



Town of Wethersfield

505 SILAS DEANE HIGHWAY
WETHERSFIELD, CONNECTICUT 06109

MICHAEL J. O'NEIL
FINANCE DIRECTOR

INVITATION TO BID

2018-2019 SIDEWALK CONSTRUCTION AND REPAIR CONTRACT

#2018-08
February 8, 2018

The Town of Wethersfield will be accepting bid proposals for the **2018-2019 SIDEWALK CONSTRUCTION AND REPAIR CONTRACT** to be submitted at the following location:

Finance Office, Second Floor
Wethersfield Town Hall
505 Silas Deane Highway
Wethersfield, Connecticut 06109

Proposal specification packages may be downloaded at www.wethersfieldct.gov under the Departments/Finance/Open Bids link, on or after **February 8, 2018**.

Sealed bid proposals must be *submitted as two hard copies, and one electronic copy (via flash drive)*, on designated forms and in designated envelopes clearly marked with the bid title and opening date. Bids will be received by the Town of Wethersfield, Finance Department, 2nd Floor, Wethersfield Town Hall, 505 Silas Deane Highway, Wethersfield, CT 06109, **until 2:00 p.m. on March 1, 2018**, at which time they will be publicly opened and read aloud. Bids received after the date and time specified will not be accepted.

The Town of Wethersfield, after review of all factors, including the terms and conditions, qualifications and price, reserves the right to accept or reject any and all bids, or any part thereof, or waive defects in the same, or accept any proposal or combination of proposals deemed to be in the best interest of the Owner. All bid documents must be completely filled out when submitted. Bids must be firm for a period of 90 days following the bid opening date. Bid withdrawal may be made only with the consent of the Town of Wethersfield.

Michael O'Neil
Finance Director
Town of Wethersfield

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INTENT

The intent of this contract is for the Town of Wethersfield to retain a contractor to complete on-call sidewalk and ramp installation and repair at various locations as part of the annual Sidewalk Program. The location and extent of work will be identified by the Town throughout the duration of the contract. At this time, the Town has allocated approximately \$85,000 to the Program with the expectation that additional funds may be available depending on future budget appropriations. This contract is scheduled to expire on December 31, 2019.

To the extent possible, the Town will attempt to limit work to specific areas and streets in an attempt to minimize relocations and inconvenience to the successful bidder. The Town anticipates the following work will be completed as part of this contract:

- Replacement of concrete sidewalks and ramps as required to eliminate trip hazards along the frontage of Town properties and in various locations throughout Town
- Installation or replacement of concrete sidewalk ramps along roads included in the Town's Annual Paving Program that is typically completed in spring and late summer
- Repair of brick paver sidewalks along Main Street that have settled or have been affected by roots from Town trees

All work completed as part of this contract shall be in accordance with the enclosed Town of Wethersfield specifications and details, and the State of Connecticut, Department of Transportation, Standard Specifications for Roads, Bridges and Incidental Construction, Form 817 dated 2016, as amended (hereafter referred to as "Form 817"). If a conflict exists between these specifications, the Town specifications shall govern.

The Contractor must be prepared to start work within the period of time specified herein and have adequate labor, materials, and equipment available to complete work in a timely manner. The Contractor is advised that replacement of concrete sidewalks and ramps along roads to be paved as part of the Town's annual program must be completed prior to commencement of road work.

The following instructions and specifications shall be observed by all Bidders.

I. GENERAL PROVISIONS

1. Place of Bid Opening

Town Hall, Finance Department located on the second floor at 505 Silas Deane Highway, Wethersfield, Connecticut.

2. Time of Bid Opening

March 1, 2018 at 2:00 p.m. If no award has been made, bids may be withdrawn ninety (90) calendar days after bid opening.

3. Bid Return Envelope

Please mark your envelope with the bid title and opening date to prevent a sealed bid from being opened prior to the opening date. Any bid not so marked and opened by the Town prior to date specified shall be rejected. The following forms shall be submitted:

- A. Bid Forms: Pages C-1 through C-6
- B. Fair Employment Practice Qualifications for Bidders

- C. Bid Bond or Certified Check as Bid Security
- D. Non-Collusive Affidavit
- E. Affidavit for Local Preference (Appendix III, submit only if applicable)

4. Basis of Award

This contract shall be awarded to the lowest qualified Bidder. Qualifications shall include the ability of the Contractor to complete all work within the stated time frame and history of performance on previous projects.

5. Notice of Award

Notice of acceptance of a bid will be given to the successful bidder by Owner by mail to bidder's address stated in Bid. If, within seven (7) calendar days immediately after receipt of Notice of Acceptance of Bid, the successful bidder shall fail or refuse to deliver a Bond properly executed, Bidder's Bid and Acceptance, at option of Owner, shall become null and void. He shall forfeit to Owner, as liquidated damages for such failure or refusal, the Bid Bond or certified check accompanying this Bid and Owner may proceed to accept another of the Bids. Contractor shall start work under this contract and shall continue to completion with all practical personnel, equipment and schedule regularity.

The Contractor agrees to begin work for the project within TEN (10) CALENDAR DAYS of receiving a written notice to proceed from the Town and agrees to complete all work for the project within the stipulated contract time (see Item 13 below).

6. Award of Contract

It is the Town's intent to award this Contract to the lowest responsible and qualified bidder possessing skill and ability to perform the work. The Town reserves the right, for any reason or for no reason, to reject any Bid or all Bids, to negotiate with any or all Bidders, to waive any informalities, irregularities or omissions in any bids received or to afford any Bidder an opportunity to remedy any informality or irregularity if in the opinion of the Town it is in the best interest of the Town to do so.

7. No Bid

Failure to return a bid or the attached "No Bid" Response form may result in the removal of your firm's name from the Town's Bid List. Receipt of responsive bids and "No Bid" responses will result in your firm's retention on the Bid List.

8. Bid Security

A bid bond or certified check in the amount of 5% of bid is required to be submitted with the Bid. Bid Security will be returned to all except the successful bidder upon award.

