TOWN OF WATERTOWN
WATERTOWN, CONNECTICUT

NOTICE OF BID

Bridge Replacement - West Road

Watertown Public Works Department

Sealed bids are invited and will be received by the Purchasing Agent of the Town of Watertown at the office of the Purchasing Agent, Town Hall Annex, 424 Main Street, Watertown, Connecticut, until 11:00 a.m., Thursday, July 23, 2015 at which time and place they will be publicly opened and read aloud for furnishing the specified bridge replacement to the Town of Watertown.

The Information for Bidders, Form of Bid, Plans, Specifications, and other contract documents may be obtained or examined at the office of the Purchasing Agent, Town Hall Annex, 424 Main Street, Watertown, Connecticut 06795 or by accessing the Town of Watertown’s website at http://www.watertownct.org. Proposals must be submitted on the forms provided and in a sealed envelope plainly marked “Bid – Bridge Replacement”.

All bidders should attend the Pre-Bid meeting for the purpose of viewing the proposed scope of services required, and obtaining information relating to the proposed project. The meeting is scheduled for 1:00 p.m., Wednesday, July 15, 2015 at the jobsite. No additional viewing appointments will be scheduled.

To receive consideration bids must be in the hands of the Purchasing Agent or his authorized representative no later than the day and hour mentioned above.

The Purchasing Agent reserves the right to accept or reject any or all bids; to waive any informality; or to accept any bid deemed in the best interests of the Town of Watertown.

The Town of Watertown reserves the right to take into account the residency of bidders within the Town of Watertown and/or the location of the bidder’s business within the Town of Watertown in awarding this bid.

All bids will be considered valid for a period of sixty (60) days.

Jason Warner
Purchasing Agent
Town of Watertown
TOWN OF WATERTOWN
WATERTOWN, CONNECTICUT 06795

INFORMATION FOR BIDDERS

Bridge Replacement - West Road

Watertown Public Works Department

BID OPENING: 11:00 a.m., Thursday, July 23, 2015

PROPOSALS RECEIVED
All bids must be in a sealed envelope and received prior to 11:00 a.m., Thursday, July 23, 2015 at the office of the Purchasing Agent, 424 Main Street, Watertown, Connecticut 06795.

PREPARATION OF PROPOSALS
Proposals must be made upon forms contained herein. The blank spaces in the Proposal must be filled in correctly where indicated. The Bidder must state the prices for which he proposes to do each item of the work contemplated. In case of discrepancy where both words and the numerals are requested, the words shall govern. Ditto marks are not considered writing or printing and shall not be used. The Bidder shall sign his Proposal correctly. If the Proposal is made by an individual, his name, post office address and telephone number must be shown. If made by a firm, partnership, or corporation, the Proposal must be signed by an official of the firm, partnership, or corporation authorized to sign contracts, and must show the post office address and telephone number of the firm, partnership, or corporation. Failure to do so may disqualify the bid.

Each bid must be submitted in a sealed envelope bearing on the outside the name of the Bidder, post office address, and name of the project for which the bid is submitted. If forwarded by mail, the sealed envelope containing the bid must be enclosed in another envelope addressed to: The Purchasing Agent, Town Hall Annex, 424 Main Street, Watertown, CT 06795.

All information shall be entered in ink or by typewriter. Mistakes may be crossed out and corrections inserted before submission of your bid. The person signing the bid shall initial corrections in ink.

Corrections and/or modifications received after the closing time specified will not be accepted.

SUBMISSION OF PROPOSALS
All proposals and literature shall be submitted IN DUPLICATE on the proposal form, which is a part of these specifications.

Descriptive literature containing complete specifications must accompany each bid. If a bidder wishes to furnish additional information, more sheets may be added.
Adobe Acrobat® Reader is required to view electronic documents on-line. If you do not have Adobe Acrobat® Reader, you may download it for free from Adobe at http://www.adobe.com/products/acrobat/readstep.html.

Response summaries will be available online at http://www.watertownct.org on the day of the bid opening.

Responses delivered via fax are received subject to the following qualifications and limitations:

- The Town is not responsible for the confidentiality of the information transmitted.
- The Town cannot guarantee that its fax equipment will be operational and able to receive transmittals by a particular time and date. It is the Bidder's responsibility to ensure that quotations are received in their entirety and on time at the required location. It is recommended that vendors be advised to call immediately after transmitting a document electronically to confirm complete and accurate receipt by the Town. The Town assumes no liability in the event that a bidder's electronic transmission is not received by the Town in a timely fashion, or is not received either in its entirety or error-free.
- Bids transmitted electronically which have a bond requirement are subject to the same submittal requirements as those responses delivered via traditional means, such as mail or hand delivery, or as otherwise stipulated by appropriate authority.

**INCURRING COSTS**
The Town of Watertown is not liable for any cost incurred for the preparation of proposals or submission of samples by the firms submitting proposals for the work requested in this bid document or request for proposals.

**FAMILIARITY WITH THE WORK**
Each bidder is considered to have examined the work to fully acquaint himself with the exact existing conditions relating to the work and has fully informed himself as to the work involved and the difficulties and restrictions attending the performance of this bid. Failure to do so will not relieve a bidder of his obligation to furnish all labor, superintendence, materials, plant, tools and equipment necessary to carry out the work for the consideration set forth in this bid. The submission of a bid will be considered as conclusive evidence that the bidder has made such examination.

Where exploration or inspection data is shown on the Plans and/or specifications or made available to the Bidder, it is understood that such data where obtained in the usual manner and with reasonable care and are to be interpreted and used as the Bidder sees fit. There is no expressed or implied agreement that the data has been correctly indicated, and the Bidder is cautioned to take into account that conditions affecting the work may differ from those indicated.

The Owner assumes no responsibility whatsoever with respect to ascertaining for the Contractor such facts concerning physical characteristics relating to this project. The Bidder agrees that he shall make no claim for and has no right to additional payment or extension of time for completion of the work, or any other concession, because of any interpretations or misunderstanding on his part of this bid, or because of any failure on
his part to fully acquaint himself with all conditions relating to the work. Permission for making borings, test pits, destructive tests or other investigations of subsurface conditions will be arranged for by the bidder upon receipt of a written approval by the Town.

**CONSIDERATION OF PRIOR SERVICE**
Previous performance, quality of service and merchandise will be considered.

**ADDENDA AND INTERPRETATIONS & ALTERNATE PROPOSALS**
Addenda information will be available online at [http://www.watertownct.org](http://www.watertownct.org). Adobe Acrobat® Reader may be required to view this document. It is strongly suggest that Bidders check for any addenda a minimum of forty eight hours in advance of the bid deadline.

At the time of the opening of bids each Bidder will be presumed to have inspected the work and to have read and to be thoroughly familiar with all of the Contract Documents (including all addenda). The failure or omission of any Bidder to receive or examine any form, instruction or document shall in no way relieve any bidder from any obligation in respect to his bid.

If any person contemplating submitting a proposal is in doubt as to the true meaning of any part of these specifications, he may submit a written request for an interpretation to the Purchasing Agent. No interpretations as to the meaning of the plans, specifications or other Contract Documents will be made to any Bidder orally.

Every request for such interpretation should be in writing addressed (duplicate copy) to the Town of Watertown, Purchasing Agent, 424 Main Street, Watertown, Connecticut 06795, and to be given consideration, must be received at least five (5) days prior to the date fixed for the opening of Bids. Any and all such interpretations and any supplementary instructions will be in the form of written Addenda to the Specifications which, if issued, will be mailed by Registered Mail with Return Receipt Requested to all prospective Bidders at the respective addresses furnished for such purposes, not later than three (3) days prior to the date fixed for the opening of bids. Failure of any Bidder to receive any such Addendum or interpretations shall not relieve any Bidder from any obligations under his bid as submitted. All Addenda so issued shall become part of the Contract Documents. Oral explanations will not be binding on the Town.

The specifications listed are to be interpreted as meaning the minimum acceptable by the Town of Watertown. Bidders are requested to submit quotations on the basis of these specifications. Alternative bids providing a broader scope and/or services than requested in these specifications may receive consideration providing such equipment and/or service is clearly explained. Any exceptions to the specifications requested herein must be clearly noted in writing and are to be included as a part of the bid proposal. If none are included it will be assumed that there are none.

Definition of the word "complete" means that each unit of the equipment proposed shall include all appurtenances, fasteners, parts, accessories, and services ordinarily catalogued.
An item equal to that named or described in the specifications may be furnished by the Bidder, except where expressly noted as “no substitutions.” The naming of any commercial name, trademark, or other identification shall not be construed to exclude any item of any manufacturer not mentioned by name, nor limit competition, but shall establish a standard of equality only. An item shall be considered equal to the item so named or described if:

- It is at least equal in quality, durability, appearance, strength and design.
- It will perform at least equally the function imposed by the design for the work being contracted for or the material being purchased.
- It conforms substantially, even with deviations, to the detailed requirements for the item in the specifications.

The Bidder shall hold the Town of Watertown, its officers, agents, servants, and employees, harmless from liability of any nature or kind because of use of any copyrighted or uncopyrighted compositions, secret process, patented or unpatented inventions, articles or appliances furnished or used under this bid, and agrees to defend, at his own expense, any and all actions brought against the Town of Watertown or himself because of the unauthorized use of such articles.

**QUOTATION LIMITATION**

Bidders shall offer only ONE ITEM AND PRICE for each line item bid. If an or equal item is to be bid, the bidder is to select the brand and model that meets or exceeds the specified item, and submit his bid for that item.

**ESTIMATE OF WORK**

For bidding purposes, the work has been subdivided into unit price items. The quantities shown are to be considered as approximate only. The Purchasing Agent does not expressly or by implication agree that the actual quantity will correspond therewith, but reserves the right to increase or decrease the amount of any item or portion of the work as deemed necessary.

**SAMPLES**

Samples of articles, when required shall be furnished free of cost of any sort to the Town of Watertown. Samples received may be retained by the Town for future comparison. Samples which are not destroyed by testing, or which are not retained for future comparison will be returned upon request at the bidder's expense.

**WITHDRAWAL OF BID**

Bidders may withdraw their proposals at any time prior to the bid date. No agent/broker shall withdraw or cancel their proposal for a period of sixty (60) days after the bid closing date of 11:00 a.m., Thursday, July 23, 2015. The successful agent/broker shall not withdraw, cancel or modify their proposal.

**PERFORMANCE BONDS / PAYMENT BONDS**

A performance bond is required and shall be in the amount of 100% of the bid award, in the name of the "Town of Watertown", in the form and with a surety company approved by the State Commissioner of banking and insurance, and issued within ten (10) calendar days of the bid award date. Surety companies executing Bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State of Connecticut. This financial instrument shall be for the faithful performance of the contract, and shall be used at the sole discretion of the Town.
of Watertown to pay liquidated Damages for failure or refusal to perform in accordance with the contract. No withdrawals shall be made until after five (5) calendar days notice of noncompliance with the contract is sent by certified U.S. Mail. This in no way limits further actions the Town of Watertown may take.

**POWER OF ATTORNEY**
Attorneys-in-fact who sign contract bonds must file, with each bond, a certified and effectively dated copy of their power of attorney.

**EXECUTION OF CONTRACT**
The party to whom the Contract is awarded, or his authorized representative, will be required to attend at the office of the Purchasing Agent of the Town of Watertown, with the sureties offered by him or them, and a current certificate of Corporate good standing issued by the Office of the Secretary of State, in which the corporation is incorporated, and execute the Contract within five (5) days from the date of the award. If the party entering into this contract is a corporation, a Corporate Resolution duly executed by the President and Secretary of the Corporation authorizing the Corporation to enter into this Contract shall be provided. In case of his failure or neglect so to do, the Town may, at its option, determine that the Bidder has abandoned the Contract, and thereupon the Proposal and acceptance shall be null and void, and bid security accompanying the Proposal shall be forfeited as liquidated damages to the Town. If the party entering into this contract is a partnership, a partnership resolution duly executed by a majority of the general partners authorizing the partnership to enter into this contract shall be provided.

**SUBCONTRACTORS**
- Each bidder contemplating the use of any subcontractor shall submit a list of subcontractors as listed on theBid Form.
- The apparent low bidder shall file with the Town of Watertown, within five (5) days after the date of bid opening, a complete list of the names and addresses of competent, responsible and qualified subcontractors who are actually to perform major portions of the work. This in no way restricts or limits the requirement that all subcontractors must be approved by the Town.
- Subcontractors listed on the Bid Form or those previously approved may not be changed without the approval of the Town of Watertown.

Local subcontractors, material suppliers, and labor in the Town of Watertown should be considered and sought insofar, as is practical in the performance of this project.

**QUALIFICATION OF BIDDER**
In determining the qualifications of a bidder, the Town may consider his record in the performance of any contracts for similar work into which he may have previously entered; and the Town expressly reserves the right to reject the bid of such bidder if such record discloses that such bidder, in the opinion of the Town, has not properly performed such contracts or has habitually, and without just cause, neglected the payment of bills or has otherwise disregarded his obligations to subcontractors, suppliers, state or local codes, men or employees of subcontractors.

The Town may make such investigation as he deems necessary to determine the ability of the bidder to perform the work and the bidder shall furnish to the Town all such information and data for this purpose as the Town may request. The Town reserves the
right to reject any bid if the evidence submitted by or the investigation of such bidder fails to satisfy the Town that such bidder is properly qualified, or that such bidder misrepresented material facts in the bid documents.

**DISQUALIFICATION OF BIDDERS**
More than one proposal from an individual, firm, partnership, corporation, or an association under the same or different names will not be considered. Reasonable grounds for believing that any Bidder is interested in more than one proposal for the work contemplated will cause the rejection of all proposals in which such Bidder is interested. Any or all proposals in which such Bidder is interested will be rejected if there is reason for believing that collusion exists among the Bidders and all participants in such collusion will not be considered in future proposals for the same work. Proposals in which the prices are obviously unbalanced may be rejected. No Contract will be awarded except to competent Bidders capable of performing the class of work contemplated.

**SERVICE CENTER REQUIREMENTS**
Bidders must state the location of the nearest available factory authorized service center and the availability of twenty four (24) hour a day emergency service for all components of the equipment specified.

**DELIVERY**
Inasmuch as this work concerns a needed public improvement, the provisions of this bid relating to the time of delivery, performance and completion of the work are of the essence of this bid. Accordingly, the successful bidder shall commence work upon receipt of the signed Purchase Order unless the Town shall authorize or direct a further delay. It is the Town's desire to have the replacement bridge set and in place **Within 120 Days**. The concrete and mortar repair need not meet the same deadlines, however the schedule of work must be acceptable by the Town.

Time of delivery shall be stated as the number of calendar days following receipt of the Purchase Order by the Bidder to receipt of the goods or services by the Town of Watertown.
Prices quoted must include delivery to the Town of Watertown as specified on the Purchase Order. No charges will be allowed for parking, crating, freight, express or cartage unless specifically stated and included in this bid.

Time of delivery may be considered in the award.

**PAYMENT**

The successful bidder shall execute three (3) copies of the contract agreements. Monthly payments to the Bidder shall be made on ninety-five percent (95%) of the value of work completed, materials and supplies delivered to the site and properly stored. The successful Bidder for this project shall be required to submit a Mechanics Lien Waiver, acceptable to the Town, with each progress payment, and at time of final payment, prior to any payment made.

The Town, after inspection and acceptance of workmanship, and in consideration of the faithful performance by the Bidder of all and singular his covenants, promises, and agreements contained herein, agrees to pay the Bidder for the full completion by him of the work embraced in this Contract, within (30) Thirty Days of the receipt of the final invoice. When subcontractors or suppliers are utilized, the successful Bidder for this project shall be required to submit a Mechanics Lien Waiver, acceptable to the Town, with each progress payment and/or at time of final payment prior to any payment being made.

Time, in connection with any discount offered, will be computed from the date of delivery to the Town or from the date a correct invoice is received by the Town's Finance Department, if the latter date is later than the date of delivery.

Prices will be considered as **NET**, if no cash or payment discount is shown.

The successful bidder shall submit invoices to the following address:

Town of Watertown  
Public Works Department  
61 Echo Lake Road  
Watertown, CT 06795

**IT IS UNDERSTOOD AND AGREED THAT SHOULD A BID BE ACCEPTED, IT WILL AUTOMATICALLY BECOME THE CONTRACT OR AN ADDENDUM TO ANY CONTRACT AGREED UPON.**

Notification of the bid award will be made by issuance of a purchase order. Bidders are to list their bids on the appropriate attached sheets. Bidders may attach a letter of explanation. A clear notification should be made on the standard bid sheets at the appropriate point of explanation that there is a letter of explanation attached. All bids must be NET prices.
The successful bidder shall submit an itemized invoice to the Town of Watertown for the work as described herein.

The bidder shall be required to submit a Mechanics Lien Waiver, acceptable to the Town of Watertown, with each progress payment and at time of final payment prior to any payment being made.

At the time of award the successful bidder shall be required to supply the Town of Watertown a Certificate of Good Standing, certifying that the corporation is in fact a valid corporation and presently licensed to conduct business in the State of Connecticut.

