

CONTRACT BIDDING DOCUMENTS

FOR

TOWN OF WEST HARTFORD

**2019 MISCELLANEOUS SIDEWALK
REPAIRS**

BID #6677F



INFORMATION

TOWN OF WEST HARTFORD
2019 MISCELLANEOUS SIDEWALK REPAIRS
BID# 6677F

PROJECT MANAGER

DUANE MARTIN PE
TOWN ENGINEER

ALL QUESTIONS TO

PURCHASING SERVICES
TAMMY BRADLEY
SENIOR BUYER

All questions must be submitted in writing and mailed to the Purchasing Office, emailed to TammyB@westhartfordCT.gov, or faxed to (860) 561-7507 at least seven calendar days prior to the date established for the opening of bids. Do not call the Engineer/Architect, Project Manager or Purchasing Office with questions.

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1.05 PROJECT NARRATIVE

2019 MISCELLANEOUS SIDEWALK CONTRACT - PROJECT NARRATIVE

This work consists of all labor, equipment, and materials necessary for the construction, reconstruction, or removal of sidewalks, and related work. Related work may include concrete curb, granite curb, asphalt paving, granite benches, retaining walls, and restoration at various locations in the Town of West Hartford.

This is an annual contract with prices remaining fixed for the contract duration. The contract may be extended for two additional one-year periods upon mutual agreement of both parties.

The first contract year is from the date of contract signing to December 31, 2019. The second contract year is from January 1, 2020 to December 31, 2020. The third contract year is from January 1, 2021 to December 31, 2021.

The Town's sidewalk budget for the next three years averages \$400,000 per year. This contract may be awarded to more than one Contractor for each of the three years.

The quantities indicated are used for bid comparison purposes only.

The bidder must review the technical specifications and details prior to completing the bid proposal and shall include all the work required in their unit price.

The Contractor shall use the enclosed Town of West Hartford concrete sidewalk measurement forms for payment requests.

2.00 INFORMATION FOR BIDDERS

2.01 Invitation to Bid

2.02 Instructions to Bidders

2.03 Bid Forms

2.01 INVITATION TO BID

- 2.01.01 Sealed bids marked "**2019 MISCELLANEOUS SIDEWALK REPAIR Bid#6677F**" will be received at the office of the Division of Purchasing Services, Room 223, Town Hall, 50 South Main Street, West Hartford, Connecticut until **2:00 PM** on **FEBRUARY 14, 2019** at which time they will be publicly opened and read.

Plans and specifications are available for downloading at www.westhartfordct.gov/bids

Any questions concerning this request for bid shall be addressed to the Purchasing Agent at the address above.

- 2.01.02 A pre-bid conference will be held on **January 31, 2019** at **11:00 AM** in room 217 of Town Hall, 50 South Main Street, West Hartford, CT at which time questions concerning the project will be answered.
- 2.01.03 All bidders must file with their bid, a Certified Check, Treasurer's Check or Bid Bond made payable to the Town of West Hartford in the amount of 10% of the total base bid price.
- 2.01.04 Performance, Labor and Materials Payment Bonds in the amount of the contract price shall be required of the successful bidder. The annual budget for this contract shall not exceed \$500,000.00. This contract may have multiple awards. In that case, the bonds will be in the amount awarded to the contractor.
- 2.01.05 No bid may be withdrawn for a period of 90 days after the opening of bids without the approval and written consent of the Town of West Hartford.
- 2.01.06 The right is reserved to reject any and all bids, to waive any informalities in the bidding and to make awards in any manner that is the most beneficial to the Town. Deviation from the "Contract Bidding Documents" may render such bids voidable at the Town's sole option.
- 2.01.07 The work described herein shall be completed as required. Unless otherwise stated, time is of the essence.
- 2.01.08 The term of the contract pursuant to this solicitation shall be date of award – December 31, 2019 and may be annually extended upon mutual agreement of both parties for up to two additional full years (January 1, 2020 – December 31, 2020 and January 1, 2021 – December 31, 2021). The terms and prices of the contract will remain the same for each year of the contract. The Contractor shall pay the Owner liquidated damages in the amount of Fifty Dollars (\$50.00) per calendar day, which sum is hereby agreed upon, and shall be assessed not as a penalty, but as liquidated damages which the Owner shall suffer by reason of such default. The Owner and Contractor shall acknowledge that failure to effect substantial completion as noted above will precipitate inconvenience and

disruption. The Owner and Contractor shall acknowledge that such damages are uncertain or difficult to prove and that the amounts established herein are reasonable assessment of these damages.

- 2.01.09 All prospective bidders are hereby notified that in order to obtain a permit to blast within West Hartford, they must present evidence of adequate insurance protection by filing a properly executed copy of the attached Public Liability Endorsement with the West Hartford Fire Department.
- 2.01.10 Overtime Engineering Inspection Fees - N/A
The charge payable to the Town by the Contractor for engineering and inspection services performed by Town personnel on holidays and when Town employees are required to work in excess of 37.5 hours per week as a result of the Contractor's work schedule will be:
Between 37.5 and 40 hours - the then actual hourly rate of the inspector.
Over 40 hours - 1.5 times the then actual hourly rate of the inspector.
Holidays - 1.5 times the then actual hourly rate of the inspector.
Reference Information for Bidders Section 2.02.24.
- 2.01.11 Refuse Disposal Fees
The Town of West Hartford's transfer station shall only accept yard waste for an established fee. All construction waste and demolition materials shall be transported and legally disposed of at the Connecticut Resource Recovery Authority or other legal site selected by the contractor.
- 2.01.12 Disposal of Excavated Material
The Contractor shall not dispose of his excavated material on private or public property in West Hartford without the permission of the Director of Community Services.

BID RESULTS

Bidders are encouraged to attend the Town's bid opening at which time the public is afforded an opportunity to record bid prices received in response to the Town's solicitation. Bidders who would like the results of the bid but are unable to attend the bid opening, may check the Town website www.westhartfordct.gov/gov/departments/purchasing/bid_results a week after the bid opening date. Bidders calling the Purchasing Office for bid results will be referred to the above procedure.

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2.02 INSTRUCTIONS TO BIDDERS

2.02.01 **TIME FOR OPENING BIDS** Sealed bids or proposals for performing the work described herein will be received by the Division of Purchasing Services, Room 223, 50 South Main Street, West Hartford, Connecticut, until the time named on the title page hereof at which time and place they will be publicly opened and read. After the bids are opened and read they will be taken under advisement and the award of the contract, if awarded, will be made as soon thereafter as practicable.

2.02.02 **FORM OF BID** Each bid must be made in and on the form prepared therefore and attached hereto and the proposal form must be submitted complete and unchanged as furnished, except for the insertion of names, addresses, prices and other required data in the blank spaces provided therefore. All appropriate blanks must be filled out. A duplicate bid form is included and should also be completed and submitted. Any changes to, or material deviations from the form provided, shall render such bid voidable at the Town's sole option.

Bidders shall state, both in writing and in figures, the proposed price for each separate item of the work called for in the annexed proposal form. These prices will be used to compare bids. If any price is omitted, the proposal shall be rejected. In case of discrepancy between the prices in written words and in figures, the former shall govern.

2.02.03 **SUBMISSION OF BID** Bids shall be sealed in an envelope marked "Sealed Bid" with the bid proposal number and the vendor's name and address. Late bids will not be accepted.

2.02.04 **QUANTITIES** Bids will be compared on the basis of the Engineer's estimate of quantities as set forth in the Schedule of Bids.

These quantities are given solely as a basis for the comparison of bids. The Town does not expressly, or by implication, agree that the actual amount of work will correspond therewith, but reserves the right to increase or decrease the amount of any item or portion of the work as may be required.

Attention is particularly called to the fact that some items may be largely dependent on soil or foundation conditions and therefore, may vary widely from the estimated quantities or may even be omitted. An increase or decrease in the quantity for any item shall not be regarded as sufficient grounds for an increase or decrease in the unit price.

Bidders must satisfy themselves, by personal examination and by such other means as they may prefer, as to the actual conditions and requirements of the work and the accuracy of the estimate of the Engineer, and shall not, at any time after the submission of a bid, dispute or complain of such statement or

estimate of the Engineer nor assert that there was any misrepresentation or misunderstanding in regard to the nature or amount of work to be done.

The work has been divided into items in order to enable the bidder to bid for the different portions of the work in accordance with his estimate of their costs individually and to provide for payment respective of quantity variations.

Bidders are especially cautioned not to submit bids, which are unbalanced. If, in the opinion of the Town, any bid submitted appears unbalanced, this action may be sufficient cause for the rejection of the entire bid or it may result in a monetary loss to the Contractor if certain portions of the work are increased or decreased as provided in the Contract.

- 2.02.05 DUTIES OF BIDDER The bidder is required to examine carefully the site of the work, the project drawings, if any, the Notice to Contractor, Information for Bidders, General Conditions, General Specifications, Technical Specifications, Wage Rates and Certification and Bid Proposal hereinafter referred to from time to time as the Contract Bidding Documents. He must satisfy himself as to the actual conditions and requirements of the work to be performed and the materials to be furnished and shall make himself familiar with all Federal, State and local laws, ordinances and regulations which in any manner affect the work or its conduct. No plea of misunderstanding or ignorance of such laws, etc., will be considered as an excuse for failure to comply with any of the requirements hereof or as reason for any additional compensation or waiver of any requirements of Contract Bidding Documents.

Every bid submitted must be based upon the Contract Bidding Documents if any, described herein and upon the written, typed or printed texts of the Contract Bidding Documents. Oral statements by any officer or employee of the Town will not be binding. Questions shall be submitted in writing to the Division of Purchasing Services Manager at least seven (7) working days before the established date for receipt of bids. If the question involves the equality or use of products or methods, it must be accompanied by drawings, specifications or other data in sufficient detail to enable the Engineer to determine the equality or suitability of the product or method. In general, the Town will neither approve nor disapprove particular products prior to the opening of the bids; such products will be considered when offered by the Contractor for incorporation into the work.

- 2.02.06 UNDERGROUND OBJECTS, SOILS, ETC If any Contract Bidding Document or drawing or similar source of information furnished to prospective bidders or to awarded contractors purports to show underground objects or conditions or pipes, ducts or similar structures or observations or indications of soils, rock, ground water, etc., made from borings, test pits or prior excavations, such information must be considered as only advisory and not necessarily correct and complete, having been obtained, made and plotted for the benefit of the Engineer. Bidders and awarded contractors must recognize that, by reason of

the methods commonly used for obtaining and expressing such data, this information and data is limited and subject to error or misunderstanding. The terms used to describe soils, ground water, etc. are subject to local usage and to the individual opinion of the person making the records. Ground water conditions vary from time to time. The locations, sizes, depths, etc. of underground pipes, ducts and structures are usually obtained from records of others and such data, when shown on plans of the Town, are subject to possible errors in the source of the information and also errors in transcription. The Town, together with its agents, does not warrant or represent that the indications on Contract Drawings or other documents of underground conditions, objects, etc., as described above, are either approximately correct or complete, and any party making use of such indications or basing estimates of proposals thereon must agree that they shall have no claim or right of action against either the Town or any person or party acting for or under it for the consequences, delays, expense or losses which may occur or have occurred in event that such indications shall be found to have been incomplete, incorrect or misleading. Bidders must make such investigations as they deem necessary and form their own opinions of the materials, conditions and difficulties or obstacles likely to be encountered.

Contractors, as required by State law, are required to notify the utilities coordinating agency for field locations of existing underground utilities. A town permit is required for each project location. Prior to the issuance of a Town Permit for work within Town rights of way, the awarded Contractor shall secure a "Call Before You Dig" number and this number shall appear on the permit.

2.02.07 BID SURETY Each bid must be accompanied by a Bid Bond, Certified Check or Treasurer's Check in the amount of ten percent (10%) of the total base bid and made payable to the "Town of West Hartford". Failure to provide the bid surety will result in rejection of the bid. All surety checks shall be returned to the respective bidders when the contract is awarded.

2.02.08 PERFORMANCE, LABOR AND MATERIAL BONDS If the amount of the contract to be awarded is Fifty Thousand Dollars (\$50,000) or more, the successful Contract Bidder shall furnish and pay for the Surety favoring the Town of West Hartford in the full amount of the estimated total base bid as determined by extending the unit prices by the estimated quantities. This Bond shall provide 100% security for faithful performance and for payment of all persons performing labor or furnishing materials in connection with this Contract and shall be executed by a company authorized to transact business within the State of Connecticut.

The annual budget for this contract shall not exceed \$500,000.00. This contract may have multiple awards. In that case, the bonds will be in the amount awarded to the contractor, renewable annually.

The Bidder shall deliver the required bonds to the Town not later than five (5) days from notice of the Town's intent to award the Contract to the bidder and prior to execution of a contract.

2.02.09 **REJECTION OF BIDS** The Town shall not award this Contract to a bidder who does not furnish evidence satisfactory to the Town that he has ability, equipment and experience in this class of work, that he has satisfactorily completed work of similar character, magnitude and importance, and that he has sufficient capital and capacity to enable him to prosecute the same successfully within the time limit stated herein. Prospective bidders who cannot fully satisfy these requirements are requested not to submit bids. Failure to qualify in this respect may be considered sufficient cause to reject any bid whatsoever.

The Town reserves the right to reject any one or more bids as it may deem to be in the best interests of the Town, and this right to reject is not limited to the specific reasons mentioned herein. A bid may, but does not have to be rejected:

- (a) If it is incomplete, conditional or obscure, or if it contains additions not called for, erasures, alterations, obvious errors or irregularities of any kind, or if it does not conform in every respect to the requirements stated in these contract bidding documents, or if it is on sheets removed from this pamphlet;
- (b) If the individual unit prices bid are considered by the Town to be unbalanced in a manner likely to be detrimental to the Town;
- (c) If the Town shall be of the opinion that it was prepared without adequate care or knowledge of the conditions relative to the work, or under a misunderstanding of the requirements of the Town, or if it is for work other than that shown on applicable Drawings or specified;
- (d) For failure to furnish information promptly as required herein.
- (e) If the Contractor has failed to satisfactorily complete prior contracts.
- (f) If the Contractor has not performed work of a similar size or type in the past.

2.02.10 **BIDDER TO FURNISH INFORMATION** In order that the Town may have information to guide it in the award of the Contract, the bidders whose bids are being considered shall, on request of the Town, submit the following information within four working (4) days after the receipt of such a request;

- (a) A list of previous work of similar character and magnitude which has been performed or furnished by the bidder, or by the principals to the bid, together with information as to each such job, its character, magnitude,

date, location and that it was carried forward and completed in a matter entirely satisfactory to the party under whose supervision it was done.

- (b) A statement of the capacity, equipment and forces of the bidder which are or will be available to the bidder together with a statement as to whether things are owned by the bidder, or under lease or contract to the bidder.
- (c) A brief statement of the methods and order of work the bidder proposes to perform and the rate of progress on the several parts of the same which the bidder expects to accomplish.
- (d) A sworn copy of the latest statement of the financial condition of the bidder together with sworn statements as to any and every important change which may have occurred to alter the said financial condition since the date of the above statement, with supporting evidence if and as requested.
- (e) References showing that the bidder undoubtedly has ample capital, credit and other resources to finance the work throughout and without being dependent on release of portions of retained percentage before completion of work, and without having estimates for payment made more often than once each month and at such times as will conform to payment practices of the Town.

2.02.11 AWARD OF CONTRACT It is the intent of the Town to award a Contract to the contractor providing the Best Value and is in accordance with the requirements of the Bidding Documents and does not exceed available funds. The Town shall have the right to waive informalities or irregularities in a Bid received and to accept the Bid which, in the Town's judgement, is in the Town's own best interests.

The Town shall have the right to accept Alternates in any order or combination, unless otherwise specifically provided in the Bidding Documents, and to determine the low Bidder on the basis of the sum of the Base Bid and Alternates accepted.

2.02.12 EXECUTION OF CONTRACT AND BONDS The bidder to whom the Contract is awarded shall execute the Contract and required performance and labor and materials surety within five (5) working days (not including Saturdays, Sundays, or holidays) from the date of notice by the Town to the bidder, that the Contract is ready for signature, and, in case of the bidder's failure or neglect to do so, the Town may determine that the bidder has abandoned the Contract and thereupon the acceptance of the bid and the award shall be null and void and the bid surety accompanying the bid shall be forfeited to the Town.

The Contractor shall increase the principal amount of the performance and labor and materials payment bond(s) in direct proportion to any increase in the value of the Contract resulting from change orders.

2.02.13 TIME See Section 5.13 of the General Conditions.

2.02.14 SALES TAX Under the terms of the regulations referring to contractors and subcontractors, issued by the State Tax Commission in administration of the State Sales and Use Tax, to which the bidder is referred, the Contractor may purchase such materials and supplies as are to be physically incorporated in and become a permanent part of the project being performed under this Contract without payment of tax and shall not include in his bid nor charge any use or sales tax thereon.

2.02.15 OUT-OF-STATE CONTRACTORS The Contractor, if not a resident of the State of Connecticut, or, in the case of a partnership, the partners, if not residents, shall appoint an approved person having permanent local residence as his or their attorney, upon whom all lawful processes, proceedings or notices may be served. The Contractor, if a corporation not organized under the laws of Connecticut, shall comply with the provisions of the General Statutes of Connecticut regarding "Foreign Corporations" before entering upon the performance of the Contract.

Any non-resident Contractor is required to comply with the conditions set forth by the State Tax Commissioner relative to the provisions of Public Act No. 75-740, "An Act Concerning Bond Requirement for Non-resident Contractors for Purposes of Sales and Use Tax".

Public Act No. 75-740 requires a non-resident to deposit a sum equivalent to three percent (3%) of the total amount of the contract or a guarantee bond in the like amount with the State Tax Commissioner to secure payment of the sales and use tax. The Contractor shall obtain a certificate from the State Tax Commissioner that the requirements of Public Act No. 75-740 have been met before entering upon the performance of the Contract.

2.02.16 ADDRESS OF CONTRACTOR Each bidder shall indicate in his bid the address to which all notices, letters or other communications may be sent. This address may be changed only by proper delivery to the Town of written notice of such change, signed by the Contractor. The mailing or delivery by messenger of any notice, letter or communication to such designated address or to the office of the Contractor at or near the site of the work or to any attorneys or attorneys appointed by non-resident principals to a contract or by a "foreign" corporation, at any time including the full period of work under the Contract shall be deemed sufficient for any notice or service on the part of the Town in connection with the Contract or any part thereof.

2.02.17 SCOPE AND TERM OF INSURANCE The Contractor shall procure and maintain insurance coverage for the duration of the Contract, including any maintenance period provided therein, as required and specified in Exhibit A - Insurance Requirements.

2.02.18 INSURANCE CERTIFICATES Certificates of the insurance company or companies carrying the required insurance for the Contractor, on forms furnished by the Town, must be submitted in duplicate to the Town before the Contractor occupies any portion of the Town's property, rights-of-way or of any public highway or starts work on the site.

The insurance policy or policies shall be delivered to the Town, for the Town to examine and rule on acceptability of the policies and of any endorsements. All premiums or other insurance carriers' charges for such policies shall be paid by the Contractor.

Should any insurance described in any such certificate expire or be terminated during any period when the same is required under the Contract, the Purchasing Agent shall be notified immediately and such expired or terminated insurance must be replaced with new insurance and new certificates prior to date of such expiration or termination.

If the Town shall so request, the original policies of insurance or certified copies thereof shall be submitted by the Contractor to the Town for examination.

Failure to provide the required insurance, or to replace expired or terminated insurance, or to provide satisfactory certificates thereof, or to exhibit the policies if required, may, at the option of the Town, be held a willful violation of the Contract.

2.02.19 WITHDRAWAL OF OFFER A bid offer may be withdrawn only prior to the scheduled bid opening time for the particular project, provided the bidder first submits a written request for such withdrawal to the Division of Purchasing Services. Notice of acceptance of a bid shall not constitute rejection of any other bid.

2.02.20 LIMITATIONS ON SURETY BOND No surety bond for proposal guarantee, for performance of the Contract or for payment for labor and materials will be accepted if the amount of the bond exceeds any limit which the laws of Connecticut or the regulations of the Connecticut Insurance Department impose or for which the United States Treasury Department has qualified the surety, unless co-surety for the amount of any such excess is furnished, written by a surety company or companies qualifying hereunder for the respective amounts to be covered thereby.

- 2.02.21 REFERENCE SPECIFICATIONS Where any materials covered by ASTM, ASI, ACI, ConnDOT, MDC or any other these specifications are used, the product, practice or test procedures shall fully comply with these specifications, including their latest revisions, except where amended.
- 2.02.22 APPLICABLE PUBLIC ACTS The Contractor shall be responsible for complying with all statutory obligations connected with its operations such as, but not limited to, General Statutes S16-345 through S16-356 regarding operating rear underground utilities. See Section 5.04 "Utilities" of the General Conditions.
- 2.02.23 EQUAL OPPORTUNITY During the performance of this Contract, the Contractor agrees that he will not discriminate against any employee or applicant for employment because of race, color, religion, age, sex, national origin or disability. The Contractor will take affirmative action to ensure that applicants are employed and that employees are treated during employment without regard to their race, color, religion, age, sex or national origin. Such action shall include, but not be limited to, the following: layoff or termination; rates of pay or other forms of compensation; and selection for training including apprenticeship.

The provisions of the following sub sections below shall not apply where the total cost of all work to be performed by contractors or sub-contractors in connection with this project is less than thirty -five hundred dollars; also this section shall not apply when the contractor has fewer than ten (10) employees.

- (a) The Contractor will, in all solicitations or advertisements for employees, placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, age, sex or national origin.
- (b) The Contractor will comply with all provisions of the State of Connecticut Executive Order No. Three of June 16, 1971 and the guidelines and rules of State Labor Commissioner implementing Executive Order No. Three, and all amendments thereto.
- (c) The Contractor will furnish all information and reports required by Executive Order No. Three of the State of Connecticut of June 16, 1971 and all amendments thereto, and by the rules, regulations and orders of the Labor Commissioner, or pursuant thereto, and will permit access to his books, records and accounts by the Labor Commissioner for purposes of investigation to ascertain compliance with such rules, regulations and orders.
- (d) In the event of the Contractor's noncompliance with the Equal Opportunity clause of these bidding documents or with any of the

Contract pursuant to these bidding documents, said rules, regulations or orders, may be canceled, terminated or suspended, in whole or in part, and the Contractor may be declared ineligible for further Town Contracts in accordance with procedures authorized in Executive Order No. Three of the State of Connecticut of June 16, 1971 and the guidelines and rules of State Labor Commissioner implementing Executive Order No. Three and all amendments thereto; and such other sanctions may be imposed and remedies invoked or as otherwise provided by law.

- (e) The Contractor will include the provisions of this section and paragraphs (a) through (e) in every subcontract or purchase order, so that such provisions will be binding upon each sub-contractor or vendor. The Contractor will take such action with respect to any sub-contract or purchase order as the Town may direct as a means of enforcing such provisions, including sanctions for noncompliance: provided, however, that in the event the Contractor becomes involved in, or is threatened with, litigation with a sub-contractor or vendor as a result of such direction by the Town, the Contractor may request the United States or the State of Connecticut to enter into such litigation to protect the interests of the United States, the State of Connecticut and the Town of West Hartford.

2.02.24 ENGINEERING AND INSPECTION CHARGES AND OVERTIME FEES The Contractor shall be required to reimburse the Town for engineering and inspection services performed by the Town on holidays (New Year's Day, Lincoln's Birthday, Martin Luther King Day, Washington's Birthday, Good Friday, Veterans Day, Memorial Day, Independence Day, Labor Day, Columbus Day, Thanksgiving Day and Christmas Day) or when employees are required to work in excess of 37.5 hours per week as a result of the Contractor's work schedule. The Contractor shall be charged at rates stated in section 2.01.10 of the Invitation To Bid.

2.03 BID FORMS

2.03.01 INFORMATION

Bid of _____ BIDDER,
(Name of Contractor)

(Address of Contractor)

and _____
(Telephone Number of Contractor)

FOR THE 2019 MISCELLANEOUS SIDEWALK REPAIR BID# 6677F AT THE TOWN OF WEST HARTFORD, CONNECTICUT.

