

REQUEST FOR PROPOSALS

FOR

TRAFFIC ADAPTIVE SIGNAL (TAS) CONTROL SYSTEMS, DESIGN, INSTALLATION, AND ONGOING MAINTENANCE AND SERVICE AT DUNSTAN CORNER, ROUTE 1, SCARBOROUGH

(Route 1 at: Pine Point Road, Harlow Street and Payne Road)

RFP 162019

Town of Scarborough

P.O. Box 360
259 U.S. Route One
Scarborough, Maine 04070-0360

Released on February 12, 2019
Proposals Due on March 15, 2019

**SCARBOROUGH
MAINE**



INSTRUCTIONS TO PROPOSERS

The Town of Scarborough is soliciting Proposals from qualified vendors (product suppliers) to provide a traffic adaptive system (TAS) for the three (3) Dunstan Corner signalized intersections on Route 1 in Scarborough. The Dunstan Corner project intersections include, three (3) traffic signals on Route 1 at; Pine Point Road, Harlow Street and Payne Road. The intent is for the selected firm to supply, install, optimize, monitor, and provide ongoing management and maintenance assistance. Field visits to the project intersections are encouraged prior to submission of the RFP. Field visits may be scheduled by emailing Mike Shaw at mshaw@scarboroughmaine.org.

Firms with industry recognized TAS products with relevant experience and qualifications in providing TAS are encouraged to submit. In general, it is expected that the TAS will be fully capable of accepting real-time inputs from the vehicle detection systems, and adjust cycle lengths, phase splits, and offsets to maintain optimal traffic operations which will minimize delay and congestion. The system will handle high and low traffic volume ranges with unexpected large swings in traffic volumes.

The purpose of this RFP process is to identify the most appropriate TAS system to support the Town in this important project. Following analysis of the responses to this RFP, a firm or firms will be invited for interviews to present their TAS system. Interviews will be conducted by an evaluation committee.

Dunstan Corner is a vibrant and growing area of Scarborough located at the intersection of Route 1, Pine Point Road, Broadturn Road and Payne Road. Route 1 is an arterial type roadway of regional significance and is an important regional corridor which handles large volumes of traffic moving goods and services, commuter, school, vacation and tourist, as well as local traffic. It is also a key route to Old Orchard Beach via Pine Point Road.

This RFP is available on our website (<http://www.scarborough.me.us>) or by contacting the Purchasing Department at (207)730-4083, or kmorrison@scarboroughmaine.org.

RESPONSES

The response to this RFP shall be submitted in such form and quantity and at the location as is provided in this Request. The requested response must be submitted no later than **March 15, 2019 at 3:00PM EST. Mailing Address- Purchasing Department, P.O. Box 360 Scarborough, ME 04070-0360**

PROJECT/CONTRACT DEFINITION:

Over the past several years the Town of Scarborough has made an emphasis to improve traffic operations (safety, delay, congestion, and traffic progression) for Dunstan Corner. This has included a Maine DOT project to reconfigure the layout of the three intersection, to improve spacing, redesign each of the intersection's geometry and layout, upgrade traffic signal equipment, and to implement updated and optimized Time of Day (TOD) signal coordination plans. With these resources and emphasis some improvements in traffic operations have been realized. However due to the nature and composition of the traffic typical of Dunstan Corner, TOD signal coordination has not provided the optimal solutions and improvements to traffic operations that meet the goals and objectives of the Town. Dunstan Corner sees varying degrees of traffic volume due to the different users and make-up of the users. This includes; commuter traffic, school traffic, local traffic, vacationers, beach users, in addition to regional movements of good and services.

RFQ Schedule:

Event Name	Event Due Date
Deadline for Written Inquiries/Questions	March 1, 2019
Response to Written Inquiries/Questions	March 8, 2019
Deadline for Proposal Submission	March 15, 2019
Respondent(s) Presentation/Interview	Week of March 25-29, 2019
Award Announcement	On or about April 5, 2019
Project Must be Completed by Date	June 7, 2019

SCOPE OF SERVICES

The Town is seeking proposals from qualified vendors (product suppliers) (referred to variously as "proposer", "firm", or "vendor"). Please provide a proposal to provide a fully traffic signal adaptive control system for the Town of Scarborough for Dunstan Corner, as detailed below:

Traffic Adaptive Signal Control System

The Proposing Vendor (product supplier) shall identify their TAS product and all of the necessary equipment installations and communications requirements to install an effective Traffic Adaptive system for the Dunstan Corner project intersections. They shall also identify their products basic traffic adaptive theory, methodologies, and algorithms.