9. Performance/Labor & Material Bonds

The successful bidder shall at time of award of contract submit acceptable performance and labor and material bonds, each in an amount equal to 100% of amount bid. These bonds will be released upon expiration of the guarantee period, which is one year after the date of written acceptance of work.

The Contractor is responsible to provide updated bonds for each fifty percent (50%) increase in the total contract value as a cumulative result of change orders.

10. Scope of Work Change

Owner reserves the right to change the scope of the project for any reason before or after the bid is awarded without penalty to the Owner. The Owner reserves the right to reduce or increase any or all

quantities shown on the Bid Form or eliminate items of work entirely as may be in the best interest of the Town without penalty.

11. Substitution for Named Brands

Should brand name items appear in this bid, before bidding on any item considered equal to or better than a named item, the bidder shall submit a written request for substitution of the specified manufacturer and/or model to the Town Engineer at least TEN (10) CALENDAR DAYS prior to the bid opening. To ensure the proposed substitution will comply with these specifications, drawings with dimensions, materials, installation procedures, and all other supporting information must be submitted for review.

The Town Engineer will evaluate and verify the accuracy of the submittal. If it is determined the qualifying criteria have not been met, the proposed substitution will be rejected. Manufacturers other than those listed above may only be used if the Town Engineer provides written approval of the proposed substitution via addendum five (5) calendar days prior to the bid. The Town Engineer's ruling shall be final.

12. Price, Discounts, Payment

Prices bid shall not include any taxes, Local, State or Federal, as the Town is not liable. In addition to the prices bid, each bidder may quote binding discounts which will be considered in making the award. It is the practice of the Town to pay valid invoices within thirty (30) calendar days after receipt.

13. Time of Completion

The length of time to complete work associated with this project will be THIRTY (30) CALENDAR DAYS after receiving a written or verbal notice to proceed from the Town for various locations where work is required.

14. Contract Term

The contract will expire on DECEMBER 31, 2019.

15. Delays

Delays for completion of work shall only be authorized by the Town Engineer and shall be in writing. Delays due to the contractor's inability to complete the work for reasons other than weather, shall not be considered as authorized.

16. Prevailing Wage Rates

Depending on the availability of funds, this project may impose the requirements of the Davis Bacon Act. Therefore, the Prevailing Wage Scale is attached and is part of this Contract.

17. Liquidated Damages

For this project, a sum of one hundred dollars (\$100.00) is agreed to by all Bidders as liquidated damages, and shall be paid by the Contractor to the Town for each and every calendar day in which this Contract is not completed after the period of time stipulated herein for such completion, and such costs shall be fixed with regard to this provision.

18. Assignment of Contract

Contractor shall not sublet, sell, transfer, assign or otherwise dispose of contract or any portion thereon or of his right, title or interest therein, of his obligations thereunder, without receiving written consent from the Town.

19. Acceptance of Subcontractor

Submission of names of Subcontractors in the Bid Proposal shall be deemed as constituting acceptance by Contractor, if awarded the Contract, the bids of all such subcontractors. Any alteration therein after award of Contract shall be subject to the approval of the Town.

20. Basis of Payment

Payment for this work will be based on unit prices listed in the Bid Form multiplied by actual quantity of work completed and accepted, except as noted herein, and shall include all equipment, materials, labor, and tools incidental to the completion of this work.

21. Method of Measurement

The work required will be measured for separate payment based on the units for each item listed in the Bid Form.

22. Payments for Extra Work

Written notice of claims for payments for extra work shall be submitted by the Contractor within TEN (10) CALENDAR DAYS after receipt of instructions from the Owner, as approved by the Town Engineer, to proceed with extra work, and also before any work is commenced except in an emergency endangering life or property. No claim shall be valid unless so made. In all cases, the Contractor's itemized estimate sheet showing all labor and material shall be submitted to the Town Engineer for review and approval. Extra work required by the Owner shall specify any extension of contract time and one of the following methods of payment;

- A. Unit prices, or a combination of unit prices, which formed basis of original contract.
- B. A lump sum based on Contractor's estimate accepted by Owner and approved by the Town Engineer.
- C. Actual cost plus 15% for overhead and profit.

23. Payment Requests, Retainage and Guarantee Period

Contractor may submit a request for payment once each month for work done and materials delivered and installed on site at the completion of individual assignment from the Town. Each request for payment shall be computed from work completed with all items listed in a detailed breakdown of contract amount, less five percent (5%) to be retained until expiration of the guarantee period, which shall be one year from the date of written acceptance of all work.

Contractor is advised that this work will be paid from multiple funding sources including operating funds and Capital Improvement Program (CIP) funds. Separate purchase orders will be issued; therefore, separate invoices must be submitted for each purchase order that are itemized based on the Contract items listed in the Bid Tab along with associated bid unit prices. Supplemental information identifying the location (including street address) where work was completed for each purchase order must also be submitted to facilitate review of pay requisition.

Contractor is responsible to monitor progress of work and notify the Town when ninety percent (90%) percent of each purchase order amount has been expended so the Town can determine if additional funds are available to increase the purchase order amount or if a reduction in the planned scope of work is required. Pay requisitions in excess of the total purchase order amounts may not be paid.

Certified payrolls must accompany each pay requisition in order to be considered complete.

24. Insurance Requirements

The contractor shall procure and maintain at its own expense, the insurance detailed in Appendix I - Town's Insurance and Indemnification Requirements.

Note: Insurance Certificates in accordance with the requirements contained herein must be submitted to the Town prior to the signing of the Contract.

Insurance Certificates shall be filed with the Town of Wethersfield Engineering Division by each licensee. These certificates shall be in the sum as prescribed by Section 1.03.07 of Form 817 and shall hold harmless in all cases, the Town from all forms of liability.

25. Non-Collusive Affidavit

Bidders must sign and submit the attached Non-Collusive Affidavit form with their bid.

26. Local Bidder Preference

See Appendix II for the Town Ordinance Providing for Local Preference and Appendix III for the associated Affidavit Form.