To: Town of West Hartford
Peter Privitera
Purchasing Agent
Room 223
50 South Main Street
West Hartford, CT 06107

This Contractor proposes to furnish all labor, materials, and equipment, and all else whatsoever required to perform all work described in the contract Bidding Documents for **2019 MISCELLANEOUS SIDEWALK REPAIR BID# 6677F** as amended by the addendum noted below for the amounts shown herein under Schedule of Bids.

Addendum No. _____ Dated _____

Addendum No. _____ Dated _____

Addendum No. _____ Dated _____

Addendum No. _____ Dated _____

It is understood and agreed that the Owner has the privilege of rejecting any or all Bids and of waiving informality in any bid.

It is further understood and agreed that this bid shall be irrevocable for ninety (90) calendar days after bid receipt date.

2019 MISCELLANEOUS SIDEWALK BASE BID ITEMS

-	<u>DESCRIPTION</u>	<u>UOM</u>	<u>EST. QUANTITY</u>	<u>UNIT COST</u>	<u>TOTAL COST</u>
1	Bank Run Gravel	Cubic Yard	20		
2	Processed Aggregate Base	Cubic Yard	20		
3	Rock Excavation	Cubic Yard	5		
4	Sawcutting Existing Concrete Sidewalk up to 8 Inches	Linear Foot	500		
5	Sidewalk Removal	Square Foot	1,500		
6	5" Thick Concrete Sidewalk	Square Foot	20,000		
7	8" Thick Concrete Sidewalk	Square Foot	8,000		
8	8" Thick Concrete Driveway Ramp	Square Foot	500		
9	8" Thick Concrete Sidewalk Ramp	Square Foot	1,000		
10	Sidewalk Paver	Square Foot	1,000		
11	Remove and Reset Paver	Square Foot	200		
12	Catch Basin	Each	5		
13	Yard Drain	Each	5		
14	Catch Basin Top	Each	5		
15	Reset Catch Basin	Each	5		
16	Reset Yard Drain	Each	5		
17	Underdrain	Linear Foot	100		
18	5" by 16" Straight Granite Curb	Linear Foot	30		
19	5" by 16" Curved Granite Curb	Linear Foot	30		
20	6" by 18" Straight Granite Curb	Linear Foot	10		
21	6" by 18" Curved Granite Curb	Linear Foot	10		
22	Granite Curb Remove and Reset	Linear Foot	30		
23	8" by 18" Straight Concrete Curb	Linear Foot	10		
24	8" by 18" Curved Concrete Curb	Linear Foot	10		
25	Concrete Curb Remove and Reset	Linear Foot	10		
26	Asphalt Sidewalk, Pathway, Driveway	Square Foot	1,000		
27	Tack Coat	Gallon	1,000		
28	Asphalt Paving By Hand	Square Foot	500		
29	Asphalt Paving By Equipment	Square Foot	500		
30	Loam and Seed	Square Yard	500		
31	Loam and Hydroseed	Square Yard	500		
32	Loam and Sod	Square Yard	100		
33	Excavation Crew and Equipment	Hour	100		

	<u>DESCRIPTION</u>	<u>UOM</u>	<u>EST. QUANTITY</u>	<u>UNIT COST</u>	<u>TOTAL COST</u>
34	Concrete Block Retaining Wall	Square Foot	500		
35	Natural Stone Retaining Wall	Square Foot	500		
36	Granite Bench	Each	5		
37	Merestone	Each	2		
38	Sign Post Sleeve	Each	10		

(NOTE: All prices must be clearly written in ink or typed, in words as well as figures, for the entire Bid.)

TOTAL OF BASE BID ITEMS 1 THROUGH 38 INCLUSIVE OF THIS PROPOSAL, AS COMPUTED BY BIDDER USING THE ESTIMATED QUANTITIES INDICATED ABOVE:
 _____ \$

But it is understood that the various unit prices bid will control in any contract which may be awarded arising from this Bid; that the estimate quantities above are approximate only and used only for the comparison of bids; that the products obtained by multiplication of the above unit prices by estimated quantities, and the total thereof, have been inserted only for the convenience of the Bidder and to facilitate consideration of this and other Bids.

2.03.02 CONTRACT TIME

The term of the contract pursuant to this solicitation shall be date of award – December 31, 2019 and may be annually extended upon mutual agreement of both parties for up to two additional full years (January 1, 2020 – December 31, 2020 and January 1, 2021 – December 31, 2021). The terms and prices of the contract will remain the same for each year of the contract. Individual projects within the scope of the Contract shall be assigned to the Contractor by addendum to this Contract and shall set forth start and completion dates for the individual project assigned. Such start and completion dates shall be strictly enforced.

2.03.03 BIDDER QUALIFICATIONS

If the Bidder is a Corporation, fill out:

The Bidder is a Corporation, organized under the laws of _____, having its principal office at _____.

The Principal officers of said Corporation, with their titles and addresses, are as follows:

Bid must be accompanied by either a Certified Check or a Bid Bond, as provided in the Invitation to Bid. If a check is deposited herein, fill out the following:

(Name of Bank)

(Address of Bank)

(Amount of Check)

1. The Bidder is required to state that he has done work of a similar character to that included in the proposed Contract, and give references that will enable the Owner to judge his experience, ability to meet completion date, skill and business standing.
 2. The Bidder is further required to attach a "Summary of Work History" for all jobs for which he has signed a construction contract within the past 36 months, providing the name and address of the Project, name and address of the Project Owner, name and address of the Project Architect, Contract amount, and time required for completion.
- 2.03.04 CERTIFICATE OF INSURANCE The Bidder is required to submit a Certificate of Insurance in amounts and types specified in Article 8.01A of the Exhibit section or provide a letter (see example located after bid signature page) from the Bidder's insurance agent or broker that such insurance is obtainable at the time of execution of the Agreement and that a Certificate of Insurance shall be provided to that effect not later than the date of Contract signing.
- 2.03.05 CONTRACT FORM The parties shall enter into a contract in substantially the same form as the attached subject to technical and other modifications as the parties mutually agree.
- 2.03.06 ANTI-COLLUSION No person or persons other than those named herein are interested in this Bid or in the Contract proposed to be taken. Said contract is made without any connection with any other person or persons making any bid for the same work and is in all respects fair and without collusion or fraud. No person acting for or employed by the Town of West Hartford may be directly or indirectly interested therein or in the supplies or works to which it relates, or will receive any part of the profit or any commission therefrom in any manner which is unethical or contrary to the best interest of the Town.
- 2.03.07 ANTI DISCRIMINATION The Contractor agrees and warrants 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 sex, race, color, religion, physical impairment or national origin in any manner prohibited by the law of the United States, the State of Connecticut, or the Town of West Hartford.

- 2.03.08 SUPERVISION The Contractor shall employ full time on-the-job Project Superintendent as his representative.
- 2.03.09 ANTI TRUST ASSIGNMENT The Contractor and/or Subcontractor offers and agrees to assign to the Town of West Hartford and/or the West Hartford Board of Education all right, title and interest in all causes of action it may have under Section 4 of the Clayton Act, 15 U.S.C. Section 15, or under Connecticut General Statutes 35-24 et. seq., as amended, arising out of the purchase of services, property, or intangibles of any kind pursuant to this Contract, or Subcontracts thereunder. This assignment shall be made and become effective at the time the Town/Board awards or accepts such Contract, without further acknowledgment by the parties. In the alternative, at the option of the Town, the Contractor and/or Subcontractor agrees to pay to the Town its proportionate share of recoveries for anti-trust violations which relate to purchases pursuant to this Contract, or Subcontracts hereunder. The Contractor and/or Subcontractor agrees promptly to notify the purchasing Agent of the Town of West Hartford of suspected anti-trust violations and claims.
- 2.03.10 INDEMNIFICATION The Bidder is aware of and agrees that, if awarded this Contract, he is bound by the indemnification language defined in the Indemnification and Insurance Exhibit.

BIDDER:

COMPANY

SIGNATURE BY DULY AUTHORIZED
(SEAL)

PRINT OR TYPE NAME

Bidder must sign. Failure to provide an original signature will result in rejection of the bid.

®

The bidder agrees that by affixing their signature to this request for bids, the authorized signatory grants approval to the Town of West Hartford to obtain third party credit reports for the purpose of assessing the financial capacity of the business entity tendering such bid to the Town.

TITLE

DATE

ADDRESS

TELEPHONE

FAX #

E-MAIL

VENDOR FEIN #

BID FORMS TO BE SUBMITTED IN DUPLICATE

If you are not registered with the Town of West Hartford, please go to www.westhartfordct.gov/gov/departments/purchasing/vendor_registration.asp and select register. Only registered vendors can be awarded the contract.

2.03.11 INSURANCE AGENT CERTIFICATION OF INSURANCE COMPLIANCE

TO: Town of West Hartford
Peter Privitera
Purchasing Agent

FROM:

CLIENT:

DATE:

Dear Mr. Privitera:

In accordance with Section 2.03.04 of the "Bid Form", please be advised that my client currently has or will have by the date of the execution of the Agreement for this project, a Certificate of Insurance in amounts and types as specified in Article 8.01A of the Exhibit section and Exhibit "B" of the Contract Documents.

Signature
Authorized Broker or Agent

3.00 LABOR REQUIREMENTS

3.01 Prevailing Wage Rates

3.01 PREVAILING WAGE RATES

- 3.01.01 The Contractor shall certify in writing and under oath to the Labor Commissioner the pay scale to be used by the Contractor and any Subcontractors. The provisions of this section shall not apply where the total cost of all work to be performed by ALL Contractors and Subcontractors in connection with new construction of any public works project is less than FOUR HUNDRED thousand dollars or where the total cost of all work to be performed by ALL Contractors and Subcontractors in connection with any remodeling, refinishing, refurbishing, rehabilitation, alteration or repair of any public works project is less than ONE HUNDRED thousand dollars. The Contractor shall fully comply with all provisions of Connecticut General Statutes (CGS) 31-53 and shall be subject to such sanctions mandated for violations of said Public Act.
- 3.01.02 The wages paid on an hourly basis to any mechanic, laborer or workman employed upon the work herein contracted to be done and the amount of payment or contribution paid or payable on behalf of each such employee to any employee welfare fund, as defined in CGS 31-53 shall be at a rate equal to the rate customary or prevailing for the same work in the same trade or occupation in the Town in which such public works project is being constructed. Any contractor who is not obligated by agreement to make payment or contribution on behalf of such employees to any such employee welfare fund shall pay to each employee as part of his wages the amount of payment or contribution for his classification on each pay day.
- 3.01.03 The contractor shall not be paid in accordance with the payment provisions of these Contract Bidding Documents unless the contractor is in full compliance with the mandates of CGS 31-53.
- 3.01.04 Bidders are further advised that if the initial consideration due and payable pursuant to the Contract exceeds the mandatory limits at which prevailing wages rates are required, then the contractor and any subcontractors shall pay the appropriate prevailing wages retroactive to the date of commencement of work on the project. The contractor shall not receive any additional compensation from the Owner as a result of an occurrence of the aforementioned event.

Project: 2019 Sidewalk Installation

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

ID#: H 25521

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

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: West Hartford

FAP Number:

State Number:

Project: 2019 Sidewalk Installation

CLASSIFICATION	Hourly Rate	Benefits
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. **See Laborers Group 5 and 7**		
1) Boilermaker	33.79	34% + 8.96
1a) Bricklayer, Cement Masons, Cement Finishers, Plasterers, Stone Masons	33.48	31.66
2) Carpenters, Piledrivermen	32.60	25.34

As of:

Friday, January 04, 2019

Project: 2019 Sidewalk Installation

2a) Diver Tenders	32.60	25.34
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3) Divers	41.06	25.34
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03a) Millwrights	33.14	25.74
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4) Painters: (Bridge Construction) Brush, Roller, Blasting (Sand, Water, etc.), Spray	49.75	21.05
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4a) Painters: Brush and Roller	33.62	21.05
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4b) Painters: Spray Only	36.62	21.05
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4c) Painters: Steel Only	35.62	21.05
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Project: 2019 Sidewalk Installation

4d) Painters: Blast and Spray 36.62 21.05

4e) Painters: Tanks, Tower and Swing 35.62 21.05

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) 40.00 25.97+3% of gross wage

6) Ironworkers: Ornamental, Reinforcing, Structural, and Precast Concrete Erection 35.47 35.14 + 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) 42.62 31.21

----LABORERS---- -

8) Group 1: Laborer (Unskilled), Common or General, acetylene burner, concrete specialist 30.05 20.10

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Project: 2019 Sidewalk Installation

9) Group 2: Chain saw operators, fence and guard rail erectors, pneumatic tool operators, powdermen	30.30	20.10
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10) Group 3: Pipelayers	30.55	20.10
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11) Group 4: Jackhammer/Pavement breaker (handheld); mason tenders (cement/concrete), catch basin builders, asphalt rakers, air track operators, block paver, curb setter and forklift operators	30.55	20.10
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12) Group 5: Toxic waste removal (non-mechanical systems)	32.05	20.10
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13) Group 6: Blasters	31.80	20.10
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Group 7: Asbestos/lead removal, non-mechanical systems (does not include leaded joint pipe)	31.05	20.10
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Group 8: Traffic control signalmen	16.00	20.10
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As of:

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Project: 2019 Sidewalk Installation

Group 9: Hydraulic Drills	29.30	18.90
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----LABORERS (TUNNEL CONSTRUCTION, FREE AIR). Shield Drive and
Liner Plate Tunnels in Free Air.----

13a) Miners, Motormen, Mucking Machine Operators, Nozzle Men, Grout Men, Shaft & Tunnel Steel & Rodmen, Shield & Erector, Arm Operator, Cable Tenders	32.22	20.10 + a
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13b) Brakemen, Trackmen	31.28	20.10 + a
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----CLEANING, CONCRETE AND CAULKING TUNNEL----

14) Concrete Workers, Form Movers, and Strippers	31.28	20.10 + a
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15) Form Erectors	31.60	20.10 + a
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As of:

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Project: 2019 Sidewalk Installation

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

16) Brakemen, Trackmen, Tunnel Laborers, Shaft Laborers	31.28	20.10 + a
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17) Laborers Topside, Cage Tenders, Bellman	31.17	20.10 + a
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18) Miners	32.22	20.10 + a
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----TUNNELS, CAISSON AND CYLINDER WORK IN COMPRESSED
AIR: ----

18a) Blaster	38.53	20.10 + a
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19) Brakemen, Trackmen, Groutman, Laborers, Outside Lock Tender, Gauge Tenders	38.34	20.10 + a
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As of:

Friday, January 04, 2019

Project: 2019 Sidewalk Installation

20) Change House Attendants, Powder Watchmen, Top on Iron Bolts	36.41	20.10 + a
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21) Mucking Machine Operator	39.11	20.10 + a
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----TRUCK DRIVERS----(*see note below)

Two axle trucks	29.13	23.33 + a
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Three axle trucks; two axle ready mix	29.23	23.33 + a
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Three axle ready mix	29.28	23.33 + a
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Four axle trucks, heavy duty trailer (up to 40 tons)	29.33	23.33 + a
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As of:

Friday, January 04, 2019

Project: 2019 Sidewalk Installation

Four axle ready-mix	29.38	23.33 + a
<hr/>		
Heavy duty trailer (40 tons and over)	29.58	23.33 + a
<hr/>		
Specialized earth moving equipment other than conventional type on-the road trucks and semi-trailer (including Euclids)	29.38	23.33 + a
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----POWER EQUIPMENT OPERATORS----		
<hr/>		
Group 1: Crane handling or erecting structural steel or stone, hoisting engineer (2 drums or over), front end loader (7 cubic yards or over), Work Boat 26 ft. & Over, Tunnel Boring Machines. (Trade License Required)	39.55	24.30 + a
<hr/>		
Group 2: 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)	39.23	24.30 + a
<hr/>		
Group 3: 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)	38.49	24.30 + a
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As of:

Friday, January 04, 2019

Project: 2019 Sidewalk Installation

Group 4: Trenching Machines; Lighter Derrick; Concrete Finishing Machine; CMI Machine or Similar; Koehring Loader (Skooper)	38.10	24.30 + a
Group 5: 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" Mandrell)	37.51	24.30 + a
Group 5 continued: Side Boom; Combination Hoe and Loader; Directional Driller.	37.51	24.30 + a
Group 6: Front End Loader (3 up to 7 cubic yards); Bulldozer (rough grade dozer).	37.20	24.30 + a
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).	36.86	24.30 + a
Group 8: Mechanic, Grease Truck Operator, Hydroblaster, Barrier Mover, Power Stone Spreader; Welder; Work Boat under 26 ft.; Transfer Machine.	36.46	24.30 + a
Group 9: Front End Loader (under 3 cubic yards), Skid Steer Loader regardless of attachments (Bobcat or Similar); Fork Lift, Power Chipper; Landscape Equipment (including hydroseeder).	36.03	24.30 + a

Project: 2019 Sidewalk Installation

Group 10: Vibratory Hammer, Ice Machine, Diesel and Air Hammer, etc.	33.99	24.30 + a
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Group 11: Conveyor, Earth Roller; Power Pavement Breaker (whiphammer), Robot Demolition Equipment.	33.99	24.30 + a
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Group 12: Wellpoint Operator.	33.93	24.30 + a
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Group 13: Compressor Battery Operator.	33.35	24.30 + a
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Group 14: Elevator Operator; Tow Motor Operator (Solid Tire No Rough Terrain).	32.21	24.30 + a
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Group 15: Generator Operator; Compressor Operator; Pump Operator; Welding Machine Operator; Heater Operator.	31.80	24.30 + a
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Group 16: Maintenance Engineer/Oiler	31.15	24.30 + a
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As of:

Friday, January 04, 2019

Project: 2019 Sidewalk Installation

Group 17: Portable asphalt plant operator; portable crusher plant operator;
portable concrete plant operator. 35.46 24.30 + a

Group 18: Power Safety Boat; Vacuum Truck; Zim Mixer; Sweeper; (minimum
for any job requiring CDL license). 33.04 24.05 + a

**NOTE: SEE BELOW

---LINE CONSTRUCTION---(Railroad Construction and Maintenance)---

20) Lineman, Cable Splicer, Technician 48.19 6.5% + 22.00

21) Heavy Equipment Operator 42.26 6.5% + 19.88

22) Equipment Operator, Tractor Trailer Driver, Material Men 40.96 6.5% + 19.21

As of:

Friday, January 04, 2019

Project: 2019 Sidewalk Installation

23) Driver Groundmen	26.50	6.5% + 9.00
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23a) Truck Driver	40.96	6.5% + 17.76
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---LINE CONSTRUCTION---

24) Driver Groundmen	30.92	6.5% + 9.70
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25) Groundmen	22.67	6.5% + 6.20
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26) Heavy Equipment Operators	37.10	6.5% + 10.70
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27) Linemen, Cable Splicers, Dynamite Men	41.22	6.5% + 12.20
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As of:

Friday, January 04, 2019

Project: 2019 Sidewalk Installation

28) Material Men, Tractor Trailer Drivers, Equipment Operators

35.04 6.5% + 10.45

Project: 2019 Sidewalk Installation

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 \$4.00 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.

As of:

Friday, January 04, 2019

Project: 2019 Sidewalk Installation

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)

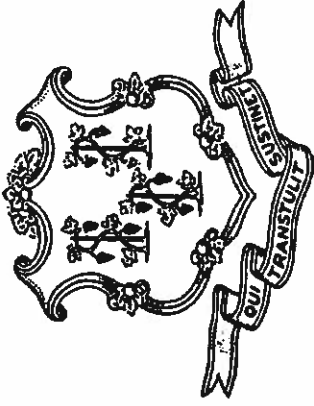
Reporting and payment of wages is required regardless of any contractual relationship alleged to exist between the contractor and such person.

~~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:

Friday, January 04, 2019



THIS IS A PUBLIC WORKS PROJECT

Covered by the

PREVAILING WAGE LAW

CT General Statutes Section 31-53

If you have QUESTIONS regarding your wages

CALL (860) 263-6790

Section 31-55 of the CT State Statutes requires every contractor or subcontractor performing work for the state to post in a prominent place the prevailing wages as determined by the Labor Commissioner.

Sec. 31-53b. Construction safety and health course. New miner training program. Proof of completion required for mechanics, laborers and workers on public works projects. Enforcement. Regulations. Exceptions. (a) Each contract for a public works project entered into on or after July 1, 2009, by the state or any of its agents, or by any political subdivision of the state or any of its agents, described in subsection (g) of section 31-53, shall contain a provision requiring that each contractor furnish proof with the weekly certified payroll form for the first week each employee begins work on such project that any person performing the work of a mechanic, laborer or worker pursuant to the classifications of labor under section 31-53 on such public works project, pursuant to such contract, has completed a course of at least ten hours in duration in construction safety and health approved by the federal Occupational Safety and Health Administration or, has completed a new miner training program approved by the Federal Mine Safety and Health Administration in accordance with 30 CFR 48 or, in the case of telecommunications employees, has completed at least ten hours of training in accordance with 29 CFR 1910.268.

(b) Any person required to complete a course or program under subsection (a) of this section who has not completed the course or program shall be subject to removal from the worksite if the person does not provide documentation of having completed such course or program by the fifteenth day after the date the person is found to be in noncompliance. The Labor Commissioner or said commissioner's designee shall enforce this section.

(c) Not later than January 1, 2009, the Labor Commissioner shall adopt regulations, in accordance with the provisions of chapter 54, to implement the provisions of subsections (a) and (b) of this section. Such regulations shall require that the ten-hour construction safety and health courses required under subsection (a) of this section be conducted in accordance with federal Occupational Safety and Health Administration Training Institute standards, or in accordance with Federal Mine Safety and Health Administration Standards or in accordance with 29 CFR 1910.268, as appropriate. The Labor Commissioner shall accept as sufficient proof of compliance with the provisions of subsection (a) or (b) of this section a student course completion card issued by the federal Occupational Safety and Health Administration Training Institute, or such other proof of compliance said commissioner deems appropriate, dated no earlier than five years before the commencement date of such public works project.

(d) This section shall not apply to employees of public service companies, as defined in section 16-1, or drivers of commercial motor vehicles driving the vehicle on the public works project and delivering or picking up cargo from public works projects provided they perform no labor relating to the project other than the loading and unloading of their cargo.

(P.A. 06-175, S. 1; P.A. 08-83, S. 1.)

History: P.A. 08-83 amended Subsec. (a) by making provisions applicable to public works project contracts entered into on or after July 1, 2009, replacing provision re total cost of work with reference to Sec. 31-53(g), requiring proof in certified payroll form that new mechanic, laborer or worker has completed a 10-hour or more construction safety course and adding provision re new miner training program, amended Subsec. (b) by substituting "person" for "employee" and adding "or program", amended Subsec. (c) by adding "or in accordance with Federal Mine Safety and Health Administration Standards" and setting new deadline of January 1, 2009, deleted former Subsec. (d) re "public building", added new Subsec. (d) re exemptions for public service company employees and delivery drivers who perform no labor other than delivery and made conforming and technical changes, effective January 1, 2009.