**SALES TAX**
Certain materials and supplies incorporated in the work of this project are exempt from Connecticut Sales Tax. The Bidder shall familiarize himself with current regulations of the State Tax Department. The tax on materials or supplies exempted by such regulations shall not be included as part of the bid. The Town will furnish the successful Bidder sales tax exemption authorization.

**CARE AND PROTECTION OF PROPERTY**
The Bidder shall take particular care to avoid damages to all private and public property and to private or public improvements within the Town's right of way. He shall make good any damages to the satisfaction of the Town. There shall be no additional compensation for the repair or restoration of private or public property improvements.

**COMPLIANCE WITH FEDERAL, STATE AND LOCAL CODES**
The Bidder shall be responsible for full compliance with any Federal, State and/or Local codes, laws, regulations and standards, as applicable.

**AWARD**
The Town of Watertown reserves the right to accept or reject any bid to best serve its interests, or to hold the bids for sixty (60) days before decision.

The Town reserves the right to reject any and all bids (or any part thereof), to waive defects in proposals, or to accept any proposal deemed to be in its best interest.

Exceptions will be considered to the specification provided, providing they are listed and fully explained on a separate page entitled "EXCEPTIONS TO SPECIFICATIONS"

Each exception will be considered as to its degree of impact and total effect on the bid. The purchaser shall determine which (if any taken) exceptions are acceptable, and this determination shall be final.
The Town of Watertown reserves the right:

- To award bids received on the basis of individual items, or groups of items, or on the entire list of items.
- To reject any or all bids, or any part thereof.
- To waive any informality in the bids.
- The Town of Watertown reserves the right to take into account the residency of bidders within the Town of Watertown and/or the location of the bidders business within the Town of Watertown in awarding this bid.
- To accept the bid that is in the best interest of the Town of Watertown. The Purchasing Agent’s decision shall be final.

**INSURANCE**

A. **General:**

The Bidder shall be responsible for maintaining insurance coverage in force for the life of the contract of the kinds and adequate amounts to secure all of the Bidder’s obligations under the contract with an insurance company with an AM Best Rating of A - VII or better licensed to write such insurance in Connecticut and acceptable to the Town of Watertown.

The insurer shall provide the Town of Watertown with Certificates of Insurance signed by an authorized representative of the insurance company(ies) prior to the performance of this contract describing the coverage and providing that the insurer shall give the Town of Watertown written notice at least thirty (30) days in advance of any termination, expiration, or any and all change in coverage.

Such insurance or renewals or replacements thereof shall remain in force during the Bidder’s responsibility under this agreement.

The Bidder at his own cost and expense shall procure and maintain all insurance required and shall name the Town of Watertown, its employees, departments, boards, committees and commissions, as an additional insured on all contracts except Worker’s Compensation and Professional Errors & Omissions coverage.

In order to facilitate this requirement for insurance, it is recommended that the bidder forward a copy of this exhibit to the bidder’s insurance representative(s).

B. **Specific Requirements:**

(1) **Workers’ Compensation Insurance**

The Bidder shall provide Workers’ Compensation Insurance required by law and the Employer’s Liability Insurance for at least the amounts of liability for Bodily Injury by accident of $100,000 each accident; Bodily Injury by Disease each employee of $100,000; Bodily Injury by Disease, policy limit of $500,000.
(2) **Commercial General Liability Insurance**
The Bidder shall carry Commercial General Liability policy (Insurance Services Office Incorporated Form CG-0001 or equivalent). A per occurrence limit of $1,000,000 is required. The Aggregate Limit will be not less than $1,000,000.

(3) **Business Automobile Liability Insurance**
The Bidder shall carry Business Automobile Liability Insurance. (Insurance Services Office Incorporated Form CA-00001 or equivalent). A per occurrence limit of $1,000,000 is required. “Any Auto” (symbol 1 or equivalent) is required.

C. **Hold Harmless & Subcontractor’s Requirements:**
The Bidder shall require the same insurance that it is required to carry by the Town of Watertown to be carried by any subcontractors and independent contractors hired by the Bidder and to obtain Certificates of Insurance before subcontractors and independent contractors are permitted to begin work.

The Bidder shall require that the Town of Watertown be named as Additional Insured on all subcontractor’s and independent contractor’s policies before they are permitted to begin work.

The Bidder and all subcontractors and independent contractors and their insurers shall waive all rights of subrogation against the Town of Watertown, and its officers, agents, servants and employees for losses arising from the work performed by each on this contract.

The Bidder assumes and agrees to hold harmless, indemnify, protect and defend the Town of Watertown against any and all liability for injuries and damages to Bidder and to Bidder’s employees, agents, subcontractors and guests, third parties or otherwise incident to or resulting from any and all operations performed by a contractor under any terms of this contract.

D. **Other Data:**
NOTE 1: If Bidder is only a vendor shipping goods via Common Carrier only, General Liability is required.
NOTE 2: If Bidder is a Professional, Errors & Omission coverage will be required.
NOTE 3: The Town reserves the right to amend amounts of coverage required and the types of coverage provided based on work or service to be performed.

**OSHA 10 HOUR CERTIFICATION**
Proof of OSHA 10 Hour certification shall be submitted with certificate of insurance prior to the start of any construction activities. Workers not documented as having this certification shall not be allowed on the worksite, including any subcontractors.

**GUARANTEE**
The bidder shall unconditionally guarantee for a period of one (1) year from the date of acceptance, all materials, supplies, equipment, and services; including but not limited to its workmanship, delivery and installation. If within the guarantee period there are any defects or signs of deterioration the bidder shall repair, adjust or replace the item(s) to the
complete satisfaction of the Town. These repairs, adjustments, or replacements are at the sole expense of the bidder and shall be made at such times that are agreeable to the Purchasing Agent so that it is least detrimental to instructional programs.

REPAIRS FOR ONE (1) YEAR
The bidder's attention is especially directed to the Guarantee Section of the contract whereby two percent (2%) of the Contract amount will be retained for making repairs on the work, as may be required, during the guarantee period of one (1) year after the date of the final estimate.

PERMITS
When required all licenses and permits for complying with any applicable Federal, State, and Municipal laws, codes, regulations in connection with the prosecution of the work shall be obtained by the Bidder, at no additional cost to the Town. The cost of local building permits will be waived by the Town of Watertown.

NONDISCRIMINATION IN EMPLOYMENT
The successful bidder shall agree and warrant that, in the performance of this contract, he will not discriminate or permit discrimination against any person or group of persons on the grounds of race, color, sex, religion, or national origin in any manner prohibited by State, Federal, County, or Municipal law. A certification of Nonsegregated Facilities and a Certification Regarding Equal Employment Opportunity shall be considered a part of this contract.

DISPUTE RESOLUTION

1. Mandatory Negotiation.
The parties agree that they will attempt to negotiate in good faith any dispute of any nature arising under this agreement. The parties shall negotiate in good faith at not less than two (2) negotiation sessions prior to seeking any resolution of any dispute by any means under Dispute Resolution provisions contained herein below. Each party shall have the right to legal representation at any such negotiation session.

2. Mandatory Mediation.
Any dispute or question arising under the provisions of this agreement, which has not been resolved under the mandatory negotiation provision, shall be submitted to non-binding mediation before one (1) mediator agreed upon by the parties or appointed by the American Arbitration Association. Mediation proceedings shall take place at any suitable location in Watertown, Connecticut and shall be conducted in accordance with the rules and procedures of the mediation then applicable of the American Arbitration Association. If an independent mediator is agreed upon by the parties, said independent mediator shall establish the rules of such mediation. Each party shall pay one half of all costs and expenses of such mediation. The parties shall use their best efforts to reach a good faith resolution of said dispute within ninety (90) days after the commencement of the mediation proceedings. Any decision of the mediator shall not be binding upon the parties except by agreement of the parties.

3. Election to Begin Court Proceedings.
Provided the parties have completed the mandatory negotiation proceedings and the foregoing provisions with respect to mediation notwithstanding, if either party determines that mediation is not an appropriate means to settle any such dispute, such party shall have the right to commence judicial proceedings for the purpose of settling any such dispute.

**MECHANICS LIEN WAIVERS**
The successful Bidder shall be required to submit a Mechanics Lien Waiver, acceptable to the Town of Watertown, with each progress payment, and/or at time of final payment, prior to any payment made.

**PRE-BID CONSTRUCTION MEETING**
All bidders should attend the Pre-Bid meeting for the purpose of viewing the proposed scope of services required, and obtaining information relating to the proposed project. The meeting is scheduled for 1:00 p.m., Wednesday, July 15, 2015 at the jobsite. No additional viewing appointments will be scheduled.

For further technical or administrative information contact Jason Warner, Purchasing Agent at (860) 945-5260 or via email at warner@watertownct.org.
TOWN OF WATERTOWN
WATERTOWN, CONNECTICUT

GENERAL REQUIREMENTS

Bridge Replacement - West Road

Watertown Public Works Department

Scope of Work
The Contractor shall provide all labor, superintendence, materials, plant, tools and equipment necessary for properly constructing the specified bridge replacement and all other work necessary for the proper completion of the project as shown on the Contract Drawings and specified herein within the time stipulated.

Standards
Whenever reference is made in this Contract to the Standard of any technical society or other recognized organization, these shall be construed to mean the latest standard adopted and published at the date of the advertisement for bids.

Abbreviations are defined as follows:

ASTM - American Society for Testing and Materials
ANSI - American National Standards Institute
ASA - American Standards Association
ACI - American Concrete Institute
AASHTO - American Association of State Highway and Transportation Officials
ASME - American Society of Mechanical Engineers
IEEE - Institute of Electrical and Electronics Engineers
AWWA - American Water Works Association
ACPA - American Concrete Pipe Association

Lines and Grades
The Engineer will establish all principal benchmarks and lines and grades required for the work and will make the surveys and measurements necessary for determining pay quantities. All intermediate lines, grades, and measurements required for the construction details shall be laid out by the Contractor and he shall be responsible for their accuracy. The Contractor shall provide such facilities and men as may be necessary for the Engineer to check lines and grade points placed by the Contractor. All material required for grade stakes shall be furnished by the Contractor and after the required lines and grades have been established thereon, they shall be properly protected to prevent movement or displacement. The Contractor shall keep a transit and leveling instrument on or near the site at all times and a skilled instrument man, employed or obtained whenever necessary, for layout of all locations, dimensions, and levels, and no data, other than the information contained in the Drawings, Specifications, and written orders of the Engineer, shall justify departure from the dimensions and levels required by the Drawings.
**Contract Drawings and Working Drawings**
The work is shown on the accompanying Contract Drawings. Such additional working drawings, as required because of changes or to provide greater detail, will be provided by the Engineer.

**Alterations**
The Engineer may make alterations to the line, grade, plan, form, dimension, or materials of the work, or any part thereof, either before or after the commencement of the work. If such alterations increase the quantity of work, such increase will be paid for according to the quantity of such extra work actually done and at the prices stipulated for such work under unit price items of the Contract. In case no unit price is applicable, the alterations will be paid for as extra work defined in the Contract under the section entitled Extra Work.

**Planimeter**
The use of the planimeter shall be considered satisfactory for estimating quantities where geometric and analytic methods would be comparatively laborious.

**Contractor's Schedule of Operations**
The Contractor shall submit, within then (10) days of the date of the Notice to Proceed, a preliminary schedule of operations for the project to the Engineer for approval. The approved preliminary schedule shall be used to prepare a detailed schedule of the principal construction events including all proposed purchase and delivery dates for items with critical delivery times. A supplemental bar graph shall also be prepared based on this construction schedule. The detailed schedule and supplemental bar graph shall be submitted within ten (10) days of the date of the Notice to Proceed.

The status of the project shall be evaluated monthly by the Contractor and shall be compared to the original schedule which shall be revised, if necessary, and reissued.

**Coordination with Other Contractors and Utilities**
During the progress of the work, other contractors and/or utilities may be engaged in performing work in the area. The Contractor shall coordinate the work to be done under this Contract with the work of others.

**Cost Breakdown**
Prior to the first estimate for payment to the Contractor, the Contractor shall submit to the Engineer for approval a detailed cost breakdown of the various amounts to be paid for within each Lump Sum Item, as applicable. It shall also include, but not necessarily be limited to, proportional amounts of bonds, insurance, and miscellaneous works which are to be paid for throughout the life of the Contract, and which are not specifically included for payment under other Items and/or Division of the Contract.

**Estimated Quantities**
To aid the Engineer in determining quantities to be paid for, the Contractor shall, whenever requested, give the Engineer access to the proper invoices, bills of lading, or other pertinent documents and shall provide methods and assistance necessary for weighing or measuring materials.

**Payment for Miscellaneous Work**
No direct payment will be made to the Contractor for furnishing and providing miscellaneous temporary works, plant, and services, including Contractor's office, sanitary requirements, water supply, power, tools, equipment, lighting, telephone
systems, store houses, store yards, safety devices, permits, insurances, bonds, watchmen, clean up, and the like, or other items specified under these General Requirements, unless payment therefor has been specifically provided. Compensation for the same is understood to be included in the scheduled prices hereinbefore given for the various kinds of work contemplated.

**Extra Work**

The Contractor shall and will do any and all work and furnish any and all materials not herein provided for which, in the opinion of the Town, may be found necessary or advisable for the proper completion of the work or the purposes thereof, or any modifications or alterations thereto.

All extra work and materials shall be ordered in writing by the Town, and in no case will any work or materials in excess of the amount shown in the Plans and Specifications be paid for unless so ordered. Additionally if the extra work requires additional cost, a purchase order must be issued prior to work commencing, as required by Section 707 of the Watertown Town Charter. If an additional appropriation in excess of $25,000.00 is required, a special town meeting must be held to appropriate the funds in accordance with Section 704 of the Watertown Town Charter. No claim for delay shall be made as a result of this process. No voucher, claim or charge against the Town shall be paid, nor is the Town liable for any voucher, claim or charge unless a purchase order is issued. The Contractor further agrees that he shall accept, as full compensation for such extra work and materials, the unit price bid, in the case of Items covered by unit prices in the Proposal, and no more; and for such Items as are not covered by a unit price, he shall accept as full compensation:

- an agreed upon lump sum price, or
- the reasonable cost, as determined by the Town, of all necessary labor, including insurance and payroll taxes, equipment rental, and materials, plus fifteen percent (15%) which covers supervision, the use of tools and plant, and other overhead expenses and profit.

The equipment rental charge shall be at prevailing rates usually paid locally but shall in no case exceed the amount prorated on the basis of the monthly equipment rental rates compiled by the Associated Equipment Distributors.

When extra work is performed by an approved subcontractor, the Contractor shall be entitled to five percent (5%) of the direct cost of the subcontractor's work to cover his overhead expenses and profit.
The Contractor agrees to prosecute such extra work with all reasonable diligence and to employ thereon competent men. The Contractor shall give the Town access to all accounts, bills, payrolls, and vouchers relating to extra work not covered by unit prices, and he agrees that he shall have no claim for compensation for such extra work in the case of items not covered by unit prices, unless a statement in writing of the actual cost of the same, fully itemized as to labor and materials, is presented to the Town before the fifteenth (15th) day of the month following that during which each specific order was complied with by him.

**Drawings and Information to be Furnished by the Contractor**

For materials and equipment not supplied by the Owner, the Contractor shall promptly furnish to the Engineer, for his information, three (3) copies of drawings in detail of the materials, equipment, piping, and structural details for any part of the work for which Drawings are not to be issued by the Engineer. Before placing orders for any manufactured item or part of structure, he shall also submit three (3) copies, for approval, of detailed lists and descriptions of the various materials, fixtures, fittings, supplies which he proposes to use in the work, and also the names of individuals or companies who propose to furnish or manufacture the same. Copies of results of all tests of materials and equipment shall be furnished by the Contractor immediately following the performance of required tests.

Prior to the submittal of shop drawings, the Contractor shall check, approve, initial, and date the drawings and shall also indicate by reference the Specification and/or Plan which covers the item. Submittals will be returned to the Contractor if they have not been properly processed by him.

Approval by the Engineer of shop drawings for any material, apparatus, device, and layout shall not relieve the Contractor from the responsibility of furnishing same of proper dimension, size, quality, quantity, and all performance characteristics to efficiently perform the requirements and intent of the Contract Documents. Approval shall not relieve the Contractor from the responsibility for errors of any sort on the shop drawings. If the shop drawings deviate from the Contract Documents, the Contractor shall advise the Engineer of the deviations in writing, including the reasons for the deviation.

In the event the Contractor obtains the Engineer’s approval for the material, manufactured items, or equipment, other than that which is shown on the Plans or specified herein, the Contractor shall, at his own expense, make any changes as required in the structures, buildings, piping, or any other portion of the work necessary to accommodate the approved material, manufactured item, or equipment.

**Contract Limits**

The Contractor shall confine his activities to within street lines, easements, and rights-of-way.