27. Equal Opportunity - Affirmative Action

The successful contractor shall comply in all aspects with the Equal Employment Opportunity Act. Each contractor with fifteen (15) or more employees shall be required to have an Affirmative Action Plan which declares that the contractor does not discriminate on the basis of race, color, religion, sex, national origin or age, and which specifies goals: and target dates to assure the implementation of equal employment. Each contractor with fewer than fifteen (15) employees shall be required to have a written equal opportunity policy statement declaring that it does not discriminate on the basis of race, color, religion, sex, national origin or age. All bidders must fill out the "Fair Employment Practices for Qualifications of Bidders" form that follows. Findings of non-compliance, with applicable State and Federal equal opportunity laws and regulations could be sufficient reasons for revocation or cancellation of this contract.

II. ADDITIONAL REQUIREMENTS

1. Questions Relating to Specifications

Any request from prospective bidders for interpretation of meaning of contract drawings, specifications or other contract documents must be **made in writing to the Town of Wethersfield Finance Department** via email at purchasing@wethersfieldct.gov.

Requests must be received at least SEVEN (7) CALENDAR DAYS prior to date fixed for opening of Proposals to be given consideration. Interpretations will be made in the form of written Addenda to Contract Documents, which Addenda shall become a part of Contract. Not later than four (4) calendar days prior to date fixed for opening of Proposals, Addenda will be emailed to all persons who obtained Contract Documents posted on the Town's website **and** provide an email address to purchasing@wethersfieldct.gov. Failure of any bidder to receive any such Addenda shall not relieve bidder from any obligation under his Proposal as submitted.

2. Examination of Site and Contract Documents

At the date listed for opening of Bids, it will be presumed that each Bidder has read and become thoroughly familiar with all Bid Documents including Plans, Specifications and Addenda.

Bidders are made aware that the Contract Documents including the associated plans, specifications and details have been modified from previous information issued by the Town for similar contracts.

3. Inspection of Work

All materials and work shall be subject to inspection by the Town Engineer or his designee (referred to as "Engineer" herein) at all times, and the Contractor will be held strictly to the true intent of drawings and specifications in regard to quality of materials, workmanship, and diligent execution of contract. Materials furnished under these specifications shall be approved by the Town prior to purchase and delivery to the job site and are subject to such inspections. The Town shall be allowed access to all areas of the work site and shall be furnished such information and assistance by the Contractor as required to conduct complete and detailed inspections.

4. Disposal of Materials

Surplus materials are the responsibility of the Contractor and shall be properly disposed of in accordance with all local, state and federal regulations.

5. Traffic Control

All traffic control procedures such as signs, barricades, drums, cones, flagmen and uniformed flag persons, shall be approved by the Town of Wethersfield Police Department and shall meet the requirements of the "Manual on Uniform Traffic Control Devices", 2009 Edition, as amended. All traffic control devices shall be supplied, installed and maintained by the Contractor. During construction, any hazards left overnight shall be identified with lighted barricades.

Refer to the plan titled "Town of Wethersfield Traffic Control Requirements by Street" in Appendix IX for additional information.

There will be no direct payment for traffic control and the associated costs shall be included in the unit prices bid for other Contract items.

6. Provisions for Travel and Prosecution of Work

The work shall be conducted to allow for passage of at least one lane of traffic at all times. Hours of operation are limited to 7:30 a.m. to 4:00 p.m. on weekdays. Work will only be allowed on weekends and holidays when Town Hall is closed when approved by the Town Engineer. Upon completion of each day's work, all roads shall be open to two-way traffic.

7. Safety

All work shall comply with all pertinent OSHA, Federal, State, and Local Regulations. OSHA compliant vests and hardhats shall be worn by all contractor's and subcontractor's employees at all times. The contractor shall maintain safety measures at all times when a hazard or hazards exist in or around the work area. The contractor shall implement additional safety measures as directed by the Town's representative or by other State, Federal, or Local authorities at no additional cost to the Town.

If at any time, the Town of Wethersfield must install or provide labor, equipment, or materials, in order to eliminate a safety hazard due to activity related to this contract, the Contractor shall be billed by the Town for such services (including 100% of the cost of police for traffic control as defined above).

8. Utilities

The Contractor shall contact the respective utility companies including "CALL BEFORE YOU DIG" at 811 or 1-800-922-4455 and must be especially careful not to disturb or break existing manholes, catch basins, valve boxes, castings, utilities or services. The Contractor is solely responsible for any monetary charges made by utility companies for repair or replacement of damaged utilities, castings, or for any damage to his own equipment.

9. Permits and Licenses

All local permits and licenses necessary for prosecution of work, including General Excavation Permits, shall be secured by Contractor. **The Town shall waive the fees associated with local permits and licenses required for this project.**

No person, firm or corporation shall engage in the business of working in the Town of Wethersfield public right-of-way or Town-owned property without being licensed by the Town. A license to engage in said business shall be issued only after the owner, or an employee of said business designated by the owner, presents evidence of competence in performing such work in accordance with municipal and state standards and specifications.

The application for a license shall be made by the owner of said business to the Town on a form furnished by the Town. All licenses shall expire on December 31st of each year. No license shall be issued or renewed unless the licensee has filed a surety bond (or performance bond) with the Town worth at least ten thousand dollars (\$10,000) that is issued by a surety company authorized to do business in the State of Connecticut, indemnifying the Town of Wethersfield against any loss or expense in repairing, remedying or correcting the work performed by the licensee if the same is defective or not in accordance with the ordinance of the Town of Wethersfield. The license will be automatically revoked upon transfer of firm or corporation ownership.

The Town is authorized, upon five (5) days written notice, to revoke or suspend any license for failure to comply with the applicable ordinances or its rules and regulations, or failure to remedy any defective work upon order of the Town Engineer.

The Town, shall and may from time to time, amend rules and regulations, governing the issuance, revocation and suspension of licensees and the inspection, approval and rejection of all work performed by licensees.

The Contractor must obtain an “Encroachment Permit” from the State of Connecticut Department of Transportation prior to commencing construction within any state right-of-way and shall be responsible for all associated fees and requirements.