Informational Bulletin

THE 10-HOUR OSHA CONSTRUCTION SAFETY AND HEALTH COURSE

(applicable to public building contracts entered into *on or after July 1, 2007*, where the total cost of all work to be performed is at least \$100,000)

- (1) This requirement was created by Public Act No. 06-175, which is codified in Section 31-53b of the Connecticut General Statutes (pertaining to the prevailing wage statutes);
- (2) The course is required for public building construction contracts (projects funded in whole or in part by the state or any political subdivision of the state) entered into on or after July 1, 2007;
- (3) It is required of private employees (not state or municipal employees) and apprentices who perform manual labor for a general contractor or subcontractor on a public building project where the total cost of all work to be performed is at least \$100,000;
- (4) The ten-hour construction course pertains to the ten-hour Outreach Course conducted in accordance with federal OSHA Training Institute standards, and, for telecommunications workers, a ten-hour training course conducted in accordance with federal OSHA standard, 29 CFR 1910.268;
- (5) The internet website for the federal OSHA Training Institute is http://www.osha.gov/fso/ote/training/edcenters/fact_sheet.html;
- (6) The statutory language leaves it to the contractor and its employees to determine who pays for the cost of the ten-hour Outreach Course;
- (7) Within 30 days of receiving a contract award, a general contractor must furnish proof to the Labor Commissioner that all employees and apprentices performing manual labor on the project will have completed such a course;
- (8) Proof of completion may be demonstrated through either: (a) the presentation of a *bona fide* student course completion card issued by the federal OSHA Training Institute; *or* (2) the presentation of documentation provided to an employee by a trainer certified by the Institute pending the actual issuance of the completion card;
- (9) Any card with an issuance date more than 5 years prior to the commencement date of the construction project shall not constitute proof of compliance;

- (10) Each employer shall affix a copy of the construction safety course completion card to the certified payroll submitted to the contracting agency in accordance with Conn. Gen. Stat. § 31-53(f) on which such employee's name first appears;
- (11) Any employee found to be in non-compliance shall be subject to removal from the worksite if such employee does not provide satisfactory proof of course completion to the Labor Commissioner by the fifteenth day after the date the employee is determined to be in noncompliance;
- (12) Any such employee who is determined to be in noncompliance may continue to work on a public building construction project for a maximum of fourteen consecutive calendar days while bringing his or her status into compliance;
- (13) The Labor Commissioner may make complaint to the prosecuting authorities regarding any employer or agent of the employer, or officer or agent of the corporation who files a false certified payroll with respect to the status of an employee who is performing manual labor on a public building construction project;
- (14) The statute provides the minimum standards required for the completion of a safety course by manual laborers on public construction contracts; any contractor can exceed these minimum requirements; and
- (15) Regulations clarifying the statute are currently in the regulatory process, and shall be posted on the CTDOL website as soon as they are adopted in final form.
- (16) Any questions regarding this statute may be directed to the Wage and Workplace Standards Division of the Connecticut Labor Department via the internet website of <http://www.ctdol.state.ct.us/wgwkstnd/wgemenu.htm>; or by telephone at (860)263-6790.

THE ABOVE INFORMATION IS PROVIDED EXCLUSIVELY AS AN EDUCATIONAL RESOURCE, AND IS NOT INTENDED AS A SUBSTITUTE FOR LEGAL INTERPRETATIONS WHICH MAY ULTIMATELY ARISE CONCERNING THE CONSTRUCTION OF THE STATUTE OR THE REGULATIONS.

November 29, 2006

Notice
To All Mason Contractors and Interested Parties
Regarding Construction Pursuant to Section 31-53 of the
Connecticut General Statutes (Prevailing Wage)

The Connecticut Labor Department Wage and Workplace Standards Division is empowered to enforce the prevailing wage rates on projects covered by the above referenced statute.

Over the past few years the Division has withheld enforcement of the rate in effect for workers who operate a forklift on a prevailing wage rate project due to a potential jurisdictional dispute.

The rate listed in the schedules and in our Occupational Bulletin (see enclosed) has been as follows:

Forklift Operator:

- **Laborers (Group 4) Mason Tenders** - operates forklift solely to assist a mason to a maximum height of nine feet only.
- **Power Equipment Operator (Group 9)** - operates forklift to assist any trade and to assist a mason to a height over nine feet.

The U.S. Labor Department conducted a survey of rates in Connecticut but it has not been published and the rate in effect remains as outlined in the above Occupational Bulletin.

Since this is a classification matter and not one of jurisdiction, effective January 1, 2007 the Connecticut Labor Department will enforce the rate on each schedule in accordance with our statutory authority.

Your cooperation in filing appropriate and accurate certified payrolls is appreciated.

STATUTE 31-55a

- SPECIAL NOTICE -

To: All State and Political Subdivisions, Their Agents, and Contractors

Connecticut General Statute 31-55a - Annual adjustments to wage rates by contractors doing state work.

Each contractor that is awarded a contract on or after October 1, 2002, for (1) the construction of a state highway or bridge that falls under the provisions of section 31-54 of the general statutes, or (2) the construction, remodeling, refinishing, refurbishing, rehabilitation, alteration or repair of any public works project that falls under the provisions of section 31-53 of the general statutes shall contact the Labor Commissioner on or before July first of each year, for the duration of such contract, to ascertain the prevailing rate of wages on an hourly basis and the amount of payment or contributions paid or payable on behalf of each mechanic, laborer or worker employed upon the work contracted to be done, and shall make any necessary adjustments to such prevailing rate of wages and such payment or contributions paid or payable on behalf of each such employee, effective each July first.

- The prevailing wage rates applicable to any contract or subcontract awarded on or after October 1, 2002 are subject to annual adjustments each July 1st for the duration of any project which was originally advertised for bids on or after October 1, 2002.
- Each contractor affected by the above requirement 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 Web Site. The annual adjustments will be posted on the Department of Labor Web page: www.ctdol.state.ct.us. For those without internet access, please contact the division listed below.
- 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.

Any questions should be directed to the Contract Compliance Unit, Wage and Workplace Standards Division, Connecticut Department of Labor, 200 Folly Brook Blvd., Wethersfield, CT 06109 at (860)263-6790.

Information Bulletin ***Occupational Classifications***

The Connecticut Department of Labor has the responsibility to properly determine "job classification" on prevailing wage projects covered under C.G.S. Section 31-53(d).

Note: This information is intended to provide a sample of some occupational classifications for guidance purposes only. It is not an all-inclusive list of each occupation's duties. This list is being provided only to highlight some areas where a contractor may be unclear regarding the proper classification. If unsure, the employer should seek guidelines for CTDOL.

Below are additional clarifications of specific job duties performed for certain classifications:

- **ASBESTOS WORKERS**

Applies all insulating materials, protective coverings, coatings and finishes to all types of mechanical systems.

- **ASBESTOS INSULATOR**

Handle, install apply, fabricate, distribute, prepare, alter, repair, dismantle, heat and frost insulation, including penetration and fire stopping work on all penetration fire stop systems.

- **BOILERMAKERS**

Erects hydro plants, incomplete vessels, steel stacks, storage tanks for water, fuel, etc. Builds incomplete boilers, repairs heat exchanges and steam generators.

- **BRICKLAYERS, CEMENT MASONS, CEMENT FINISHERS, MARBLE MASONS, PLASTERERS, STONE MASONS, PLASTERERS. STONE MASONS, TERRAZZO WORKERS, TILE SETTERS**

Lays building materials such as brick, structural tile and concrete cinder, glass, gypsum, terra cotta block. Cuts, tools and sets marble, sets stone, finishes concrete, applies decorative steel, aluminum and plastic tile, applies cements, sand, pigment and marble chips to floors, stairways, etc.

- **CARPENTERS, MILLWRIGHTS, PILEDRIVERMEN, LATHERS, RESILIENT FLOOR LAYERS, DOCK BUILDERS, DIKERS, DIVER TENDERS**

Constructs, erects, installs and repairs structures and fixtures of wood, plywood and wallboard. Installs, assembles, dismantles, moves industrial machinery. Drives piling into ground to provide foundations for structures such as buildings and bridges, retaining walls for earth embankments, such as cofferdams. Fastens wooden, metal or rockboard lath to walls, ceilings and partitions of buildings, acoustical tile layer, concrete form builder. Applies firestopping materials on fire resistive joint systems only. Installation of curtain/window walls only where attached to wood or metal studs. Installation of insulated material of all types whether blown, nailed or attached in other ways to walls, ceilings and floors of buildings. Assembly and installation of modular furniture/furniture systems. Free-standing furniture is not covered. This includes free standing: student chairs, study top desks, book box desks, computer furniture, dictionary stand, atlas stand, wood shelving, two-position information access station, file cabinets, storage cabinets, tables, etc.

- **LABORER, CLEANING**

- The clean up of any construction debris and the general (heavy/light) cleaning, including sweeping, wash down, mopping, wiping of the construction facility and its furniture, washing, polishing, and dusting.

- **DELIVERY PERSONNEL**

- If delivery of supplies/building materials is to one common point and stockpiled there, prevailing wages are not required. If the delivery personnel are involved in the distribution of the material to multiple locations within the construction site then they would have to be paid prevailing wages for the type of work performed: laborer, equipment operator, electrician, ironworker, plumber, etc.

- An example of this would be where delivery of drywall is made to a building and the delivery personnel distribute the drywall from one "stockpile" location to further sub-locations on each floor. Distribution of material around a construction site is the job of a laborer or tradesman, and not a delivery personnel.

- **ELECTRICIANS**

Install, erect, maintenance, alteration or repair of any wire, cable, conduit, etc., which generates, transforms, transmits or uses electrical energy for light, heat, power or other purposes, including the installation or maintenance of telecommunication, LAN wiring or computer equipment, and low voltage wiring. ****License required per Connecticut General Statutes: E-1,2 L-5,6 C-5,6 T-1,2 L-1,2 V-1,2,7,8,9.***

- **ELEVATOR CONSTRUCTORS**

Install, erect, maintenance and repair of all types of elevators, escalators, dumb waiters and moving walks. **License required by Connecticut General Statutes: R-1,2,5,6.*

- **FORK LIFT OPERATOR**

Laborers Group 4) Mason Tenders - operates forklift solely to assist a mason to a maximum height of nine (9) feet only.

Power Equipment Operator Group 9 - operates forklift to assist any trade, and to assist a mason to a height over nine (9) feet.

- **GLAZIERS**

Glazing wood and metal sash, doors, partitions, and 2 story aluminum storefronts. Installs glass windows, skylights, store fronts and display cases or surfaces such as building fronts, interior walls, ceilings and table tops and metal store fronts. Installation of aluminum window walls and curtain walls is the "joint" work of glaziers and ironworkers, which require equal composite workforce.

- **IRONWORKERS**

Erection, installation and placement of structural steel, precast concrete, miscellaneous iron, ornamental iron, metal curtain wall, rigging and reinforcing steel. Handling, sorting, and installation of reinforcing steel (rebar). Metal bridge rail (traffic), metal bridge handrail, and decorative security fence installation. Installation of aluminum window walls and curtain walls is the "joint" work of glaziers and ironworkers which require equal composite workforce.

- **INSULATOR**

- Installing fire stopping systems/materials for "Penetration Firestop Systems": transit to cables, electrical conduits, insulated pipes, sprinkler pipe penetrations, ductwork behind radiation, electrical cable trays, fire rated pipe penetrations, natural polypropylene, HVAC ducts, plumbing bare metal, telephone and communication wires, and boiler room ceilings.

- **LABORERS**

Acetylene burners, asphalt rakers, chain saw operators, concrete and power buggy operator, concrete saw operator, fence and guard rail erector (except metal bridge rail (traffic), decorative security fence (non-metal)).

installation.), hand operated concrete vibrator operator, mason tenders, pipelayers (installation of storm drainage or sewage lines on the street only), pneumatic drill operator, pneumatic gas and electric drill operator, powermen and wagon drill operator, air track operator, block paver, curb setters, blasters, concrete spreaders.

- **PAINTERS**

Maintenance, preparation, cleaning, blasting (water and sand, etc.), painting or application of any protective coatings of every description on all bridges and appurtenances of highways, roadways, and railroads. Painting, decorating, hardwood finishing, paper hanging, sign writing, scenic art work and drywall hhg for any and all types of building and residential work.

- **LEAD PAINT REMOVAL**

- Painter's Rate

1. Removal of lead paint from bridges.
2. Removal of lead paint as preparation of any surface to be repainted.
3. Where removal is on a Demolition project prior to reconstruction.

- Laborer's Rate

1. Removal of lead paint from any surface NOT to be repainted.
2. Where removal is on a *TOTAL* Demolition project only.

- **PLUMBERS AND PIPEFITTERS**

Installation, repair, replacement, alteration or maintenance of all plumbing, heating, cooling and piping. **License required per Connecticut General Statutes: P-1,2,6,7,8,9 J-1,2,3,4 SP-1,2 S-1,2,3,4,5,6,7,8 B-1,2,3,4 D-1,2,3,4.*

- **POWER EQUIPMENT OPERATORS**

Operates several types of power construction equipment such as compressors, pumps, hoists, derricks, cranes, shovels, tractors, scrapers or motor graders, etc. Repairs and maintains equipment. **License required, crane operators only, per Connecticut General Statutes.*

- **ROOFERS**

Covers roofs with composition shingles or sheets, wood shingles, slate or asphalt and gravel to waterproof roofs, including preparation of surface. (demolition or removal of any type of roofing and or clean-up of any and all areas where a roof is to be relaid.)

- **SHEETMETAL WORKERS**

Fabricate, assembles, installs and repairs sheetmetal products and equipment in such areas as ventilation, air-conditioning, warm air heating, restaurant equipment, architectural sheet metal work, sheetmetal roofing, and aluminum gutters. Fabrication, handling, assembling, erecting, altering, repairing, etc. of coated metal material panels and composite metal material panels when used on building exteriors and interiors as soffits, fascia, louvers, partitions, canopies, cornice, column covers, awnings, beam covers, cladding, sun shades, lighting troughs, spires, ornamental roofing, metal ceilings, mansards, copings, ornamental and ventilation hoods, vertical and horizontal siding panels, trim, etc. The sheet metal classification also applies to the vast variety of coated metal material panels and composite metal material panels that have evolved over the years as an alternative to conventional ferrous and non-ferrous metals like steel, iron, tin, copper, brass, bronze, aluminum, etc. Fabrication, handling, assembling, erecting, altering, repairing, etc. of architectural metal roof, standing seam roof, composite metal roof, metal and composite bathroom/toilet partitions, aluminum gutters, metal and composite lockers and shelving, kitchen equipment, and walk-in coolers. To include testing and air –balancing ancillary to installation and construction.

- **SPRINKLER FITTERS**

Installation, alteration, maintenance and repair of fire protection sprinkler systems.

**License required per Connecticut General Statutes: F-1,2,3,4.*

- **TILE MARBLE AND TERRAZZO FINISHERS**

Assists and tends the tile setter, marble mason and terrazzo worker in the performance of their duties.

- **TRUCK DRIVERS**

~How to pay truck drivers delivering asphalt is under REVISION~

Truck Drivers are requires to be paid prevailing wage for time spent "working" directly on the site. These drivers remain covered by the prevailing wage for any time spent transporting between the actual construction location and facilities (such as fabrication, plants, mobile factories, batch plant, borrow pits, job headquarters, tool yards, etc.) dedicated exclusively, or nearly so, to performance of the contract or project, which are so located in proximity to the actual construction location that it is reasonable to include them. **License required, drivers only, per Connecticut General Statutes.*

For example:

- Material men and deliverymen are not covered under prevailing wage as long as they are not directly involved in the construction process. If, they unload the material, they would then be covered by prevailing wage for the classification they are performing work in: laborer, equipment operator, etc.
- Hauling material off site is not covered provided they are not dumping it at a location outlined above.
- Driving a truck on site and moving equipment or materials on site would be considered covered work, as this is part of the construction process.

➤ *Any questions regarding the proper classification should be directed to:*
Public Contract Compliance Unit
Wage and Workplace Standards Division
Connecticut Department of Labor
200 Folly Brook Blvd, Wethersfield, CT 06109
(860) 263-6543.

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

- ⇒ Please Note: If the “Benefits” listed on the schedule for the following occupations includes a letter(s) (+ a or + a+b for instance), refer to the information below.

Benefits to be paid at the appropriate prevailing wage rate for the listed occupation.

If the “Benefits” section for the occupation lists only a dollar amount, disregard the information below.

Bricklayers, Cement Masons, Cement Finishers, Concrete Finishers, Stone Masons
(Building Construction) and
(Residential- Hartford, Middlesex, New Haven, New London and Tolland Counties)

- a. Paid Holiday: Employees shall receive 4 hours for Christmas Eve holiday provided the employee works the regularly scheduled day before and after the holiday. Employers may schedule work on Christmas Eve and employees shall receive pay for actual hours worked in addition to holiday pay.

Elevator Constructors: Mechanics

- a. Paid Holidays: New Year’s Day, Memorial Day, Independence Day, Labor Day, Veterans’ Day, Thanksgiving Day, Christmas Day, plus the Friday after Thanksgiving.
- b. Vacation: Employer contributes 8% of basic hourly rate for 5 years or more of service or 6% of basic hourly rate for 6 months to 5 years of service as vacation pay credit.

Glaziers

- a. Paid Holidays: Labor Day and Christmas Day.

Power Equipment Operators
(Heavy and Highway Construction & Building Construction)

- a. Paid Holidays: New Year’s Day, Good Friday, Memorial day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day, provided the employee works 3 days during the week in which the holiday falls, if scheduled, and if scheduled, the working day before and the working day after the holiday. Holidays falling on Saturday may be observed on Saturday, or if the employer so elects, on the preceding Friday.

Ironworkers

- a. Paid Holiday: Labor Day provided employee has been on the payroll for the 5 consecutive work days prior to Labor Day.

Laborers (Tunnel Construction)

- a. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day. No employee shall be eligible for holiday pay when he fails, without cause, to work the regular work day preceding the holiday or the regular work day following the holiday.

Roofers

- a. Paid Holidays: July 4th, Labor Day, and Christmas Day provided the employee is employed 15 days prior to the holiday.

Sprinkler Fitters

- a. Paid Holidays: Memorial Day, July 4th, Labor Day, Thanksgiving Day and Christmas Day, provided the employee has been in the employment of a contractor 20 working days prior to any such paid holiday.

Truck Drivers

(Heavy and Highway Construction & Building Construction)

- a. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Christmas day, and Good Friday, provided the employee has at least 31 calendar days of service and works the last scheduled day before and the first scheduled day after the holiday, unless excused.

4.01 Contract

TOWN OF WEST HARTFORD STANDARD CONTRACT FOR PUBLIC WORKS

CONSTRUCTION OF: **2019 MISCELLANEOUS SIDEWALK REPAIR BID# 6677F**

made as of the _____ day of _____ in the year
of Two Thousand and Sixteen.

BETWEEN the Owner: Town of West Hartford (Town)
 50 South Main Street
 West Hartford, CT 06107

and the Contractor:

The Town and the Contractor agree as set forth below.

ARTICLE 1
THE CONTRACT DOCUMENTS

The Contract Documents consist of this Contract, those documents enumerated in the Table of Contents, and any drawings referred to therein, and all Addenda issued prior to and all Modifications issued after the execution of this Contract. An enumeration of the Contract Documents appears in Article 8.

ARTICLE 2
THE WORK

The Contractor shall perform all the Work required by the Contract Documents for **2019 MISCELLANEOUS SIDEWALK REPAIR**, reference Bid no. **6677F**

ARTICLE 3
TIME OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

The Town and the Contractor shall mutually agree to written schedule(s) pursuant to Section 2.01.08 of the Invitation to Bid, Section 5.13 of the General Conditions and Section 6.13 of the General Specifications pertaining to schedules and liquidated damages for failure to comply with such schedules establishing respective dates for the start and completion of various parts of the work. Each schedule shall be subject to review and may change from time to time as required during the progress of the work.

ARTICLE 4
CONTRACT SUM

The Town shall pay the Contractor in current funds for the performance of the Work, subject to additions and deductions by Change Order as provided in the Contract Documents, the Contract Sum of _____ \$

The Contract Sum is determined as follows:

(State here the base bid or other lump sum amount, accepted alternates and unit prices as applicable)

ARTICLE 5
PROGRESS PAYMENTS

Based upon Applications for Payments submitted to the Engineer by the Contractor covering the prior calendar month, the Town shall make progress payments to the Contractor as provided in the Contract Bidding Documents, on account of the Contract Sum, in the following manner:

Not later than the tenth day of each month, the Contractor shall submit an Application for Payment to the Town. Otherwise valid Applications for Payment submitted after the tenth day of any month shall be paid together with the next timely-filed Application for Payment. In accordance with General Statutes 49-41b., ninety five percent (95%) of the amount of all labor, materials and equipment incorporated into the Work, and ninety five percent (95%) of the amount of all materials and equipment suitable stored at the site or at some other location agreed upon in writing shall be paid to the Contractor, subject to a reduction in amount for any payments previously made to the Contractor by the Town. Timely submitted Applications for Payment shall be paid on the first Friday following the fifteenth day of the month in which the Application is received by the Town.

The remaining five percent (5%) of the value of all labor, materials and equipment incorporated into the Work, or suitably stored at the site or at some other suitable agreeable location, (the retainage) shall be retained by the Town as security until the warranty period specified in the Contract Bidding Documents is completed. Any portion of

the retainage may be released to the Contractor prior to the completion of the warranty period if, in the sole discretion of the Town Engineer, such release is appropriate.

ARTICLE 6
FINAL PAYMENT

Final payment, constituting the entire unpaid balance of the Contract Sum, shall be paid by the Owner to the Contractor when the work has been completed and the Contract fully performed.

ARTICLE 7
WARRANTY

In recognition of the need to determine that the work performed hereunder has been performed in such a manner which will permit the project to function correctly in all seasons, the Contractor warrants to the Town that for fifteen months from the date of completion, the work shall be free from defects not inherent in the quality required or permitted. All materials and equipment furnished under the Contract will conform to the requirements of the Contract Bidding Documents, be of good quality and new unless otherwise required or specified by the Contract Bidding Documents. Any work, materials and/or equipment which fails during the warranty period shall be repaired or replaced at the expense of the Contractor, unless such failure was caused by abuse beyond the control of the Contractor.

ARTICLE 8
MISCELLANEOUS PROVISIONS

Terms used in this Contract which are defined in the Conditions of the Contract shall have the same meanings designated in those Conditions.

The Contract Documents, which constitute the entire agreement between the Owner and the Contractor, are listed in Article 1 and except for Modifications, change orders or work directives issued after execution of this Contract, are enumerated as follows: Introductory Information, Information For Bidders, Labor Requirements, General Conditions, General Specifications, Technical Specifications, Exhibits A and B and the bid of **2019 MISCELLANEOUS SIDEWALK REPAIR BID# 6677F**

This Contract entered into as of the day and year first written above.

OWNER

CONTRACTOR

Town of West Hartford

Peter Privitera, Purchasing Agent

5.00 GENERAL CONDITIONS

- 5.01 Town of West Hartford Rules & Specifications, etc.
- 5.02 Payments
- 5.03 State of Connecticut Standard Specifications
- 5.04 Utilities
- 5.05 Obligations of Contractor
- 5.06 Duties and Responsibilities of the Engineer
- 5.07 Assignment
- 5.08 Liability - Indemnity
- 5.09 Blasting Requirements
- 5.10 Avoidance of Abandonment
- 5.11 Delay of Work by Town and Work by Others
- 5.12 Defective Work
- 5.13 Time
- 5.14 Damages to be Paid Town; and Extension of Time
- 5.15 Quantities
- 5.16 Prices
- 5.17 Alterations and Additional Work
- 5.18 Additional Payments
- 5.19 Partial Estimates and Payments
- 5.20 Final Estimate
- 5.21 Withholding Payment
- 5.22 Waiver
- 5.23 Connecticut Occupational Safety and Health Act
- 5.24 Provisions Required by Law Deemed Inserted
- 5.25 Termination or Suspension of the Contract

5.01 TOWN OF WEST HARTFORD INFRASTRUCTURE RULES & SPECIFICATIONS All work, materials and services will be performed and furnished in accordance with requirements described in Section 5.03 below and as supplemented by a separate pamphlet issued by the Town of West Hartford entitled, "Town of West Hartford, Rules and Specifications Regulating Curb and Walk Layers, Street Excavation, Street Construction and Sewer Installation 1995", as amended from time to time, plus the following additional provisions:

5.02 PAYMENTS Monthly payments up to 95% of the value of work to date will be made as described in Article 5 of the Standard Contract For Public Works.

After completion of all construction, except permanent repair of pavements, which it is not feasible to repair at that time, and any other work specifically exempted for the particular Contract, and except for maintenance of sewer, backfilled trenches, pavements, etc., as provided in Specifications, a final estimate will be prepared by the Engineer. From the total sum or sums due or to become due the Contractor, as computed in that final estimate, all deductions, withholdings or retainages provided elsewhere will be deducted including any sum or sums held to secure performance of work or delivery of material not yet completed, or to secure claims for which the Town may become liable.

The Town will retain 5% of the total of the Contract as computed in final estimates, as above, to secure the performance of all maintenance as required by Contract and Specifications. However, upon application by the Contractor and with permission of Surety, the Town may at any time retain less than 5% if it deems it advisable to do so. The sum or sums thus retained by the Town to secure performance of provisions will be paid after the period has expired and after all requirements of the and other provisions of the Contract and Specifications have been fully satisfied.

5.03 STATE OF CONNECTICUT STANDARD SPECIFICATIONS The following specifications will apply:

"State of Connecticut Department of Transportation Standard Specifications for Roads, Bridges and Incidental Construction Form 816" as amended and as supplemented by the Town of West Hartford Infrastructure Rules & Specifications.