The Contractor shall take particular care to protect trees and shrubs and private personal property. He shall make good any damage to the satisfaction of the Engineer.
The Contractor shall not enter upon or make use of any private property along the line of work, outside the limits of the rights-of-way, except when written permission is secured from the owner of said property and a copy delivered to the Engineer. The Contractor shall be held responsible for all damages or injury, done by himself or those in his employ, to any private or public property of any character during the prosecution of the work. The Contractor shall restore or repair at his own expense, in a manner satisfactory to the Engineer, such property as may be damaged by his operations during the prosecution of the work.

In case of failure on the part of the Contractor to restore or repair such property in a manner satisfactory to the Owner, the Owner may, upon 48 hours notice to the Contractor, proceed with such restoration or repair. The expense of such restoration or repair shall be deducted from any monies, which are due or may become due the Contractor under this Contract.

The Owner will obtain photographs and/or video tape recordings of the site prior to the start of work under this Contract and Agreement. These photographs and/or recordings will be used to judge the conditions of the site during the course of the work and the adequacy of restoration of the site after completion of the work.

**Cleaning up Site**

During the progress of the work, the Contractor shall keep the construction area in a neat condition, free from accumulations of waste materials and rubbish. Lunch papers, bottles, lumber cut-offs, drinking cups, and like rubbish shall be removed from the site daily. No alcoholic beverages will be permitted at the construction site(s).

On or before completion of the work and before acceptance and final payment shall be made, the Contractor shall clean and remove from the site and adjacent property all surplus and discarded materials, rubbish and temporary structures, and restore all property in an acceptable manner and leave the whole area in a neat and presentable condition.

**Storage of Materials**

Materials shall be stored so as to insure the preservation of their quality and fitness for the work. When considered necessary, they shall be placed on wooden platforms and covered or stored in a suitable building, as directed by the Engineer. Stored materials shall be located so as to facilitate prompt inspections.

Materials and equipment supplied by the Owner shall be jointly inspected by the Owner and the Contractor and shall, upon acceptance by the Contractor, become the Contractor's responsibility to make good any damage to the materials and equipment until they have been incorporated and accepted in the work.

**Removal of Condemned Materials**

The Contractor shall immediately remove all rejected and condemned materials of any kind brought to or incorporated in the work from the site of the work. No such rejected or condemned materials shall again be offered for use by the Contractor.
**Hauling Materials**
Before starting any work the Contractor shall arrange for the use of routes of travel for hauling materials, including surplus earth and rock, with the Municipal or State Officials having jurisdiction that will result in minimum inconvenience to the traveling public. Routes of travel so scheduled shall be adhered to throughout the course of the work, unless otherwise approved.

**Accommodation of Traffic**
During the progress of the work, all streets shall be kept open for the passage of traffic and pedestrians and shall not be obstructed unless authorized by the authority having jurisdiction over same. Driveways, sidewalks, and areas of roadway shall be closed as short a time as possible while work is in progress and passage shall be restored by the close of work every day, by properly placed backfill or approved bridging. The Contractor shall take such measures at his own expense as may be necessary to keep the street open for traffic and shall give advance notice to the Fire and Police Departments, and the Board of Education of his proposed street operations. He further agrees to be responsible for all legal notices to the public concerning the state of the roads while the work is in progress.

Warning signs shall be provided along all streets while work is in progress and, where traffic direction is required, flagmen shall be designated by the Contractor to direct traffic past the equipment, machinery, or construction operations. Barricades and lights shall be provided as required to protect life and property. Where trenches have been cut in streets on which traffic may pass at times, warning signs shall be placed at frequent intervals and maintained until the street is safe for travel. All such work and operations shall be in accordance with requirements of the Owner and the Specification herein. The use of unauthorized or unapproved signs, barricades, or traffic delineators will not be permitted.

The Contractor shall construct and maintain, without extra compensation, such adequate and proper bridges over excavations as may be necessary or directed for the purpose of accommodating pedestrians and vehicles. Ingress and egress to private property, satisfactory to the Engineer, shall be continuously provided.

Should the Contractor or his employees neglect to set out and maintain barricades or lights, as required in the Specifications, the Engineer may immediately and without notice arrange for furnishing, installing and maintaining barricades or lights and any other precaution deemed necessary. The cost thereof shall be borne by the Contractor and may be deducted from any amount due or to become due to the Contractor under this Contract.

The Contractor shall be held responsible for any damages that may have to be paid as a consequence of the Contractor's failure to protect the public.
The Engineer and the Chief of Police will determine the need for uniformed police officers for traffic control. If uniformed police officers are deemed necessary, the cost of the officers will be borne by the Town, unless otherwise specified.

**Temporary Roads (if required)**
The Contractor shall be responsible for providing and maintaining such temporary access roads, to and along right-of-way, as are necessary for transportation of materials and equipment. Where such roads are on private property he shall obtain permission for their construction and use and pay all costs pertaining thereto.

**Dust Control**
The Contractor shall take all necessary precautions to prevent and abate nuisance caused by dust arising from his operations. Approved methods applicable to various parts of the work, such as application of water spray or calcium chloride, shall be employed. This also applies to maintaining temporary paving nuisance-free until permanent paving is placed. The area of construction along roadways shall be broom swept each day after completion of the day’s work and the application of water as necessary, all at no additional cost to the Owner.

**Working Conditions**
In prosecuting the work of this Contract, the Contractor shall provide working conditions on each operation that shall be as safe and healthful as the nature of the operation permits. He shall comply with all safety and sanitary rules, laws and regulations.

**Work in Inclement Weather**
During freezing, stormy or inclement weather, no work shall be performed except such as can be done satisfactorily and in such manner as to secure first-class construction throughout.

**Working Hours**
The Contractor’s working schedule shall be confined to a five (5) day week, Monday through Friday, and the working day shall be confined between the hours of 7:00 a.m. and 6:00 p.m. current local time.

Unless otherwise especially permitted, no work shall be done between the hours of 6:00 p.m. and 7:00 a.m. except as necessary or the proper care and protection of the work already performed. If it shall become absolutely necessary to perform work at night, the Engineer shall be informed at least 24 hours in advance of the beginning of the performance of such work. Only such work shall be done at night as can be done satisfactorily and in a first-class manner. Good lighting and all other necessary facilities for carrying out and inspecting the work shall be provided and maintained at all points where such work is being done.

**Emergency Work**
The Contractor shall file, with the Public Works, Fire and Police Departments of the Town of Watertown, the name and telephone number of a person authorized by him who may be contacted regarding emergency work at the job site that may be required during non-working hours for reasons of public safety. This person shall be readily available and have full authority to deal with any emergency that may occur.

**Environmental Compliance**
A. General
This section of the Contract is provided to identify those construction activities or other activities under the Town’s control or jurisdiction which may have a negative effect on the environment, including the Town’s native waters and natural resources, and to prevent or minimize any damage to the environment which might result from such activities, both during and following the completion of any transportation project.

This section reinforces those environmental protection requirements which the Contractor is bound to meet under the terms of the Contract, or under Federal, State or Local laws and regulations. If a Contractor fails to comply with environmental provisions of the Contract or law, the Contractor shall be penalized as provided in this Section and as provided elsewhere in this Contract.

B. Compliance with Laws and Regulations.
The Contractor shall at all times conduct his operations in conformity with all Federal, State and Local permit requirements concerning water, air or noise pollution or the disposal of contaminated or hazardous materials. Permit requirements include but are not limited to those established by regulations administered by the United States Coast Guard, the U.S. Army Corps of Engineers and the U.S. Environmental Protection.

Appropriate permits shall be required for all activities associated with or incidental to the Contractor’s operations including, but not limited to, those on the Project site and in all adjacent areas, waste and disposal areas, borrow and gravel banks, storage areas, haul roads, access roads, detours, field offices, and any other temporary staging areas. The Contractor shall be responsible for, and hold the Town harmless from, any penalties or fines which may be assessed by any authority due to the Contractor’s failure to comply with the terms of all applicable permit requirements.

The Town will submit all applications and obtain all permits required for Contract work within the limits shown on the plans or identified elsewhere in the Contract documents. The Contractor shall transfer the Watertown Conservation permit from the name of the Town to his own name. A copy of the permit application and the permit are attached.

Any request by the Contractor for authorization of activities or methods not specifically called for by the Contract, plans, applications submitted or applicable permits issued for the Project must be submitted by the Contractor in writing to the Engineer, and must include a detailed description of the proposed activities or methods, the justification for those activities and supporting documentation showing the proposed activity or method will not create risks of damage to the environment. If such proposal is accepted by the Engineer, the Town will process an application to the appropriate regulatory agency or agencies for any permit amendment, modification, revision or new permit required for the Contractor to carry out the additional activities or implement the changed methods on the Project. The Town does not, however, guarantee that it will be able to obtain the desired permit amendment, modification or revision, and the Town will not be liable for the effects of any inability to do so. No extension of time will be granted as a result of the contractor’s request to perform work not authorized as part of the established permit requirements. If the amendment, modification, or revision of the permit is not necessary
for the Contractor to perform the work as required by the original Contract or as subsequently ordered by the Engineer, then no claim may be made by the Contractor based on the amount of time taken by the Town to review the Contractor’s proposal, or to apply for or secure the permit amendment, modification or revision. No such proposed additional activity shall commence, nor shall such a changed method be implemented until and unless the Engineer approves in writing the Contractor’s request.

In case of failure on the part of the Contractor to perform pollution control work as determined by the Engineer, the Engineer may, upon 24 hours written notice, arrange for the performance of the work by approved forces and the cost thereof will be deducted from any monies due or which may become due the Contractor under the Contract or under any other State contract.

C. Water Pollution Control
1. The Contractor shall, throughout the life of the contract, control and abate siltation, sedimentation and pollution of all waters, underground water systems, inland wetlands, and navigable waters for work appearing on the plans. Temporary construction methods proposed by the Contractor shall also conform to all application or permit requirements. The Contractor shall assume responsibility for all obligations and costs incurred under the terms and conditions of such permit applications or permits.

The Contractor shall obtain any permits and pay any fees required for the performance of work which is not included in the original Contract or which is to be done outside the Project limits but which is proposed in the fulfillment of his Contract obligations including, but no limited to, the removal of material from, deposition of materials in, obstruction of, construction within, alteration or pollution of any inland wetland, navigable water, streams, ponds, lakes, water supplies or other water bodies.

2. The following items may be superseded by specific permits from the Connecticut Department of Environmental Protection (DEP) or the Watertown Conservation Agency (WCA). The Contractor shall not make any design changes in the Contract work which requires a variance from the requirements of the following items until and unless the Contractor has first submitted a detailed written proposal for such changes to the Engineer for review by the Department and for transmittal to and review by the DEP and/or the WCA and then received approval form the Town of the proposed variances.

BEST MANAGEMENT PRACTICES
1. No construction shall proceed until erosion and sedimentation control plans, prepared by the Contractor, have been submitted in writing and approved by the Engineer, and until such controls have been installed as the Engineer directs. Such plans shall be consistent with the Connecticut Council on Soil & Water Conservation document “Connecticut Guidelines for Soil Erosion and Sediment Control,” as revised and the 2004 Connecticut Stormwater Quality Manual, which are available from the Connecticut Department of Environmental Protection, and with the Department document “On Site Mitigation for Construction Activities,” as revised.
2. Refueling of equipment or machinery within 8 m of any wetland or watercourse shall be allowed only with the approval of the Engineer.
3. No construction shall proceed until a written proposal of methods to prevent construction debris, paint, spent blast materials, or other materials from entering the wetland or watercourse has been submitted by the Contractor to the Engineer and approved by the Engineer, and such methods have been implemented as the Engineer directs. These materials shall be collected and disposed of in an environmentally safe manner in accordance with all applicable Federal, State and local laws and regulations. The Engineer may order the Contractor to cease such activity temporarily if, in the judgement of the Engineer, wind or storm conditions threaten to cause the deposit of such materials into a waterway.
4. No materials resulting from construction activities shall be placed in or allowed to contribute to the degradation of an adjacent wetland or watercourse. Disposal of any material shall be in accordance with Connecticut General Statutes, including but not limited to Sections 22a-207 through 22a-209.
5. Fording of streams with equipment shall be prohibited, except as approved by the Engineer and as permitted by the WCA. Such equipment travel shall be minimized. Where frequent equipment travel on stream banks and beds is necessary, washed stone shall be placed to minimize erosion, sour, and turbidity, provided no significant grade change will be required for any haul road or temporary structure placed in wetlands or watercourses.
6. All off-site disposal locations for material and debris resulting from the progress of the Project shall be submitted in writing to the Engineer who shall determine whether or not they are acceptable. The Contractor shall ensure that these locations are outside of designated wetlands or watercourses, unless otherwise approved by local, state, or federal agencies with jurisdiction over the matter.
7. A construction sequencing plan and a water handling plan including a contingency plan for flood events must be submitted in writing to the Engineer and approved by the Engineer prior to the commencement of any construction in a waterway. Water shall be kept deep enough in the channel to allow for the passage of fish and the continuous flow of the watercourse as required by the Engineer.
8. When dewatering is necessary, pumps shall not discharge directly into the wetland or watercourse. Prior to dewatering, the Contractor must submit to the Engineer a written proposal for specific methods and devices to be used, and obtain the Engineer's approval of such methods and devices to be used for dewatering activities, including, but not limited to, pumping the water into a temporary sedimentation bowl, providing surge protection at the inlet and outlet of pumps, or floating the intake of the pump, or other methods to minimize and retain the suspended solids. If the Engineer determines that the pumping operation is causing turbidity problems, said operation shall cease until such time as a means of
controlling turbidity is submitted by the Contractor, approved by the Engineer and implemented by the Contractor.

9. Work within or adjacent to watercourses shall be conducted during periods of low flow, whenever possible. The Engineer shall remain aware of flow conditions during the conduct of such work, and shall cause such activity to cease when flow conditions threaten to cause excessive erosion, siltation or turbidity. The Contractor shall make every effort to secure the work site before predicted major storms. A major storm shall be defined as a storm predicted by NOAA Weather Service with warnings of flooding, severe thunderstorms, or similarly severe weather conditions or effects.

10. All temporary fill shall be stabilized during use to prevent erosion and shall be suitably contained to prevent sediment or other particulate matter from reentering a wetland or watercourse. All areas affected by temporary fills must be restored to their original contours or as directed by the Engineer, and revegetated. The areal extent of temporary fill or excavation shall be confined to that area necessary to perform the work, as approved by the Engineer.

11. Seeding is to be accomplished within 7 days of the Contractor’s reaching an appropriate grading increment as determined by the Engineer. If the Engineer anticipates and notifies the Contractor, or if the Contractor intends, that a grading operation will be suspended for a period of 30 or more consecutive days, the Contractor shall, within the first 7 days of that suspension period, accomplish seeding, or take such other appropriate measures to stabilize the soil as may be required by the Engineer.

12. Dumping of oil, chemicals or other deleterious materials on the ground is forbidden. The Contractor shall provide a means of catching, retaining, and properly disposing of drained oil, removed oil filters, or other deleterious material. All spills of such materials shall be reported immediately by the Contractor to the DEP.

13. No application of herbicides or pesticides within 8 m of any wetland or watercourse will be allowed. All such applications must be done by a Connecticut licensed applicator. The Contractor shall submit to the Engineer the proposed applicator’s name and license number, and must receive the Engineer’s approval of the proposed applicator, before such application is carried out.

14. During spawning seasons, as defined in the Contract, discharges and construction activities in spawning areas of State Waters shall be restricted so as not to disturb or inhibit aquatic species which are indigenous to the waters.

If the Contractor wants to make changes in construction operations or scheduling which would affect the use of or necessity for any pollution controls, before beginning to implement those changes it must submit a written proposal detailing them to the Engineer, and must receive the Engineer’s approval of those changes. As part of its submission the Contractor must submit a plan showing what erosion and sedimentation
controls above and beyond those called for in the plans and specifications would be necessitated by the changes it proposes to make in the sequence or nature of Project construction activities and related operations.

The Contractor shall inspect temporary and permanent erosion and sedimentation controls immediately after each rainfall and at least daily during prolonged rainfall. The Contractor shall maintain all erosion and sedimentation control devices in a functional condition in accordance with the document “Connecticut Guidelines for Soil Erosion and Sediment Control,” as revised, and the Department’s document “On Site Mitigation for Construction Activities,” as revised. In the event the Contractor fails to maintain such devices in accordance with such documents, and the Contractor does not correct those failures within 24 hours after receipt of written notice of such failures from the Engineer, the Department may proceed with its own or other forces to remedy specified failure and the cost thereof will be deducted from monies due the Contractor under the Contract or under any other State contract.

D. Air Quality Control
The Contractor shall exercise every reasonable precaution throughout the life of the Contract to safeguard the air resources of the State by controlling or abating air pollution in accordance with the DEP’s regulations. These measures shall include the control and abatement of dust, mist, smoke, vapor, gas, aerosol, other particulate matter, odorous substances or any combination thereof arising from construction operations, hauling, storage or manufacture of materials.

E. Noise Pollution
The Contractor shall take measures to control the noise intensity caused by his construction operations and equipment, including but not limited to equipment used for drilling, pile driving, blasting, excavation or hauling.