When applicable, the Contractor shall conduct all work in accordance with permits issued by the local Planning and Zoning Commission and Inland Wetlands and Watercourses Commission, which are consistent with improvements shown on the contract plans. Additional information will be provided at the pre-construction meeting for the project.

10. Contract Funds

Funding of this contract will be provided through remaining General Fund FY 17/18 funds and anticipated FY 18/19 and FY 19/20 Sidewalk Maintenance Budgets and Capital Improvement Program funds for sidewalk ramp replacements and improvements and authorized by the Wethersfield Town Council. Should funds prove insufficient, alternate funding sources or reductions in project scope will be implemented by the Town.

11. Material Submittals

The contractor shall submit shop drawings, working drawings and product data in accordance with Section 1.05.02-5 of Form 817. Even if not explicitly listed in the technical specifications provided herein, this information must be submitted to the Town Engineer for review and approval for all materials associated with the completion of work prior to fabrication, purchase and delivery to the site.

12. Construction Scheduling

When requested by the Town, a schedule of construction operations shall be submitted for approval and shall include a flow chart of major work items and approximate lengths of time related to work items.

The Contractor shall notify the Engineering Division at 860-721-2850 a minimum of twenty-four (24) hours prior to start of construction at specific locations and also one (1) hour prior to placement of processed aggregate base material and pouring of concrete so the Town can inspect for proper excavation depths for installation of base material and concrete forms, respectively.

13. Layout of Work

Unless noted otherwise in the Contract Documents, the Town of Wethersfield Engineering Division will be responsible for providing limited field layout and staking required for construction. The Contractor shall provide the Engineering Division a minimum of forty-eight (48) hours advanced notice for all survey requests and shall maintain and protect all survey stakes during construction. The Contractor will be charged \$150.00 per hour for any re-staking required due to the Contractor's negligence in protecting the original stakes.

14. Mailboxes/Signs

The Contractor will be responsible for removal, storage, and reinstallation of all signs, mail boxes, newspaper boxes, fences, stone walks and similar items that may be impacted during construction. There will be no direct payment for this work and the cost shall be included in the unit prices listed in the Bid Form for the various items of work.

15. Tree Protection

Contractor shall be solely responsible for the care and protection of trees in the vicinity of the work areas and related procedures shall be in accordance with information provided in Appendix V.

Unless denoted on the Bid Form, there will be no direct payment for this work and the cost shall be included in the unit prices listed in the Bid Form for the various items of work.

16. Dust Control

The Contractor shall be responsible for all means and methods of dust control including use of water, calcium chloride and regular street sweeping at such times as directed by the Town Engineer or his designee. There will be no direct payment for this work and the cost shall be included in the unit prices listed in the Bid Form for the various items of work.

17. Temporary Storage Areas

The Contractor is responsible for identifying temporary material storage areas that provide safe access for construction and other vehicles traveling along public roads, and for providing appropriate erosion controls and restoration as directed by the Engineer. The Contractor shall only store construction equipment or materials within the public right-of-way at locations approved by the Engineer.

18. Erosion and Sedimentation Controls

All erosion and sedimentation control devices shall be installed in accordance with the "2002 Connecticut Guidelines for Soil Erosions and Sediment Control" as shown on the Plans or as directed by the Engineer prior to any construction activity and maintained throughout the duration of construction.

19. Pre-Construction Meeting

The contractor's foreman, subcontractors, surveyor and other responsible personnel that will be directly involved in construction shall attend a pre-construction meeting when one is required and scheduled by the Town.

20. Noise Control/Hours of Operation

The Contractor shall conduct all operations in accordance with the Town Ordinance for Noise Control provided in Appendix IV.

21. Construction Procedures

Refer to the Town of Wethersfield construction details and technical specifications provided in Appendix VII and Appendix VIII, respectively.

Bid Opening: March 1, 2018 at 2:00 p.m.

Finance Department
 Town Hall
 505 Silas Deane Highway
 Wethersfield, Connecticut 06109

Having carefully examined the Invitation to Bid including the Technical Specifications, Appendices, Contract Drawings and Exhibits for the furnishing of all materials, equipment, tools, labor and incidentals necessary to complete the Work known as "**2018-2019 SIDEWALK CONSTRUCTION AND REPAIR CONTRACT**", as well as having carefully examined the site and having satisfied himself as to conditions affecting the proposed Work and all Addenda issued by the Town prior to the date of opening of Bids, the undersigned proposes to complete all Work on the Contract Drawings and as described in the Contract Specifications, for the lump sum and unit prices for the Work, in place, for the following items and quantities.

Bidder acknowledges receipt of the following addenda:

No. _____, dated _____, 20 _____
 No. _____, dated _____, 20 _____
 No. _____, dated _____, 20 _____
 No. _____, dated _____, 20 _____

In accordance with the Town of Wethersfield's specifications and details, the undersigned agrees to supply the following:

ITEM No.	ITEM AND DESCRIPTION	UNIT	ASSUMED QUANTITY *	UNIT PRICE	TOTAL COST
1.	5" CONCRETE SIDEWALK	SF	2,000	\$ _____	\$ _____
2.	5" MONOLITHIC CONCRETE SIDEWALK AND CURB	SF	200	\$ _____	\$ _____
3.	8" REINFORCED CONCRETE SIDEWALK	SF	100	\$ _____	\$ _____
4.	8" REINFORCED CONCRETE SIDEWALK RAMP	SF	600	\$ _____	\$ _____
5.	DETECTABLE WARNING TILE (ONLY FOR EXISTING SIDEWALK RAMPS)	EA	5	\$ _____	\$ _____
6.	WATERPROOFING AND EXTERIOR PROTECTION ADMIXTURE FOR 5" THICK CONCRETE (ADDT'L COST)	SF	300	\$ _____	\$ _____