When installing sewers in any one street or right-of-way, the main sewer and laterals shall be completed, leakage-tested, inspected, cleaned, and defects corrected where necessary, ready for use, and the backfilling, puddling, paving repair and cleanup work shall be done before work is started on any other street or section, unless otherwise approved by the Engineer.

5.04 UTILITIES

Protection of Other Utilities and Property Near Line of Sewer is amplified for this Project by the following:

The Contractor shall be responsible to make certain of the exact location of the mains, ducts, poles and services prior to excavation.

The utility mains, ducts, poles and services in the construction area where shown on the Project plans are at the approximate locations furnished by various utilities concerned. These locations are subject to possible errors in the source of the information and also errors in transcription.

Sections 16-345 thru 16-356 Connecticut General Statutes as amended makes it mandatory to notify utilities before digging with power equipment. The Contractor shall call 1-800-922-4455 (toll free), 7:00 a.m. to 6:00 p.m., Monday through Friday, at least forty-eight hours prior to beginning the excavation. This "one-call" service is provided by the utility companies.

Once the call is made, it is the Utilities' responsibility to analyze the site and identify and mark their underground facilities.

The following more commonly used utility numbers are listed for the Contractor's convenience in case additional specific information is needed:

Comcast of Connecticut, Inc. d/b/a Comcast/Hartford
Telephone 617-279-7485

Fiber Technologies Networks, LLC
Telephone 585-697-5107

Level 3 Communications, LLC
Telephone 720-888-6461

Frontier
Telephone 866-207-6358

Eversource
Telephone 860-665-2473

Connecticut Natural Gas Corporation
Telephone 860-727-3114

Tennessee Gas Pipeline Company
Telephone 860-763-6028

The Metropolitan District Commission (Water & Sanitary Sewer)
Telephone 860-278-7850 Ext. 3443

Town of West Hartford (Storm Sewers)
Telephone 860-561-8000

- 5.05 OBLIGATIONS OF CONTRACTOR The Contractor shall, at his own expense, do and perform all the work and furnish all services, tools, equipment, appliances, materials, plant labor and all that is necessary or proper for performing and completing the work described herein in the manner and within the time specified. All work to be performed and all materials to be furnished under this contract shall be performed, furnished and complete pursuant to and strictly in conformance with the Information for Bidders, the Project Drawings, sometimes referred to herein as the "plans", and the Contract Bidding Documents for this work, all of which are made a part hereof as if fully set forth herein.
- 5.05.01 The Contractor shall coordinate his operations with those of any other Contractors who may, under permit by the Town be working with properties controlled by the Municipality, shall avoid interference therewith, and shall cooperate in the arrangements for storage of materials.
- 5.05.02 The Contractor shall conduct his work so as to interfere as little as possible with private business and public travel. Wherever necessary or required, and at his own expense, (except as provided herein in the General Specifications Section 6.08.2 in regard to traffic officers), he shall maintain fences, furnish watchmen, maintain lights and take such other precautions as may be necessary to protect life and property.
- 5.05.03 The Contractor shall take all responsibility for the work done under this Contract for the protection of the work and for preventing injuries to persons and damage to property and utilities on or about the work. He shall in no way be relieved of his responsibility by any right of the Engineer to give permission or issue orders relating to any part of the work, by any such permission given or orders issued, or by failure of the Engineer to give such permission or issue such orders. The Contractor shall bear all losses resulting to him or to the Town on account of the quantity or character of the work, because the nature of the land in or on which the work is done is different from what was estimated, or expected, or on account of the weather, elements or other causes.
- 5.05.04 The Contractor shall conduct his operations so as not to damage existing structures or work installed either by him or by other contractors. In case of any such damage resulting from his own operations, he shall repair and make good the damaged portions at his own expense with the consent of the damaged party. In the event that consent is not given, the Contractor shall not be relieved thereby of liability for the damage caused.
- 5.05.05 The Contractor shall employ only competent employees to do the work, and, whenever the Engineer notifies the Contractor in writing that in his opinion any employee on the work is incompetent, unfaithful, disorderly or otherwise unsatisfactory, or not employed in accordance with the provisions of this Contract, such employee shall be discharged from the work and shall not again be employed on it except with the consent of the Engineer.

- 5.05.06 If, in the opinion of the Engineer, the Contractor is not employing sufficient labor or equipment to complete the work described herein within the time specified, said Engineer may, after giving written notice, require said Contractor to employ such additional labor and equipment as may be necessary to enable said work to progress properly.
- 5.05.07 The Contractor shall not sell and shall neither permit nor suffer the introduction or use of substances which may impair an employee's ability to perform upon or about the work under this Project.
- 5.05.08 The Contractor shall keep himself fully informed of all state and national laws and municipal ordinances and regulations in any manner affecting those engaged or employed in the work, the materials used in the work or the conduct of the work, and of all such orders and decrees of bodies or tribunals having any jurisdiction or authority over the same. If any discrepancy for inconsistency is discovered in the project, and Contract Bidding Documents for this work in relation to any such law, ordinance, regulation, order or decree, he shall forthwith report the same to the Engineer in writing.
- 5.05.09 The Contractor shall take all precautions to prevent damage to the work by adverse climatic conditions or by water entering the work site over, across, or through the ground directly. In case of damage by storm or water, the Contractor shall make such repairs or replacements or rebuild such parts of the work as the Engineer may require in order that the finished work may be completed as required by the drawings and specifications.
- 5.05.10 The Contractor shall, at his own expense, take out all necessary permits from the state, municipal or other public authorities; shall give all notices required by law or ordinances; and shall post all bonds and pay all fees and charges incident to the due and lawful prosecution of the work covered by this Contract.
- 5.05.11 The Contractor recognizes that in the course of preparing plans and specifications, that unknown underground utilities will not be shown on the plans. In the event the Contractor encounters underground utilities which are not incorporated into the Contract Bidding Documents, it shall be the Contractor's responsibility to assure the utility is left as it was discovered.
- 5.05.12 The Contractor, working with its surety, shall use all reasonable efforts to provide safe passage through the site for the public, including both pedestrians and vehicles. The cost associated with such efforts shall be borne by the Contractor.
- 5.05.13 The Contractor shall provide a telephone number through which he/she may be contacted at any time.

- 5.06 DUTIES AND RESPONSIBILITIES OF THE ENGINEER All work done under the Contract and all materials furnished shall be to the satisfaction of and in accordance with the directions of the Town Engineer. All work shall conform to the detailed plans and the lines and grades furnished by or approved by the Engineer from time to time as the work proceeds.
- 5.06.01 The Engineer shall in all cases determine the amount, quality, acceptability and fitness of the several kinds of work and materials which are to be paid for under this Contract and shall decide all questions which may arise as to the fulfillment of this Contract and on the part of the Contractor. The determination and decision of the Engineer thereon shall be final and conclusive upon said Contractor, and such determination and decision, in case any question shall arise between the parties hereto touching this Contract, shall be a condition precedent to the right of the Contractor to receive any money under this Contract.
- 5.06.02 The Engineer shall make all necessary interpretations as to the meaning and intention of the Project Drawings, Technical and Contract Bidding Documents. He shall give all orders and directions contemplated therein or thereby, and in every case in which a difficult or unforeseen condition shall arise in the performance of the work required by the Contract.
- 5.06.03 If the Contractor considers any work demanded of him to be outside the requirements of the Contract, or if he considers any decision or determination of the Engineer to be unfair, he shall immediately, upon such work being demanded or such decision or determination being made, ask in writing for a work directive issued pursuant to paragraph 5.18.04, decision or determination. Such directive, decision or determination shall be given by the Engineer in writing, within two working days after the request therefore. Upon receipt of such written instruction, decision or determination, the Contractor shall proceed without delay to perform the work or conform to the instructions, decision or determination. Within ten (10) working days after receipt of the written instructions, decision or determination, the Contractor may file a written with the Town stating clearly and in detail his objections, the reasons therefore and the nature and amount of damages which the Engineer's decision will cause him. A copy of such protest shall be filed with the Engineer at the same time as it is filed with the Division of Purchasing Services Manager. Unless the Contractor shall file such written protest within such 10-day working period, he shall be deemed to have waived all grounds for such protest and such damages and to have accepted the instruction, decision or determination of the Engineer as just and reasonable and as being within the scope of the Contractor's obligations under the Contract. On or before the 15th day of the month following performance of disputed work pursuant to this provision, the Contractor shall file with the Engineer, an itemized statement of all costs incurred in connection therewith. A response to the written protest shall be rendered by the Town within thirty calendar days of receipt of said protest.

- 5.06.04 For purposes already specified and for any other purpose, the Town, the Engineer and their agents and employees may enter upon the work and the premises used by the Contractor and the Contractor shall provide safe and proper facilities therefore.
- 5.06.05 The Engineer shall be furnished with every reasonable facility for ascertaining that the work is in accordance with the requirements and intention of the Contract, even to the extent of uncovering or taking down portions of finished work. The Engineer shall be offered a reasonable opportunity to inspect the work above and below the ground before it is covered.
- 5.06.06 If the Engineer orders work to be uncovered and should the work thus exposed or examined prove satisfactory, the uncovering or taking down and the replacement of material and rebuilding of the work shall be considered as extra work unless the original work was done in the absence of the Engineer or his inspector without his written authorization, in which case that section of the General Specifications titled, "Work to Conform" shall govern. Should the work exposed or examined prove unsatisfactory, the uncovering, taking down, replacing and making good shall be at the expense of the Contractor.
- 5.06.07 The Engineer shall make all necessary explanations as to the meaning and intention of the drawings and specifications and shall give all necessary orders and directions.
- 5.06.08 The order or sequence of execution of the work and the general conduct of the work shall be subject to the approval of the Engineer who shall have authority to direct the order or sequence where public necessity or welfare shall require, which approval or direction shall, however, in no way affect the responsibility of the Contractor in the conduct of the work.
- 5.07 ASSIGNMENT The Contractor shall not assign, transfer, convey, sublet or otherwise dispose of or part with the control of this Contract or any part thereof, without the previous consent, in writing, of the Town. He shall not assign, by power of attorney or otherwise, any of the money to become due and payable under this Contract unless by and with the like consent in writing. Any such attempted assignment or subletting shall, at the option of said Town, forthwith work an avoidance of this Contract, or may be treated by said Town as null and void. The Contractor, may with prior consent of and subject to the approval in writing of the Engineer in each separate case, employ qualified subcontractors to supply material and perform parts of the work required herein. The employment of subcontractors shall not in any way relieve the Contractor of full responsibility for the performance of all parts of the work or the obligations and liabilities related thereto.
- 5.08.1 LIABILITY/INDEMNITY To the fullest extent permitted by law, the Contractor shall release, defend, indemnify, and hold harmless the Town of West Hartford

and the West Hartford Board of Education, their respective boards, commissions, officers, officials, employees, agents, representatives, and servants from any and all suits, claims, losses, damages, costs (including without limitation reasonable attorneys' fees), compensation, penalties, fines, liabilities or judgments of any name or nature for:

- .1 Bodily injury, sickness, disease, or death; and/or
- .2 Damage to or destruction of real and/or personal property; and/or
- .3 Financial losses (including, without limitation, those caused by loss of use)

sustained by any such person or concern, including officers, employees agents, subcontractors, materialmen, or servants of the Town of West Hartford and the Board of Education, or the Contractor, or by the public, which is caused or alleged to have been caused in whole or in part by the negligent act(s) or omission(s) of the Contractor, or any Subcontractor, or materialmen, or anyone directly or indirectly employed by them arising from or related to the performance of this Contract or from the inaccuracy of any representation or warranty contained in the Contract Documents. This indemnity shall not be affected by other portions of the Contract relating to insurance requirements.

5.08.2 To the fullest extent permitted by law, the Contractor shall release, defend, indemnify, and hold harmless the Town of West Hartford and the West Hartford Board of Education and the, their respective boards and commissions, officials, officers, employees, agents, representatives, and servants from any and all suits, claims, losses, damages, costs, (including without limitation reasonable attorneys' fees), compensation, penalties, fines, liabilities or judgments that may arise out of the failure of the Contractor, its officers, agents, Subcontractors, materialmen or anyone directly or indirectly employed by them to comply with any laws, statutes, ordinances, building codes, and rules and regulations of the United States of America, the State of Connecticut, the Town of West Hartford, or their respective agencies. This undertaking shall not be affected by other portions of the contract relating to insurance requirements.

5.08.3 Environmental Indemnification

To the fullest extent permitted by law, the Contractor agrees to defend, indemnify and hold harmless the Town of West Hartford, the West Hartford Board of Education, their respective boards and commissions, officers, agents, officials, employees, servants, volunteers, contractors and representatives from any and all suits, claims, losses, damages, costs (including, without limitation, reasonable attorney's fees), compensations, penalties, fines, liabilities or judgments, on account of or in connection with any death of person or injury, loss or damage to

any person, property, or to the environment, arising out of the activity of the type contemplated by this Agreement, whether or not said activity complies strictly with the requirements of this Agreement and arises out of or in connection with;

1. the violation or breach, by any employee or person acting on behalf of the Contractor of any federal, state, or local environmental statute, rule, regulation, ordinance, or other law or any provision or requirement of the Agreement dealing with hazardous substances or protection of the environment; or
2. the release or discharge, onto any public or private property, of any hazardous substances, regardless of the source of such hazardous substances, by any employee or person acting on behalf of the Contractor while present on, within, or in the vicinity of Town owned property; or
3. the subsequent storage, processing or other handling of such hazardous substances by any person or entity after they have been removed by the Contractor or persons acting on the Contractor's behalf from Town owned property.

This indemnification shall not be affected by the limits of the Contractor's insurance coverage.

5.09 BLASTING REQUIREMENTS Prior to blasting by the Contractor, necessary approvals and insurance and documents specified by the Fire Marshall shall be obtained and filed with the Fire Marshall. Seismograph readings may be required by the Fire Marshall. Any expenses related to blasting, etc., shall be included in the fixed or unit price for rock removal. No additional claim for compensation shall be considered.

5.10 AVOIDANCE OR ABANDONMENT If the work to be done under the Contract shall be abandoned or suspended for any period of time without reasonable cause, and/or if the Contract, or any part thereof, shall be sublet or assigned without the previous written consent of the Town, or if at any time the Engineer shall be of opinion that the conditions herein specified as to the rate of progress are not fulfilled, or that the work or any part thereof is unnecessarily or unreasonably delayed, or that the Contractor has willfully violated or is willfully violating any of the provisions of the Contract, the Town may notify the Contractor to discontinue all work or any part thereof under the Contract, by a written notice to be served upon the Contractor or upon his duly appointed agent. Thereupon the Contractor shall discontinue such work, or such part thereof as the Town may designate, and the Town may thereupon, by separate contract or otherwise as it may determine, take such steps as the Engineer may deem necessary to protect completed portions of the work, or to protect persons or the property of others, or to continue and complete the work or such part thereof, and charge the entire expense of such protection or completion of the work, or part thereof, to the Contractor.

All expenses charged under this article shall be deducted and paid by the Town out of any moneys then due or to become due the Contractor under the Contract, or any part thereof, as if the same had been completed by him; and in such accounting the Town shall not be held to obtain the lowest figures for the work of completing the Contract, or any part thereof, or for insuring its proper completion, but all sums actually paid therefore shall be charged to the Contractor. In case the expenses so charged shall exceed the unpaid balance of the sum which would have been payable under this Contract, if the same had been completed by the Contractor, the Contractor shall pay the amount of the excess to the Town.

5.11 DELAY OF WORK Delay of work by Town, and work by others when any particular part of the work is being carried on by the Town, by other contractors to the Town or otherwise, under the provisions of this article, the Contractor shall continue the remainder of the work in conformity with the terms of the Contract and in such manner as in no way to hinder or interfere with the persons or workmen employed, as above provided, by the Town, by other contractors or otherwise. Neither notice to the Contractor to discontinue work on any part of the Contract, nor the discontinuance thereof by the Contractor, nor the failure of the Engineer to take steps as permitted above for protection of the work or persons or the property of others shall in any way diminish the liability of the Contractor to indemnify and save harmless the Town or others named therewith, as provided hereinbefore, unless and until the Town shall have contracted with other parties to complete the work or part thereof and then only with respect to such work or parts thereof as the Town may have so contracted.

5.12 DEFECTIVE WORK The inspection of the work shall not relieve the Contractor of his contractual obligations as herein prescribed, and defective work shall be made good and unsuitable materials may be rejected notwithstanding that such defects in work or materials may have been previously overlooked by the Engineer and such work or materials accepted or estimated for payment. If the work, or any part thereof, shall be found defective at any time before the final acceptance of the whole work, the Contractor forthwith shall make good such defect in a manner satisfactory to the Engineer, and if any materials brought upon the site for use in the work or selected for the same, shall be condemned by the Engineer as unsuitable or not in conformity with the Specifications, the Contractor shall forthwith remove such materials from the vicinity of the work. If the Contractor shall fail to replace any defective work after reasonable notice, the Engineer may cause such defective work to be replaced and the expense thereof shall be deducted from the amount to be paid the Contractor. In case the nature of the defects is such that it is not expedient to have them corrected, or if there have been omissions in the work, the Contractor shall pay the Town

and the Engineer shall have the right to deduct from the amount due the Contractor on the final settlement of the accounts, such sums of money as the Engineer considers a proper equivalent for the difference between the value of the materials or work specified and those furnished, or a proper equivalent for the damage.

- 5.13 **TIME** The Contractor shall commence the work within ten (10) days of the executing of the Contract, unless some other definite time for beginning work shall have been stated in the Invitation to Bid.
- 5.13.01 Such time of starting may be postponed by written agreement between the Town and the Contractor because of unexpected delays in receipt of materials and equipment, if the season is unsuitable for commencement of the work, or because of any other contingency clearly beyond the control or responsibility of the Contractor.
- 5.13.02 The Contractor further agrees that he will prosecute the work diligently and in accordance with any progress schedules which may be required in the Specifications and will complete all work within the time stipulated in the Invitation to Bid or elsewhere.
- 5.13.03 No work shall be done at night, before 7:00 a.m., after one hour after sundown, or on Sundays except (1) usual protective work, such as pumping and tending of lights and fires, (2) work done in case of emergency threatening injury to persons or to property.
- 5.13.04 The rate of progress shall be such that the whole work shall be performed in accordance with the terms of the Contract before the expiration of the time limit stipulated in the Invitation to Bid, unless and except as any part may be delayed under the provisions of the Contract.
- 5.13.05 It is agreed that the rate of progress herein required has intentionally been made slow enough to allow for the ordinary delays incident to construction work of this character. No extension of time will be made for ordinary delays, inclement ordinary weather and accidents, and the occurrence of such will not relieve the Contractor from the necessity of maintaining this rate of progress.
- 5.13.06 If delays are caused by acts of God, acts of government or state, strikes, extra work or other contingencies clearly beyond the control or responsibility of the Contractor, the Contractor shall be entitled to so much additional time wherein to perform and complete the Contract on his part as the Engineer shall certify in writing to be just.
- 5.13.07 The Town may delay the beginning of the work or any part thereof if the necessary lands or rights-of-way for such work shall not have been obtained. The Contractor shall have no claim for damages on account of such delay but

shall be entitled to so much additional time wherein to perform and complete the Contract on his part as the Engineer shall certify in writing to be just.

5.13.08 When extra work is ordered at any time during the progress of the work which requires, in the opinion of the Engineer, an unavoidable increase of time for the completion of the Contract, a suitable extension of the time for completion shall be made.

5.13.09 No extension of time shall be granted unless, in the opinion of the Engineer, the Contractor was delayed by reasons clearly beyond his control and has taken every reasonable step to obviate or minimize such delay.

5.14 DAMAGES TO BE PAID TOWN AND EXTENSION OF TIME The Contractor shall pay to the Town for each and every day, including Sundays and legal holidays, that he shall be in default in completing the entire work to be done under this Contract, or any essential part thereof for which there may be provided a separate time limit, the sum named on the Invitation to Bid or elsewhere in the Contract Bidding Documents, which sum is hereby agreed upon, not as a penalty, but as liquidated damages which the Town will daily suffer by reason of such default.

5.14.01 The Town shall have the right to deduct the amount of such damages from any moneys due or to become due the Contractor under the Contract. The Town, however, shall have the discretionary right to extend the time for the completion of the amount of work as aforesaid. In each such case, the Town shall be fully authorized and empowered to deduct from any estimate of the amount due the Contractor under the provisions of the Contract the amount of any damages determined as hereinbefore stipulated. The Contractor shall be in default in the completion of the work beyond the date to which the time for said completion shall have been extended by the Town. Permitting the Contractor to continue and finish the work or any part of it, after the time fixed for its completion, or after the date to which the time for completion may have been extended, shall in no way operate as a waiver on the part of the Town of any of its rights under this Contract. The Contractor shall obtain the written consent of the surety for extension of time, if any is required for the completion of the work. No claim for an extension of time for any reason shall be allowed unless, within three calendar days after such delays occurs, notice in writing of the fact of said delay, its causes and the extension claimed shall have been given by the Contractor to the Engineer.

5.15 QUANTITIES The quantities named in the Bid Form for the various items of work to be done and materials to be furnished under the Contract are given only for the purpose of comparing, on a uniform basis, the bids offered for the work under this Contract. The Town is not to be held responsible if it is found, in the performance of the work, that any or all of the said estimated quantities are not even approximately correct. The Contractor shall have no claim for anticipated profits, or for loss of profits, or for increase in prices bid because of a difference

between the quantities of the various items of work actually done or materials actually delivered and the estimated quantities stated in the Bid Form.

5.16 PRICES The Town shall pay, and the Contractor shall receive, as full compensation for everything furnished and done by the Contractor under the Contract, including all work required but not including the items hereinafter mentioned. The bid price shall include all loss or damage arising out of the nature of the work aforesaid, or from the action of the elements, or from any unforeseen obstruction of difficulty encountered in the prosecution of the work, and all risk of every description connected with the work, and all expenses incurred by or in consequence of the suspension or discontinuance of the work as herein specified, and assuming all duties and liabilities required herein, and well and faithfully completing the work, and the whole thereof, as provided in the Contract. The sum or sums named in the Bid for this work, referred to hereinbefore and made a part hereof, are subject to such retainages, deductions or other provisions affecting payment as may be provided for herein, and in accordance with, and limited by any interpretative clauses or specific lists of inclusions or exclusions which may appear in the Bidding Documents or shown on the Project Drawings.

5.17 ALTERATIONS AND ADDITIONAL WORK It is distinctly agreed and understood that any changes made in the Bidding Document for this work, whether such changes increase or decrease the amount thereof, or any change in the manner, time or amount of payments made by the Town to the Contractor, shall in no way annul, release or in any way affect the liability and surety on surety bonds given by the Contractor.

5.17.01 The Engineer may, without notice or surety, order any additional work not otherwise provided for herein or may order any work eliminated, in a manner not inconsistent with the general features of the work, or may make alterations in the line, grade, plan, form, position, dimensions or materials of the work, or any part thereof, either before or after the commencement of construction. Any such modification to the contract shall be evidenced by the execution of a change order form signed by the Engineer and Contractor. In addition, where the change affects the contract price it shall be approved by the Division of Purchasing Services Manager. If such alterations diminish the quantity of work to be done, the contract amount shall be adjusted in accordance with the quantity of work stipulated and the unit price bid. Such decrease in the amount of work shall not warrant any claim for damages or for anticipated profits on the work that may be dispensed with. If they increase the amount of work, such increase shall be paid for according to the quantity actually done and at the unit price stipulated for such work under this Contract or where there is no unit price at a price that is mutually agreeable to the Town and the Contractor.