All methods and devices employed to minimize noise shall be subject to the continuing approval of the Engineer. The maximum allowable level of noise at the nearest residence or occupied building shall be 90 decibels on the “A” weighted scale (dBA). Any operation that exceeds this standard will cease until a different construction methodology is developed to allow the work to proceed within the 90 dBA limit.

F. Contaminated and/or Hazardous Material
The Town will acquire any “Hazardous Waste Generator Permit(s)” required under the Resource Conservation and Recovery Act, for the management and disposal of all contaminated and/or hazardous material known to exist or discovered during construction operations, provided that:

1. such material is within the construction limits defined in the Contract, and;
2. such material is not comprised of waste materials generated by the Contractor.

If the Town has defined an area of known or suspected contamination within the Project limits, and if contaminated material in that area has not been removed prior to the start of
the Project, the disposition of such material shall be arranged for with an appropriate party.

In the event that the Contractor encounters or exposes any material, not previously known or suspected to be contaminated, but which exhibits abnormal properties which may indicate the presence of hazardous or contaminated material, the Contractor shall cease all operations in the vicinity of the abnormal condition, and the Engineer shall be notified immediately. The presence of barrels, discolored earth, metal, wood, visible fumes or smoke, abnormal odors or excessively hot earth may indicate the presence of hazardous or contaminated material, and shall be treated with extreme caution. The proper disposition of the material shall be arranged for with an appropriate party.

Unless otherwise provided for under a specific Contract item, direct Contractor involvement with hazardous or contaminated materials, other than those associated with Contract operations, is neither required nor solicited under this Contract.

When the Contractor performs support work incidental to the removal, treatment or disposal of hazardous or contaminated material, payment will be made at the unit prices for applicable pay items in the Contract. When the Contract does not include appropriate pay items, payment will be made in accordance with the section titled EXTRA WORK.

The Contractor shall faithfully observe all security precautions established pursuant to OSHA 239 CFR 1919.120, including all revisions and amendments, and shall not work in any area known to contain or suspected of containing hazardous or contaminated material without prior written approval of the Engineer.

The Contractor will assume sole responsibility for the proper storage, handling, management and disposal of all regulated materials and wastes associated with the Contractor’s operations, including but not limited to; lubricants, antifreeze, engine fluids, paints, and solvents. All costs associated with the Contractor’s failure to properly manage such materials in accordance with federal and state regulations, and all remedial and punitive costs incurred by the Town as a result of such failure will be borne by the Contractor.

Excluded from the requirements under this article are coatings removed by the Contractor for the purpose of painting structural steel or other steel elements. The debris resulting from paint removal shall be tested by the Town to determine whether or not it is contaminated or hazardous material. Once so tested, these materials shall be removed from the site and disposed of by the Contractor in accordance with applicable special provisions.

**Sedimentation and Erosion Control**

The Town has obtained a permit from the Watertown Conservation Commission. The Contractor shall transfer the permit to his own name. The sedimentation and erosion controls shall be installed in accordance with the publication entitled “Guidelines for Soil Erosion and Sediment Control”, by the Connecticut Council on Soil and Water
Conservation, January 1985. No work shall be started until the erosion and sediment controls are installed.

It is the Contractor’s responsibility to install any additional sedimentation and erosion control, as ordered by the Engineer or as required by site conditions. It is the Contractor’s responsibility for the adequate installation, operation and maintenance of sedimentation and erosion controls. No direct payment will be made for the installation, operation and maintenance of any sedimentation and erosion control.

*Work Near Brook(s) and Stream(s)*
Care shall be taken to prevent or reduce to a minimum any damage to any water body from pollution by debris, sedimentation or other material, or from manipulation of equipment and/or materials near such water bodies and on abutting property. Particular care shall be taken to prevent gasoline, diesel fuel, and other oils from entering any water body.

*Work Within or Near Areas Designated as Inland Wetlands*
Portions of this project are to be constructed in or near wooded areas and areas classified as inland wetlands. The Contractor shall limit disturbance of these areas, to what is absolutely necessary for construction, and restore these areas, as closely as possible, to their original state.

The Contractor shall familiarize himself with permits and maps held by the Town of Watertown indicating the wetlands. The Contractor shall be required to strictly adhere to all requirements and restrictions imposed by said permits.

The Contractor shall not introduce any substantial quantities of fill materials into any areas outside the contract limits.

*Soil and Groundwater Conditions*
The Owner assumes no responsibility whatsoever with respect to ascertaining for the Contractor such facts concerning physical characteristics at the site of the project. The Contractor agrees that he will make no claim for and has no right to additional payment or extension of time for completion of the work, or any other concession because of any interpretations or misunderstanding on his part of this Contract or because of any failure on his part to fully acquaint himself with all conditions relating to the work.

*General Sanitary Requirements*
The Contractor shall provide proper sanitary accommodations at a convenient place on or near the work site. They shall be cleaned daily and shall be adequately serviced.

The Contractor shall maintain a safe drinking water supply readily available to all workers.

*Water Supply and Electrical Energy*
The Contractor shall make his own arrangements for obtaining the electrical energy and water supply necessary for construction purposes at no additional cost to the Owner.

*Explosives and Blasting*
Explosives shall be stored, handled, and used in accordance with the laws, ordinance and regulations of the State of Connecticut, all local regulations and with such additional regulations as the Engineer may require. Blasting shall be conducted so as not to
endanger persons or property and, unless otherwise permitted, shall be covered or otherwise satisfactorily confined. The Contractor shall be responsible for and shall make good any damage of whatever nature caused by blasting or accidental explosions.

Sheeting, Shoring and Bracing
Where necessary the sides of trenches and excavations shall be supported by adequate sheeting, shoring and bracing. The Contractor shall be held accountable and responsible for the sufficiency of all sheeting, shoring and bracing used and for all damage to persons or property resulting from the improper quality, strength, placing, maintaining, or removing of the same. Where sheeting is removed care shall be taken not to disturb the new work or existing utilities and structures.

No sheeting is to be left in place unless expressly permitted by the Engineer. No direct payment will be made for sheeting, shoring and bracing and compensation for such work and all expenses incidental thereto shall be considered as included in the unit prices bid for the various items of this Contract.

Existing Structures
All known surface and underground structures, except electric and telephone service connections and water, gas and sewer service pipes, on or immediately adjacent to the work are shown on the Plans. Sewer, drainage, water and gas pipes, manholes and similar structures, located in or adjacent to the location of the structures included in this Contract, are shown on the Contract Drawings. This information is shown for the convenience of the Contractor in accordance with the best information available, but is not guaranteed to be correct or complete. The Contractor shall explore the route ahead of trenching and shall uncover all known obstructing pipes sufficiently to determine their location. Necessary changes in location may be made by the Engineer to avoid unanticipated obstructions.

Wherever water or gas mains, electric or telephone ducts or electric or telephone poles are encountered and may be in any way interfered with; the Contractor shall keep the utility company involved fully informed in advance. The Contractor shall cooperate with the utility company in the protection, removal, relocation and replacement of such structures.

The Contractor shall, at his own expense, sustain in their places and protect from direct or indirect injury, all utilities, pipes, poles, conduits, walls, buildings, and other structures and property in the vicinity of his work. Such sustaining and protecting shall be done carefully by the Contractor and as required by the party owning or controlling the facility. Before proceeding with such work, the Contractor shall satisfy the Engineer that the methods and procedures to be used have been approved by the party owning said structure. There shall be no additional compensation for this work and all expenses incidental thereto shall be considered as in the unit price bid for the various items of this Contract.

The Contractor shall take all risks attending the presence or proximity of pipes, poles, conduits, walls, buildings, wires or other structures, utilities and property in the vicinity of his work, and he shall be responsible for all damage and assume all expense for direct
or indirect injury caused by his work to any of them or to any person or property by reason of injury to them.

Guard rails, posts, guard cables, signs, poles, markers, mailboxes, fences, walls and stone walls, and other private improvements, which are temporarily removed, damaged or destroyed to facilitate installation of the sewer, shall be replaced and restored to a condition as good as or better than existed and to the satisfaction of the Owner or Engineer.

The Contractor shall, at his own expense, retain the services of a licensed surveyor to replace property markers, on or adjacent to privately owned property, which may have been disturbed during the course of construction.

**Marking New Underground Plant**
All new underground plant shall be marked with warning tape in accordance with State of Connecticut Public Act 16-345 and DPUC Regulations.

**Operation of Water Valves**
Unless otherwise permitted, existing water valves shall not be operated by the Contractor. Whenever the operation of a water valve is necessary, the Contractor shall make arrangements, at least 24 hours in advance of need, to have the Owner's forces perform the required operations. Contractor must prepare and distribute customer notices to all affected customers at least 24 hours prior to any shutdown of service.

**Testing Laboratories**
The Contractor shall provide, at no additional cost to the Owner, the services of approved testing laboratories to take samples of materials and perform tests as required under this Contract or as ordered by the Engineer. Payment for these services shall be included under the applicable items of the Contract, unless otherwise specified.
TOWN OF WATERTOWN
WATERTOWN, CONNECTICUT

TECHNICAL SPECIFICATIONS

Bridge Replacement - West Road

Watertown Public Works Department

Bidders shall:
- Provide a list of equipment available for the project
- Provide a list of references for work performed over the last five years in the State of Connecticut
- Provide a list of references for installation of pre-engineered bridge structures over the last five years in the state of Connecticut
- Provide a written description of the Contractor's concrete repair ability, including equipment, facilities, personnel and a list of similar complete projects.
- Provide a copy of OSHA 10 certification for each person working on project, including proposed subcontractors, if any.

Project Description
This entire project will consist of repairing the existing bridge substructure, removing the existing bridge superstructure, installation of a pre-engineered metal bridge structure and incidental related work on the bridge on West Road, Watertown, CT. The contractor shall be responsible for all work involved regards to the bridge.

TECHNICAL SPECIFICATIONS

All work is to be performed in accordance with the State of Connecticut Department of Transportation “Standard Specifications for Roads, Bridges and Incidental Construction, Form 816”, as supplemented and as amended below and in accordance with the plans, specifications and shop drawings or direction from bridge manufacturer.

Trafficmen:
Uniformed Police Officers will be required for all work performed in the roadway and shall be provided in accordance with the State of Connecticut Department of Transportation “Standard Specifications for Roads, Bridges and Incidental Construction”, Form 816, as amended. Upon approval by the Engineer, the contractor is to arrange for the Police Officers with the Watertown Police Department (860) 945-5200. The Town will be responsible for payment of the Officers. Contractor will be responsible for payment for officers when they are not required and the contractor fails to notify the Police Department in a timely fashion.
BITUMINOUS CONCRETE IN PLACE
SPECIFICATIONS

Description:

This item shall consist of providing and installing bituminous concrete pavement in place on the bridge and roadway. All work performed under this item shall be in accordance with the Section 9.22 and/or 4.06 of the State of Connecticut Department of Transportation “Standard Specifications for Roads, Bridges and Incidental Construction”, Form 816 as amended. It is expressly stated that the specific references to the Form 816 is for the technical requirements stated therein and that this project is not an 816 project nor are all of the other terms of the Form 816 applicable.

Mobilization and demobilization, saw cutting, tack coat and construction survey shall be included in the unit price bid and shall not be considered or paid as a separate item.

All contact surfaces of decking shall have a thin uniform coat of tack coat applied at a rate of 20 square yards per gallon prior to paving. Any base course paved areas left exposed for more than seven days shall be tack coated prior to placing the top course.

The unit price bids shall be for two inches (2") for the Class 1 course and two inches (2") for the Class 2 bituminous concrete course delivered and complete in place to the satisfaction of the Director of Public Works or Town Engineer. Asphalt escalation costs shall be included in the unit price bid and shall not be considered or paid as a separate item.

The quantities shown are to be considered as approximate only. The town reserves the right to increase or decrease the amount of the work as may be deemed necessary or permitted due to budgetary restrictions.

Compaction:

After placing, each course shall be thoroughly compacted to a minimum of 92% and maximum of 97% of density as determined by AASHTOT209 (modified).

All work shall be to the satisfaction of the Director of Public Works or Town Engineer. Work performed that is not done to the satisfaction of the Town shall be rectified to satisfaction of Town of Watertown at no additional expense to the Town.

Testing:

Contractor shall provide an independent material testing company equipped with a calibrated nuclear density gage to obtain at least six (6) satisfactory compaction tests per lift.

Method of Measurement:
This payment shall include all labor, tools, equipment, materials, tack coat, in place testing incidental thereto, except that tack coat required shall not be paid for separately but shall be included in the unit price paid for the work for which it is required. This payment for bridge deck bituminous concrete shall include all labor, tools, equipment, materials, tack coat, in place testing incidental thereto, except that tack coat required shall not be paid for separately but shall be included in the unit price paid for the work for which it is required as measured by the square feet of corrugated deck.

**Basis of Payment:**
Furnishing and placing of bituminous concrete shall be paid for at the contract unit price per ton for Bituminous Concrete for each class. This payment shall include all labor, tools, equipment, materials, tack coat, in place testing incidental thereto, except that tack coat required shall not be paid for separately but shall be included in the unit price paid for the work for which it is required.
Furnishing and placing bituminous concrete on the bridge decking shall be paid for at the contract unit price per square foot for Bridge Deck Bituminous Concrete. This payment shall include all labor, tools, equipment, materials, tack coat, in place testing incidental thereto, except that tack coat required shall not be paid for separately but shall be included in the unit price paid for the work for which it is required.
REMOVAL OF AND ALTERATIONS TO EXISTING BRIDGES
SPECIFICATIONS

Description:

This item consists of the removal and satisfactory off-site disposal of the West Road Bridge or parts thereof, including superstructure, substructure and approaches, the removal of which is necessary to the final completion of the work. All work shall be in conformance with the plans and Section 5.03 of the Connecticut Department of Transportation Standard Specifications for Roads, Bridges and Incidental Construction, Form 816, as amended herein and on the plans.

Construction Methods

1. Existing bridge components to be removed shall be taken down and disposed of by such methods as the Contractor shall propose, subject to approval by Town Engineer. Care shall be taken the removal does not result in injury to any permanent construction or to adjoining property. The existing stone abutments shall be removed to the lines and grades shown on contract drawings.
2. All work shall be performed in accordance with Article 5.03 of the Form 816.
3. Abutment stone to be reused in the wing wall elevations shall be carefully removed and stored on-site until such time as the existing walls to remain are elevated.

Method of Measurement

The existing structure removal work will not be measured for payment but will be paid at the contract lump sum price bid.
The repair and raising of stone wingwalls will be measured for payment by the cubic yard, complete and accepted in place as shown on drawings or as ordered by Town.

Basis of Payment

This work will be paid for as follows:

Contract lump sum price per each for “Removal of Superstructure”, complete and accepted in place, which price shall include all disposal of materials and all equipment, material, labor and work incidental thereto.

Contract unit price per cubic yard of “Repair and Raise Wingwalls”, complete and accepted in place, which price shall include all labor, equipment, tool, material and work incidental thereto.
INSTALLATION OF NEW BRIDGE SPECIFICATIONS

Description:

A Certified Bridge Installation Expert (CBIE) must be present during the construction and installation of the pre-engineered bridge. This item consists of the provision, assembly and installation of pre-engineered bridge with galvanized finish from manufacturer, in accordance with the plans and as directed by the CBIE representative on-site. All work shall be in conformance with the plans and the Connecticut Department of Transportation Standard Specifications for Roads, Bridges and Incidental Construction, Form 816, as amended herein and on the plans. The contractor will purchase the structure directly and provide shop drawings to the Town for review and approval prior to manufacture. Contractor is to arrange directly with CBIE for delivery and any required on-site representation period as part of this item. Anchor bolts, bearing pads, assembly hardware, joint fillers and bearing plates are to be included in bridge. Installation of these items, including drilling and grouting of anchor bolts are included in this unit price. Steel assembly consists of bolted connections. Contractor shall be responsible for coordinating utility relocation, if any, required. Contractor shall install any touch up painting required of any and all surfaces damaged during handling, loading, unloading, rigging, fit up and installation using guidelines supplied by bridge manufacturer. Contractor responsible for all construction surveying, including field measurement and verification of abutments and anchor bolt replacement. Contractor shall provide asphalt pavement over corrugated bridge deck in accordance with manufacturer’s instruction.

Materials

The materials required for this work shall be as shown on the plans or as provided by manufacturer and shall conform to the requirements of the Form 816 as amended or specified on plans or by bridge manufacturer.

Construction Methods

Shop drawings, stamped by a Professional Engineer licensed in the state of Connecticut shall be provided for review and approval by the town bridge prior to construction. Provide assembly and maintenance instructions from bridge manufacturer. Bridge shall be constructed in accordance with manufacturer’s directions and Article 6.03 of the Form 816.

Method of Measurement

This work will not be measured for payment but shall be paid at the contract lump sum price.
Basis of Payment

This work will be paid for as follows:

Contract lump sum price per each for “Installation of New Bridge”, complete and accepted in place, which price shall include all provision and/or disposal of materials and all equipment, material, labor and work incidental thereto.
REINFORCING STEEL
SPECIFICATIONS

Description:

Work under this item shall consist of furnishing and placing reinforcing steel and splicing materials of the size and type specified, shown on plans or as directed by the town in accordance with the state of Connecticut Department of Transportation “Standard Specifications for Roads, Bridges and Incidental Construction, Form 816” as amended.