BID FORMS

C-2

ITEM No.	ITEM AND DESCRIPTION	UNIT	ASSUMED QUANTITY *	UNIT PRICE	TOTAL COST
7.	WATERPROOFING AND EXTERIOR PROTECTION ADMIXTURE FOR 8" THICK CONCRETE (ADDT'L COST)	SF	50	\$ _____	\$ _____
8.	BRICK PAVERS	SF	400	\$ _____	\$ _____
9.	RESET BRICK PAVERS	SF	500	\$ _____	\$ _____
10.	BITUMINOUS CONCRETE DRIVEWAY	SF	100	\$ _____	\$ _____
11.	BITUMINOUS CONCRETE ROADWAY (4" HMA S0.5)	SF	300	\$ _____	\$ _____
12.	BITUMINOUS CONCRETE ROADWAY (5" HMA S0.5)	SF	150	\$ _____	\$ _____
13.	BITUMINOUS CONCRETE PAVEMENT REMOVAL	SY	5	\$ _____	\$ _____
14.	4" BITUMINOUS CONCRETE PARK CURB	LF	50	\$ _____	\$ _____
15.	6" BITUMINOUS CONCRETE LIP CURB	LF	50	\$ _____	\$ _____
16.	EARTH EXCAVATION **	CY	5	\$ _____	\$ _____
17.	GRANULAR FILL	CY	5	\$ _____	\$ _____
18.	RESET SIGN	EA	1	\$ _____	\$ _____
19.	RESTORATION OF LAWN AREAS **	SY	50	\$ _____	\$ _____
20.	ROOT BARRIER	SF	25	\$ _____	\$ _____

TOTAL AMOUNT OF BID \$ _____

* All quantities are indeterminate and provided only for bid comparison purposes. The Town will not be bound by any listed quantities and will only pay for actual work performed based on direction by the Town and availability of funds. No adjustment in unit prices will be made based on actual quantities.

** Only to be used for work necessary outside the contract limit lines as approved by the Engineer prior to commencement of work. All costs associated with additional areas disturbed by the Contractor are the responsibility of the Contractor.

BID FORMS

C-3

The undersigned is familiar with the conditions surrounding this call for bids, is aware that the Town reserves the right to reject any and all bids, and is submitting this bid without collusion with any other person, individual or corporate.

Signature

Witness

Printed Name & Title of Signer

Date

Company Name

Phone

Address

Fax

City

State

Zip

Email Address

QUALIFICATIONS OF BIDDER

The undersigned offers the following information as evidence of his qualifications to perform the work as bid upon according to all the requirements of the Contract Documents, including Plans and Specifications.

(Please print or type the following information)

Project Name: **2018-2019 Sidewalk Construction and Repair Contract**

Bidder's Name:

Bidder's Address:

1. How many years has Bidder been engaged in the contracting business under present firm name?

1a. Former firm names (if applicable). List all previous names.

2. The names and addresses of all persons interested in the bid (if made by a partnership or corporation) as Principals, are as follows (attach supplementary list if necessary):

3. The Bidder is requested to state in Table 1 on the following page a minimum of three (3) projects of similar nature to the project described herein, that the Bidder has completed, with name, address, and telephone number of a reference for each project.

TABLE 1

Project Name and Description	Project Duration	Total Project Cost	Value of Work Performed by Bidder's Company	Project Reference Name, Address and Phone No.
	From To			

4. List projects presently under contract by the Bidder, dollar value of the contract, percent completed and estimated time to completion:

5. Has the Bidder ever failed to complete work awarded? If so, state where and why:

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

7. Does the Bidder plan to sublet any part of this work? If so, provide the company name, address, phone number, contact person and list of at least three (3) references for each subcontractor.

BID FORMS

C-7

8. List all equipment the Bidder owns that is available for this project:

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

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

Surety: _____

Bank: _____

Major Material Supplier: _____

11. List Key Personnel to be employed for this project:

BID FORMS

C-8

12. Additional Remarks for Consideration:

By: _____
Signature

Printed Name _____

Title _____

(SEAL)

FAIR EMPLOYMENT PRACTICES FOR QUALIFICATIONS OF BIDDERS
TOWN OF WETHERSFIELD, CONNECTICUT

THIS QUESTIONNAIRE ON FAIR EMPLOYMENT PRACTICES FOR THE QUALIFICATIONS OF BIDDERS IS PART OF THIS BID DOCUMENT AND MUST BE RETURNED WITH YOUR BID. FAILURE TO COMPLETE THIS FORM MAY BE SUFFICIENT CAUSE FOR REJECTION OF YOUR BID. IT WILL BE NECESSARY TO SUBMIT THIS FORM ON AN ANNUAL BASIS IN ORDER FOR THE TOWN TO MAINTAIN AND UP-TO-DATE FILE ON YOUR PROGRESS IN EQUAL OPPORTUNITY EMPLOYMENT. AS REQUIRED BY FEDERAL AND STATE LAWS AND REGULATIONS, THE TOWN MAY REQUEST ADDITIONAL EQUAL OPPORTUNITY INFORMATION FROM YOU.

“FAIR” OR “EQUAL EMPLOYMENT” MEANS THE PRACTICE OF NOT DISCRIMINATING AMONG PERSONS ON THE BASIS OF RACE, COLOR, SEX, NATIONAL ORIGIN OR AGE.

THIS QUESTIONNAIRE WILL BE EVALUATED BY THE PURCHASING AGENT AND HIS RECOMMENDATIONS WILL BE A FACTOR IN DETERMINING WHETHER YOUR FIRM IS TO BE RETAINED ON THE TOWN’S BID LIST.