5.18 ADDITIONAL PAYMENTS If, in the opinion of the Engineer, such alterations result in increased or decreased cost to the Contractor, a fair and equitable sum

therefore, to be agreed upon in writing by the Contractor, the Engineer and Division of Purchasing Services Manager before such alteration is made, shall be added to or deducted from the contract price as the case may be. One of the following methods shall be used to adjust the contract price:

At the unit prices stated in the Bid or in absence the change shall be computed as follow:

- .01 A mutually acceptable lump sum, properly itemized and supported by sufficient substantiating data to permit evaluation; or
- .02 Unit prices stated in the Contract Documents or subsequently agreed upon; or
- .03 Cost, to be determined as follows:
 - .01 The cost of labor performed and material used by the Contractor with his own forces.
 - .02 The cost of Workmen's Compensation, Federal Social Security, and Connecticut Unemployment Compensation in established rates, actual additional cost of payment and performance bonds.
 - .03 Actual cost of rental rates for equipment employed and used directly on the work.
 - .04 Fifteen percent (15%) of the total cost of the three items enumerated in Sections 5.18.03.01-.03 above, for overhead, superintendence and profit, however, if the work to be performed results in a credit to the Owner, no percentage of overhead and profit will apply.
 - .05 On work to be performed by a sub-contractor, the Contractor's allowance is to be ten percent (10%) applied to total cost of sub-contractor's work, including his allowance as per paragraph 5.18.03.07.
 - .06 On any changes involving the Contractor, sub-contractor or any contractor of theirs, their total cost and/or omissions shall be combined as one before the application of the percentage allowed for the Contractor's overhead profit in accordance with paragraph 5.18.03.04.05.
 - .07 On work to be performed by a sub-contractor, the sub-contractor's allowance is to be fifteen (15%) for his overhead and profit applied to paragraphs 5.18.03.01.03 above, as with the principal contractor.

- .08 The Contractor, when performing work under paragraphs 5.18.03 shall, when requested, promptly furnish in a form satisfactory to the Owner, itemized statements of the cost of the work so ordered, including but not limited to, certified payrolls and copies of accounts, bills and vouchers to substantiate the above estimates.
- .04 If the Contractor claims compensation for additional work, for any alleged damage sustained as a result of the Engineer's order to proceed with such work, or if the Contractor and Engineer disagree as to any term otherwise necessary to prepare a change order, the Engineer shall prepare a work change directive to permit the project to continue. The Contractor shall, within ten (10) working days after receipt of a work directive change, make a written statement to the Engineer justifying the claim. A response to the Contractor shall be provided by the Engineer within 30 days thereafter. On or before the fifteenth (15th) day of the month succeeding that in which any such additional work shall have been done, or any such damage shall have been sustained, the Contractor shall file with the Engineer an itemized statement of the details and amount of such work or damage. Unless the Contractor complies strictly with the items of this provision, his claim for compensation shall be forfeited and invalid, and he shall not be entitled to payment on account of any such work or damage. In the event that a change in price is agreed upon, the change shall be calculated using one of the methods set forth in Paragraphs 5.18.01.03.
- .05 Upon receipt of a work change directive, the Contractor shall promptly proceed with the change in the work involved and advise the method, if any, provided in the work change directive for determining the proposed adjustment in the Contract price or Contract time.
- .06 A work change directive signed by the Contractor indicates the agreement of the Contractor therewith, including adjustment in the Contract price or the Contract time or the method for determining them. Such agreement shall be effective immediately and shall be recorded as a change order.
- .07 If the Contractor disagrees with the method for adjustment of the Contract price used by the Engineer, the method provided in Paragraph 2.18.3 shall be used.
- .08 Pending final determination of cost, amounts not in dispute may be included in applications for payment. The amount of credit to be allowed by the Contractor to the Town for a deletion or change which results in a net decrease in the Contract price shall be actual net cost as confirmed by the Engineer. When both additions and credits covering related work or substitutions are involved in a change, the allowance for overhead and profit shall be figured on the basis of net increase, if any, with respect to that change.

- .0.9 If the Town and Contractor do not agree with the adjustment in contract time or the method for determining it, the Engineer's determination of the adjustment shall be final.
- .10 When the Town and the Contractor agree concerning adjustments in contract price or contract time, or otherwise reach agreement upon adjustments to the contract, such agreement shall be effective immediately and shall be recorded by preparation of an appropriate change order.
- .11 The Engineer has the authority to order minor changes in the work not involving adjustments to the contract price or contract time. Such changes shall be effected by written change order and shall be binding on the Town and the Contractor. The Contractor shall carry out such written orders promptly.

5.19 PARTIAL ESTIMATES AND PAYMENTS The Contractor shall, once in each calendar month, make an estimate in writing of the total amount of work done and the materials delivered and accepted to the time of such estimate, and the value thereof. The Town shall retain five (5%) percent of such estimated value as part security for the fulfillment of this Contract and shall pay monthly to the Contractor while carrying on the work, except as provided below, the balance not retained as aforesaid, after deducting from all previous payments and all sums to be deducted, kept or retained under the provisions of this Contract. It is agreed that such periodic estimates with respect to quantities are approximate only and are subject to adjustment on the final estimate. No such estimate or payment shall be required to be made when, in the judgment of the Engineer, the total value of work done since the preceding estimate amounts to less than five (5%) percent of the total bid price. Payment may at any time be withheld if the work is not proceeding in accordance with the Contract. The Town may, if it deems it expedient to do so, cause estimates and payments to be made more frequently than once in each month, but in no circumstance shall the Town be required to do so.

5.19.01 The Town may, if it deems it desirable and expedient to do so, retain temporarily or for the duration of this Contract a smaller amount than as aforesaid. In case such payments are made, the Town may, at any time cause further payments to be withheld until the full five (5%) percent reserve is re-established. No portion of the retained percentage will be released until there has been filed with the Town, a certificate signed by a responsible and authorized officer of the surety company, which has furnished the surety bonds, that said company approves of such release and that such payment will in no way annul, release or in any affect the liability and surety on the bond given by the Contractor. The Town may pay the Contractor from time to time during any maintenance period, which may be specified, such portion of any reserve therefore, which it deems prudent or desirable to pay.

- 5.19.02 If the Contractor does not concur with and consent to the estimates of quantities, the classifications, the sums due or any other elements of the estimates prepared by the Engineer or does not agree with the interpretations of the meaning or requirements of the Contract with accompanying plans and documents as made evident to him either in estimates by the Engineer of the value of work or otherwise, then the Contractor shall at once, notify the Engineer in writing in accordance with Paragraph 5.06.03 of this section of any such disagreement or of any alleged error or omission and of any claim resulting from and of the amount and details thereof. Prompt delivery of such written notice or notices to the Engineer as provided herein shall be a condition precedent to the right of the Contractor, or any party claiming for or under him, to any additional compensation over and above that estimated by the Engineer as due the Contractor and set forth in the Engineer's periodic estimates for payment. Unless and except as notice was given to the Engineer as aforesaid, the Contractor shall have no cause of action against the Town for such claim.
- 5.19.03 It is further agreed that the contract pursuant to these Bidding Documents is an entire contract for one whole and complete project and that no partial payments on account by the Town nor the presence of the Engineer or inspectors or their superintendence or inspections of work or material shall constitute an acceptance of any part of the work before its entire completion and final acceptance. However, nothing in the Contract shall be construed to vest in the Contractor any right or property interest in materials used. After they shall have been attached or affixed to the work or the soil or estimated for payment, but all such materials shall, upon being so attached, affixed or estimated for payment, become the property of the Town.
- 5.20 FINAL ESTIMATE The Engineer shall, as soon as practicable after the completion of all work under the Contract, except for any maintenance period and any permanent repairs and replacement of paving cuts which may be specified to be done at a later date, make a final estimate of the amount of work done under the Contract and the value of such work. The Town shall retain 5% of the sum or sums specified as the estimated value thereof as part security for the fulfillment by the Contractor of any maintenance and other similar provisions of the Bidding Documents together with any other sum or sums to be retained as provided elsewhere herein.
- 5.20.01 The Contractor shall warranty the whole of the work in good repair for a period of not less than fifteen (15) months from the date of completion of the entire work. The Contractor shall repair promptly all failure in the construction and operation of such work and appurtenances which may occur before the expiration of such period and all defects, settlements and irregularities of the work and appurtenances, sewers and drains, pipes, mains or conduits, curbs, gutters, sidewalks, street surfacing, land turfing or of any structures, occurring

before the expiration of such period and caused or affected by work under the Contract. Within thirty (30) days after the expiration of the period for any maintenance work which may be specified, the Town shall pay any retainage made for such work, provided that the whole of the work executed by the Contractor is at that time in conformity with the requirements of this Contract; if not, then as soon thereafter as the work shall be made to conform thereto, and also provided all claims for which the Town may become liable, and the Contractor liable to reimburse the Town therefore, have been paid or adequate security therefore has been furnished to the Town. The work hereunder shall not be considered as completed and finally accepted unless and until evidenced by final certificate of the Engineer and release of retainage.

5.20.02 No persons or corporations other than the Contractor shall have any interest hereunder and no claim shall be made or be valid and neither the Town nor any member or agent thereof shall be liable for, or be held to the last payment made as aforesaid or as provided elsewhere herein shall operate as and shall be a release to the Town, and every agent thereof, from all claim and liability to the Contractor for anything done or furnished for or relating to the work or for any act of neglect of the Town or of any person relating to or affecting the work, except the claim against the Town for the remainder, should there be amounts kept or retained as provided elsewhere herein.

5.21 WITHHOLDING PAYMENT The Town may, at its discretion, withhold any monies which would otherwise be payable at any time hereunder and apply the same, or so much as may be necessary therefor, to the payment of any expenses, losses or damages incurred by the Town and determined as herein provided and may retain related to the Contract or with thereunder so much of such moneys as the Town shall be required to settle all claims against the Town and its officers and agents arising due to the Contract and included in the duties and liabilities assumed hereunder by the Contractor; and all claims for labor on the work; and also all claims for materials used in the work.

The Town may make such settlements and apply thereto any moneys retained under the Contract. If the monies withheld under this Contract are insufficient to pay the sums found by the Town to be due under the claims for labor and materials, the Town may, at its discretion, pay the same and the Contractor or his surety shall repay to the Town all sums so paid out.

5.22 WAIVER Neither the inspection by the Town, nor of the Engineer, nor their employees, nor any order, measurement or certificate by the Engineer, nor any order by the Town for the payment of money, nor any payment for nonacceptance of the whole or possession taken by the Town or its employees, shall operate as a waiver of any provision of the Contract, or of any power herein reserved to the Town, or any right to damages herein provided, nor shall any waiver of any breach of the Contract be held to be a waiver of any other or

subsequent breach. Any remedy provided in the Contract shall be taken and construed as cumulative; that is, in addition to each and every other remedy herein provided.

5.22.01 In the event of any unavoidable cause beyond the control of the parties, whether natural or man-made, which renders the performance of this contract impossible, the contract shall be terminated. Such occurrences shall include, without limitation, death of the Contractor (in the event that the Contractor is a sole proprietor); destruction of all, or a major portion of the Contractor's equipment; legal order by a court of competent jurisdiction, or referendum barring performance of the contract; war, famine, flood, plague, pestilence or act of God. Any amounts due to either prior to the occurrence which renders performance impossible shall be paid, but no further sums shall be due from either party to the other, by way of damages for the termination of the contract.

5.23 CONNECTICUT OCCUPATIONAL SAFETY AND HEALTH ACT The Contractor shall keep himself fully informed and currently up to date regarding all laws, rules, standards and regulations in any manner affecting the safety of any employees relative to the Contract under the Connecticut Occupational Safety and Health Act (Public Act 73-379 as may be amended).

5.23.01 The Engineer or his authorized representatives may order any violations of the standards promulgated by the Connecticut Occupational Safety and Health Act corrected immediately as they pertain to the safety and health of Town employees in the performance of their duties relative to the Contract. Failure of the Contractor to correct the violation(s) shall be cause to order all work under the Contract to be suspended. Such an order shall not be cause for a claim by the Contractor for lost time and or other damage or for extension of time of completion of the Contract. Furthermore, failure of the Contractor to correct the violations(s) after a reasonable time shall be grounds for the Town to terminate the Contract and in this event the Contractor shall be liable for all damages which arise as a result of said termination.

5.23.02 Nothing in this section shall be construed to relieve the Contractor of his responsibilities as an employer under the act. Any fines or penalties imposed on the Town resulting from violations of the standards promulgated by the act shall be paid by the Contractor and may be deducted from moneys due the Contractor under the Contract.

The failure of the Engineer to order a violation of the standards to be corrected shall not constitute a waiver of such violation and the Contractor may be ordered to correct violations subsequently at any time.

5.23.03 The Contractor shall comply with Section 12-43 of the Connecticut General Statutes as may be amended.

Sec. 12-43. Property of nonresidents. All owners of real estate, or of tangible personal property located in any town for three months or more during the assessment year immediately preceding any assessment day, who are nonresidents of such town, shall file lists of such real estate and personal property with the assessors of the town in which the same is located on such assessment day, if located in such town for three months or more in such year, otherwise, in the town in which such property is located for the three months or more in such year nearest to such assessment day, under the same provisions as apply to residents, and such personal property shall not be liable to taxation in any other town in this state. The list of each assessors shall mail to each nonresident, or to his attorney or agent having custody of his taxable property, at least fifteen days before the expiration of the time for filing lists, blank forms for filing lists of such property. The lists of taxable property of nonresidents shall be arranged in alphabetical order and separate from the lists of residents, provided no such separation shall be necessary in any town the board of assessors of which, upon the request of its property tax collector, has made rules and regulations approved by the secretary of the office of policy and management setting up an alternative method of arrangement.

- 5.24 PROVISIONS REQUIRED BY LAW DEEMED INSERTED Each and every provision of law and clause required by law to be inserted in the Contract shall be deemed to be inserted herein and the Contract shall be read and enforced as though they were included herein. If through mistake or otherwise, any such provision is not inserted or is not correctly inserted, then upon the application of either party the Contract shall forthwith be physically amended to make such insertion.
- 5.25 TERMINATION OR SUSPENSION OF THE CONTRACT The Contractor may terminate the Contract if the Work is stopped for a period of 60 days through no act or fault of the Contractor or a Subcontractor, Subcontractor or their agents or employees or any other persons performing portions of the Work under contract with the Contractor, for any of the following reasons:
- 5.25.01 Issuance of an order of a court or other public authority having jurisdiction which directs the Contractor to stop the Work, or terminate the Contract;
- 5.25.02 An act of government, such as a declaration of national emergency, which renders performance impossible by making material or properly skilled workers unavailable;
- 5.25.03 Failure of the Engineer to issue a Certificate for Payment in a timely fashion when the Contractor has not been notified of the reason for withholding certification;

- 5.25.04 Failure of the Town to make payment within the time stated in the contract Documents; or
- 5.25.05 Repeated suspensions, delays or interruptions by the Town occur constituting, in the aggregate, more than 100 percent of the total number of days scheduled for completion, or 120 days in any 365 day period, whichever is less.
- 5.25.06 If one of the above reasons exists, the Contractor may, upon seven days written notice to the Town, terminate the Contract and recover from the Town payment for work executed.
- 5.25.07 If the work is stopped for a period of 60 consecutive days through no act or fault of the Contractor or a Subcontractor or their agents or employees or any other persons performing portions of the work under contract with the Contractor because the Town has persistently failed to fulfill its obligations under the Contract Documents with respect to matters important to the progress of the Work, the Contractor may, upon seven days written notice to the Town, terminate the contract and recover from the Town as provided in subparagraph 1B above.
- 5.25.08 The Town may terminate the Contract for any of the following causes:
- 5.25.09 If the Contractor shall institute or consent to proceedings requesting relief or arrangement under the Federal Bankruptcy Act or any similar or applicable federal or state law, or if a petition under any federal or state bankruptcy or insolvency law is filed against the Contractor and such petition is not dismissed within sixty (60) days from the date of said filing, or if the Contractor admits in writing his inability to pay his debts generally as they become due, or if he makes a general assignment for the benefit of his creditors, or if a receiver, liquidator, trustee or assignee is appointed on account of his bankruptcy or insolvency; or
- 5.25.10 If a receiver of all or any substantial portion of the Contractor's properties is appointed; or
- 5.25.11 If the Contractor abandons the Work by failing to report to the site of the Work without prior approval of the Engineer for a period of 3 consecutive work days at any time after the scheduled commencement date for the Work and before the Work is completed; or
- 5.25.12 If the Contractor fails to prosecute the Work promptly and diligently, except in cases for which extension of time is provided; or

- 5.25.13 If the Contractor fails or refuses to supply enough properly skilled workers or proper materials for the Work; or
- 5.25.14 If the Contractor submits an Application for Payment, sworn statement, waiver of lien, affidavit or document or any nature whatsoever which is intentionally falsified; or
- 5.25.15 If the Contractor fails to make prompt payment to subcontractors or for materials or labor or otherwise breaches his obligations under any Subcontract with a Subcontractor; or
- 5.25.16 If a mechanic's or materialman's lien or notice of lien is filed against any part of the Work or the site of the Project and is not promptly bonded or insured over by the Contractor in a manner satisfactory to the Owner; or
- 5.25.17 If the Contractor disregards any law, statute, ordinance, rule, regulation or order of any governmental body or public or quasi-public authority having jurisdiction of the Work or the site of the Project; or
- 5.25.18 If the Contractor otherwise substantively violates any provision of the Contract Documents.
- 5.25.19 When any of the above reasons exist, the Town, upon certification by the Engineer that sufficient cause exists to justify such action, may without prejudice to any other rights or remedies which it may have, and after giving the Contractor and the Contractor's surety, if any, seven days' written notice, terminate the Contract and may, subject to any prior rights of the surety;
- 5.25.20 take possession of the site and all materials, equipment, tools, and construction equipment and machinery thereon owned by the Contractor and may request that the Contractor remove any part or all of his equipment, machinery, and supplies from the site of the Project within seven (7) days from the date of such request, and in the event of Contractor's failure to do so, may remove or store such equipment, machinery and supplies at the Contractor's expense.
- 5.25.21 accept assignment of subcontracts; and
- 5.25.22 finish the Work by whatever reasonable method the Town may deem expedient, including, without limitation, the use of Town employees and equipment.
- 5.25.23 When the Town terminates the Contract for one of the reasons stated in subsection 2, the Contractor shall not be entitled to receive further payment until the Work is finished
- 5.25.24 If the unpaid balance of the Contract Sum exceeds all costs to the Town of completing the Work, then the Contractor shall be paid for all Work performed

by the Contractor to the date of termination. If the costs to the Town of completing the Work exceed such unpaid balance, the Contractor shall pay the difference to the Town immediately upon the Town's demand. The costs to the Town of completing the Work shall include (but not be limited to) the cost of any additional architectural, managerial and administrative services required thereby; any costs incurred in retaining another contractor or other subcontractors; the cost using Town employees to complete the work, including the costs of any workers' compensation claims which may result from the completion of the work; any additional interest or fees which the Owner must pay by reason of delay in completion of the Work; attorney's fees and expenses which the Town may incur by reason of completing the Work or any delay thereof. The amount, if any, to be paid to the Contractor shall be certified by the Engineer, upon application, and this obligation shall survive the termination of the Contract.

6.00 GENERAL SPECIFICATIONS

- 6.01 Handling and Distribution
- 6.02 Materials - Samples - Inspection - Approval
- 6.03 Shop and Working Drawings
- 6.04 Occupying Private Land
- 6.05 Interference With and Protection of Streets
- 6.06 Storage of Materials and Equipment
- 6.07 Insufficiency of Safety Precautions
- 6.08 Traffic Control
- 6.09 Sanitary Regulations
- 6.10 Lines, Grades and Measurements
- 6.11 Work to Conform
- 6.12 Computation of Quantities
- 6.13 Planning and Progress Schedules
- 6.14 Precautions Against Adverse Weather
- 6.15 Definitions
- 6.16 Abbreviations

6.01 HANDLING AND DISTRIBUTION The Contractor shall, at his own expense handle, haul and distribute all materials and all surplus materials on the different portions of the work, as necessary. He shall provide suitable and adequate storage area for materials during the progress of the work and be responsible for loss of, or damage to, materials furnished or accepted by him, until the final acceptance of the work.

Storage charges and demurrage charges by transportation companies and vendors which result from delays in handling shall be borne by the Contractor.

6.02 MATERIALS -SAMPLES -INSPECTION -APPROVAL Unless otherwise indicated on the drawings or specified, only new materials shall be incorporated in the work. All materials furnished by the Contractor to be incorporated in the work shall be subject to the inspection and approval of the Engineer and the or their duly appointed representative.

6.02.01 As soon as possible after the formal execution of the Contract, the Contractor shall submit to the Engineer and the Engineer's duly appointed representative, the names and addresses of the manufacturers and suppliers of all materials he proposes to incorporate into the work. When shop and working drawings are required as specified below, such information shall be submitted prior to the submittal of the drawings so that the Engineer and the Engineer's duly appointed representative may consider and approve or disapprove the manufacturer and/or the supplier as to their ability to furnish a product meeting the specifications, subject to final approval of the particular material. As requested, the Contractor shall also submit data relating to the materials he proposed to incorporate into the work, in sufficient detail to enable the Engineer the Engineer's duly appointed representative to identify the particular product in question and to form an opinion as to its conformity to the Contract requirements. Such data shall be submitted in the manner similar to that specified for shop and working drawings.

6.02.02 Facilities and labor for the handling and inspection of all materials shall be furnished by the Contractor. Defective materials shall be removed immediately from the site of the work.

6.02.03 If the Engineer or the Engineer's duly appointed representative so requires, either prior to beginning or during the progress of the work the Contractor shall submit samples of materials for such special tests as may be necessary to demonstrate that they conform to specifications. Such samples, including concrete test cylinders, shall be furnished, taken, stored, packed and shipped as directed at the expense of the Contractor. The Contractor shall, at his expense, furnish approved molds for making test cylinders. All samples shall be packed so as to reach their destination in good condition and shall be labeled to indicate the material represented, the name of the building or work and location for which the material is intended and the name of the Contractor submitting the sample. To ensure consideration of samples, the Contractor

shall notify the Engineer the Engineer's duly appointed representative by letter that the samples have been shipped and shall properly describe the samples. The Contractor shall submit data and samples or place his orders sufficiently early to permit consideration, inspection, testing and approval before the materials are needed for incorporation into the work. Delay resulting from his failure to do so shall not be used as the basis of a claim against the Town, the Engineer, or their duly appointed representative.

- 6.02.04 When required, the Contractor shall furnish to the Engineer Engineer's or their duly appointed representative, triplicate, sworn copies of manufacturer's shop or mill tests (or reports from independent testing laboratories) relative to materials and concrete data. After approval of the samples, data, etc., the materials used on the work shall correspond therewith.
- 6.03 SHOP AND WORKING DRAWINGS The Contractor shall submit for approval, shop and/or working drawings of concrete reinforcement, structural details, piping layout, materials fabricated especially for this project and material specifications for which drawings are specifically requested. The shop drawings for items of work that require design by a professional engineer or architect, as defined by the General Statutes of the State of Connecticut shall bear the seal and signature of said professional engineer or architect licensed and registered in the State of Connecticut and qualified to design such items.
- 6.03.01 Such drawings shall show the principal dimensions and construction details. When it is customary to do so, or when the dimensions are of particular importance, the drawings shall be certified by the manufacturer as correct for this project.
- 6.03.02 No material shall be purchased or fabricated until the Engineer or the Engineer's duly appointed representative has certified that the shop or working drawings conform to the contract requirements. All materials and work involved in the construction shall then be as represented by said drawings.
- 6.03.03 No work shall be done upon any part of a structure, the design or construction of which is dependent upon the features for which approval is required, until such approval has been given.
- 6.03.04 All shop or working drawings shall be submitted in triplicate to the Engineer or the Engineer's duly appointed representative through the Contractor. Only drawings which have been checked and corrected by the material fabricator should be submitted. The Contractor shall be responsible for the prompt submission of all shop or working drawings so that there shall be no delay to the work due to the absence of such drawings. Additional prints of approved drawings shall be furnished as required.

- 6.03.05 Two copies of approved shop drawings shall be returned to the Contractor.
- 6.03.06 The approval of shop and working drawings, etc. will be general and shall not relieve the Contractor from the responsibility for details of design, dimensions, etc., necessary for proper fitting and construction of the work required by the Contract.
- 6.04 OCCUPYING PRIVATE LAND The Contractor shall not (except after written consent from the proper parties) enter or occupy with men, tools, materials any land outside the rights-of-way or property of the Town.
- 6.05 INTERFERENCE WITH AND PROTECTION OF STREETS The Contractor shall not close or obstruct any portion of a street, road or private way without obtaining permits therefor from the Director of Community Services. If any street or private way shall be rendered unsafe by the Contractor's operations, he shall make such repairs or provide such temporary ways or guards as shall be acceptable to the Town or owners of the private way.

Streets, roads, private ways and walks not closed shall be maintained passable by the Contractor at his expense and the Contractor shall assume full responsibility for the adequacy and safety of provisions made.