- System theory and methodologies
- Basic system components
- Signal interconnect requirements
- Network Communications requirements
- Cabinet requirements
- Signal Controller requirements
- Detection Requirements
- NTCIP protocols
- Does their product require separate components (hardware) in the cabinet
- Does their product load directly on the existing controller
- Does the system have remote communications and connection capabilities
- Specifically identify ability to work with existing traffic signal equipment
- What Reporting and MOE's does the system produce
- Is the product more suited for corridor progression or minimizing delays at system intersections and approaches.
- Other Product/Software attributes that make it the most appropriate or advantageous for the Dunstan Corner traffic operations and traffic volume conditions.

PROJECT PARTICIPANTS:

Members of the Town of Scarborough Public Works Department, Planning Department, and Sustainability Department will be responsible for developing a short list of firms to be interviewed. The Town may be aided in this effort by their on-call traffic engineering consultant. Selected firms will be invited to make a presentation to selected staff. Firms selected for presentations will also be sent a questionnaire, which is to be filled out and submitted a minimum of three (3) days prior to the presentation day. A recommendation to the Director of Public Works will be made after the vendor's information has been reviewed including qualifications package, answers to the questionnaire and interviews of the short-listed firms have been completed.

CONFLICT OF INTEREST:

The Town seeks to work with vendors (firms) that represent consumers, not suppliers, avoiding both the appearance, as well as any actual conflict of interest. Any subsequent disclosure of a conflict of interest after the award has been made, but which existed at the time of proposal submission, will be grounds for termination of any resulting contract.

RESERVATION OF RIGHTS:

- The Town of Scarborough reserves the right to reject all firms, decline to proceed with selection of any candidates, to request additional qualifications, and to make inquiries as may be necessary to verify qualifications.
- Nothing in this document shall require the Town of Scarborough to proceed with planning and/or any of the identified services.

SUBMITTAL REQUIREMENTS:

Follow these instructions carefully before submitting bid. Failure to follow these instructions and the rules may result in the rejection of your bid. The Department reserves the right to reject any and all bids, to waive minor or immaterial irregularities, informalities or technicalities, to advertise for new bids, or to request confirmation or clarification from any bidder regarding a bid:

In total, five (5) hard copies of the Submittals, including attachments, are required. Please submit one (1) original and four (4) copies of the bid. One (1) copy should be clipped together to facilitate document reproduction. The Submission should be limited to 30 pages, not including, cover pages, table of contents, section dividers and back page.

The envelope in which the Submittals are delivered must be clearly labeled on the outside with the Respondent's name and the project identification, "RFP-162019 Traffic Adaptive Signal (TAS)."

Submittals shall be delivered to the following addressee at or before Tuesday March 15, 2019, 3:00PM EST.

****This will not be a public bid opening****

Proposals must be addressed and delivered to:

**Kim Morrison
Purchasing Specialist
Town of Scarborough**

259 US Route One

PO Box 360

Scarborough, ME 04070-0360

Late submittals will not be accepted.

Hand delivered proposals will be date/time stamped/signed by the Town Clerk. Normal business hours are Mondays-Fridays 8:00 am to 4:00 pm, excluding holidays. The Town will not be liable to any Respondent for any unforeseen circumstances, delivery or postal delays. Postmarking on the due date will not substitute for receipt of the proposal. Each Respondent is responsible for submission of their Proposal.

SUBMISSION REQUIREMENTS:

Submittal Content: Each Submittal shall be organized in the following order:

Cover Letter:

A cover letter signed by an authorized representative of the company of Proposer shall outline the intent of the response and shall state that the information contained in the Proposal accurately describes the services to be provided. The cover letter shall also summarize what is enclosed in the qualifications submission.

Company Profile:

- Provide a description of your firm's company or business, its purpose, history and successes, including the number of years providing TAS.
- List any similar projects completed in the last 5 years or currently underway, the client/owner with contact info, and the approximate value of the work.
- Provide examples where the firm has successfully assisted municipalities, State Department of Transportation, Regional Planning Agencies, Counties or other similar entities with installing, fine tuning and assisting with ongoing maintenance and operations of a TAS.

Key Personnel:

Identify key personnel that would be employed for this project and provide a detailed resume and project history of their relevant experience, education & successes. Key personnel should demonstrate significant experience with the evaluation of existing traffic signal infrastructure, installation of TAS, proper fine tuning and adjustment of TAS after initial install, and sign. Proposer will also identify local suppliers and contractors that will serve as subconsultants on their team. Similar information to that of the Proposer, should be submitted on for each subconsultant; including 3 (three) references.