PLEASE ANSWER ALL THE FOLLOWING QUESTIONS:

SECTION NAME OF FIRM _____

A ADDRESS _____

TELEPHONE NUMBER _____

NATURE OF BUSINESS _____

NUMBER OF FULL TIME EMPLOYEES _____

PERSON FILLING OUT FORM _____

TITLE _____

SECTION DO YOU HAVE A WRITTEN EQUAL EMPLOYMENT POLICY? YES NO

B IF YES, PLEASE ATTACH COPY

IF NO, DO YOU PLAN TO ADOPT ONE IN THE NEAR FUTURE? YES NO

SECTION DO YOU HAVE A WRITTEN AFFIRMATIVE ACTION POLICY? YES NO

C IF YES, PLEASE ATTACH COPY

IF NO, DO YOU PLAN TO ADOPT ONE IN THE NEAR FUTURE? YES NO

SECTION DO YOU UTILIZE AFFIRMATIVE ACTION IN EMPLOYMENT PRACTICES, SUCH AS ADVERTISING ALL POSITIONS WITH

D THE EQUAL OPPORTUNITY CLAUSE, MAKING SPECIAL EFFORTS TO RECRUIT MINORITY AND FEMALE JOB APPLICANTS AND REVIEWING JOB-TESTING PROCEDURES TO ENSURE THAT NO DISCRIMINATORY BIASES EXIST?

YES NO

SECTION PLEASE FILL OUT THE DATA REQUESTED IN THE FOLLOWING TABLE FOR ALL FULL-TIME EMPLOYEES OF

E YOUR ORGANIZATION. THE STATISTICS USED MUST BE NO OLDER THAN 3 MONTHS FROM THE TIME THIS BID IS SUBMITTED.

YES NO

BID FORMS

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EMPLOYMENT STATUS AS OF _____

MALE						FEMALE			
WHITE (NON HISPANIC)	BLACK (NON HISPANIC)	HISPANIC	ASIAN/PACIFIC ISLANDER	AMERICAN INDIAN	TOTAL MALE	WHITE (NON HISPANIC)	BLACK (NON HISPANIC)	HISPANIC	ASIAN/PACIFIC ISLANDER
									AMERICAN INDIAN
									TOTAL FEMALE

OFFICERS/ MANAGERS									
PROFESSIONALS									
TECHNICIANS									
SALES WORKERS									
OFFICE/ CLERICAL									
CRAFTSMEN (SKILLED)									
OPERATORS (SEMI-SKILLED)									
LABORERS (UNSKILLED)									
SERVICE WORKERS									

SECTION NAME OF OFFICER OF FIRM _____

F SIGNATURE OF OFFICER _____

DATE _____

NON-COLLUSIVE AFFIDAVIT OF PROPOSER

The undersigned proposer, having fully informed themselves regarding the accuracy of the statements made herein certifies that;

- (1) the proposer developed the bid independently and submitted it without collusion with, and without any agreement, understanding, or planned common course of action with any other entity designed to limit independent bidding or competition, and
- (2) the proposer, its employees and agents have not communicated the contents of the bid to any person not an employee or agent of the proposer and will not communicate the proposal to any such person prior to the official opening of the proposal.

The undersigned proposer further certifies that this statement is executed for the purpose of inducing the Town of Wethersfield to consider the proposal and make an award in accordance therewith.

Legal Name of Proposer/Firm

Business Address

Signature and Title

Date

Printed Name of Title Person

Subscribed and sworn to me this _____ day of _____, 20 ____.

Notary Public
My Commission Expires

CONTRACT

This Agreement, executed this _____ day of _____, 20____, by and between the Town of Wethersfield, a municipality located within the County of Hartford in the State of Connecticut, acting through its Town Manager, hereinafter referred to as the "TOWN," and _____ hereinafter referred to as the "CONTRACTOR."

WITNESSETH: That the parties to this Agreement each in consideration of the Agreements on the part of the other herein contained have agreed, and by these presents do hereby agree, the TOWN for itself, and the CONTRACTOR for himself/herself and his/her heirs, executors, administrators, successors and assigns, as follows:

- A. That the Contract Documents consist of this Contract, together with all attachments including, but not limited to, the Legal and Procedural Documents, Provisions, Requirements, Technical Specifications, Contract Drawings, Exhibits and Addenda issued before execution of the Contract, for the Contract, all of which are included as if fully set forth herein;
- B. That the CONTRACTOR has informed himself/herself fully in regard to all conditions pertaining to the place where the Work is to be done and other circumstances affecting the Work;
- C. That the CONTRACTOR has obtained all the information needed to enable him/her to estimate fully and fairly the costs of the Work herein contemplated;
- D. That the CONTRACTOR shall furnish all plant, labor, materials, supplies, tools, equipment, other facilities and things necessary for or incidental to properly construct the

2018-2019 SIDEWALK CONSTRUCTION AND REPAIR CONTRACT

for the TOWN, in accordance with this Contract, and completing everything required of him under this Contract not later than the time stipulated in the Instructions to Bidders.

- E. The CONTRACTOR hereby agrees to commence the work under this Contract within the time period stipulated in the Instructions to Bidders upon receiving the written Notice to Proceed from the TOWN.
- F. The TOWN shall pay and the CONTRACTOR shall receive as full compensation for fulfilling everything required of the CONTRACTOR under this Contract, the unit prices and lump sums recorded in the Bid, a copy of which is appended to and is made a part of this CONTRACT.
- G. That the quantities shown in the Bid are approximate only and are solely for the purpose of facilitating the comparison of Bids, that the TOWN shall not be held responsible if these quantities are not even approximately correct, that for all Work upon which unit prices are quoted the CONTRACTOR'S compensation shall be computed upon the Work actually performed, measured by the units of measurement specified, whether greater or less than the quantities as shown in the Bid, and that the unit prices for Bid items cover all incidental services required of the CONTRACTOR under the Contract.

CONTRACT AWARD FORMS

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H. That the CONTRACTOR shall give to the TOWN as liquidated damages, not as a penalty, the sum, if any, as specified in the Instructions to Bidders, for each day required by the CONTRACTOR to complete the Work of the Contract beyond the time period stipulated.

IN WITNESS WHEREOF, the parties to these present have executed this CONTRACT in the year and day first above mentioned.

TOWN

By: _____
Jeff Bridges, Town Manager

(SEAL)

CONTRACTOR

By: _____
Signature

Printed Name _____

Title _____

(SEAL)

IMPORTANT: Execute Acknowledgement of Officer or Agent of Contractor who signs this document (use proper form next page).