The Contractor shall, 24 hours in advance, notify the Police and Fire Departments in writing with a copy to the Engineer, if the closing of a street is necessary. He shall cooperate with the Police Department in the establishment of alternate routes and, at his own expense, shall provide adequate detour signs, plainly marked and well lighted, in order to minimize confusion.

- 6.06 STORAGE OF MATERIALS AND EQUIPMENT All excavated materials, construction equipment and materials to be incorporated in the work shall be placed so as not to injure the work and so that free access can be had at all times to all parts of the work and to all public utility installations in the vicinity of the work. Excavated materials and any other materials shall be kept neatly piled and compactly stored in such location as will cause a minimum of inconvenience to public travel and adjoining tenants. There shall be no stockpiling of materials within the street lines during non working hours. There shall not be stockpiling or placement of excavated or other materials on private or personal property without prior written permission of the owner thereof.
- 6.07 INSUFFICIENCY OF SAFETY PRECAUTIONS If at any time, in the opinion of the Engineer, or his duly authorized representative, the work is not properly lighted, barricaded and in all respects safe in regard to public travel, persons on or about the work or public or private property, the Engineer or his duly authorized representative shall have the right to order such safeguards to be

erected and such precautions to be taken as he deems advisable and the Contractor does not or cannot immediately put the work and the safeguards into proper and approved condition or if the Contractor or his representative is not upon the ground so that he can be notified immediately of the insufficiency of safety precautions, the Engineer or his duly authorized representative may put the work into such a condition that it shall be, in his opinion, in all respects safe. The Contractor shall pay all expenses of such labor and materials as may have been used for this purpose by him or by the Engineer. Such action of the Engineer or his duly authorized representative, or his failure to take such action, shall in no way relieve the Contractor of the entire responsibility for any cost, loss or damage sustained on account of the insufficiency of the safety precautions taken by him or his duly authorized representative acting under authority of this section.

- 6.08 TRAFFIC CONTROL All conditions of current policies and procedures as promulgated by the Traffic Authority, through the Engineering Division, shall be a part of these bidding documents and the Contractor shall conform to these standards. Those policies and procedures are incorporated herein by reference as Exhibit C.
- 6.08.01 The Contractor shall be paid by the Town for the expense of Traffic Control Personnel. The Contractor shall specifically include traffic control personnel in the classification of workmen eligible for Workmen's Compensation.
- 6.09 SANITARY REGULATIONS The Contractor shall provide adequate sanitary conveniences for the use of those employed on the work. Such conveniences shall be made available when the first employees arrive on the work, shall be properly secluded from public observation and shall be constructed and maintained in suitable numbers and at such points and in such manner as may be required or approved.
- 6.09.01 The Engineer shall have the right to inspect any building or other facility erected, maintained or used by the Contractor to determine whether or not the sanitary regulations have been complied with.
- 6.10 LINES, GRADES AND MEASUREMENTS The controlling lines and grades shall be given to the Contractor who shall provide, at his own expense, such specialized equipment, forms, materials and labor as may be required. Additional specialized equipment, lines, grades and forms shall be furnished and set by the Contractor as directed. If the Contractor, through willfulness or carelessness, removes or permits to be removed any reference marks establishing said controlling lines and grades before the prosecution of the work requires such removal, the replacement of such reference marks shall be at the Contractor's expense.
- 6.10.01 The Contractor shall make all measurements and check all dimensions necessary for the proper construction of the work called for by the drawings and specifications. During the prosecution of the work he shall make all

necessary measurements to prevent misfitting in said work and he shall be responsible therefore and for the accurate construction of the entire work.

- 6.11 WORK TO CONFORM During its progress and on its completion, all work shall conform truly to the lines, levels and grades indicated on the drawings or given by the Engineer and shall be built in a thoroughly substantial and workmanlike manner in accordance with the Contract Bidding Documents, and the directions given from time to time by the Engineer. In no case shall any work in excess of the requirements of the drawings and specifications be paid for unless ordered in writing by the Engineer.
- 6.12 COMPUTATIONS OF QUANTITIES For estimating quantities in which the computation of area by geometric methods would be comparatively laborious, it is stipulated and agreed that the planimeter shall be considered an instrument of precision adapted to the measurement of such areas.
- 6.12.01 It is further stipulated and agreed that the computation of the volume of prisms shall be by the method of average end areas.
- 6.13 PLANNING AND PROGRESS SCHEDULES Before starting the work, and from time to time during its progress, as the Engineer may request, the Contractor shall submit to the Engineer, a written description of the methods he plans to use in doing the work and the various steps he intends to take. The Contractor and Town will agree to such progress schedules in writing which shall be incorporated as a provision of the contract. Failure to adhere to such progress schedules shall be subject to sanctions in accordance with Section 2.01.08 of the Invitation To Bid and Section 5.13 of the General Conditions.
- 6.13.01 If requested by the Engineer, within 15 days after the date of starting work, the Contractor shall prepare and submit to the Engineer (a) a written schedule fixing the dates at which additional drawings, if any, will be required and (b) a written schedule fixing the respective dates for the start and completion of various parts of the work. Each such schedule shall be subject to review and change from time to time during the progress of the work.
- 6.14 PRECAUTIONS AGAINST ADVERSE WEATHER During adverse weather and against the possibility thereof, the Contractor shall take all necessary precautions so that the work may be properly and satisfactorily done in all respects. When required, protection shall be provided by the use of tarpaulins, wood and building-paper shelters or other approved means.
- 6.14.01 During cold weather, materials shall be preheated, if required, and the materials and adjacent structure into which they are to be incorporated shall be made and kept sufficiently warm so that a proper bond will take place and a proper curing, aging or drying will result. Protected spaces shall be artificially heated by approved means which will result in a moist or a dry

atmosphere according to the particular requirements of the work being protected. Ingredients for concrete and mortar shall be sufficiently heated in accordance with applicable ASTM, ASA and/or AC specifications so that the mixture will be warm throughout when used.

6.14.02 The Engineer may suspend construction operations at any time when, in his judgement, the conditions are unsuitable or the proper precautions are not being taken, whatever the weather may be in any season.

6.15 DEFINITIONS Whenever the words defined in this section or pronouns used in their stead occur in the specifications, they shall have the meanings herein given:

6.15.01 AS DIRECTED, AS REQUIRED, ETC. Wherever in the specifications or on the Drawings, the words, "if requested", "as directed", "as required", "as permitted", or words of like importance, it shall be understood that the direction, requirement or permission of the Engineer is intended. Similarly, the words "approved", "acceptable", "satisfactory" and words of like import shall mean approved by, acceptable to or satisfactory to the Engineer.

6.15.02 ELEVATION The figures given in the contract bidding documents after the word "elevation" or abbreviation of it shall mean the distance in feet above the datum adopted by the Engineer.

6.15.03 ROCK The word "rock" wherever used as the name of an excavated material or material to be excavated, shall mean boulders and pieces of concrete or masonry exceeding 1/2 cubic yards in volume; or solid ledge rock, which, in the opinion of the Engineer, requires for its removal any of the following: drilling and blasting, wedging, sledging, barring or breaking up with a power-operated tool. No soft or disintegrated rock which can be removed with a hand pick or power-operated excavator or shovel, no loose, shaken or previously blasted rock or broken stone in rock fillings or elsewhere; and no rock exterior to the maximum limits of measurements allowed, which may fall into the excavation, will be measured or allowed.

6.15.04 EARTH The word "earth" wherever used as the name of an excavated material or material to be excavated, shall mean all kinds of material except rock as above defined.

6.16 ABBREVIATIONS In referring to Standard Specifications, abbreviations are used as follows:

MDC	Metropolitan District Commission
.....	
ASTM	American Society of Testing Materials
.....	
ConnDOT	Connecticut Department of Transportation
AWWA	American Water Works Association

ASA	American Standards Association Federal GSA
.....	
Specifications	Federal Specifications issued by the Federal Supply
.....	Service of the General Services Administration,
	Washington, D.C.
ACI	American Concrete Institute
.....	
AASHTO	American Association of State Highway Officials
.....	

7.00 TECHNICAL SPECIFICATIONS

Copies of the "Town of West Hartford Infrastructure Rules and Specifications 1995" are available at a cost of \$10 in the Division of Engineering and are hereby made part of these specifications. In addition Divisions II and II only of the "State of Connecticut Department of Transportation standard Specifications for Roads, Bridges and Incidental Construction Form 817" are hereby made a part of these specifications.

7.01 SPECIFICATIONS

BANK RUN GRAVEL

Description

This item includes the furnishing of all labor, materials, tools, and equipment necessary to furnish and install bank run gravel as directed by the Engineer.

Materials

All materials shall conform to Form 817, Section M.02.02 and M.02.06. Reclaimed or recycled materials will not be accepted.

Construction Methods

Work under this technical specification shall conform to Form 817, Section 2.12.03.

Measurement and Payment

Measurement and payment for this item will be based on the number of cubic yards of compacted Bank Run Gravel furnished, installed, and accepted in place.

ITEM	UNIT
Bank Run Gravel	Cubic Yard

PROCESSED AGGREGATE BASE

Description

This item includes the furnishing of all labor, materials, tools, and equipment necessary to furnish and install processed aggregate base as directed by the Engineer.

Materials

Gradation

Coarse and fine aggregates shall be combined and mixed by approved methods so that the resulting material shall conform to one of the following gradation requirements as specified:

Percent Passing by Weight

<u>Square Mesh Sieves</u>	<u>Medium Gradation</u>	<u>Coarse Gradation</u>
2-1/4"	-	100
2"	-	95 – 100
1-1/2"	100	-
1"	90 – 100	-
3/4"	75 – 100	50 – 75
1/4"	30 – 60	25 – 45
#40	10 – 25	5 – 20
#100	3 – 12	2 – 12

Coarse Aggregate

Coarse aggregate shall be broken stone. When tested by means of the Los Angeles Abrasion Machine, using AASHTO Method T 96, the coarse aggregate shall not have a loss of more than 50 percent. Broken stone shall consist of sound, tough, durable fragments of rock of uniform quality throughout. It shall be free from soft, disintegrated pieces, mud, dirt, organic or other injurious material.

Gravel or reclaimed miscellaneous aggregate will not be accepted as an alternative for processed aggregate.

Fine Aggregate

The fine aggregate shall conform to Form 817, Section M.05.01-3.

Construction Methods

Work under this item shall conform to Form 817, Section 3.04.03, except that gravel, recycled, or reclaimed material shall not be used. This item includes all labor, equipment, and materials to place a 9 inch thick compacted layer of processed aggregate stone for a 12 inch wide section.

Measurement and Payment

Measurement and payment for this item will be based on the number of cubic yards of compacted Processed Aggregate Base furnished, installed, completed, and accepted in place.

ITEM	UNIT
Processed Aggregate Base	Cubic Yards

SIDEWALK REMOVAL

Description

This item includes the furnishing of all labor, materials, tools, and equipment necessary to remove and dispose sidewalk material. This item also includes the placement of compacted backfill material.

Construction Methods

Excavation:

The Contractor shall remove and dispose all existing sidewalk materials as directed by the Engineer.

Preparation:

Any processed aggregate base material under the removed sidewalk can remain. The Contractor shall place compacted processed aggregate base, bank run gravel, or topsoil up to 4 inches below finished grade.

Measurement and Payment

Measurement and payment for this item will be based on the number of square feet of Sidewalk Removal completed and accepted in place including the placement of backfill material up to 4 inches below finished grade. Turf establishment shall be paid as a separate item.

ITEM	UNIT
Sidewalk Removal	Square Foot

CONCRETE SIDEWALK

Description

This item includes the furnishing of all labor, materials, tools, and equipment necessary to replace or install new concrete sidewalk, furnish and install steel dowels, and construct concrete driveway and concrete sidewalk ramps with detectable warning strips.

This item also includes the existing sidewalk sawcut, excavation, removal, and disposal of the material where the sidewalk work will occur including existing sidewalk, driveway ramp, and sidewalk ramp materials, any additional excavated material, installation of processed aggregate base material, restoration of disturbed or damaged lawn areas or driveway areas within one foot from the sidewalk edge.

Prior to the placement of concrete, adjustments of all public and private frames, grates, covers, and utility boxes shall be completed as directed by the Engineer.

Materials

Base Material:

The base material shall be medium gradation processed aggregate base. Coarse and fine aggregates shall be combined and mixed by approved methods so that the resulting material shall conform to the following gradation requirements:

Percent Passing by Weight

<u>Square Mesh Sieves</u>	<u>Medium Gradation</u>
2-1/4"	-
2"	-
1-1/2"	100
1"	90 – 100
3/4"	75 – 100
1/4"	30– 60
#40	10 – 25
#100	3 - 12

Coarse aggregate shall be broken stone. When tested by means of the Los Angeles Abrasion Machine, using AASHTO Method T 96, the coarse aggregate shall not have a loss of more than 50 percent. Broken stone shall consist of sound, tough, durable fragments of rock of uniform quality throughout. It shall be free from soft, disintegrated pieces, mud, dirt, organic, and other injurious material.

Gravel or reclaimed miscellaneous aggregate will not be accepted as an alternative for processed aggregate.

The fine aggregate shall conform to Form 817, Section M.05.01-3.

Portland Cement Concrete:

All concrete shall be Class F and proportioned by weight for one cubic yard as follows:

<u>Content/Characteristic</u>	<u>Measurement</u>
Cement (7 sacks)	658 lbs.
Sand	1,244 lbs.
3/8" crushed stone	700 lbs.
3/4" crushed stone	1,080 lbs.
Water	34 gals.
Darex II (A.E.A.)	3.29 oz.
Air Entrainment	5-7 percent
Slump	3 inches (max.)
Strength (28 day)	4,000 PSI (min.)

The proportions listed are based on the weight of cement and surface dry aggregates with a bulk specific gravity of 2.65 for sand with a fineness modulus of 2.70 and trap rock with a specific gravity of 2.90.

Portland cement shall be Type II or IIA and shall comply with AASHTO M-85. Type III or IIIA may not be used except as directed by the Engineer for special conditions. All cements must meet requirements of ASTM C-150. Should air entraining cement be used, it must be capable of producing entrained air within the specified limits without air entraining admixtures.

The air entraining agent used shall be of the vinsol resin type and shall conform to Form 817, Sections M.03.01-5. The air entraining agent shall be added to the mixing water prior to its addition to the mix, for non-air entrained cement mixes only. Air entraining agent may not be used with air entrained cement.

All Portland cement concrete used shall be "ready-mixed concrete", (Portland cement concrete manufactured for delivery to a purchaser in a plastic state and delivered to the job site suitably mixed for placing in the work). Ready-mixed concrete shall either be mixed completely at a central mix plant and transported to the job in a truck mixer operating at agitator speed or mixed completely in a truck mixer while in transit or at the point of delivery. Ready-mixed concrete shall be obtained from suppliers approved by the Inspector. Batching equipment, stationary mixes and truck mixers shall conform to the requirements of Form 817, Section 4.01.03 and Section 6.01.03, as applicable, and be in good condition and operated as designated by the manufacturer. The concrete shall be discharged at the site of the work in a thoroughly mixed and uniform mass of the consistency and workability required without the use of additional mixing water. The slump of the concrete at and during discharge at the work site shall be three (3) inches or less.

As determined in accordance with AASHTO T-119, discharge of the batch shall be complete within one hour of the addition of water to the mix. Concrete delivered in outdoor temperatures lower than 40° F shall be discharged at the work site having a temperature not less than 60° F nor greater than 90° F. Every load of concrete delivered to the job site shall have a ticket clearly marked indicating the proportion of the batch and stamped by a time clock indicating the time the batch was placed in the truck mixer. This ticket shall be presented to the Inspector on the job prior to beginning discharge. Additional water for tempering will be added to the mix only on direction of the Inspector. The concrete supplier shall guarantee proper frequency of delivery to allow conformance with placing requirements of these specifications.

Failure to conform to this specification will result in the rejection of the nonconforming load(s). Rejected loads that have been modified will not be accepted. Repeated failure of a supplier to conform to this specification will result in loss of approval by the Engineer as an approved source of material for construction within the Town.

Premolded Joint Material:

Premolded joint material shall be Kork Pak, Proflex Reflex, or equivalent approved by the Engineer.

Curing Materials:

Waterproof paper shall be double sheet, bituminous cemented Kraft Paper, reinforced in both directions and conforming to the requirements of AASHTO M-139.

Polyethylene (i.e. Plastic) Sheeting shall not be allowed except to cover the waterproof paper in case of inclement weather.

Curing Compound:

Liquid membrane-forming compound shall be white pigmented and conform to Form 817, Section M.03.04.

Dowels:

Dowels shall be 5/8-inch diameter x 18-inch long intermediate grade steel conforming to AASHTO M-38 and shall be smooth. Speed Dowel plastic sleeve or approved equal to cover one end of the dowel shall be 12-inches long by 5/8-inch diameter.

Wire Mesh Reinforcing:

Wire mesh reinforcing shall be cold-drawn steel wire conforming to the requirements of AASHTO M-32 and M-35, and shall be welded steel, number 8 wire, spaced 6 inches by 6 inches, both ways. All 8 inch concrete walks, driveways ramps, and sidewalk ramps shall be reinforced.

Detectable Warning Strips:

Detectable warning strips shall be prefabricated cast-in-place truncated dome detectable warning surface tiles and shall be listed on the Connecticut Department of Transportation's Qualified Products List. The color shall be brick red and approved by the Engineer.

Turf Establishment:

Refer to the Turf Establishment technical specification.

Construction Methods

Excavation:

All proposed 5 and 8 inch thick concrete sidewalks shall be excavated 15 inches below and parallel to the finished grade of the walk. Excavation shall extend 6 inches outside the edges of the proposed sidewalk. Ledge rock encountered within 15 inches of the finished walk grade shall be removed.

For new sidewalk installations, the subgrade shall be compacted by at least 2 passes of a motor driven vibratory compactor; should the subgrade appear soft and yielding, this material shall be removed to firm ground with a maximum depth of 24 inches below finished grade as ordered by the Engineer. The subgrade shall then be compacted again as specified.

Subbase:

Subbase, if required by the Engineer shall be bank run gravel. The subbase shall be placed in maximum 4 inch lifts and compacted with a minimum of 2 passes with a motor drive vibratory compactor.

Base:

The processed aggregate base material shall be placed in two even lifts, the full width of the excavation, and shall be compacted to the satisfaction of the Inspector with at least 2 passes of a motor driven vibratory compactor. Base should extend 6 inches beyond the outside edges of the walk. Additional fine material shall be added to fill any voids that may have developed during compaction and to bring the completed base to true line and cross section 5 or 8 inches below and parallel to the finished grade of the sidewalk.

Forms:

Forms shall be of metal or wood, straight, free from warp and of sufficient strength to resist springing from the pressure of the concrete. Wood forms for 5 inch thick sidewalks shall be 2 inch by 6 inch smooth surfaced plank, except that at sharp curves, thinner material may be used. Forms for 8 inch thick sidewalks and ramps shall be 8 inches deep. Metal forms shall be of section approved by the Inspector, and shall have a flat surface on the top. Forms shall be of a depth equal to the depth of the sidewalk. Forms shall be securely staked, braced and held firmly to the required line and grade; special care shall be taken to maintain the proper shape of all curves. Forms shall remain in place for at least 24 hours after finishing of concrete. No stakes or bracing shall project above the top of the form. Forms shall be sufficiently tight to prevent leakage of concrete. All forms shall be cleaned and oiled before concrete is placed against them. Sheet metal templates, 1/4 inch thick of the full depth and width of the sidewalk, shall be placed at every expansion joint or as ordered by the Inspector. If concrete is placed in alternate sections, these templates shall remain in place until concrete has been placed on both sides of the templates. As soon as the concrete has obtained its initial set, the template shall be removed.

Concrete Placement:

The Contractor shall give the Inspector assigned to the work a 24 hour notice before placing concrete. All expansion joints and other embedded material items shall be in place, and all necessary placing and finishing tools, and all curing and protection materials shall be on the job prior to commencement of placing concrete. Before the concrete is placed, the subbase shall be thoroughly dampened so that it is moist throughout, but without puddles of water. Concrete shall be placed as near to its final position as practicable, and precautions shall be taken not to overwork the concrete while it is still plastic. The concrete shall be uniformly placed along the forms or screens. The concrete shall be placed in one course and struck off as hereinafter specified to the required graded cross section. The top shall be struck off by use of a suitable screed resting on the forms or screed support to the required grade and cross section.

Concrete Finishing:

No concrete finishing shall be performed while free water is present; finishing operations shall be delayed until all bled water and water sheen have left the surface and the concrete has started to set. Dusting the surface with cement to promote drying will not be permitted.

After water sheen has disappeared, all exposed sidewalk edges, and edges on each side of expansion joints shall be finished with a ¼ inch radius edging tool. Transverse dummy joints shall be formed by cutting a slot in the concrete, 1 inch deep. The slot may be cut by a 1 inch deep T-bar forced into the fresh concrete or by a 1 inch bit jointer held against a straight edge. After the concrete has partially hardened, the joint shall be edged with a

jointer having a 1 inch bit and ¼ inch fillets held against a straight edge to make a clean straight joint. All other dummy joints in the sidewalk shall be treated as above specified for transverse dummy joints. All completed dummy joints shall be 1 inch deep.

After completing the jointing operation, the surface shall be floated with a wood float. In very warm weather, care shall be taken to prevent final set by shading until all finishing operations have been performed. If necessary, all tooled joints shall be rerun after floating to maintain uniformity. After floating, the surface shall be brushed by drawing a soft bristled push broom, across the entire sidewalk width, perpendicular to the direction of pedestrian traffic, with a long handle over the surface of the concrete to produce a non-slip surface. "Picture frame" finishes shall NOT be provided. A rain spattered finish will not be acceptable. Forms shall not be stripped for at least 24 hours after completion of finishing; care shall be taken to not damage the green concrete during stripping of forms.

Joints:

Transverse dummy joints shall be constructed at a longitudinal spacing equal to the width of the sidewalk but not over 5 feet apart; or to match adjoining sidewalk. Doweled transverse expansion joints shall be constructed to replace every third dummy joint and at change of sidewalk thickness. Dowels are also to be installed between new and existing concrete slabs. Where new or repaired walks abut existing concrete sidewalks, the Contractor shall drill holes measuring 3/4 inch in diameter and 12 inches deep into the existing concrete slab. Transverse expansion joints shall be 1/2 inch thick by the depth of concrete (5 or 8 inches), premolded joint material and shall have 5/8 inch diameter by 24 inches long dowels spaced as shown in the details or as ordered by the Inspector. One end of each dowel shall be set in a 12 inch long, 5/8 inch inside diameter Speed Dowel plastic sleeve. The Contractor is to ensure that the expansion joint is kept straight and perpendicular to the forms by use of a steel or wood spacer drilled to accommodate the dowels. Dowels are to be centered vertically in the slab. In areas where dowels are not specified, premolded joint material shall be 1/4 inch thick.

Isolation joints, 1/4 inch by the depth of the concrete (5 or 8) inches, premolded joint material shall be used between the sidewalk being constructed and existing concrete sidewalks, entrance walkways, building foundations, retaining walls, light pole bases, vaults, manholes and all similar structures. Where dowels are specified, the premolded joint material shall be 1/2 inch thick. Utility poles, hydrants, traffic signal appurtenances, gate boxes and similar installations located in the sidewalk area shall be separated from the main sidewalk by isolation joints of suitable pattern as ordered by the Inspector. No transverse dummy joint, or expansion joint, shall be located within 12 inches of any structure in the sidewalk.

For repair work, all joints shall be similar in pattern to the joints in the adjacent existing sidewalk.

All concrete areas, wider than the normal sidewalk width, will have isolation joints limiting the size of the continuous slab to a maximum of 144 square feet.

Detectable Warning Strips:

Detectable warning strips for new construction shall be set directly in poured concrete according to the plans and the manufacturer's specifications, or as directed by the Engineer.

The Contractor shall place 2-25 pound concrete blocks or sandbags on each tile to prevent the tiles from floating after installation in wet concrete.

The Contractor is responsible for removing any material splatters or debris and repairing any damage to the existing sidewalks arising from the installation of the tile.

Concrete Curing:

In case of inclement weather, a forecast of inclement weather, or when ordered by the Engineer, immediately following the final finishing and as soon as possible without marring the surface, the concrete shall be covered with waterproof paper. The waterproof paper shall extend at least 12 inches beyond the edge of the sidewalk and, if required, shall be lapped a minimum of 6 inches. It shall be held down on all edges and laps by continuous wood planks or piles of sand. Use of rocks or broken concrete will not be permitted. The paper shall not be removed for at least 72 hours.

