the existing Controller and Cabinet with a new system wired complete to control the subject intersection.
- 2) Replace all vehicular signals and hardware on the existing mast arms and the associated signal cable. Reduce the signal hang length from the mast arm.
- 3) Replace all existing vehicle and pedestrian signal lamps to LED Units to conform to CT DOT specifications. The existing pedestrian poles to remain, but new signal housings will be installed and all control cable is to be replaced.
- 4) The existing 5 section cluster signal head will be converted to a 4 section signal with a bi-color arrow.
- 5) All signals to have back plates with reflective tape installed.
- 6) Reattach riser to pole.

D. Controllers, cabinets, vehicle detectors, and pedestrian push buttons shall conform to CT DOT specifications in section A2 above with the following changes:

1. Section 1 (Controllers and Cabinets) - Only the following NEMA TS2 Type 2 eight phase traffic signal controller are acceptable:
McCain Model ATC eX,
2. Section 1 – Controllers shall provide Conditional Service, Conditional Reservice, Dynamic Maximum, and Guaranteed (Last Car) Passage functions.
3. Section 1 – Delete the requirement for a separate Uniform Code Flash device. Automatic flash shall be provided through the controller's software and programmed from the controller's front panel.
4. Section 1 – The Type D eight phase aluminum cabinet shall be a NEMA industry Type M cabinet having a nominal height of 54 inches and supplied with 2 shelves and a sub-base. The cabinet shall be supplied with a natural aluminum (unpainted) finish.
5. Section 1 – The main cabinet door shall be provided with a standard #2 tumbler-type lock with 2 keys.
6. Section 3 (Vehicle Detectors) – Loop detectors shall be the LCD Vehicle Loop Detector type.

Additional Work

E. Five (5) copies of catalog cuts and/or shop drawings shall be submitted to the Town Engineer for approval on the following items:

1. Traffic Signal Controller
2. Traffic Signal Controller Cabinet
3. Conflict Monitor or Malfunction Management Unit
4. Load Switch and Flasher
5. Loop Vehicle Detector
7. Pedestrian Push Button and Sign
8. Traffic Signal, LED Lamp, and Backplate

Two copies of approved cuts will be returned to the contractor.

F. If conflicts, ambiguities, discrepancies, or other matters arise among the town specifications, the project plans, and the CT DOT specifications the Town Engineer or his designee will resolve the issues. Contractors are advised to contact the Town Engineer to resolve any of the above issues before ordering equipment or starting signal installation work.

End of Borough Specifications

The Borough of Naugatuck is an affirmative action/equal opportunity employer MBE's, WBE's and SBE's are encouraged to apply.

60 - 1.4 - Equal opportunity clause.

(a) Government contracts. Except as otherwise provided, each contracting agency shall include the following equal opportunity clause contained in section 202 of the order in each of its Government contracts (and modifications thereof if not included in the original contract): During the performance of this contract, the contractor agrees as follows: (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer, recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.

(2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.

(3) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided by the agency contracting officer, advising the labor union or workers' representative of the contractor's commitments under section 202 of Executive Order 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(4) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

(5) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

(6) In the event of the contractor's non-compliance with the nondiscrimination clauses of this contract or with any of such rules, regulations, or orders, this contract may be canceled, terminated or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(7) the contractor will include the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as may be directed by the Secretary of Labor as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that in the event the contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

Instructions: All bidders must carefully familiarize themselves with the following Bid Specifications and any other contract documents related to the Bid purpose and/or of the project.

Bidders choosing to submit a Bid must fill out the Bid Form attached hereto.

Laws: All deliveries shall comply in every respect with all applicable laws of the United States of America and of the State of Connecticut.

Taxes: The Borough of Naugatuck is exempt from payment of taxes imposed by the Federal Government and/or the State of Connecticut and such taxes will not be included in the Bid price.