CONTRACT

(ACKNOWLEDGEMENT OF PRINCIPAL, IF A CORPORATION)

On this _____ day of _____, 20____, before me personally came and appeared _____ to me known, who, being by me duly sworn, did depose and say that s/he resides at _____ and that s/he is the _____ of _____, the Corporation described in and which executed the foregoing instrument; that s/he knows the seal of said Corporation; that one of the impressions affixed to said instrument is an impression of such seal; that it was so affixed by order of the Directors of said Corporation, and that s/he signed his/her name thereto by like order.

NOTARY PUBLIC

(SEAL)

CONTRACT

(ACKNOWLEDGEMENT OF PRINCIPAL, IF A PARTNERSHIP)

State of _____)
) SS:

County of _____)

On this _____ day of _____, 20____, before me personally came and appeared _____ to me known, who, being by me duly sworn, did depose and say that s/he resides at _____ and that one of the members of the firm of _____, described in and who executed the same as and for the act and deed of said firm.

NOTARY PUBLIC

(SEAL)

CONTRACT

(ACKNOWLEDGEMENT OF PRINCIPAL, IF AN INDIVIDUAL)

State of _____)
) SS:

County of _____)

On this _____ day of _____, 20____, before me personally came and
appeared _____ to me known, and to me to be the
person described in and who executed the foregoing instrument and acknowledged that he executed the
same.

NOTARY PUBLIC

(SEAL)

APPENDIX I

INSURANCE AND INDEMNIFICATION REQUIREMENTS

INSURANCE AND INDEMNIFICATION REQUIREMENTS

The Contractor shall be responsible for maintaining insurance coverage in force for the life of this contract of the kinds and adequate amounts to secure the Contractor's obligations under this contract with an insurance company or companies with an AM Best Rating of A-: VII or better licensed to write insurance in Connecticut and acceptable to the Town of Wethersfield. Where no insurer so licensed in Connecticut will provide the required coverage, the insurer shall, at minimum, be approved to do business in Connecticut (listed on the current "White List" of the Connecticut Insurance Department).

As to all insurance required, the insurer shall provide the Purchasing Agent, Town of Wethersfield, with Certificates of Insurance prior to the execution of this contract, describing the coverage and providing that the insurer shall give the Town of Wethersfield written notice at least thirty (30) days in advance of any termination, expiration, or any and all changes in coverage.

Deductibles and self-insurance shall be declared in the Certificate of Insurance and are subject to the approval of the Town of Wethersfield.

Such insurance or renewals or replacements thereof shall remain in force during the Contractor's responsibility under this Agreement. The kinds and amounts of such insurance coverage shall not be less than the kinds and amounts of coverage, or the acceptance by the Town of Wethersfield of Certificates of Insurance indicating the kinds required herein, and the Contractor agrees that the stipulation herein of the kinds and minimum amounts of insurance and limits of coverage shall in no way limit the liability of the Contractor to any such kinds and amounts of insurance coverage.

1. Contractor agrees to indemnify and save harmless the Town from loss, expense, damage or injury caused or occasioned, directly or indirectly, by its failure to comply with any of the following:
 - a. The furnishing and paying for all necessary permits, licenses and inspection fees as called for in the plans, specifications and addenda as being his responsibility.
 - b. The payment of all royalty and license fees and the defense of all suits or claims for infringement of any patent rights pertaining to work furnished by the Contractor.
 - c. The payment of any loss or damage arising from any defects in materials or workmanship for a period, and to the extent, as set forth in the plans, specifications and addenda, or for a period of one year from date of acceptance, whichever is greater.

The Contractor agrees that, to the fullest extent permitted by law, it shall hold harmless and indemnify the Town and all of its officers, agents and employees (hereinafter collectively called the "Indemnitees") and shall defend and protect the Indemnitees from and against any and all loss, cost, liability, claim, damage and expense including, without limitation, reasonable attorney's fees and expenses, incurred in connection with or arising from or alleged to have occurred in connection with or arisen from (1) any injury, illness or death to any person or damage to any person or property occurring with respect to, in connection with or as a result of and to the extent caused by the negligent acts or omissions of the Contractor, its employees, subcontractors or any other person or entity for whose acts the Contractor may be liable, and (11) any litigation, whether material or immaterial, with respect to any negligent act or omission of the Contractor, its employees, subcontractors or any other person or entity for whose acts the Contractor may be liable, or with respect to or in connection with Contractor's performance or non-performance of its obligations under this agreement. As used above, the Contractor's duty to "defend and protect" shall be by counsel reasonably acceptable to the Town and "attorney's fees and expenses" shall include both reasonable attorney's and paralegals' fees and expenses. In case any action or proceeding is brought against any of the Indemnitees by reason of any such claim or liability, the Contractor, upon notice from the Town, shall protect and defend

INSURANCE AND INDEMNIFICATION REQUIREMENTS

at the Contractor's sole expense such action or proceeding by counsel reasonably satisfactorily to the Town and the Town agrees to cooperate in such defense. The Contractor will pay any judgments entered against the Indemnitees or any of them after exhaustion of all appeals thereof as the Contractor shall reasonably determine to undertake. The Contractor will also pay all amounts payable in settlement or compromise of any such action or proceeding, and the Town agrees not to settle any such action or proceeding without the Contractor's consent, which will not be unreasonably withheld. In the event the Contractor shall fail to protect and defend any of the

Indemnitees, the Town may undertake to protect and defend such Indemnitees and the Contractor shall pay to the Town, upon demand, all reasonable costs and expenses incurred by the Town in connection therewith, including, without limitation, all reasonable attorney's fees and expenses.

2. The Contractor shall procure and maintain, at its own expense, the following insurance:

a. Worker's Compensation with minimum statutory limits on Employer's Liability Part B and Occupational Disease. Workers Compensation shall include waiver of subrogation in favor of the Town and alternate employer endorsement.

b. General Liability Insurance on an occurrence basis with minimum limits of:

\$1,000,000 Bodily Injury per Occurrence

\$1,000,000 Property Damage

or

\$1,000,000 Combined Single Limit

The Town shall be listed as an additional insured as regards both premise operations and products/completed operations.