Curing methods shall conform to Form 817, Section 4.01.03 (f-7).

Wire Mesh Reinforcing:

Wire mesh shall be installed in all 8 inch thick concrete. Wire mesh is not required for 5 inch thick concrete. The mesh shall be placed 4 inches below the required finished grade and all adjacent sections of the mesh shall be lapped 8 inches and tied together with wire, spaced not over 24 inches on centers to prevent displacement. Wire mesh shall be continuous transversely between sides of the sidewalk. No more than two pieces of wire mesh may be used per 10 longitudinal feet of sidewalk. Scrap pieces of wire mesh shall not be placed in the sidewalk but shall be disposed of by the Contractor. Wire mesh shall not be placed within 2 inches of sidewalk edges or isolation joints. The concrete shall be placed 4 inches deep and struck off to a reasonably true grade prior to placing the wire mesh and the final 4 inches of concrete. Wire mesh, if supplied in rolls, shall be cut to the proper size and flattened out prior to placement in the concrete.

Cold Weather Concrete:

No portland cement concrete shall be placed when the air temperature is 40° F or below. When, in the opinion of the Engineer, the condition of the weather is such that any concrete, which has not been completely cured is liable to become frozen, such concrete shall be protected using suitable blanketing materials approved by the Engineer to prevent freezing of the concrete. During the period of time of such protection, the Contractor shall be responsible for the quality and strength of the concrete placed during cold weather and any concrete damaged by frost action shall be removed and replaced at the Contractor's expense.

Measurement and Payment

Measurement and payment for this item will be based on the number of square feet of Concrete Sidewalks, Concrete Driveway Ramps, and Concrete Sidewalk Ramps completed and accepted in place. Detectable warning strips shall not be paid separately, but shall be included with the 8" Thick Concrete Sidewalk Ramp item. Bank Run Gravel, if used, shall be paid under its own item.

ITEM	UNIT
5" Thick Concrete Sidewalk	Square Foot
8" Thick Concrete Sidewalk	Square Foot
8" Thick Concrete Driveway Ramp	Square Foot
8" Thick Concrete Sidewalk Ramp	Square Foot

SIDEWALK PAVER

Description

This item includes the furnishing of all labor, materials, tools, and equipment necessary to install or remove and reset concrete and other types of sidewalk pavers.

This item also includes the excavation, removal, and disposal of the material where the paver work will occur including existing sidewalk, driveway ramp, and sidewalk ramp materials, any additional excavated material, installation of processed aggregate base material, restoration of disturbed or damaged lawn areas or driveway areas within onw foot from the paver edge.

Prior to the placement of pavers, adjustments of all public and private frames, grates, covers, and utility boxes shall be completed as directed by the Engineer.

Materials

Concrete Pavers:

Concrete pavers shall be 6 centimeters thick (2-3/8 inch) "Uni-Décor", Beacon Hill Blend concrete blocks manufactured by Pavers by Ideal or as ordered by the Engineer. <http://www.idealconcreteblock.com/product-details/items/uni-decor.html>

Filter Fabric:

Filter fabric conforming to Form 817, Section M.08.01.19 shall be used when dry setting the concrete pavers.

Base Material:

The base material shall be medium gradation processed aggregate base. Coarse and fine aggregates shall be combined and mixed by approved methods so that the resulting material shall conform to the following gradation requirements:

Percent Passing by Weight

<u>Square Mesh Sieves</u>	<u>Medium Gradation</u>
2-1/4"	-
2"	-
1-1/2"	100
1"	90 – 100

3/4"	75 – 100
1/4"	30– 60
#40	10 – 25
#100	3 - 12

Coarse aggregate shall be broken stone. When tested by means of the Los Angeles Abrasion Machine, using AASHTO Method T 96, the coarse aggregate shall not have a loss of more than 50 percent. Broken stone shall consist of sound, tough, durable fragments of rock of uniform quality throughout. It shall be free from soft, disintegrated pieces, mud, dirt, organic, and other injurious material.

Gravel or reclaimed miscellaneous aggregate will not be accepted as an alternative for processed aggregate.

The fine aggregate shall conform to Form 817, Section M.05.01-3.

Leveling Course:

The leveling course for dry set concrete pavers shall be sand.

Joint Filler:

The paver joints shall be filled with either commercial grade crushed stone dust, masonry sand, or commercial grade polymeric stabilizing sand, as directed by the Engineer.

Edge Restraints:

Edge restraints shall be snap-edge Pave Tech – Pave Edge, or approved equivalent.

Turf Establishment:

Refer to the Turf Establishment technical specification.

Construction Methods

Subbase:

Subbase, if required, shall be placed in maximum 12 inch lifts and compacted with a minimum of 2 passes with a motor drive vibratory compactor.

Base:

The processed aggregate base material shall be placed in two 4 inch lifts, the full width of the excavation, and shall be compacted to the satisfaction of the Inspector with at least 2 passes of a motor driven vibratory compactor. Base should extend 3 to 6 inches beyond the outside edges of the walk. Additional fine material shall be added to fill any voids that may have developed during compaction and to bring the completed base to true line and cross section 5 or 8 inches below and parallel to the finished grade of the sidewalk.

There shall be no expansion joint between the concrete sidewalks and the concrete pavers. Transverse expansion joints in the concrete sidewalks shall be carried through the concrete base and the concrete pavers. The transverse expansion joints shall also be carried through the concrete pavers. An expansion joint shall be made between the granite curb and concrete paver face.

Pavers shall be installed on 8 inches of compacted processed aggregate with filter fabric placed on top of the aggregate. The leveling course on top of the filter fabric shall consist of a minimum ¾ inches (maximum 1 inch) of compacted crushed stone dust.

When placed, the concrete pavers shall tightly abut each other. Exposed edges of the concrete pavers shall be set on a plastic angle edge restraint. Final setting of the concrete pavers shall be with a plate compactor taking care to have sufficient material so as to not damage the concrete pavers. If directed by the Engineer, the paver area shall be flushed with water to ensure that joints have been filled. Any area showing gaps in the joints shall be compacted again and appropriately swept, misted, or flushed.

If the polymeric sand manufacturer specifies a water mist for setting the joints, all the concrete pavers and adjacent areas shall be swept clear of all polymeric sand residue.

Measurement and Payment

Measurement and payment for this item will include all labor, materials, tools, and equipment necessary for the square foot of Paver Installation or Remove and Reset Paver complete and accepted in place.

ITEM	UNIT
Paver Installation	Square Foot
Remove and Reset Paver	Square Foot

CATCH BASIN AND YARD DRAIN

Description

This item includes the furnishing of all labor, materials, tools, and equipment necessary to furnish and install new catch basins, yard drains, catch basin tops, and reset catch basin and yard drains as directed by the Engineer. This item includes the sawcutting, excavation, and disposal of existing catch basins, catch basin tops, yard drains, and unsuitable material. It also includes any necessary backfill material, frames, grates, tops, covers, pipe stubs, connectors for re-establishment of pipe connections, and restoration of pavement areas within one foot of the drainage structure.

Materials

Backfill Material:

The backfill material shall be medium gradation processed aggregate material.. Coarse and fine aggregates shall be combined and mixed by approved methods so that the resulting material shall conform to the following gradation requirements:

Percent Passing by Weight

<u>Square Mesh Sieves</u>	<u>Medium Gradation</u>
2-1/4"	-
2"	-
1-1/2"	100
1"	90 – 100
3/4"	75 – 100
1/4"	30– 60
#40	10 – 25
#100	3 - 12

Coarse aggregate shall be broken stone. When tested by means of the Los Angeles Abrasion Machine, using AASHTO Method T 96, the coarse aggregate shall not have a loss of more than 50 percent. Broken stone shall consist of sound, tough, durable fragments of rock of uniform quality throughout. It shall be free from soft, disintegrated pieces, mud, dirt, organic, and other injurious material.

Gravel or reclaimed miscellaneous aggregate will not be accepted as an alternative for processed aggregate.

The fine aggregate shall conform to Form 817, Section M.05.01-3.

Catch Basin:

All catch basins shall be single structures that are less than 10 feet deep with Type "C" or "CL" tops and two foot sumps. Type "C" catch basin tops shall have the message "Drains to Watercourse" stamped on top of the concrete curb section. The catch basin frame and grate shall be galvanized.

Yard Drain:

All yard drains shall be less than 5 feet deep, 12 inch diameter, ADS Nyloplast or approved equal.

Construction Methods

Catch basins and Yard Drains

Pipe ends shall extend to and be cut flush with interior wall. The edges of pipes shall be mortared to cover the reinforcing.

The Contractor shall not reuse backfill material. Backfill for all catch basins and yard drains shall be new processed aggregate stone. The Contractor shall prepare and level the base with a minimum depth of 8 inches of processed aggregate.

The Contractor shall achieve a minimum compaction density of 95% of the dry density achieved by ASHTO T180, Method D. Water may be used in combination with mechanical methods on lifts which shall not exceed 12 inches. During compaction, care should be taken to avoid damaging the structure.

The interior floors and sumps shall be cleaned prior to acceptance.

Precast Units

All precast concrete products must have the casting date clearly labeled on each product. No precast concrete product shall be delivered to the site within the 7 day period following the casting date.

All weakened areas or knockouts that are not used shall be bricked and mortared to maintain design wall thickness.

Riser sections shall have sealed connections as recommended by the manufacturer and approved by the Engineer. Precast sections shall contain knockouts or weakened wall sections only at the required locations for pipes.

The exterior joints of precast catch basins shall be wrapped with geotextile covering at least 12 inches on both sides of the joint.

Measurement and Payment

Measurement and payment for this item will include all labor, materials, tools, and equipment necessary for the number of Catch Basin, Yard Drain, Catch Basin Top, Reset Catch Basin, Reset Yard Drain including furnishing, sawcutting, excavating, material disposal, backfilling, connections, and restoration completed and accepted in place.

ITEM	UNIT
Catch Basin	Each
Yard Drain	Each
Catch Basin Top	Each
Reset Catch Basin	Each
Reset Yard Drain	Each

UNDERDRAIN

Description

This item includes the furnishing of all labor, materials, tools, and equipment necessary to furnish and install 6 inch perforated high density polyethylene piping. This item also includes the excavation, disposal of excavated material, pipe connections, backfill material, and tracing wire.

Materials

Stone Backfill

1/4 inch crushed stone backfill material shall meet the requirements of Form 817, Section M.08.01.19.

Geotextiles

Trench fabric shall meet the requirements of Form 817, Section M.08.01.19.

Pipe:

The perforated pipe shall be ADS high density polyethylene or approved equal.

Tracing Wire

The pipe shall have number 10 solid tracing wire, XLP USE.

Construction Methods

The Contractor shall excavate a trench 18 inches wide and 24 inches deep on average to install and connect the underdrain piping as directed by the Engineer. Number 10 tracing wire shall be attached to all underdrain piping. If required by the Engineer, the Contractor shall place trench fabric around the 1/4 inch crushed stone backfill and approximately four inches below finished grade and cap the trench with loam and seed.

Measurement and Payment

Measurement and payment for this item will be based on the linear foot of Underdrain furnished, installed, and accepted in place.

ITEM	UNIT
Underdrain	Linear Foot

GRANITE CURB

Description

This item includes the furnishing of all labor, materials, tools, and equipment necessary to furnish and install and remove and reset granite curb.

This item also includes the asphalt sawcutting, excavation, removal, and disposal of the material where the granite work will occur including existing curb and any excavated material, installation of processed aggregate base material, joint mortaring, concrete joint backing, and backfill within one foot of the back of curb.

Materials

Bank Run Gravel:

Bank run gravel shall conform to Form 817, Section M.02.02 and M.02.06.

Base Material:

The base material shall be medium gradation processed aggregate base. Coarse and fine aggregates shall be combined and mixed by approved methods so that the resulting material shall conform to the following gradation requirements:

<u>Square Mesh Sieves</u>	<u>Medium Gradation</u>
2-1/4"	-
2"	-
1-1/2"	100
1"	90 – 100
3/4"	75 – 100
1/4"	30– 60
#40	10 – 25
#100	3 - 12

Coarse aggregate shall be broken stone. When tested by means of the Los Angeles Abrasion Machine, using AASHTO Method T 96, the coarse aggregate shall not have a loss of more than 50 percent. Broken stone shall consist of sound, tough, durable fragments of rock of uniform quality throughout. It shall be free from soft, disintegrated pieces, mud, dirt, organic, and other injurious material.

Gravel or reclaimed miscellaneous aggregate will not be accepted as an alternative for processed aggregate.

The fine aggregate shall conform to Form 817, Section M.05.01-3.

Granite Curb:

New granite curb shall conform to the requirements of Form 817, Section M.12.06.1. All existing curb which deemed acceptable to the Engineer shall be reused.

Concrete:

Class "A" or Class "F" concrete shall meet the requirements of Form 817, Section M.03.01.

Joint Mortar:

Joint mortar shall meet the requirements of Form 817, Section M.11.04.

Construction Methods

Excavation:

The Contractor shall sawcut 2 feet away from the proposed face of curb for a depth of at least 3 inches and remove the asphalt. The Contractor shall then excavate where the curb will be installed to a depth of 18 inches below the bottom of the proposed curb and a minimum of 18 inches wide.

Granite Curb Installation:

Installation of new granite curb shall conform to the requirements of Form 817, Section 8.13.03, Except:

Section 8.13.03.2, For straight curbing, all stones shall be 6 feet or greater in length unless approved by the Engineer. All curb joints shall be pointed with mortar.

Granite Curb Remove and Reset:

Reset of existing curb shall conform to the requirements of Form 817, Section 8.14.03. The curb to be reset shall be removed with care to avoid damage and, if ordered, shall be transported to a point or points on the project which will allow all the reset curb to be installed in continuous lines. Curb removed and not reset shall remain the property of the Town unless otherwise ordered by the Engineer.

Backfill:

Processed aggregate shall be used as a bedding material under and around the granite curb and shall be installed in no more than 6 inch compacted lifts. Concrete shall be used as backing of joints for straight granite curb sections and as bedding and backing of joints for the curved granite curb.

Bank run gravel shall be placed as backfill on top of the processed aggregate up to 12 inches behind the curb and to 4 inches below finished grade.

Topsoil shall be placed on top of the bank run gravel to finished grade. Refer to the Turf Establishment technical specification.

Measurement and Payment

Measurement and payment for this item will be based on the number of linear feet of 5 inch by 16 inch or 6 inch by 18 inch Straight or Curved Granite Curb installed and Straight or Curved Granite Curb Removed and Reset completed and accepted in place.

ITEM	UNIT
5 inch by 16 inch Straight Granite Curb	Linear Foot
5 inch by 16 inch Curved Granite Curb	Linear Foot
6 inch by 18 inch Straight Granite Curb	Linear Foot
6 inch by 18 inch Curved Granite Curb	Linear Foot
Granite Curb Remove and Reset	Linear Foot

CONCRETE CURB

Description

This item includes the furnishing of all labor, materials, tools, and equipment necessary to furnish and install and remove and reset precast concrete curb.

This item also includes the asphalt sawcutting, excavation, removal, and disposal of the material where the concrete curb work will occur including existing curb and any excavated material, installation of processed aggregate base material, joint filling, concrete joint backing, and backfill within one foot of the back of curb.

Materials

Bank Run Gravel:

Bank run gravel shall conform to Form 817, Section M.02.02 and M.02.06.

Base Material:

The base material shall be medium gradation processed aggregate base. Coarse and fine aggregates shall be combined and mixed by approved methods so that the resulting material shall conform to the following gradation requirements:

Percent Passing by Weight

<u>Square Mesh Sieves</u>	<u>Medium Gradation</u>
2-1/4"	-
2"	-
1-1/2"	100
1"	90 – 100
3/4"	75 – 100
1/4"	30– 60
#40	10 – 25
#100	3 - 12

Coarse aggregate shall be broken stone. When tested by means of the Los Angeles Abrasion Machine, using AASHTO Method T 96, the coarse aggregate shall not have a loss of more than 50 percent. Broken stone shall consist of sound, tough, durable fragments of rock of uniform quality throughout. It shall be free from soft, disintegrated pieces, mud, dirt, organic, and other injurious material.

Gravel or reclaimed miscellaneous aggregate will not be accepted as an alternative for processed aggregate.

The fine aggregate shall conform to Form 817, Section M.05.01-3.

Dowels:

Dowels shall be 5/8-inch diameter x 6-inch long intermediate grade steel conforming to AASHTO M-38 and shall be smooth. Speed Dowel plastic sleeve or approved equal to cover one end of the dowel shall be 6-inches long by 5/8-inch diameter.

Concrete Curb:

New Concrete curb shall conform to the requirements of Form 817, Section M.08.02-4. All existing curb which deemed acceptable to the Engineer shall be reused.

Concrete:

Class "A" or Class "F" concrete shall meet the requirements of Form 817, Section M.03.01.

Joint Mortar:

Joint mortar shall meet the requirements of Form 817, Section M.11.04.

CONSTRUCTION METHODS

Excavation:

The Contractor shall sawcut 2 feet away from the proposed face of curb for a depth of at least 3 inches and remove the asphalt. The Contractor shall then excavate where the curb will be installed to a depth of 18 inches below the bottom of the proposed curb and a minimum of 18 inches wide.

Concrete Curb Installation:

Installation of new concrete curb shall conform to the requirements of Form 817, Section 8.11.

Concrete Curb Remove and Reset:

Reset of existing concrete curb shall conform to the requirements of Form 817, Section 8.11. The curb to be reset shall be removed with care to avoid damage and, if ordered, shall be transported to a point or points on the project which will allow all the reset curb to be installed in continuous lines. Curb removed and not reset shall remain the property of the Town unless otherwise ordered by the Engineer.

Backfill:

Processed aggregate shall be used as a bedding material under and around the concrete curb and shall be installed in no more than 6 inch compacted lifts. Concrete shall be used as backing of joints for straight concrete curb sections and as bedding and backing of joints for the curved concrete curb.

Bank run gravel shall be placed as backfill on top of the processed aggregate up to 12 inches behind the curb and to 4 inches below finished grade.

Topsoil shall be placed on top of the bank run gravel to finished grade. Refer to the Turf Establishment technical specification.

MEASUREMENT AND PAYMENT

Measurement and payment for this item will be based on the number of linear feet of 8 inch by 18 inch Straight or Curved Concrete Curb installed and Straight or Curved Concrete Curb Removed and Reset completed and accepted in place.

ITEM	UNIT
8 inch by 18 inch Straight Concrete Curb Installation	Linear Foot
8 inch by 18 inch Curved Concrete Curb Installation	Linear Foot
Concrete Curb Remove and Reset	Linear Foot

ASPHALT SIDEWALK, PATHWAY, DRIVEWAY

Description

This item includes the furnishing of all labor, materials, tools, and equipment necessary to construct asphalt sidewalks, pathways, and driveways.

This item also includes any asphalt sawcutting, excavation, removal, disposal of the material where the asphalt paving work will occur including existing sidewalk, installation of processed aggregate base material, restoration of disturbed or damaged lawn areas, or pavement areas within one foot of the paving limit, and joint sealer. Prior to the placement of asphalt, all work shall be complete and include, but not be limited to, the adjustments of all public and private frames, grates, covers, and utility boxes.

Materials

Construction materials shall conform to Form 817, Section 9.22.02, except:

Subbase Material:

Suitable subbase material shall be the same as the base material specified below or bank run gravel meeting the applicable provisions of Form 817, Section M.02.02.1 as approved by the Engineer. Bank run gravel will be paid as a separate item.

Base Material:

The base material shall be medium gradation processed aggregate base. Coarse and fine aggregates shall be combined and mixed by approved methods so that the resulting material shall conform to the following gradation requirements:

Percent Passing by Weight

<u>Square Mesh Sieves</u>	<u>Medium Gradation</u>
2-1/4"	-
2"	-
1-1/2"	100

1"	90 – 100
3/4"	75 – 100
1/4"	30– 60
#40	10 – 25
#100	3 - 12

Coarse aggregate shall be broken stone. When tested by means of the Los Angeles Abrasion Machine, using AASHTO Method T 96, the coarse aggregate shall not have a loss of more than 50 percent. Broken stone shall consist of sound, tough, durable fragments of rock of uniform quality throughout. It shall be free from soft, disintegrated pieces, mud, dirt, organic, and other injurious material.

Gravel or reclaimed miscellaneous aggregate will not be accepted as an alternative for processed aggregate.

The fine aggregate shall conform to Form 817, Section M.05.01-3.

Asphalt:

Hot Mix Asphalt shall be S0.375 or Class 2 and shall conform to Form 817, Section M.04.

Tack Coat:

Tack coat shall conform to Form 817, Section M.04.01.

Joint Sealer:

Joint sealer shall be AC-20 or approved equal.

Turf Establishment:

Refer to the Turf Establishment technical specification.

Construction Methods

Asphalt Sidewalks, Pathways, and Driveways:

All asphalt sidewalk and driveway construction shall be excavated or filled to within 10 inches below finished grade and extended 3 inches minimum beyond the outside edges of the proposed sidewalk or driveway.

The subgrade shall be properly graded to form a uniform base, and shall follow a true line and cross-section 10 inches below the finished grade. Any material, which, in the opinion of the Engineer, is unsuitable to receive the base material, shall be excavated, removed, disposed and replaced with suitable subbase material and compacted as approved by the Engineer. Leveling material used to fill ruts, holes or irregularities in the subbase is the responsibility of the Contractor and is considered part of this item. Subbase, if required, shall be bank run gravel placed in maximum 4 inch lifts and compacted with a minimum of 2 passes with a motor drive vibratory compactor.

The base shall be 8 inches of processed aggregate base and shall be compacted in two 4 inch lifts utilizing a roller weighing a minimum of 2,000 pounds. Compaction shall be uniform and the surface of the base shall follow a true line and cross section 2 inches below the finish grade.

At any point where new pavement will match existing pavement, the existing pavement shall be sawcut vertically to a smooth edge and a tack coat shall be applied to the smooth edge, and after placement of the pavement, the joint shall be sealed with a hot asphalt material, AC-20 or approved equivalent. Hot mix asphalt shall be placed, and compacted to a depth of 2 inches using a roller weighing a minimum of 2,000 pounds.

Driveways shall be installed full width, with no cold joints, unless prior approval is granted by the Engineer to install driveways in sections.

Measurement and Payment

Measurement and payment will include all labor, materials, tools, and equipment necessary for the number of square yards of Asphalt Paving including base material completed and accepted in place. Measurement and payment for Tack Coat shall be based on the number of gallons installed. Bank run gravel, if required, will be paid as a separate item.

ITEM	UNIT
Asphalt Sidewalk, Pathway, Driveway	Square Yard
Tack Coat	Gallon

ASPHALT PAVING

Description

This item includes the furnishing of all labor, materials, tools, and equipment necessary to perform asphalt paving.

Materials

Asphalt:

Hot Mix Asphalt shall be S0.375 or Class 2.

Tack Coat:

Tack coat shall conform to Form 817, Section M.04.01.

Construction Methods

The Contractor shall place 1-1/2 inches of compacted S0.375 or Class 2 asphalt as directed by the Engineer. Compaction methods and efforts will also be as directed by the Engineer.

Measurements and Payment

Measurement and payment for this item will include all labor, materials, tools, and equipment necessary for the number of square feet of Asphalt Paving By Hand or Asphalt Paving With Equipment completed and accepted in place. Measurement and payment for Tack Coat shall be based on the number of gallons installed.

ITEM	UNIT
Sidewalk Paving By Hand	Square Foot
Sidewalk Paving With Equipment	Square Foot
Tack Coat	Gallon

TURF ESTABLISHMENT

Description

This item includes the furnishing of all labor, materials, tools, and equipment necessary to establish turf.

Materials

Loam

The loam shall comply with the requirements of Form 817, Section M.13.01, except that the loam shall be free from rocks and stones greater than 3/4 inch. Loam shall be delivered unfrozen to the job site. No existing loam taken from the site shall be reused without approval of the Engineer.

Fertilizer

Composite commercial fertilizer shall bear the manufacturer's guarantee statement of analysis and meet the minimum requirements of 10% nitrogen, 10% phosphoric acid, 10% potash, with at least 50% of the nitrogen being organically carried.