References:

Include a list of at least five (5) projects that the Contractor has successfully completed and provide associated references and contact information for the persons or organizations that engaged the Contractor. By submitting a proposal, the Proposer consents to Town contacting these references, and consents to Town also contacting any other organization for the purposes of evaluating the Proposal.

Approach:

Describe the approach and/or process proposed to address the project requirements. Include any notable methodologies, tools and techniques, and their respective suitability for this project. This may include:

- evaluation and inventory of existing traffic signal infrastructure
- collection and evaluation of existing traffic volumes and patterns
- set-up of the initial TAS operational parameters and ability to adjust to changing traffic volumes and patterns
- ability to drop out of adaptive mode if necessary and go back to existing TOD plans and/or free mode
- ability to review ongoing collection of traffic data and to adjust and fine tune the system,
- ability to reduce delay and congestion on all approaches at each intersection while also maintaining traffic progression through the 3 project intersections,
- ability to handle pedestrian phase calls and impacts to operations,
- ability to handle emergency pre-empts and impacts to operations.
- Ability to work with existing traffic signal infrastructure, existing equipment to be verified by proposer but generally is an Eagle/Siemens traffic control system with three local controllers and a master controller interconnected with fiber optics.

Equipment Procurement:

Describe the process for selecting appropriate fixtures and their associated costs. The Proposer should provide details on their method of developing specifications and how that ensures that appropriate quality standards are met.

Installation & Maintenance:

Based on the finalized design, the Proposer will describe their approach to installation and maintenance or oversight. The following elements should be covered:

- Description of Work

- Required installation schedule
- List of installed components
- Reference standards
- Submittals
- Quality Assurance and Warranty
- Installation
- Field Quality Control
- Adjusting and Fine Tuning
- Ongoing Maintenance and Operations Assistance
- Troubleshooting and Urgent Issues

Additional Information:

The proposer may provide any other information that may be relevant for the review and evaluation of the prospective vendor’s TAS system experience or capabilities.

Project Schedule:

The selected Proposer shall be expected to begin work based on a mutually-agreed upon schedule and complete the tasks in their entirety by June 7th 2019, unless otherwise agreed by the Town.

ADDITIONAL INSTRUCTIONS, NOTIFICATIONS AND INFORMATION

This RFP including any attachments can also be obtained from the Town of Scarborough’s web site at <http://www.scarborough.me.us/>

- The Town of Scarborough reserves the sole right to (1) evaluate the qualifications submitted; (2) waive any irregularities therein; (3) reject any or all Respondents submitting qualifications, should it be deemed in the Town’s best interest to do so.

Town welcomes questions regarding this solicitation in writing and must be received by the close of business on March 1st 2019. Questions should be emailed to: Kim Morrison, Purchasing Specialist kmorrison@scarboroughmaine.org Official responses will be posted on our purchasing website for all prospective submitters to review.

CRITERIA FOR SELECTION:

The purpose of this RFP process, as previously stated, is to identify a qualified vendor (product supplier) that is the most capable of providing the described TAS. Once identified and selected, this firm will then be invited to take part in a competitive negotiation process with the Town for a contract. If an agreement can be reached with the selected firm, a contract will be awarded thereto. If an agreement cannot be reached, the Town will proceed with negotiations with the next most-qualified vendor (product supplier).

EVALUATION CRITERIA:

RATING CATEGORY	WEIGHT
<p>Company Capability & Experience</p> <ul style="list-style-type: none"> • Respondent demonstrates strong knowledge of TAS • Respondent demonstrates knowledge of the Dunstan Corner Existing Conditions • Respondents demonstrates that their TAS is the most appropriate for Dunstan Corner 	25%
<p>Project References</p> <ul style="list-style-type: none"> • For the five project references. Each should: • Demonstrate high degree of responsiveness to client needs • References speak highly of all aspects of the project and TAS product and the key delivery personnel • Confirmation of satisfaction of client that TAS product was the appropriate solution and is providing a high degree of traffic operation improvements and is functioning as promised 	25%
<p>Qualifications & Experience of Project Team</p> <ul style="list-style-type: none"> • Sufficient staff to support project existing conditions review and inventory, evaluation, installation and implementation • Sufficient local staff to provide field troubleshooting calls and ongoing maintenance and operational support • Experience performing or managing all aspects of a TAS project • Experience on the projects listed as references 	25%
<p>Ability of proposed TAS to Work with Existing Traffic Signal Equipment & Communications</p> <ul style="list-style-type: none"> • Existing Vehicle Detection • Existing Signal Controllers • Existing Fiber Optics Signal Interconnection and Communications 	25%