Materials

Materials for this work shall conform to the requirement of Article M.06.01 of the Form 816. All reinforcing bars and dowels shall be epoxy coated.

Construction Methods

1. Construction shall conform to the Form 816, as amended on the plans.
2. Item includes drilling and grouting dowels into existing concrete in accordance with the Plans and as directed by the Town.
3. Drilling and grouting of anchor bolts shall be included in the item for new bridge installation.
4. All damaged epoxy coating shall be repaired prior to installation or concrete placement.

Method of Measurement

1. This work will not be measured for payment but shall be included in the item for reinforced concrete.
2. No measurement will be made for payment of any clips, wires, separators, chairs precast mortar blocks or any other material used for fastening or supporting the reinforcement in the correct position.
3. No separate payment shall be made for drilling and grouting dowels into existing concrete.

Basis of Payment

This work will be paid for as follows:

Included in contract unit price per cubic yard of “Concrete – Class “ “”, complete and accepted in place, which price shall include all equipment, material, labor and work incidental to as specified herein.
CONCRETE FOR STRUCTURES
SPECIFICATIONS

Description:

This item consists of the concrete for use on the bridge, abutments and other incidental work as required in accordance with Section 6.01 of the Form 816, as amended.

Materials

The materials required for this work shall be Class “F” concrete, 4,000 PSI 28-day strength with accelerator as shown on the plans or as ordered, shall conform to the requirements of Article 6.01 of the Form 816.

Materials for joint filler and joint sealer shall conform to the requirements of Section M.03.01.7 and M.03.01.8 of the Form 816. Provide submittal for proposed joint sealer and filler for review and approval of Town Engineer prior to construction.

Epoxy coated reinforcement bars shall be provided in accordance with contract drawings.

Construction Methods

In accordance with the Form 816 and the plans or as directed by the Town. The plans shall take precedence over the Form 816, in the event of a conflict. Provision shall be made to protect new concrete back walls and footings or abutments from traffic until compressive strength is reached or contractor shall use accelerator in accordance with manufacturer’s directions. This item includes preparing existing abutment walls for new back walls and bearing plates.

Method of Measurement

The quantity of work shall be the actual volume in cubic yards of the class indicated, completed and accepted in place within the neat lines as shown on the plans or as ordered by the Town.

Furnishing and installing epoxy coated reinforcement shall not be measured and paid for separately but shall be included in the unit price bid for reinforced concrete.

Joint fillers and joint sealers shall not be measured for payment but shall be included in the unit prices bid for other items.

Basis of Payment

This work will be paid for as follows:

Contract unit price per cubic yard for “Class “F“ Concrete”, complete in place which price shall include all materials, equipment labor and tools and work incidental thereto.
There shall not be a direct payment for the work of placing anchor bolts or drilling and grouting #7 dowels and similar material but the work shall be included in the item for which it is required.
VOlTEX WEIR
SPECIFICATIONS

Description:

This item consists of furnishing and installing a vortex weir and miscellaneous in stream work including relocation of existing boulders for the purpose of providing fish passage through the project site and other incidental work as required in accordance with the project plans and specifications. Prior to work, the work area must be dewatered in accordance with the approved water handling plan.

Materials

The materials required for this work shall be rip rap as shown on the plans or as ordered, which shall conform to the requirements of Article 7.03 of the Form 816.

Construction Methods

In accordance with the plans and as directed by the Town. The vortex weir is a modified horseshoe shape such that the apex of the structure points upstream. The angle the arms make with the upstream bank should be approximately 20 to 30 degrees so that flows are directed away form the banks and deeper pool areas are created directly downstream of the vane or weir. The top layer of vortex rocks shall rest upon at least one tier of footer rocks and so that they are offset in the upstream direction. Vortex rocks shall be partially buried in the streambed to a minimum of 6 inches. The vortex rocks of the vortex weirs shall be spaced approximately 1/3 to ½ a rock diameter apart with the exception of the end rocks. Vane rocks shall be shingled upstream. The top elevation of the end vortex rocks near the banks shall be at bank full level, shall be partially buried in the stream bank and shall touch adjacent vortex rocks. Once the excavated portion of the bank has been backfilled, it shall be properly armored with appropriately sized rip rap. The top elevation of the center vortex rocks shall be at or near the level of the concrete spillway to permit fish passage at low flows.

Method of Measurement

The quantity of work shall not be measured for payment but shall be paid for at the unit price paid for each vortex weir. The relocation of miscellaneous boulders within the stream shall not be measured for payment but shall be included in the unit price per vortex weir.

Basis of Payment

This work will be paid for as follows:

Contract unit price per each “Vortex Weir”, complete in place which price shall include all materials, equipment labor and tools and work incidental thereto.
FISH BAFFLE
SPECIFICATIONS

Description:

This item consists of the provision of fish baffles on top of the existing concrete spillway in accordance with project plans and specifications. Prior to work, the work area must be dewatered in accordance with the approved water handling plan.

Materials

The baffle materials required for this work shall conform to the requirements of Section 8.21 of the Form 816. Materials for grout shall conform to the requirements of Section M.03.01.12. Epoxy coated anchor bars shall be provided in accordance with contract drawings and shall conform to the requirements of Section 6.02 of the Form 816.

Construction Methods

In accordance with Section 8.21 of the Form 816 and the plans or as directed by the Town. The plans shall take precedence over the Form 816, in the event of a conflict. Precast units shall be drilled and epoxy coated anchor bars shall be grouted into place. After the grout has cured for a minimum of seven days, the units shall be installed into the concrete spillway to the lines shown on the plans and firmly grouted into place.

Method of Measurement

The quantity of work shall not be measured for payment but shall be included in the lump sum price bid.

Basis of Payment

This work will be paid for as follows:

Contract lump sum price for “Fish Baffles”, complete in place which price shall include all materials, equipment labor and tools and work incidental thereto. There shall not be a direct payment for the work of placing anchor bars or drilling and grouting dowels and similar material but the work shall be included in the item for which it is required.
TECHNICAL SPECIFICATIONS
HANDLING WATER

Description

Work under this item shall consist of the construction of such temporary flow diversions and bypass culvert, excavation, fill, barriers or other such protective facilities and methods as are necessary for the conduction of water beyond the limits of construction; the unwatering of the site on which the permanent structure is to be constructed; and the removal of such temporary facilities upon the completion of the permanent work or as required. The handling of water shall be in accordance with the requirements of Article 2.04 of the Form 816 and the Conservation Commission permit (copy attached). For the purposes of this specification, such work shall be understood to mean any temporary type of protective facility which the Contractor elects to build or use to satisfy, and which does satisfy, the condition that the permanent structures be placed and built in the dry. The handling of flood flows and the protection of existing structures, and any or all of the finished construction during high water, are included in the scope of the work under this item. Contractor shall submit a plan to the town of Watertown for handling water for approval prior to the beginning of construction. One of the items to be included in the plan is the provisions and protective measures that will ensure that materials form the removal of the existing bridge components do not adversely impact the water quality of the site and prevent material from going into the stream.

Materials

None

Construction Methods

The Contractor shall investigate and verify existing stream conditions, and evaluate the need for, and the type of protection and facilities required. Before commencing construction, the Contractor shall furnish the Engineer with details of the plan and methods he proposes to use for handling water and accomplishing the work. The Contractor shall furnish pipe strength calculations prepared by a State of Connecticut licensed professional engineer for all pipes used for haul roads. The furnishing of such plans and methods shall not relieve the Contractor of any of his responsibility for the safety of the work and for the successful completion of the project. No separate payment will be made for temporary sheet piling or sandbagging for the containment of the main stream channel flow or for flow diversion. The height of any other sheet piling, flow diversions and barriers shall be elected by the Contractor to provide reasonable protection from flooding and provide minimum protection as shown on the plans. All such temporary structures or facilities shall be safely designed, extended to sufficient depth and be of such dimensions and water-tightness so as to assure construction of the permanent work in the dry. They shall not interfere with proper performance of the work. Their construction shall be such as to permit excavation for the permanent work to the limits shown on the plans. Interior dimensions shall give sufficient
clearance for construction and inspection of forms. Movements or failures of the temporary protection facilities, or any portions thereof, which prevents proper completion of the permanent work, shall be corrected at the sole expense of the Contractor.

Any pumping from within the areas of construction shall be done in such a manner as to prevent the possibility of movement of water through any fresh concrete. No pumping will be permitted during placing of concrete or for a period of 24 hours thereafter, unless it be done from a suitable sump properly located and with sufficient pumping capacity to protect against damage from sudden rising of water. Any pumped water must be discharged in accordance with the requirements of Article 2.04 of the Form 816. Unless otherwise provided, or directed, all such temporary protective work shall be removed and disposed of in an approved manner when no longer required.

The Contractor shall be responsible for the scheduling of work under this item so as not to interfere with any sequence of operations developed for this project. Delays as a result of work required under this item shall not constitute a claim for an extension of contract time.

**Method of Measurement**

This item, being paid for on a lump sum basis, will not be measured for payment.

**Basis of Payment**

Payment for this item will be made at the contract lump sum price for "Handling Water," complete and accepted, which price shall include all tools, material, equipment, labor and work incidental to the construction; reconstruction; if required; unwatering, including pumping, handling of the stream flow during construction; the removal and disposal of all protective works or facilities; disposal of water removed from the construction; damages incurred by the Contractor; and any damages to existing facilities and to the work in progress, materials or equipment from flows or high stages of the stream. The lump sum payment for "Handling Water: shall also include all excavation and filling required for temporarily relocating
STORM SEWER SYSTEM
SPECIFICATIONS

Description:

Pipe – (Size and Type):
The item for “Pipe (Size and Type)” shall include all labor, equipment and material to
furnish and install the pipe of the size and type specified and as shown on the plans. All
reinforced concrete pipe shall be Class IV or V (as shown on plans) and rubber-gasketed.
There shall be no separate payment for pipe excavation, bedding, backfill, compaction
and alignment, but these items shall be included in the price bid per linear foot (LF).
Rock in trench, if encountered, will be paid for separately. Each pipe length shall be laid
straight and true to line and grade by means of laser system or other system approved in
advance by the Town.

Construction Methods

1. Pervious structure backfill – in accordance with the Requirements of Article 2.16
   of the Form 816, except that payment will be included in the item for “Type “ ”
   Catch Basin”.
2. Geotextile material – in accordance with the Requirements of Article 7.55 of the
   Form 816 and as shown on Plans.
3. Pipe of the size and type specified – in accordance with Article 6.51 of the Form
   816 as amended and joints shall be rubber gasketed for RCP for pipe stubs and
   perforated HDPE for Underdrain and PVC for Tie-ins.
4. Pipe and structure bedding – in accordance with Article M.08.03 of the Form 816,
   as amended.
5. Trench excavation, including rock in trench – in accordance with Article 2.05 of
   the Form 816.
6. Town will furnish baseline and benchmark for installation of improvements.
   Contractor to provide all other field survey required. Owner to perform as-built
   survey upon completion of fieldwork.

Method of Measurement

This work will be measured for payment by the following:

1. Number of linear feet of the size and type specified to the inside wall of the
   structure being connected to, except that pipe stubs for new catch basins shall not
   be measured for payment separately but shall be included in unit price bid per
   structure.
2. Trench excavation shall not be measured or paid for separately but shall be
   included in the item for which it is required. Rock in trench, if encountered and
   conforming to the description given under Article 2.05.01 of the Form 816, shall
   be measured and paid for at the contract unit price per cubic yard.
**Basis of Payment**

This work will be paid for as follows:

1. Contract unit price per each linear foot of pipe of the size and type specified, complete and accepted in place, which price shall include all labor, equipment, materials and work incidental to as specified herein.
EXCAVATION, BACKFILL AND COMPACTION
SPECIFICATIONS

Description

Excavation for roadway shall be measured for payment by the cubic yard (CY) and in accordance with the pay limits as shown on the plans. Backfill and compaction for roadways, trenches or structures will not be measured or paid for separately, but shall be included in the unit price of the item. Rock in trench or roadway, if encountered, shall be handled in accordance with Sections 2.02 and 2.05 of the Form 816, “Standard Specifications for Roads, Bridges and Incidental Construction”, as amended. Contractor is responsible for saw cutting, dewatering and dust control, which cost shall be paid for in the price bid for other items. Test borings were performed and results are attached. Formation of subgrade and fine grading are not measured or paid for separately but shall be included in the unit prices paid for other items.

Construction Methods

1. The excavation of existing roadway material, in accordance with the Requirements of Article 2.02 of the Form 816, as amended. Surplus material is the responsibility of the Contractor and shall be properly disposed of off-site at a location approved in advance by the Town of Watertown.
2. The excavation of trench material, in accordance with the Requirements of Article 2.05 of the Form 816, as amended. Surplus material is the responsibility of the Contractor.
3. Subbase – in accordance with the Requirements of Article 2.12 of the Form 816, as amended. Subbase shall be ten inches (10”) thick under pavement or as indicated on drawings.
4. Pervious structure backfill – in accordance with the Requirements of Article 2.16 of the Form 816, as amended, except that payment will be included in the item for which it is required.
5. Pipe bedding – in accordance with Article M.08.03 of the Form 816, as amended.
6. Town will furnish baseline and benchmark for installation of improvements. Contractor to provide all other field survey required. Owner to perform as-built survey upon completion of fieldwork.
7. The cost for clearing and grubbing shall be included in the grading items and no separate payment shall be made, except as noted in the plans or specified elsewhere. Otherwise, the terms and conditions of Section 2.01 of the Form 816 apply.

Method of Measurement

This work will be measured for payment by the following:
1. Number of cubic yards of roadway material excavated, regardless of type, within the pay limits as shown on the drawings as required or as directed by the Owner. This item will be measured for payment from the top of the existing pavement to the bottom of roadway subbase. Excavation for abutments, headwalls, wingwalls etc… will not be measured for payment separately but shall be included in the work for which it is required.

2. Pipe bedding shall not be measured for payment separately but the price for this material shall be included in the unit price of the pipe of size and type shown on plans, as specified or as directed by the Town.

3. Number of cubic yards of subbase installed, including Geotextile fabric if shown on plans or directed by Engineer, and accepted in place.

**Basis of Payment**

This work will be paid for as follows:

1. Contract unit price per cubic yard of material excavated under roadway excavation, complete in place and accepted, which price shall include all equipment, material, labor and work incidental thereto as specified herein.

2. Contract unit price per cubic yard of subbase material processed gravel in place, complete in place and accepted, which price shall include all equipment, material, labor and work incidental thereto as specified herein.

**Testing Laboratories**

The Contractor shall provide, at no additional cost to the Owner, the services of approved testing laboratories to take samples of materials and perform tests as required under this Contract or as ordered by the Engineer. Payment for these services shall be included under the applicable items of the Contract, unless otherwise specified. Contractor will notify on-call testing service company at least 24 hours in advance for compaction testing. Compaction tests are required on base materials prior to placing asphalt and on bituminous concrete pavement during rolling operations.
MAINTENANCE AND PROTECTION OF TRAFFIC
SPECIFICATIONS

Description:

The item for “Maintenance and Protection of Traffic” shall include all labor, equipment and materials required in accordance with the Form 816, except that this item shall also include the cost of signs, barricades, drums, lights, delineators, traffic cones and furnishing and placing of materials such as borrow, gravel, crushed stone, bituminous concrete for patching and pipe. Contractor is solely responsible for work zone safety and shall provide, at a minimum, the work zone signage attached. In general, roadway shall be kept open to at least one-way traffic within the project area at all times, except as noted below, and shall be opened to two way traffic at the completion of the work day. The road may be closed and a detour approved for a period between June 29 and August 21, 2015. Two weeks notice is required prior to any road closures or detours. Work zone cone, barricade and signage patterns shall be based upon the posted speed limit of 15 miles per hour and the attached plates. Contractor shall provide a detour plan for approval by town. Contractor to install all detour signs prior to detour and cover them until such time as road is closed. Upon completion of closure, all signage shall be promptly removed.

Method of Measurement

This work will not be measured for payment.

Basis of Payment

This work will be paid for at the contract lump sum price for “Maintenance and Protection of Traffic” in accordance with Article 9.71 of the Form 816, except that this item will also include all costs for signs, barricades, drums, traffic cones, lights, delineators and the cost of furnishing and placing of materials such as borrow, gravel, crushed stone, bituminous concrete for patching, pipes and temporary repairs or to maintain safe and efficient vehicular and pedestrian traffic.
TOPSOIL AND TURF ESTABLISHMENT
SPECIFICATIONS

Description:

The item for “Topsoil and Turf Establishment” shall include all labor, equipment and material necessary to strip and stockpile existing topsoil, respread stockpiled topsoil to line, depth and grade at the locations as shown on the plans or as directed by the Engineer, rake out all stones 1” and greater in size as well as roots and other objectionable material, seed and mulch in accordance with Articles 9.44 and 9.50 of the Form 816, as amended, at the unit price per square yard.