Seed

Lawn seed shall be fresh, clean and new crop seed composed of the following varieties, mixed in proportion, and passing tests for the minimum percentages of purity and germination indicated:

Seed Mixture			
	Proportion by Weight	Minimum Purity	Minimum Germination
Perennial Rye Grass	50 Parts	98%	90%
Kentucky Blue Grass	20 Parts	85%	75%
Fine Fescue	30 Parts	98%	85%

Sod

The sod shall have a seed mix as recommended by the grower and approved by the Engineer for the specific use of the sod. Sod shall be living sod obtained from a commercial sod farm, and shall be free from noxious weeds, insect infestations, and fungous and bacterial diseases.

The sod shall be cut to a minimum depth of one to one and one-half inches. Agricultural Ground Dolomitic Limestone shall conform to Form 817, Section M.13.02. A commercial grade granular fertilizer shall contain 15% nitrogen, 15% phosphoric acid, and 15% potash, with at least 50% of the nitrogen being organically carried. Stakes for pegging, when shown on the plans, shall be wood, approximately 1 inch x 2 inch and of sufficient length to penetrate the sod and the topsoil to a minimum depth of two inches of subsoil.

Construction Methods

Preparation:

Prior to spreading loam, the area shall be brought to a uniform grade 4 inches minimum below the finished surface or as indicated on the plans. If directed by the Engineer, the subgrade shall be thoroughly pulverized to a depth of at least 3 inches by rototilling, harrowing or by other approved methods.

Loaming:

Loam shall be applied in a 4 inch layer, unless otherwise directed.

Fertilizer:

The fertilizer shall be applied at the rate of 20 pounds per 1000 square feet. Pulverized, dolomitic, agricultural limestone shall be spread at a rate of 46 pounds per 1000 square feet.

Seeding and Hydroseeding:

Seeding and hydroseeding shall only be done from March 15th to June 15th or from August 15th to October 15th. Seeding at other times shall be done only when ordered or approved by the Engineer.

The grass seed shall be applied at the rate of 6 pounds per 1000 square feet. The seeded area shall be mulched with a layer of grass hay or straw at the rate of 10 pounds per 100 square feet, and in lieu of an approved mulch, shall be thoroughly watered each day until satisfactory growth has been established. After establishment of the turf in the spring, weed control shall be applied per the manufacturer's recommendation.

Hydroseed shall be applied at a rate of 25-40 pounds per 1000 square feet. (40 lbs. per 1000 square feet for slopes greater than 2 to 1). After establishment of the turf in the spring, weed control shall be applied per the manufacturer's recommendation. The Contractor is responsible for one mowing at the direction of the Engineer.

Sodding

Live sod shall be installed in conformance with Form 817, Section 9.53.03. The fertilizer and or lime shall be applied at a rate as per the sod supplier's recommendation.

Warranty

The Contractor is responsible for the establishment of grass as approved by the Engineer. If required, or as directed by the Engineer, the newly seeded or hydroseeded area shall be watered by the Contractor, as required, until a uniform stand of grass has been established.

The Contractor shall warrant the work for one year following the planting. Any bare areas shall be reestablished by the Contractor at the Contractor's expense.

Measurement and Payment

Measurement and payment for this item will be based on the number of square yards of Turf Establishment completed and accepted in place.

ITEM	UNIT
Loam and Seed	Square Yard
Loam and Hydroseed	Square Yard
Loam and Sod	Square Yard

EXCAVATION CREW AND EQUIPMENT

Description

This item includes the furnishing of all labor, materials, tools, and equipment necessary to assist the Town with excavation and material disposal.

This item requires the Contractor to work with a Town crew for installations such as, but not limited to, electrical conduit, handholes, precast concrete light pole bases, parking meters, parking kiosks, and bollards.

Materials

The Contractor will provide and operate one large backhoe, one large dump truck, and compaction equipment. This equipment shall be approved by the Engineer. The Contractor will supply a three person crew including at least one equipment operator, one truck driver, and one laborer.

The Town will supply all appurtenances to install such as electrical conduit, concrete light pole bases, parking meters, parking kiosks, and bollards. The Town will also supply the backfill material to be installed by the Contractor. The Town may provide staff to perform, assist, or direct the excavation and appurtenance installation.

Construction Methods

The Contractor shall provide assistance to the Town by providing equipment and a crew to perform excavation, material disposal, installation, backfill, and compaction of appurtenances such as, but not limited to, electrical conduit, handholes, concrete light pole bases, parking meters, parking kiosks, and bollards.

Measurement and Payment

Measurement and payment for this item will include all labor, materials, tools, and equipment necessary for the hourly operation of an Excavation Crew and Equipment to assist the Town with excavation, material disposal, and appurtenance installation.

ITEM	UNIT
Excavation Crew and Equipment	Hour

RETAINING WALL

Description

This item includes the furnishing of all labor, materials, tools, and equipment necessary to install or reinstall a retaining wall.

This item also includes any sawcutting, excavation, removal of existing wall, base installation, drainage, backfill, and disposal of the material where the retaining wall work will occur.

Materials

Base Material:

The base material shall be medium gradation processed aggregate base. Coarse and fine aggregates shall be combined and mixed by approved methods so that the resulting material shall conform to the following gradation requirements:

Percent Passing by Weight

<u>Square Mesh Sieves</u>	<u>Medium Gradation</u>
2-1/4"	-
2"	-
1-1/2"	100
1"	90 – 100
3/4"	75 – 100
1/4"	30– 60
#40	10 – 25
#100	3 - 12

Coarse aggregate shall be broken stone. When tested by means of the Los Angeles Abrasion Machine, using AASHTO Method T 96, the coarse aggregate shall not have a loss of more than 50 percent. Broken stone shall consist of sound, tough, durable fragments of rock of uniform quality throughout. It shall be free from soft, disintegrated pieces, mud, dirt, organic, and other injurious material.

Gravel or reclaimed miscellaneous aggregate will not be accepted as an alternative for processed aggregate.

The fine aggregate shall conform to Form 817, Section M.05.01-3.

Pipe:

PVC pipe shall conform to Form 817, Section M.08.01.

Concrete:

Class "A" or Class "F" concrete shall conform to Form 817, Section M.03.01.

Concrete Block:

The concrete block shall be Roman Pisa, Rosewood Blend or similar as directed by the Engineer supplied by Pavers by Ideal or approved equal. The wall shall include block components such as straight or curved wall, one-sided bas blocks up to two sections of two sided straight or curved wall top blocks, wall end blocks, and cap blocks.

Natural Stone:

The natural stone shall be a cut granite stone or similar as directed by the Engineer.

Construction Method

Work under this item shall include excavation, dewatering, placement of base material, drainage, concrete block, natural stone, and backfill material. The wall shall have flush cut PVC weep-hole pipes through the wall face as directed by the Engineer.

Measurement and Payment

Measurement and payment for this item will include all labor, materials, tools, and equipment necessary for the square foot installation or reinstallation of a Concrete Block Retaining Wall or a Natural Stone Retaining Wall completed and accepted in place. The wall measurement is the average wall height by the average wall length from the bottom of the lowest layer to the top of the wall.

ITEM	UNIT
Concrete Block Retaining Wall	Square Foot
Natural Stone Retaining Wall	Square Foot

GRANITE BENCH

Description

This item includes the furnishing of all labor, materials, tools, and equipment necessary to install a granite bench.

This item also includes any sawcutting, excavation, removal, and disposal of the material where the bench work will occur including existing bench, sidewalk, and installation of processed aggregate base material.

Materials

Base Material:

The base material shall be medium gradation processed aggregate base. Coarse and fine aggregates shall be combined and mixed by approved methods so that the resulting material shall conform to the following gradation requirements:

Percent Passing by Weight

<u>Square Mesh Sieves</u>	<u>Medium Gradation</u>
2-1/4"	-
2"	-
1-1/2"	100
1"	90 – 100
3/4"	75 – 100
1/4"	30– 60
#40	10 – 25
#100	3 - 12

Coarse aggregate shall be broken stone. When tested by means of the Los Angeles Abrasion Machine, using AASHTO Method T 96, the coarse aggregate shall not have a loss of more than 50 percent. Broken stone shall consist of sound, tough, durable fragments of rock of uniform quality throughout. It shall be free from soft, disintegrated pieces, mud, dirt, organic, and other injurious material.

Gravel or reclaimed miscellaneous aggregate will not be accepted as an alternative for processed aggregate.

The fine aggregate shall conform to Form 817, Section M.05.01-3.

Granite Bench:

The rectangular granite bench will be furnished by the Fletcher Granite Company or approved equal. The granite seat shall be 4 feet long by 1-1/2 feet deep by 1/2 feet thick. The granite supports shall be 1 foot high, 8 inches thick, and 1-1/4 feet deep.

Dowels:

Dowels shall be 3/8 inch diameter by at least 4 inch long intermediate grade steel conforming to AASHTO M-38.

Adhesive:

The Contractor shall apply Loctite PL530 or approved equal adhesive on the bench components and as directed by the Engineer for applications where the bench is installed on concrete or pavers

Construction Methods

The Contractor shall excavate and prepare the bench foundation as directed by the Engineer. The bench seat and supports shall be installed to prevent chips, cracks, or other damage to the granite pieces. Any pieces damaged by the Contractor shall be replaced at the Contractor's expense.

Measurement and Payment

Measurement and payment for this item will include all labor, materials, tools, and equipment necessary for each Granite Bench installed completed and accepted in place.

ITEM	UNIT
Granite Bench	Each

MERESTONE

Description

This item includes the furnishing of all labor, materials, tools, and equipment necessary to install or replace Town-supplied concrete merestones.

This item also includes any sawcutting, excavation, removal, and disposal of the material where the merestone work will occur including existing merestone, sidewalk, and installation of processed aggregate base material. The Town shall provide stakeout and land surveying oversight during the merestone installation.

Materials

Base Material:

The base material shall be medium gradation processed aggregate base. Coarse and fine aggregates shall be combined and mixed by approved methods so that the resulting material shall conform to the following gradation requirements:

Percent Passing by Weight

<u>Square Mesh Sieves</u>	<u>Medium Gradation</u>
2-1/4"	-
2"	-
1-1/2"	100
1"	90 – 100
3/4"	75 – 100
1/4"	30– 60
#40	10 – 25
#100	3 - 12

Coarse aggregate shall be broken stone. When tested by means of the Los Angeles Abrasion Machine, using AASHTO Method T 96, the coarse aggregate shall not have a loss of more than 50 percent. Broken stone shall consist of sound, tough, durable fragments of rock of uniform quality throughout. It shall be free from soft, disintegrated pieces, mud, dirt, organic, and other injurious material.

Gravel or reclaimed miscellaneous aggregate will not be accepted as an alternative for processed aggregate.

The fine aggregate shall conform to Form 817, Section M.05.01-3.

Construction Methods

The Contractor, under the supervision of the Town's land surveyor shall excavate and set each concrete merestone plumb. The top of the merestone will be set flush with the ground unless otherwise directed by the Engineer. Backfill will be thoroughly tamped so as to not allow any lateral movement of the merestone. Any excess materials shall be removed from the site. The Contractor will excavate or auger an area approximately 4 feet deep by 3 feet in diameter.

Measurement and Payment

Measurement and payment for this item will include all labor, materials, tools, and equipment necessary for each Merestone installed including the base material completed and accepted in place.

ITEM	UNIT
Merestone	Each

8.00 EXHIBITS

8.01 Exhibit A - Insurance

8.02 Exhibit B - Traffic Control

EXHIBIT A - INSURANCE

- 8.01.1 The Contractor shall procure insurance coverage against claims that may arise from, or in connection with the performance of the Contractor, his agents, representatives, employees, or subcontractors pursuant to this contract. The insurance coverage shall remain in full force for the duration of the contract term including any and all extensions. The Contractor shall pay the cost of such insurance.
- 8.01.2 For the purpose of Article 8.01: the term "Contractor" shall also include their respective agents, representatives, employees or subcontractors; and the term "Town of West Hartford and West Hartford Board of Education" (hereinafter called the "Owner") shall include their respective boards, commissions, officials, officers, agents, consultants, volunteers and employees.
- 8.01.3 The insurance required by Section 8.01 shall be written for not less than the scope and limits of insurance specified by Subparagraph 8.01.4, or required by applicable federal, state and/or municipal law, regulation or requirement, whichever coverage is greater. It is agreed that the scope and limits of insurance coverage specified by Subparagraph 8.01.4 are minimum requirements and shall in no way limit or exclude the Owner from additional limits and coverage provided under the Contractor's policies. Coverage, whether written on an occurrence or claims-made basis, shall be maintained without interruption from date of commencement of the Work until date of final payment and termination of any coverage required to be maintained after final payment.

8.01.4 Minimum Scope and Limits of Insurance:

.1 Comprehensive General Liability:

\$1,000,000 combined single limit per occurrence for bodily injury, personal injury, property damage, contractual liability and products /completed operations. Contractor shall continue to provide products/completed operations coverage (including blasting operations, if applicable) for two (2) years after completion of the work.

.2 Automobile Liability and Physical Damage Coverage:

\$1,000,000 combined single limit per occurrence for any auto, including statutory uninsured/underinsured motorists coverage and \$1,000 medical payments. Policy shall be endorsed to include collision and comprehensive coverage for any auto used for the purpose of this contract.

.3 Umbrella Liability:

\$1,000,000 per occurrence, \$2,000,000 aggregate, following form.

.4 Workers' Compensation:

Coverage A / Workers' Compensation: statutory limits as required by the Labor Code of the State of Connecticut. Coverage B / Employer's Liability: limits of \$100,000 each accident, \$500,000 disease/policy limit, \$100,000

disease/each employee. If the Contractor decides not to procure workers' compensation in accordance with Connecticut law, the Contractor agrees to comply with the Connecticut Workers' Compensation Act's (Act) requirements for withdrawing from the provisions of the Act, including, but not limited to, filing the appropriate notice of withdrawal with the commissioner. In lieu of procuring workers' compensation insurance and providing the Owner with proof thereof, the Contractor agrees to hold the Owner harmless from any and all suits, claims, and actions arising from personal injuries sustained by the Contractor or Contractor's employees during the course of the performance of this contract, however caused.

.5 Personal Property:

"All risk" property insurance on a replacement cost basis to cover the value of portions of the Work stored on and off the site, or in transit. The insurance shall cover personal property belonging to the Contractor and others (including but not limited to the personal property of subcontractors) located on Owner's property or work-site, while in use or in storage for the duration of the contract. In lieu of providing this coverage the Contractor agrees to hold the Owner harmless for any loss or damage to personal property however caused.

8.01.5 Additional Insured Endorsement:

All liability policies (with the exception of Worker's Compensation) shall include the Town of West Hartford, the West Hartford Board of Education, and their respective officers, agents, officials, employees, volunteers, boards and commissions as an Additional Insured with respect to liability arising out of or in connection with the activities performed by or on behalf of the Contractor; products and completed operations of the Contractor; premises owned, leased, or used by the Contractor; or automobiles owned, leased, hired or borrowed by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to the Owner.

8.01.6 Acceptability of Insurers:

Contractor's policies shall be written by insurance companies licensed to do business in the State of Connecticut, with a Best's rating of no less than A:VII, or otherwise deemed acceptable by the Town's Risk Manager.

8.01.7 Subcontractors:

Contractor's policies shall include all subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverage for subcontractors shall be subject to all of the requirements stated herein.

8.01.8 Waiver of Subrogation:

Contractor shall provide that all insurance policies include a waiver of subrogation clause that states that it is agreed that in no event shall the insurance company have any right of recovery against the Owner. When the Contractor is self-insured, it is agreed that in no event shall the Contractor have any right of recovery against the Owner.

8.01.9 Claims-Made Form:

If the insurance coverage is underwritten on a claims-made basis, the retroactive date shall be prior to or coincident with the date of the contract. The certificate of insurance shall state the retroactive date and that the coverage is claims-made. The Contractor shall maintain coverage for the duration of the contract and for the two (2) years following the completion of the contract. Evidence of such coverage shall be provided to the Owner thirty (30) days prior to each policy expiration.

8.01.10 Aggregate Limits:

If a general aggregate is used, the general aggregate limit shall apply separately to the project or shall be twice the occurrence limit. All aggregate limits must be declared to the Owner. If the aggregate limit is eroded, the Contractor agrees to reinstate or purchase additional limits to meet the minimum limit requirements stated herein. The Contractor shall pay the premium.

8.01.11 Deductibles and Self-Insured Retentions:

Contractor must declare any deductibles or self-insured retentions to the Owner. All deductibles or self-insured retentions are the sole responsibility of the Contractor to pay and/or to indemnify.

8.01.12 Notice of Cancellation or Nonrenewal:

For other than non-payment of premium, each insurance policy required by this exhibit shall be endorsed to state that coverage shall not be suspended, voided, cancelled, or reduced in coverage or in limits except after thirty (30) days prior written notice has been given to the Owner. Ten (10) days prior written notice shall be given for non-payment of premium

8.01.13 Liability (General, Automobile, Umbrella/Excess coverage are to contain the following provisions:

.1 The Contractor's insurance coverage shall be primary insurance with respect to the Owner. Any insurance or self-insurance maintained by the Owner shall be excess of the Contractor's insurance and shall not contribute with it.

.2 Coverage shall state that the Contractor's insurance shall apply separately to each insured against whom a claim is made or suit is brought.

.3 Any failure to comply with the claim reporting provisions of the policy shall not affect coverage provided to the Owner.

8.01.14 Verification of Coverage:

The Contractor shall provide the Owner with certificates of insurance, declaration pages, policy endorsements or provisions confirming compliance with this exhibit before work commences. The certificates and endorsements for each insurance policy are to be signed by a person authorized by the insurer to bind coverage on its behalf. Renewal of expiring certificates shall be filed thirty (30) days prior to expiration. The Owner reserves the right to require complete, certified copies of all required policies, at any time.

All insurance documents required by this exhibit should be mailed to: Town of West Hartford, Risk Management Division, 50 South Main Street, West Hartford, Connecticut 06107.

8.01.15 Failure to Purchase or Maintain Insurance:

If the Owner or the Contractor is damaged by failure of the Contractor to purchase or maintain insurance required by this exhibit, the Contractor shall bear all reasonable costs including, but not limited to, attorney's fees and costs of litigation, properly attributable thereto.

8.01.16 Subrogation:

The Owner does not agree to waive any rights of subrogation, nor any rights of action against the Contractor, in connection with or arising out of any claims or damages which may arise from the operations under the contract.

8.02 EXHIBIT B - TRAFFIC CONTROL

A POLICY REGARDING THE MAINTENANCE AND PROTECTION OF TRAFFIC AND PEDESTRIANS DURING CONSTRUCTION WITHIN STREET RIGHTS OF WAY (REVISED MARCH 2010)

I. GENERAL

- A. The Town of West Hartford shall control all traffic at construction and non-construction work sites within street rights of way located in Town, **including State roads other than Interstate 84 and its ramps**. This shall include work by permit (State or local) and non-construction work (i.e. manhole, overhead line and cable work).
- B. Permits shall be issued by the Division of Engineering, Department of Community Services, or District One of the State of Connecticut Department of Transportation. All permits are subject to review by the Police Department.
- C. All work in the roadway or affecting pedestrian travel shall require placement and/or modification of appropriate traffic control devices as per the most current edition of the Federal Highway Administration's Manual on Uniform Traffic Control Devices or the Connecticut Department of Transportation's Standard Traffic Control Plans. **The use of Police Officers or other personnel does not eliminate this requirement.**
- D. **Detours, stoppages of traffic, and/or alternating traffic patterns require the approval of the Director of Community Services (through the Division of Engineering), at least one week in advance, except in the event of emergency. This is necessary to allow time for review and possible public notification.**
- E. **Existing signs and pavement markings shall not be removed without prior approval of the Engineering Division.**

II. TRAFFIC CONTROL PERSONNEL

- A. West Hartford Police shall control all traffic for construction and non-construction projects on the following arterial and collector streets:

Town Streets

Asylum Avenue
Boulevard
Brace Road (Arundel Ave - North Main St.)
Avenue (I-84 ramp to Prospect Ave.)
Dale Street
Farmington Avenue
Fern Street
Flagg Road
Flatbush Avenue
Isham Road
Kane Street

LaSalle Road
Mayflower Street
Memorial Road
Mountain Road
New Park Avenue
North Main Street
North Quaker Lane
Oakwood Avenue
Park Road
Prospect Avenue (New Park Avenue thru Park Road)
Quaker Lane South
Raymond Road
Ridgewood Road
Sedgwick Road
Shield Street
South Road
South Street
South Main Street
Trout Brook Drive
Tunxis Road

State Highways

Albany Avenue Rt. 44
Bloomfield Avenue Rt. 189
Farmington Avenue Rt. 4 (West of Caya
Old Mill Lane)
New Britain Avenue Rt. 71, 173, 529
Newington Road Rt. 173
North Main Rt. 218 (North of Albany
Avenue)
Ridgewood Road Rt. 535 (South of
I-84 Westbound ramp)
Simsbury Road Rt. 185

South Main Street Rt. 173 (New Britain
Avenue to Beechwood Road)

B. Exceptions to Above

1. All non-construction projects (i.e. manhole and overhead linework, but not limited to) four (4) hours or less that does not jeopardize public safety.
2. The Town shall have the authority to require Police on streets not listed above, in the vicinity of schools, or where parking or geometric conditions (e.g. narrowed lanes or visibility restrictions) may otherwise jeopardize safety. Examples of such streets include, but are not limited to: Buena Vista Rd., Highland St., Hunter Dr., King Philip Dr., Loomis Dr., Still Rd., Webster Hill Blvd., Whiting Ln., and other local neighborhood streets adjacent to schools.
3. The contractor may petition for due cause, the elimination of Police requirement, and approval shall rest with the Engineering Division, in consultation with the Police Department.

C. Procedural and other issues

1. Where Police officers are required by Section IIA or IIB.2, officers shall be requested no later than 48 hours before mobilization. Late requests may result in delayed permission to start work, rather than elimination of the Police requirement. When there are not enough officers available to cover all requests, priority locations will be determined by the Engineering Division, in conjunction with the Police Department.
2. When Police Officers are not available for streets listed in Section IIA or IIB.2, the contractor shall designate certified personnel, not engaged in construction activity, charged with the responsibility to maintain traffic and pedestrian safety, including traffic control devices (per Section I.C. of this policy) and passage of traffic.

The following is a list of streets with restricted work hours, assuming maintenance of two-way traffic. The Town reserves the right to modify these hours or require special provisions as necessary, particularly near schools and other significant traffic generators. Streets not listed are subject to Noise Ordinance hours, which are 7:00AM until one hour after sunset. Contractor may petition for extended hours, subject to conditions, and where applicable, availability of Police Officer(s).

Albany Ave.	8:30AM - 4:00PM	Oakwood Ave.	8:30AM - 4:00PM
Asylum Ave. (east of North Main St.)	8:30AM - 4:00PM	Park Rd. (Raymond - T B Dr.	8:30AM-4:00PM 9:00AM-3:30PM)
Bloomfield Ave.	8:30AM - 4:00PM	Prospect Ave.	8:30AM - 4:00PM
Boulevard	8:30AM - 4:00PM	Quaker Lane So.	8:30AM - 4:00PM
Caya Ave.(east end)	8:30AM - 4:00PM	Raymond Road	8:30AM - 4:00PM
Farmington Ave.	8:30AM - 4:00PM (7:00AM in Center)	Ridgewood Rd.	8:30AM - 4:00PM
Fern St.	8:30AM - 4:00PM	Sedgwick Rd.	8:30AM - 4:00PM
Flatbush Ave.	8:30AM - 3:30PM	Simsbury Rd.	8:30AM - 4:00PM
Kane St.	8:30AM - 4:00PM	South St.	8:30AM - 4:00PM
King Philip Dr.	8:30AM - 4:00PM	South Main St.	9:00AM - 3:30PM (7:00AM in Center)
Mountain Rd.	8:30AM - 3:30PM	Steele Rd.	8:30AM - 4:00PM
New Britain Ave.	8:30AM - 3:30PM	Trout Brook Dr.	9:00AM - 3:30PM
Newington Rd.	8:30AM - 4:00PM	Tumblebrook Ln. (west of King Philip Dr.)	8:30AM - 4:00PM
New Park Ave.	8:30AM - 3:30PM		
North Main St.	9:00AM - 3:30PM		