

SECTION 13550 - TRAFFIC SIGNALS

All work and materials shall be completed in accordance with SECTION 626 – FOUNDATIONS, CONDUIT, AND JUNCTION BOXES FOR HIGHWAY SIGNING, LIGHTING, AND SIGNALS, SECTION 643 – TRAFFIC SIGNALS, and SECTION 645 – HIGHWAY SIGNING with the following modifications and additions:

MODIFICATIONS:

Section 626.034 Concrete Foundations: Add the following:

Pre-cast foundation shall not be permitted for the traffic signal structures.

Section 643.023 Design and Fabrication: Add the following:

Cantilevered signal support structures with mast arms shall be classified as Fatigue Category III with Fatigue Importance Factors (I_f) of 0.59 for Natural Wind Gusts and 0.68 for Truck-Induced Gusts unless specified otherwise on the contract plans.

If Category II is specified in the contract plans, the Fatigue Importance Factors (I_f) shall be 0.8 for Natural Wind Gusts and 0.84 for Truck induced Gusts. If Category I is specified in the contract plans, the Fatigue Importance Factors (I_f) shall be 1.0 for Natural Wind Gusts and 1.0 for Truck induced Gusts.

Designing for fatigue induced by Galloping or Vortex Shedding is not required for traffic signal structures with mast or bracket arms.

ADDITIONS:

SPECIAL PROVISIONS
SECTION 104
UTILITY SPECIFICATIONS
(TRAFFIC SIGNALS –INDIA/FORE STREET)

MEETING

A Preconstruction Utility Conference, as defined in Subsection 104.4.6 of the Standard Specifications is required.

GENERAL INFORMATION

These Special Provisions outline the arrangements that have been made by the Department for utility and/or railroad work to be undertaken in conjunction with this project. The following list identifies all known utilities or railroads having facilities presently located within the limits of this project or intending to install facilities during project construction.

Overview:

Utility/Railroad	Aerial	Underground	Railroad
Verizon	X		
Central Maine Power	X	X	
Portland Water District		X	
Portland Public Works Department	X	X	
Portland Fire Department	X		
Northern Utilities		X	

Temporary utility adjustments are **not** anticipated.

Unless otherwise specified, any underground utility facilities shown on the project plans represent approximate locations gathered from available information. The Department cannot certify the level of accuracy of this data. Underground facilities indicated on the topographic sheets (plan views) have been collected from historical records and/or on-site designations provided by the respective utility companies. Underground facilities indicated on the cross-sections have been carried over from the plan view data and may also include further approximations of the elevations (depths) based upon straight-line interpolation from the nearest manholes, gate valves, or test pits.

All adjustments are to be made by the respective utility/railroad unless otherwise specified herein.

AERIAL

Summary:

Utility	Pole Set	New Wires/Cables	Trans. Wires/Cables	Remove Poles	Estimated Working Days
Verizon			X		1
Portland Fire Department			X		1
Time Warner Cable			X		1
Total:					2

The Portland Fire Department, Time Warner Cable and Verizon all need to raise their cables on Pole 4 ½ on the southeast corner of the intersection by 18 inches to accommodate the installation of the traffic signal mast arm.

Central Maine Power

Central Maine Power does not anticipate any work.

Contact – Mr. Dennis Chadborne
Telephone – (207) 828-2860

Verizon

Verizon will raise their cable 18 inches on Pole 4 ½.

Contact – Mr. Corey MacDonald
Telephone – (207)797-1096

Portland Fire Department

Portland fire Department will raise their cable 18 inches on Pole 4 ½.

Contact – Mr. Ben Diaz
Telephone – (207)874-8489

Time Warner Cable

Time Warner Cable will raise their cable 18 inches on Pole 4 ½.

Contact – Mr. Glenn Raymond
Telephone – (207)253-2242

Portland Public Works Department

Portland Public Works Department has no work planned at this time.

Contact – Mr. Eric Labelle Michelle Sweeney--Traffic
Telephone – 874-8801 874-8672

SUBSURFACE

Summary:

Utility	Description	Estimated Working Days
Portland Water District	No Work Anticipated	0
Portland Public Works Department	No Work Anticipated	0
Central Maine Power	No Work Anticipated	0
Northern Utilities	No Work Anticipated	0
Total:		0

Portland Water District

Portland Water District does not anticipate any work

Contact – Mr. Frank Meader
Telephone – (207) 774-5961 ext.3069

Central Maine Power

Central Maine Power does not anticipate any work.

Contact – Mr. Dennis Chadborne
Telephone – (207) 828-2860

Portland Public Works Department

Portland Public Works Department has no work planned at this time.

Contact – Mr. Eric Labelle
Telephone – 874-8801

Northern Utilities

Northern Utilities has no work planned at this time.

Contact – Mr. Sam Murray
Telephone – 1-800-524-4486 , X-6288 or X-5340

Blasting

In addition to any other notice that may be required, the Contractor shall pay particular attention to any aerial or underground utilities within the blasting area. The Contractor shall also notify an authorized representative of each utility having plant close to the site no later than *forty-eight (48) hours* before the intended blast. The notice shall state the approximate time and location of the blast.

Safe Practices Around Utility Facilities

The Contractor shall be responsible for complying with M.R.S.A. Title 35-A, Chapter 7-A, Sections 751-761 Overhead High-Voltage Line Safety Act. Prior to commencing any work that may come within ten (10) feet of any aerial electrical line, the Contractor shall notify the aerial utilities as per Section 757 of the above Act.

Maintaining Utility Location Markings

The Contractor will be responsible for maintaining the buried utility location markings following the initial locating by the appropriate utility or their designated representative.

DigSafe

The Contractor shall be responsible for determining the presence of underground utility facilities prior to commencing any excavation work and shall notify utilities of proposed excavation in accordance with M.R.S.A. Title 23 §3360-A, Maine DigSafe System.

Signing

Any utility working within the construction limits of this project shall ensure that the traveling public is adequately protected at all times. All work areas shall be signed, lighted and flaggers employed as field conditions determine. All traffic controls shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices for streets and highways, as issued by the Federal Highway Administration.

The Contractor shall plan and conduct his work accordingly.

*** END OF SECTION ***