Materials

Topsoil, fertilizer, seed, and mulch shall conform to the requirements of Section M.13 of the Form 816, as amended.

Construction Methods

1. Topsoil and Turf Establishment - in accordance with Articles 9.44 and 9.50 of the Form 816, as amended,
2. Town will furnish baseline and benchmark for installation of improvements. Contractor to provide all other field survey required. Owner to perform as-built survey upon completion of fieldwork.

Method of Measurement

This work will be measured for payment by the following:

1. Number of square yards of Topsoil and Turf Establishment as shown on the plans or as directed by the Engineer.

Basis of Payment

This work will be paid for as follows:

Contract unit price per each square yard of “Topsoil and Turf Establishment”, complete and accepted in place, which price shall include all equipment, mowing, watering, maintenance, material, labor and work incidental to as specified herein. Partial payment of up to 60% may be made for work completed, but not accepted, at the option of the Town.
METAL BEAM RAIL
SPECIFICATIONS

Description

Work under this section include the furnishing and installation of a line of steel rail elements fastened to steel posts as shown on the plans. All work performed under this item shall be in conformance with the State of Connecticut Department of Transportation "Standard Specifications for Roads, Bridges and Incidental Construction", Form 816 as amended. It is expressly stated that the specific references to the Form 816 is for the technical requirements stated therein and that this project is not an 816 project, nor are all of the other terms of the Form 816 applicable. This item also includes the terminal elements for connection to the bridge parapets.

Materials

Materials under this section shall conform to the requirements of Article 9.10.02 of the Form 816, as amended

Construction Methods

Construction methods under this section shall conform to the requirements of Article 9.10.03 of the Form 816, as amended.

Method of Measurement

This work will be measured for payment by the following:

The length of metal beam rail measured for payment shall be the actual number of linear feet of accepted rail of the type or designation installed including delineators, measured along the top of the rail between centers of end posts in each continuous section. Terminal elements for connection to bridge parapets hall not be measured for payment separately but shall be included in the unit price bid.

Basis of Payment

This work will be paid for as follows:

Contract unit price per linear foot for the types shown on the plans installed and accepted complete in place, which price shall include all equipment, material, posts of all lengths, tools, removal and disposal of surplus material, backfilling, labor and work incidental to as specified herein.
METAL BEAM RAIL ANCHORAGES
SPECIFICATIONS

Description

Work under this section includes the furnishing and installation of metal beam rail anchorages of the type shown on the plans or as specified. All work performed under this item shall be in conformance with the State of Connecticut Department of Transportation “Standard Specifications for Roads, Bridges and Incidental Construction”, Form 816 as amended. It is expressly stated that the specific references to the Form 816 is for the technical requirements stated therein and that this project is not an 816 project, nor are all of the other terms of the Form 816 applicable.

Materials

Materials under this section shall conform to the requirements of Article 9.11.02 of the Form 816, as amended.

Construction Methods

Construction methods under this section shall conform to the requirements of Article 9.11.03 of the Form 816, as amended.

Method of Measurement

This work will be measured for payment by the following:

The length of metal beam rail measured for payment shall be the actual number of end anchorages of each type installed, complete and accepted in place.

Basis of Payment

This work will be paid for as follows:

Contract unit price per each for the types shown on the plans or specified, installed and accepted complete in place, which price shall include all equipment, material, excavation, drilling and grouting, tools, removal and disposal of surplus material, backfilling, labor and work incidental to as specified herein.
SEDIMENTATION CONTROL SYSTEM
SPECIFICATIONS

Description

The item for "SedIMENTATION CONTROL SYSTEMS" shall include all labor, equipment and
costs of furnishing, placing, maintaining and removing sedimentation control systems,
as shown on the plans or as directed by the Town, in place according to Form 816, as
amended. There shall be no separate payment for the cleaning out accumulated sediment
or replacing failed system.

Materials

Materials shall conform to the requirements of Section 2.19 of the Form 816, as
amended.

Construction Methods

System shall be placed and maintained in accordance with the requirements of Section
2.19 of the Form 816, as amended.

Method of Measurement

This work will be measured for payment by the following:

Number of linear feet of sedimentation control systems as measured along the centerline
of the system installed and accepted. Replacement systems shall not be measured for
payment.

Basis of Payment

This work will be paid for as follows:

Contract unit price per linear foot of sedimentation control systems installed and accepted
complete in place, which price shall include all equipment, material, labor, tools and
work incidental to the placement, maintenance, replacement, removal and disposal of the
system and surplus material. No payment shall be made for cleaning out accumulated
sediment or replacement materials.
CONSTRUCTION STAKING
SPECIFICATIONS

Description

The work under the item for “Construction Staking” shall consist of all construction layout and reference staking necessary for the proper control and satisfactory completion of all work on the project, except base line to be provided by Town, property lines, highway lines and non-access lines.

Construction Methods

The construction staking methods shall be in accordance with Article 9.80 of the Form 816, as amended. All references to “Department” shall mean Town of Watertown.

Method of Measurement

This work will not be measured for payment but shall included in the amounts to be paid at the contract unit prices for other items.

Basis of Payment

Payment for this work will be at the contract unit prices for other items which price shall include all equipment, tools, and labor incidental to the completion of this item.
CALL (860) 263-6790

If you have questions regarding your wages

CT General Statutes Section 31-53

prevailing wage law

covered by this is a public works project
Project: West Road Bridge Rehabilitation

**Minimum Rates and Classifications**
for Heavy/Highway Construction

**Connecticut Department of Labor**
**Wage and Workplace Standards Division**

*ID#: H 20888*

By virtue of the authority vested in the Labor Commissioner under provisions of Section 31-53 of the General Statutes of Connecticut, as amended, the following are declared to be the prevailing rates and welfare payments and will apply only where the contract is advertised for bid within 20 days of the date on which the rates are established. Any contractor or subcontractor not obligated by agreement to pay to the welfare and pension fund shall pay this amount to each employee as part of his/her hourly wages.

**Project Number:**
**Project Town:** Watertown
**FAP Number:**
**State Number:**
**Project:** West Road Bridge Rehabilitation

<table>
<thead>
<tr>
<th>CLASSIFICATION</th>
<th>Hourly Rate</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>01) Asbestos/Toxic Waste Removal Laborers: Asbestos removal and encapsulation (except its removal from mechanical systems which are not to be scrapped), toxic waste removers, blasters. <strong>See Laborers Group 5 and 7</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| 1) Boilermaker                                                              | 33.79       | 34% + 8.96 |

| 1a) Bricklayer, Cement Masons, Cement Finishers, Plasterers, Stone Masons   | 32.50       | 28.34      |

| 2) Carpenters, Piledrivermen                                                | 31.45       | 23.54      |

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<table>
<thead>
<tr>
<th>2a) Diver Tenders</th>
<th>31.45</th>
<th>23.54</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>3) Divers</th>
<th>39.91</th>
<th>23.54</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>03a) Millwrights</th>
<th>31.84</th>
<th>23.99</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>4) Painters: (Bridge Construction) Brush, Roller, Blasting (Sand, Water, etc.), Spray</th>
<th>45.10</th>
<th>18.55</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>4a) Painters: Brush and Roller</th>
<th>31.02</th>
<th>18.55</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>4d) Painters: Blast and Spray</th>
<th>34.02</th>
<th>18.55</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>4e) Painters: Tanks, Tower and Swing</th>
<th>33.02</th>
<th>18.55</th>
</tr>
</thead>
</table>

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**Project:** West Road Bridge Rehabilitation

5) **Electrician** (Trade License required: E-1,2 L-5,6 C-5,6 T-1,2 L-1,2 V-1,2,7,8,9)  
   37.62  23.00 + 3% of gross wage

6) **Ironworkers:** Ornamental, Reinforcing, Structural, and Precast Concrete Erection  
   34.47  31.09 + a

7) **Plumbers** (Trade License required: P-1,2,6,7,8,9 J-1,2,3,4 SP-1,2) and **Pipefitters** (Including HVAC Work) (Trade License required: S-1,2,3,4,5,6,7,8 B-1,2,3,4 D-1,2,3,4 G-1, G-2, G-8, G-9)  
   40.62  28.91

---LABORERS---

8) **Group 1:** Laborer (Unskilled), Common or General, acetylene burner, concrete specialist  
   27.85  18.30

9) **Group 2:** Chain saw operators, fence and guard rail erectors, pneumatic tool operators, powdermen  
   28.10  18.30

10) **Group 3:** Pipelayers  
    28.35  18.30

**As of:**  
Tuesday, July 07, 2015
### Project: West Road Bridge Rehabilitation

<table>
<thead>
<tr>
<th>Group</th>
<th>Description</th>
<th>Rate</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>11)</td>
<td>4: Jackhammer/Pavement breaker (handheld); mason tenders (cement/concrete),</td>
<td>28.35</td>
<td>18.30</td>
</tr>
<tr>
<td></td>
<td>catch basin builders, asphalt rakers, air track operators, block paver,</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>curb setter and forklift operators</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12)</td>
<td>5: Toxic waste removal (non-mechanical systems)</td>
<td>29.85</td>
<td>18.30</td>
</tr>
<tr>
<td>13)</td>
<td>6: Blasters</td>
<td>29.60</td>
<td>18.30</td>
</tr>
</tbody>
</table>

| Group 7 | Asbestos/lead removal, non-mechanical systems (does not include leaded joint pipe) | 28.85 | 18.30 |

| Group 8 | Traffic control signalmen                                                  | 16.00 | 18.30 |

| Group 9 | Hydraulic Drills                                                          | 28.60 | 18.30 |

---LABORERS (TUNNEL CONSTRUCTION, FREE AIR). Shield Drive and Liner Plate Tunnels in Free Air.---

**As of:** Tuesday, July 07, 2015
Project:  West Road Bridge Rehabilitation

13a) Miners, Motormen, Mucking Machine Operators, Nozzle Men, Grout Men, Shaft & Tunnel Steel & Rodmen, Shield & Erector, Arm Operator, Cable Tenders

<table>
<thead>
<tr>
<th></th>
<th>Rate</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>32.22</td>
<td>18.30 + a</td>
</tr>
</tbody>
</table>

13b) Brakemen, Trackmen

<table>
<thead>
<tr>
<th></th>
<th>Rate</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>31.28</td>
<td>18.30 + a</td>
</tr>
</tbody>
</table>

---CLEANING, CONCRETE AND CAULKING TUNNEL---

14) Concrete Workers, Form Movers, and Strippers

<table>
<thead>
<tr>
<th></th>
<th>Rate</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>31.28</td>
<td>18.30 + a</td>
</tr>
</tbody>
</table>

15) Form Erectors

<table>
<thead>
<tr>
<th></th>
<th>Rate</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>31.60</td>
<td>18.30 + a</td>
</tr>
</tbody>
</table>

---ROCK SHAFT LINING, CONCRETE, LINING OF SAME AND TUNNEL IN FREE AIR:---

16) Brakemen, Trackmen, Tunnel Laborers, Shaft Laborers

<table>
<thead>
<tr>
<th></th>
<th>Rate</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>31.28</td>
<td>18.30 + a</td>
</tr>
</tbody>
</table>

As of:  Tuesday, July 07, 2015
Project: West Road Bridge Rehabilitation

17) Laborers Topside, Cage Tenders, Bellman
   
   31.17  18.30 + a

18) Miners
   
   32.22  18.30 + a

--- TUNNELS, CAISSON AND CYLINDER WORK IN COMPRESSED AIR: ---

18a) Blaster
   
   38.53  18.30 + a

19) Brakemen, Trackmen, Groutman, Laborers, Outside Lock Tender, Gauge Tenders
   
   38.34  18.30 + a

20) Change House Attendants, Powder Watchmen, Top on Iron Bolts
   
   36.41  18.30 + a

21) Mucking Machine Operator
   
   39.11  18.30 + a

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### Project: West Road Bridge Rehabilitation

---TRUCK DRIVERS--- (*see note below)

<table>
<thead>
<tr>
<th>Type</th>
<th>Speed Limit</th>
<th>Speed Limit Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two axle trucks</td>
<td>28.58</td>
<td>20.24 + a</td>
</tr>
<tr>
<td>Three axle trucks; two axle ready mix</td>
<td>28.68</td>
<td>20.24 + a</td>
</tr>
<tr>
<td>Three axle ready mix</td>
<td>28.73</td>
<td>20.24 + a</td>
</tr>
<tr>
<td>Four axle trucks, heavy duty trailer (up to 40 tons)</td>
<td>28.78</td>
<td>20.24 + a</td>
</tr>
<tr>
<td>Four axle ready-mix</td>
<td>28.83</td>
<td>20.24 + a</td>
</tr>
<tr>
<td>Heavy duty trailer (40 tons and over)</td>
<td>29.03</td>
<td>20.24 + a</td>
</tr>
</tbody>
</table>

*As of: Tuesday, July 07, 2015*
Project: West Road Bridge Rehabilitation

Specialized earth moving equipment other than conventional type on-the road trucks and semi-trailer (including Euclids)  

<table>
<thead>
<tr>
<th>Group</th>
<th>Description</th>
<th>Rate</th>
<th>Hourly Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Crane handling or erecting structural steel or stone, hoisting engineer</td>
<td>37.55</td>
<td>23.05 + a</td>
</tr>
<tr>
<td></td>
<td>(2 drums or over), front end loader (7 cubic yards or over), Work Boat 26 ft. &amp; Over. (Trade License Required)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Cranes (100 ton rate capacity and over); Excavator over 2 cubic yards; Piledriver ($3.00 premium when operator controls hammer); Bauer Drill/Caisson. (Trade License Required)</td>
<td>37.23</td>
<td>23.05 + a</td>
</tr>
<tr>
<td>3</td>
<td>Excavator/Backhoe under 2 cubic yards; Cranes (under 100 ton rated capacity), Gradall; Master Mechanic; Hoisting Engineer (all types of equipment where a drum and cable are used to hoist or drag material regardless of motive power of operation), Rubber Tire Excavator (Drott-1085 or similar);Grader Operator; Bulldozer Fine Grade (slopes, shaping, laser or GPS, etc.). (Trade License Required)</td>
<td>36.49</td>
<td>23.05 + a</td>
</tr>
<tr>
<td>4</td>
<td>Trenching Machines; Lighter Derrick; Concrete Finishing Machine; CMI Machine or Similar; Koehring Loader (Skooper)</td>
<td>36.10</td>
<td>23.05 + a</td>
</tr>
<tr>
<td>5</td>
<td>Specialty Railroad Equipment; Asphalt Paver; Asphalt Spreader; Asphalt Reclaiming Machine; Line Grinder; Concrete Pumps; Drills with Self Contained Power Units; Boring Machine; Post Hole Digger; Auger; Pounder; Well Digger; Milling Machine (over 24&quot; Mandrell)</td>
<td>35.51</td>
<td>23.05 + a</td>
</tr>
</tbody>
</table>

As of: Tuesday, July 07, 2015
Project: West Road Bridge Rehabilitation

Group 5 continued: Side Boom; Combination Hoe and Loader; Directional Driller.

Group 6: Front End Loader (3 up to 7 cubic yards); Bulldozer (rough grade dozer).

Group 7: Asphalt Roller; Concrete Saws and Cutters (ride on types); Vermeer Concrete Cutter; Stump Grinder; Scraper; Snooper; Skidder; Milling Machine (24" and Under Mandrel).

Group 8: Mechanic, Grease Truck Operator, Hydroblaster, Barrier Mover, Power Stone Spreader; Welder; Work Boat under 26 ft.; Transfer Machine.

Group 9: Front End Loader (under 3 cubic yards), Skid Steer Loader regardless of attachments (Boat or Similar); Fork Lift, Power Chipper; Landscape Equipment (including hydrosedeer).

Group 10: Vibratory Hammer, Ice Machine, Diesel and Air Hammer, etc.

Group 11: Conveyor, Earth Roller; Power Pavement Breaker (whiphammer), Robot Demolition Equipment.

As of: Tuesday, July 07, 2015
<table>
<thead>
<tr>
<th>Group</th>
<th>Role Description</th>
<th>Hourly Rate</th>
<th>Base Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>Wellpoint Operator.</td>
<td>31.93</td>
<td>23.05 + a</td>
</tr>
<tr>
<td>13</td>
<td>Compressor Battery Operator.</td>
<td>31.35</td>
<td>23.05 + a</td>
</tr>
<tr>
<td>14</td>
<td>Elevator Operator; Tow Motor Operator (Solid Tire No Rough Terrain).</td>
<td>30.21</td>
<td>23.05 + a</td>
</tr>
<tr>
<td>15</td>
<td>Generator Operator; Compressor Operator; Pump Operator; Welding Machine Operator; Heater Operator.</td>
<td>29.80</td>
<td>23.05 + a</td>
</tr>
<tr>
<td>16</td>
<td>Maintenance Engineer/Oiler</td>
<td>29.15</td>
<td>23.05 + a</td>
</tr>
<tr>
<td>17</td>
<td>Portable asphalt plant operator; portable crusher plant operator; portable concrete plant operator.</td>
<td>33.46</td>
<td>23.05 + a</td>
</tr>
<tr>
<td>18</td>
<td>Power Safety Boat; Vacuum Truck; Zim Mixer; Sweeper; (minimum for any job requiring CDL license).</td>
<td>31.04</td>
<td>23.05 + a</td>
</tr>
</tbody>
</table>

As of: Tuesday, July 07, 2015
Project: West Road Bridge Rehabilitation

**NOTE: SEE BELOW

| **LINE CONSTRUCTION**—(Railroad Construction and Maintenance)--- |

| 20) Lineman, Cable Splicer, Technician | 45.43 | 6.25%+19.20 |
| 21) Heavy Equipment Operator | 40.89 | 6.25%+17.18 |
| 22) Equipment Operator, Tractor Trailer Driver, Material Men | 38.62 | 6.25%+16.68 |
| 23) Driver Groundmen | 24.99 | 6.25%+10.87 |
| 23a) Truck Driver | 34.07 | 6.25%+15.41 |

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Project: West Road Bridge Rehabilitation

---LINE CONSTRUCTION---

<table>
<thead>
<tr>
<th></th>
<th>24) Driver Groundmen</th>
<th>30.92</th>
<th>6.5% + 9.70</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>25) Groundmen</td>
<td>22.67</td>
<td>6.5% + 6.20</td>
</tr>
<tr>
<td></td>
<td>27) Linemen, Cable Splicers, Dynamite Men</td>
<td>41.22</td>
<td>6.5% + 12.20</td>
</tr>
<tr>
<td></td>
<td>28) Material Men, Tractor Trailer Drivers, Equipment Operators</td>
<td>35.04</td>
<td>6.5% + 10.45</td>
</tr>
</tbody>
</table>

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Welders: Rate for craft to which welding is incidental.

*Note: Hazardous waste removal work receives additional $1.25 per hour for truck drivers.

**Note: Hazardous waste premium $3.00 per hour over classified rate

**ALL Cranes:** When crane operator is operating equipment that requires a fully licensed crane operator to operate he receives an extra $2.00 premium in addition to the hourly wage rate and benefit contributions:

1) Crane handling or erecting structural steel or stone; hoisting engineer (2 drums or over)

2) Cranes (100 ton rate capacity and over) Bauer Drill/Caisson

3) Cranes (under 100 ton rated capacity)

- Crane with 150 ft. boom (including jib) - $1.50 extra
- Crane with 200 ft. boom (including jib) - $2.50 extra
- Crane with 250 ft. boom (including jib) - $5.00 extra
- Crane with 300 ft. boom (including jib) - $7.00 extra
- Crane with 400 ft. boom (including jib) - $10.00 extra

All classifications that indicate a percentage of the fringe benefits must be calculated at the percentage rate times the "base hourly rate".

Apprentices duly registered under the Commissioner of Labor’s regulations on "Work Training Standards for Apprenticeship and Training Programs" Section 31-51-d-1 to 12, are allowed to be paid the appropriate percentage of the prevailing journeymen hourly base and the full fringe benefit rate, providing the work site ratio shall not be less than one full-time journeyman instructing and supervising the work of each apprentice in a specific trade.

~~Connecticut General Statute Section 31-55a: Annual Adjustments to wage rates by contractors doing state work~~

The Prevailing wage rates applicable to this project are subject to annual adjustments each July 1st for the duration of the project.

Each contractor shall pay the annual adjusted prevailing wage rate that is in effect each July 1st, as posted by the Department of Labor.

It is the contractor’s responsibility to obtain the annual adjusted prevailing wage rate increases directly from the Department of Labor’s website.

The annual adjustments will be posted on the Department of Labor’s Web page: www.ct.gov/dol.

The Department of Labor will continue to issue the initial prevailing wage rate schedule to the Contracting Agency for the project.

All subsequent annual adjustments will be posted on our Web Site for contractor access.

Contracting Agencies are under no obligation pursuant to State labor law to pay any increase due to the annual adjustment provision.

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Effective October 1, 2005 - Public Act 05-50: any person performing the work of any mechanic, laborer, or worker shall be paid prevailing wage

All Person who perform work ON SITE must be paid prevailing wage for the appropriate mechanic, laborer, or worker classification.

All certified payrolls must list the hours worked and wages paid to All Persons who perform work ON SITE regardless of their ownership i.e.: (Owners, Corporate Officers, LLC Members, Independent Contractors, et. al)

Reporting and payment of wages is required regardless of any contractual relationship alleged to exist between the contractor and such person.

~~Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clause (29 CFR 5.5 (a) (1) (ii)).~~

Please direct any questions which you may have pertaining to classification of work and payment of prevailing wages to the Wage and Workplace Standards Division, telephone (860)263-6790.

As of: Tuesday, July 07, 2015
September 4, 2013

Mr. Roy Cavanaugh, P.E.
Director of Public Works
Town of Watertown
Deport Square Business Center
51 Depot Street; Suite 110
Watertown, Connecticut 06795

Re: Geotechnical Study for Rehabilitation of West Road Bridge over Hollow Brook, Watertown, CT

Dear Mr. Cavanaugh

1.0 Herewith are the boring data pertaining to the subject culvert replacement project. The two borings (WR-9 and WR-10) were drilled to auger refusal on the bedrock at depths of 20 feet and 11 feet below grade, respectively. Boring WR-9 was taken at the east side of the bridge and WR-10 was located on the west side as shown on the attached schematic. The borings were drilled by Clarence Welti Associates, Inc. and sampling was conducted by this firm solely to obtain indications of subsurface conditions as part of a geotechnical exploration program. No services were performed by Dr. Clarence Welti, P.E., P.C. to evaluate subsurface environmental conditions.

2.0 The Subject Project is for the rehabilitation of the existing bridge carrying West Road over Hollow Brook. The existing crossing appears to be a short span slab or a box culvert. The existing footings are probably spread footings. The geometries and capacities of the existing foundations are not known. It is understood by the writer that rehabilitation plan will include replacement of the concrete deck and the wing walls. The completed structure will have similar hydraulic opening to the existing bridge. In general, the rehabilitation work should be designed to avoid superimposed loading on the existing foundations. It is assumed that the roadway horizontal and vertical alignments will not be altered for the subject project. The proposed bridge design has not been determined. No topographic, existing structure or hydraulic information were available for this study.

3.1 The Soil/ Rock Cross Section from the test borings is generally as follows:
Asphalt to 5" to 6"

FILL; Fine to coarse SAND, some Gravel, little Silt, trace Roots to 7 to 7 feet, loose to medium compact

Fine to coarse SAND, little to some silt and Gravel to the top of rock at 10 to 16.5 feet, dense

Weathered Rock to auger refusal on harder bedrock at 11 feet below grade in bore hole WR-10 and at 20 feet in bore hole WR-9, very dense

*Note: There will be existing fills associated with the roadway pavement section and backfill at the bridge.*

3.2 The Water Table was evident at 8.5 to 9.5 feet below the road grade at the completion of the borings. It should be assumed that the groundwater levels will be close to the level in the brook. The design flood elevations and scour depths were not available for this study. *The natural soils are susceptible to remolding under equipment when wet.*

3.3 The Estimated Properties of the Soils are as follows:

**Existing Fills:**
- Unit Weight: 120 pcf
- Submerged Unit Weight: 58 pcf
- Angle of Internal Friction: 30° to 32°
- Cohesion: 0 psf

**Natural Deposits:**
- Unit Weight: 125 pcf
- Submerged Unit Weight: 63 pcf
- Angle of Internal Friction: 34° to 35°
- Cohesion: 0 psf

4.0 This study pertains to defining the geotechnical design parameters for the proposed culvert and foundations. It has been assumed by the writer that the culvert and foundations will be designed in accordance with the AASHTO Allowable Stress Design method and with U.S. Customary Units. This study does not address the requirements for either the AASHTO LRFD method.

4.1 The Criteria for Foundation Type and Loading are as follows:

1. The maximum total settlement at new retaining walls shall not exceed 1" and the maximum differential settlement shall not exceed ½ the maximum settlement.

1. The maximum total settlement at the existing bridge foundations shall not exceed ½"
3. Regarding Seismic Assessments, this short single span bridge or culvert and the retaining walls are exempt from detailed seismic analyses by AASHTO and ConnDOT specifications.

*The above criteria are generally applied to short span bridges and retaining walls similar in character to the subject structure. If the owner, the architect, the engineers find the criteria as unacceptable, the writer shall be informed to permit additional geotechnical input.*

**5.0 Regarding Foundation Type**, the soil/rock profile at site can support the structure and wing walls on spread footings. The footing sub grades shall be on the natural inorganic soils after the removal of any existing fills (assumed largely present as structure backfill). The foundation for a culvert and wall footings will probably fall below the water table on soils that may be susceptible to remolding. The recommended underlay for footings is with a minimum 8" layer of 3/8" crushed stone atop the natural soils. The crushed stone layer shall also be placed as an initial layer beneath controlled fill where placed over a wet sub grade. Controlled fill if required, shall conform to section 6.0 below or shall be 3/8" crushed stone. Controlled fill shall extend horizontally beyond the footings for a distance equal to at least the depth of fill beneath the footings.

**5.1 Regarding dewatering,** possible requirements for cofferdams cannot be definitively addressed because of the lack of topographic and design information at the structure. It is conceivable that cofferdams may be needed at the deeper excavations for retaining wall footings, which would presumably fall several feet below the channel bottom. Such excavations could be enclosed in relatively short steel sheet pilings which might be cut off and be left in place after concreting. Cofferdams and dewatering are contractor provided items and can be designed based on the parameters cited in section 3.3 above. It may be possible to facilitate dewatering by a temporary diversion of the brook around the new culvert location. It would be acceptable if the sub grades are not completely dewatered, providing that there is a sufficient layer of the 3/8" crushed stone to maintain dry, stable surfaces that are at least 6" above the water level for placing controlled fills or casting concrete.

**5.2 The Allowable Bearing Pressure** for footings on crushed stone atop the natural soils and for footings on controlled fill can be 4,000 psf. The loading beneath culvert will probably not exceed about 1,000 psf. At retaining walls the maximum pressure on the toe can be 50% higher than the average pressure, cited above.

**5.3 The Lateral Soil Loading** on precast buried structures should be based on at-rest pressure. The at-rest pressure coefficient is $K_o = 0.45$ (to be multiplied by the unit weight of the backfill). The design of free standing retaining walls can be based on normal active earth pressure using the active coefficient $K_A = 0.28$ for level backfill condition. A lateral surcharge pressure equal to 2 feet of backfill is typically added to the earth pressures to represent the effect of live load. The ultimate sliding factor ($\tan\theta$) for concrete cast on the crushed stone can be $0.60$. The backfill material (section 6.0) shall extend horizontally behind the retaining walls for a distance equal to at least the height of the backfill, measured from the bottom of footing to the finished grade.
5.4 The recommended **Frost Protection Depth** for civil structures in Connecticut is 4.0 feet below finished grades.

5.5 The **Foundation Design Parameters** are summarized as follows:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allowable Bearing Pressure</td>
<td>4,000 psf</td>
</tr>
<tr>
<td>Backfill Unit Weight *</td>
<td>125 pcf</td>
</tr>
<tr>
<td>Internal Friction Angle of Backfill, $\varphi^*$</td>
<td>34°</td>
</tr>
<tr>
<td>Lateral At-Rest Pressure Coefficient</td>
<td>0.45</td>
</tr>
<tr>
<td>Lateral Active Pressure Coefficient, $K_A$ * (level backfill)</td>
<td>0.28</td>
</tr>
<tr>
<td>Ultimate Sliding Factor (concrete crushed stone or soil)</td>
<td>0.60</td>
</tr>
<tr>
<td>Frost Protection Depth</td>
<td>4.0 feet</td>
</tr>
</tbody>
</table>

* The cited values are based on material conforming to Section 6.0 below

6.0 The **Backfill** for culverts, abutments and retaining walls is assumed to be free draining material conforming to CTDOT Form 816, section M.02.06, Grading B. All backfill shall be compacted to at least 95% of modified optimum density in accordance with ASTM D-1557. This material will have a unit weight of 125 pcf, a submerged unit weight of 66 pcf and an internal friction angle of 34°.

7.0 Regarding **Earthwork**, the excavations will be in soils classified as OSHA Type C, which will require sloping of unshored excavations exceeding 5 feet in height, to slopes less than 34° from the horizontal (1.5H:1V). The deep excavations for the culvert and retaining walls should be made within cofferdams.

7.1 **Long Term Slopes** in earth cuts and fills shall be 2:1, or flatter. Slopes along the channel may require cladding for erosion protection. The cladding would be designed based on the channel hydraulics.

8.0 This report has been prepared for specific application to the subject bridge in accordance with generally accepted soil and foundation engineering practices. This study addresses the geotechnical requirements for the bridge foundations, only. No other warranty, express or implied, is made. In the event that any changes in the nature, design and location of structures are planned, the conclusions and recommendations contained in this report should not be considered valid unless the changes are
reviewed and conclusions of this report modified or verified in writing.

The analyzes and recommendations submitted in this report are based in part upon data obtained from referenced explorations. The extent of variations between explorations may not become evident until construction. If variations then appear evident, it will be necessary to re-evaluate the recommendations of this report.

Dr. Clarence Welti, P.E., P.C., shall perform a general review of the final design and specifications in order that geotechnical design recommendations may be properly interpreted and implemented as they were intended. The existing topography, the bridge type and potential scour depths have not been determined. This report will require supplemental input to address specific areas of concern, when the information is available. Special conditions may only be apparent when the above information is available for review by the writer.

If you have any questions please call me.

Very truly yours,

John J. Bear, P.E.

Clarence Welti Ph.D., P. E.
President, Dr. Clarence Welti P.E.; P.C.
APPENDIX

BORING LOCATION PLAN
+
BORING LOGS
<table>
<thead>
<tr>
<th>DEPTH</th>
<th>NO.</th>
<th>SAMPLE</th>
<th>BLOWS/6&quot;</th>
<th>DEPTH</th>
<th>ASHFLAT</th>
<th>BR. FINE-CRS. SAND, SOME GRAVEL, LITTLE Silt - FILL</th>
<th>ELEV.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BR. FINE-CRS. SAND, LITTLE SILT &amp; GRAVEL, TRACE ROOTS - FILL</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>9-9-5-3</td>
<td>5.00'-7.00'</td>
<td></td>
<td></td>
<td>BR. FINE-CRS. SAND, SOME Silt &amp; GRAVEL</td>
<td>3.5</td>
</tr>
<tr>
<td>10</td>
<td>2</td>
<td>17-32-39-20</td>
<td>10.00'-12.00'</td>
<td></td>
<td></td>
<td>WEATHERED ROCK</td>
<td>16.5</td>
</tr>
<tr>
<td>15</td>
<td>3</td>
<td>7-10-17-55</td>
<td>15.00'-17.00'</td>
<td></td>
<td></td>
<td>AUGER REFUSAL @ 20.0'</td>
<td>20.0</td>
</tr>
</tbody>
</table>

LEGEND: COL. A=RECOVERY 
SAMPLE TYPE: D=DRY A=AUGER C=Core U=UNDISTURBED PISTON S=SPIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-30% SOME=20-35% AND=35-50%

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

PROJECT NAME
CULVERT REPLACEMENT
TOWN OF WATERTOWN
WEST ROAD, WATERTOWN, CT

CLIENT
LOCATION

SURFACE ELEV.

HOLE NO. WR-9
START DATE 8/23/13
FINISH DATE 8/23/13
GROUND WATER OBSERVATIONS AT 9.5 FT. AFTER 0 HOURS

DRILLER: J. BREWER
INSPECTOR:

SHEET 1 OF 1 HOLE NO. WR-9
<table>
<thead>
<tr>
<th>DEPTH (ft)</th>
<th>SAMPLE NO.</th>
<th>BLOWS/6&quot;</th>
<th>DEPTH (ft)</th>
<th>STRATUM DESCRIPTION</th>
<th>ELEV.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td>ASPHALT</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BR. FINE-CRS. SAND, SOME GRAVEL, LITTLE SILT - FILL</td>
<td>3.0</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>2-3-7-7</td>
<td>5.00'-7.00'</td>
<td>BR. FINE-MED. SAND, LITTLE SILT &amp; GRAVEL - FILL</td>
<td>8.0</td>
</tr>
<tr>
<td>10</td>
<td>2</td>
<td>60</td>
<td>10.00'-10.42</td>
<td>BR. FINE-CRS. SAND, SOME GRAVEL, LITTLE SILT</td>
<td>10.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>WEATHERED ROCK</td>
<td>11.0</td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td>AUGER REFUSAL @ 11.0'</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>35</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Legend:**
- COL. A: RECOVERY
- SAMPLE TYPE: D=DRY, A=AUGER, C=CORE, U=UNDISTURBED PISTON, S=SPLIT SPOON
- PROPORTIONS USED: TRACE=0-10%, LITTLE=10-20%, SOME=20-35%, AND=35-50%

**Driller:** J. BREWER
**Inspector:**

**Sheet 1 of 1 Hole No:** WR-10
Sent by certified mail

May 26, 2015

Roy Cavanaugh, Director
Department of Public Works
61 Echo Lake Road
Watertown Connecticut 06795

Dear Mr. Cavanaugh:

The Conservation Commission/Inland Wetland Agency of the Town of Watertown at a regular meeting held on May 14, 2015 voted to approve application #935 subject to conditions to conduct regulated activities associated with the removal and replacement of bridge superstructure near 64 West Road, Watertown, CT.

Legal Notice of Approval appeared in the Town Times on May 21, 2015. Your permit is attached. Please feel free to contact me if you have any questions concerning this permit.

Sincerely,

Moosa M. Rafey
Wetland Enforcement Officer
This approval permit refers to your application to conduct regulated activities in the
Town of Watertown.

The Conservation Commission/Inland Wetland Agency of the Town of Watertown has
considered application #935 with due regard for the matters listed in Section 10 of the
Inland Wetland and Watercourse Regulations of the Town of Watertown. The
Commission has found that the proposed activities as shown on a site development plan
entitled “Proposed Site Plan prepared for West Road Bridge Rehabilitation Over Steele
Brook Watertown Connecticut Drawing #2 of 9 dated February 2, 2015 prepared by
Lenard Engineering, Inc.” as specified and conditioned below conform to the purpose and
provision of said section.

The regulated activities consist of the following:

1. Disturbance of approximately 600 Sq. Ft of upland review area by superstructure
replacement

2. Construction of approximately 30 linear feet of rock weir in the stream channel on
the downstream side.

3. Deposition of approximately 18 cubic yard of material in the stream for
installation of fish passage baffles on the concrete base for fisheries habitat
enhancement

4. Installation of erosion and sediment control measures within regulated area.

The permit is issued subject to the following conditions and modifications:

1. The permittee shall notify Wetlands Enforcement Officer, in writing at least three
business days prior to the commencement of work onsite and upon its completion.

2. If the approved activities are not initiated on or before May 14, 2020, said
activities shall cease and, if not previously revoked or specifically renewed or
extended, this permit shall be null and void. Any request to renew or extend the
expiration date of a permit should be filed in accordance with Section 11 of the
3. All work and all regulated activities conducted pursuant to this approval shall be consistent with the terms and conditions of this permit. Any structures, excavation, fill, obstructions, encroachment, or regulated activities not specifically identified and approved herein shall constitute a violation of this permit and may result in its modification, suspension, or revocation.

4. This permit is not transferable without the written consent of the Conservation Commission/Inland Wetland Agency.

5. In evaluating this application, the wetland agency has relied on information provided by the applicant. If such information is subsequently proved to be false, incomplete, or misleading, this permit may be modified, suspended, or revoked and the permittee may be subject to any other remedies or penalties provided by law.

6. The permittee shall employ management practices, consistent with the terms and conditions of this permit, to control storm water discharges and to prevent erosion and sedimentation and to otherwise prevent pollution of wetlands or watercourses. The permittee shall immediately inform the agency of any problems involving wetlands or watercourses that have developed in the course of, or that are caused by, the approved work.

7. No equipment or material including without limitation fill, construction materials, or debris, shall be deposited, placed or stored in any wetland or watercourse on or off site unless specifically approved by this permit.

8. This permit is subject to and does not derogate any rights or powers of the Town of Watertown, conveys no property rights or exclusive privileges, and is subject to all public and private rights and to all applicable federal, state and local laws. In conducting and maintaining any activities approved herein, the permittee may not cause pollution, impairment, or destruction of the inland wetlands and watercourses of the Town of Watertown.

9. If the activity approved by the inland wetlands permit also involves activity or a project that requires state or federal approval, zoning or subdivision approval, special permit, variance, or special exception no work pursuant to the wetlands permit may begin until such approval is obtained.

10. The permittee shall maintain sediment and erosion controls at the site in such an operable condition as to prevent the pollution of wetlands and watercourses. Said controls are to be inspected by the permittee for deficiencies at least once per week and immediately after rains. The permittee shall correct any such
deficiencies within 24 hours of said deficiency being found. The permittee shall maintain such control measures until all areas of disturbed soils at the site are stabilized.

11. The project construction work shall take place during the low flow summer period.

12. A specific water handling plan shall be submitted to the Town Engineer and Wetland Enforcement Officer for review and approval.

This authorization constitutes the permit required by Section 22a-42 of the Connecticut General Statute, as amended.
PLEASE

IT IS A REQUIREMENT OF THIS BID THAT EACH PROPOSAL SUBMITTED MUST HAVE A DUPLICATE COPY ATTACHED.

YOUR COOPERATION IS APPRECIATED
TOWN OF WATERTOWN  
WATERTOWN, CONNECTICUT 06795  

BID PROPOSAL  

Watertown Public Works Department  

BID OPENING: 11:00 a.m., Thursday, July 23, 2015  

TO: Jason Warner, Purchasing Agent  
Town of Watertown  
424 Main Street  
Watertown, CT 06795  

The undersigned, as bidder, agrees to furnish all labor, superintendence, materials, plant, tools and equipment required to complete this work as specified and declares that no person or persons, other than those named herein, are interested in this Proposal; that this Proposal is made without collusion with any person, firm, or corporation; that he has carefully examined the location of the proposed work, the Contract Drawings therein referred to: that no person or persons acting in any official capacity for the Town is directly or indirectly interested therein or in any portion of the profit thereof; and that he proposes and agrees, if this Proposal is accepted, to execute the Contract with the Town; to provide all necessary equipment, tools, labor and deliver and to do all work and furnish all materials specified in the Contract, in the manner and time therein prescribed, and according to the requirements of the Town as therein set forth, and that he will take in full payment therefor, the following unit prices and lump sums, to wit: 

FIRM  

Name  

Street  

City  
State  
Zip Code  

NAME  

Please Print  

TELEPHONE NUMBER:  

FAX NUMBER:  

EMAIL ADDRESS:  

SIGNED: _______________________________ DATE: _______________________________
### PROPOSAL

The following items shall be provided in accordance with the State of Connecticut Department of Transportation “Standard Specifications for Roads, Bridges and Incidental Construction”, Form 816, as amended.

<table>
<thead>
<tr>
<th>Description/Unit Price</th>
<th>Estimated Quantities</th>
<th>Computed Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Item #1 – Removal of Superstructure</strong>&lt;br&gt;The lump sum price of</td>
<td></td>
<td></td>
</tr>
<tr>
<td>____________________ Dollars and ____________________ Cents</td>
<td></td>
<td></td>
</tr>
<tr>
<td>($) ) per lump sum (LS).</td>
<td>1 LS</td>
<td></td>
</tr>
<tr>
<td><strong>Item #2 – Sedimentation Control System</strong>&lt;br&gt;The unit price of</td>
<td></td>
<td></td>
</tr>
<tr>
<td>____________________ Dollars and ____________________ Cents</td>
<td></td>
<td></td>
</tr>
<tr>
<td>($) ) per linear foot (LF).</td>
<td>160 LF</td>
<td></td>
</tr>
<tr>
<td><strong>Item #3 – Subbase</strong>&lt;br&gt;The unit price of</td>
<td></td>
<td></td>
</tr>
<tr>
<td>____________________ Dollars and ____________________ Cents</td>
<td></td>
<td></td>
</tr>
<tr>
<td>($) ) per cubic yard (CY)</td>
<td>125 CY</td>
<td></td>
</tr>
<tr>
<td><strong>Item #4 – Installation of New Bridge</strong>&lt;br&gt;The unit price of</td>
<td></td>
<td></td>
</tr>
<tr>
<td>____________________ Dollars and ____________________ Cents</td>
<td></td>
<td></td>
</tr>
<tr>
<td>($) ) per each (EA)</td>
<td>1 EA</td>
<td></td>
</tr>
<tr>
<td><strong>Item #5 - Bituminous Concrete – Class 1</strong>&lt;br&gt;The unit price of</td>
<td></td>
<td></td>
</tr>
<tr>
<td>____________________ Dollars and ____________________ Cents</td>
<td></td>
<td></td>
</tr>
<tr>
<td>($) ) per ton (TON)</td>
<td>50 TON</td>
<td></td>
</tr>
<tr>
<td><strong>Item #6 - Bituminous Concrete – Class 2</strong>&lt;br&gt;The unit price of</td>
<td></td>
<td></td>
</tr>
<tr>
<td>____________________ Dollars and ____________________ Cents</td>
<td></td>
<td></td>
</tr>
<tr>
<td>($) ) per ton (TON).</td>
<td>50 TON</td>
<td></td>
</tr>
</tbody>
</table>
Item # 7 – Roadway Excavation
The unit price of

_________________________ Dollars

and _______________________ Cents

($ _____ ) per cubic yard (CY) 170 CY $_______

Item # 8 – Topsoil & Turf Establishment
The unit price of

_________________________ Dollars

and _______________________ Cents

($ _____ ) per square yard (SY) 10 SY $_______

Item # 9 – Maintenance and Protection of Traffic
The lump sum price of

_________________________ Dollars

and _______________________ Cents

($ _____ ) per lump sum (LS) 1 LS $_______

Item # 10 – Bridge Deck Bituminous Concrete
The unit price of

_________________________ Dollars

and _______________________ Cents

($ _____ ) per square foot (SF) 552 SF $_______

Item # 11 – Class “F” Concrete
The unit price of

_________________________ Dollars

and _______________________ Cents

($ _____ ) per cubic yard (CY) 30 C.Y. $_______

Item # 12 – Repair and Raise Wingwalls
The unit price of

_________________________ Dollars

and _______________________ Cents

($ _____ ) per cubic yard (CY) 6 CY $_______

Item # 13 – Handling Water
The unit price of

_________________________ Dollars

and _______________________ Cents

($ _____ ) per lump sum (LS) 1 LS $_______

Item #14 - Metal Beam Rail – RB-350
The unit price of
Item #16 - R-B End Anchorages Type I

The unit price of

_________________________ Dollars

and ______________________ Cents

($_______________) per linear foot (LF) 375 LF $_________

Item #17 – Vortex Weir

The lump sum price of

_________________________ Dollars

and ______________________ Cents

($_______________) per Lump Sum (LS) 1 LS $_________

Item #18 – Fish Baffle System

The unit price of

_________________________ Dollars

and ______________________ Cents

($_______________) per each (EA) 1 EA $_________

Computed
Total- Project  $_________

NOTE: The Computed Totals are for convenience in initial comparison of bids and are not an official part of this Proposal. The Town reserves the right to eliminate any Item or portion of the work which it deems to be in its best interest.

Payment: ________________________ Terms: ________________________

Time to Completion: ________________ Working Days: ________________

Warranty: ________________________
Have you taken any exceptions or have you deviated from our printed specification and if so, are such suggested changes clearly noted on the page provided for exceptions to specifications?

_____ yes

_____ no

EXCEPTIONS TAKEN TO SPECIFICATIONS:

________________________________________

________________________________________

________________________________________

________________________________________

________________________________________

________________________________________

________________________________________

________________________________________
## RECEIPT OF ADDENDA

<table>
<thead>
<tr>
<th>ADDENDUM #</th>
<th>SIGNATURE</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td>/ / /</td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td>/ / /</td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td>/ / /</td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td>/ / /</td>
</tr>
</tbody>
</table>

NAME OF BIDDER: __________________________

OFFICIAL ADDRESS: __________________________

PHONE NUMBER: __________________________

BY: __________________________ TITLE: __________________________
(Please Print)

DATE: __________________________

SIGNATURE: __________________________
PROPOSED SUBCONTRACTORS

FIRM ________________________________ Name ________________________________

______________________________ Street ________________________________

________________________ City State Zip Code ________________________________

CONTACT ________________________________ TELEPHONE ________________________________

Please Print

TYPE OF WORK TO BE PERFORMED: ________________________________

........................................................................................................

........................................................................................................

........................................................................................................

FIRM ________________________________ Name ________________________________

______________________________ Street ________________________________

________________________ City State Zip Code ________________________________

CONTACT ________________________________ TELEPHONE ________________________________

Please Print

TYPE OF WORK TO BE PERFORMED: ________________________________

........................................................................................................

........................................................................................................

........................................................................................................
FIRM

Name

Street

City   State   Zip Code

CONTACT_________________________TELEPHONE________________

Please Print

TYPE OF WORK TO BE PERFORMED: ________________________________
REFERENCES

The Bidder is required to fill out the following form to enable the Owner to make inquiries and judgment as to the Bidder's experience, skill, available financial resources, credit and business standing.

1. Number of years the Bidder has been in business as a General Contractor: ____________________.

2. List three (3) projects of similar in nature to the project described herein that the Bidder has completed along with the approximate construction cost. Include the name, address and telephone number of a reference for each project.

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

3. List projects presently under construction by the Bidder, dollar volume of the Contract and percent completed.

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
4. Has the Bidder ever failed to complete work awarded to him; and if so, state where and why.


5. Does the Bidder plan to sublet any part of this work; and if so, give details.


6. List equipment the Bidder owns that is available for this project.


7. List equipment the Bidder plans to rent or purchase for this project.


8. If the Bidder has worked under the direction of a Consulting Engineer, list recent projects with the name, address and telephone number of the Consultant.

________________________________________

________________________________________

________________________________________

9. List name, address and telephone number for the following:

Surety: __________________________________________

________________________________________

Bank: __________________________________________

________________________________________

Major Material
Supplier: ________________________________________

________________________________________
PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: that

(Name of Contractor)

(Address of Contractor)
a ____________, hereinafter called Principal and
(Corporation, Partnership, or Individual)

(Name of Surety)

(Address of Surety)
hereinafter called Surety, are held and firmly bound unto

(Name of Owner)

(Address of Owner)
hereinafter called OWNER, in the penal sum of
__________________ Dollars, $__________________ in lawful
money of the United States, for the payment of which sum well and truly to be made, we
bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal
entered into a certain contract with the OWNER, dated the _____ day of ____________,
20____, a copy of which is hereto attached and made a part hereof for the construction of:

__________________

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform its duties,
all the undertakings, covenants, terms, conditions, and agreements of said contract during
the original term thereof, and any extensions thereof which may be granted by the
OWNER, with or without notice to the Surety and during the one year guaranty period,
and if he shall satisfy all claims and demands incurred under such contract, and shall fully
indemnify and save harmless the OWNER from all costs and damages which it may
suffer by reason of failure to do so, and shall reimburse and repay the OWNER all outlay
and expense which the OWNER may incur in making good any default, then this
obligation shall be void; otherwise to remain in full force and effect.
PROVIDED, FURTHER, that the said surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to WORK to be performed thereunder or the SPECIFICATIONS accompanying the same shall in any wise affect its obligation on this BOND, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the WORK or to the SPECIFICATIONS.

PROVIDED, FURTHER, that no final settlement between the OWNER and the CONTRACTOR shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in ___ counterparts each one of which shall be deemed an original, this ____ day of __________, 20__.

ATTEST: ____________________________________________

By __________________________________________ (s)
(Principal) Secretary (SEAL)

(Witness as to Principal)

__(Address)_________________________________________________________________________

(Address)

____________________________________________________________________________________

ATTEST: _______________________________________________________________________________

(Surety) Secretary (SEAL)

By ______________________________________ (Witness as to Surety) Attorney-in-Fact

(Address) (Address)

NOTE: Date of BOND must not be prior to date of Contract.
If CONTRACTOR is Partnership, all partners should execute BOND

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the PROJECT is located.
PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: that

__________________________________________
(Name of Contractor)

__________________________________________
(Address of Contractor)

a ________________________________________, hereinafter called Principal and
(Corporation, Partnership, or Individual)

__________________________________________
(Name of Surety)

__________________________________________
(Address of Surety)

hereinafter called Surety, are held and firmly bound unto

__________________________________________
(Name of Owner)

__________________________________________
(Address of Owner)

hereinafter called OWNER, in the penal sum of __________________ Dollars, $_____________, in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain contract with the OWNER, dated the _____ day of ____________, 20__, a copy of which is hereto attached and made a part hereof for the construction of:

__________________________________________

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term thereof, and any extensions thereof which may be granted by the OWNER, with or without notice to the Surety and during the one year guaranty period, and if he shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and save harmless the OWNER from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the OWNER all outlay and expense which the OWNER may incur in making good any default, then this obligation shall be void; otherwise to remain in full force and effect.
PROVIDED, FURTHER, that the said surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to WORK to be performed thereunder or the SPECIFICATIONS accompanying the same shall in any wise affect its obligation on this BOND, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the WORK or to the SPECIFICATIONS.

PROVIDED, FURTHER, that no final settlement between the OWNER and the CONTRACTOR shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in ____ counterparts each one of which shall be deemed an original, this ____ day of __________, 20__.

ATTEST:

__________________________________________

Principal

By __________________________(s)

(Principal) Secretary
(Seal)

__________________________________________

(Address)

(Witness as to Principal)

__________________________________________

(Address)

ATTEST:

__________________________________________

Surety

By __________________________

(Surety) Secretary
(Seal)

__________________________________________

(Address)

(Witness as to Surety)

__________________________________________

(Address)

NOTE: Date of BOND must not be prior to date of Contract.
If CONTRACTOR is Partnership, all partners should execute BOND

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the PROJECT is located.