Coverage shall include Broad Form Property Damage, Contractual Liability and Completed Operations coverage, Professional Liability where applicable and such other insurance as the Town may require. The Town requires that these aggregate limits be maintained by the Contractor as required. Contractors insurance shall be primary and non-contributory and include waiver of subrogation. It is the responsibility of the Contractor or his representative to notify the Town if ever or whenever the policy limits go below those required above. If the aggregate limits include defense costs, the Town should be so notified. It is the responsibility of the Contractor and his insuring agent to provide the Town with current certificates throughout the contract period, keeping the required limits in full force and effect. The Town of Wethersfield reserves the right to modify or change the requirements at any time if it is in the best interest of the Town to do so.

c. Auto Liability Insurance with minimum limits of:

\$1,000,000 Bodily Injury

\$1,000,000 Property Damage

or

\$1,000,000 Combined Single Limit

All insurance shall be evidenced by a certificate of insurance showing the Contractor's insurance is in force and the carrier shall notify the Town that the policies will not be

INSURANCE AND INDEMNIFICATION REQUIREMENTS

canceled with less than 30 days written notice to the Contractor. Contractors Insurance shall be primary and non-contributory and include waiver of subrogation.

3. On purchase orders where the cost of the work, or contract price, exceeds \$100,000 or is hazardous in nature, there shall also be a \$4,000,000 umbrella or excess liability layer over the underlying described above. In such case there shall also be required an Owners and Contractors Protective Liability policy issued naming the Town as named insured, with a \$1,000,000 per occurrence limit.

The wording for both named insured and additional insured shall read as follows:

The Town of Wethersfield, The Wethersfield Board of Education (where appropriate), and its respective officers, agents and servants.

4. Professional Liability, \$5,000,000 limit (Architects, Engineers, Attorneys including Town Council, Accountants, Actuaries, Agent of Record).

Additional Coverage and Limits may be required based upon the particular services contracted.

5. Property Insurance

- a. Town shall purchase and maintain property insurance upon the Work at the site of the full insurable value thereof (subject to such deductible amounts as may be provided in the Supplementary Conditions or as required by law). This insurance shall include the interests of the Town, Contractor, Subcontractor and Engineer in the Work; shall insure against the perils of fire and extended coverage; shall include "all risk" insurance for physical loss and damage including theft, vandalism and malicious mischief, collapse and water damage, and such other perils as may be specified in the Supplementary Conditions; shall include damages, losses and expenses arising out of or resulting from any insured loss or incurred in the repair or replacement of any insured property (including but not limited to fees and charges of engineers, architect, attorney and other professionals). If not covered under the "all risk" insurance or otherwise provided in the Supplementary Conditions, Contractor shall purchase and maintain similar property insurance on portions of the Work stored on or off site or in transit when such portions of the Work are to be included in an Applications for Payment.
- b. Town shall purchase and maintain such boiler and machinery insurance as may be required by the Supplementary Conditions or by law. This insurance shall include the interest of the Town, Contractor, Subcontractors and Engineer in the Work, but only to the extent required by the Supplementary Conditions or by law.
- c. Town shall not be responsible for purchasing and maintaining any property insurance to protect the interests of the Contractor or Subcontractors in the work to the extent of any deductible amounts that are provided in the Supplementary Conditions. The risk of loss within the deductible amount shall be borne by the Contractor, and if Contractor wishes property insurance coverage within the limits of such amounts, Contractor may purchase and maintain it at Contractor's own expense.
- d. If Contractor requests in writing that other special insurance be included in the property insurance policy, Town shall, if possible, include such insurance, and the cost thereof shall be charged to Contractor by appropriate Change Order. Prior to commencement of the

INSURANCE AND INDEMNIFICATION REQUIREMENTS

Work at the site, Town will in writing advise Contractor whether such other insurance has been procured by the Town.

- e. The policies of insurance required shall contain a provision that in the event of payment for any loss under the coverage provided, the insurer will have no rights of recovery against any of the parties enumerated. It is the intention of the Owner and Contractor that the policies shall protect all of the enumerated parties and be primary coverage for any and all losses covered by the insurance described.
6. Waiver of Rights: Town and Contractor waive all rights against each other and the Subcontractors and their agents and employees and against Engineer and separate contractors (if any) and their subcontractors' agents and employees, for damages caused by fire or other perils to the extent covered by insurance provided, or any other property insurance applicable to the Work, except such rights as they may have to the proceeds of such insurance held by Owner as trustee. Town shall require similar waivers in writing from each Subcontractor; each such waiver will be in favor of all other parties enumerated.
7. Receipt and Application of Proceeds: Town as trustee shall have power to adjust and settle any loss with the insurers. Any insured loss under the policies of insurance shall be adjusted with Owner and made payable to Town as trustee for the insured, as their interests may appear, subject to the requirements of any applicable mortgage clause. Town shall deposit in a separate account any money so received, and he shall distribute it in accordance with such agreement as the parties in interest may reach. If no other special agreement is reached, the damaged Work shall be repaired or replaced, the moneys so received applied on account thereof and the Work and the cost thereof covered by an appropriate Change Order.

Other Conditions

Claims Made Coverage Guidelines - General or Professional Liability

The Town requires that the Certificate of Insurance include the retroactive date of the policy. Retroactive dates must be either before or coincident with the Contract's inception.

The Town requires prompt and immediate notice of the following:

1. Erosion of any aggregate limits.
2. Advance of any retroactive dates.
3. Cancellation or non renewal. Prior 30 day notice.

The Town requires that any extended reporting period premium be paid by the named insured. The reporting of possible claims to the Town of Wethersfield is necessary and the Town retains the right to require that the extended reporting period be invoked by the Contractor at his/her expense. The Town requires that if any excess coverage is secured to meet the requirements that the retroactive dates be concurrent with the primary policy and that the retro dates be either before or coincident with the inception of the Contract. If the retroactive date is moved, or if the policy is canceled or not renewed, the Contractor must invoke the tail coverage option, at no expense to the Town but rather at the expense of the Contractor, in order to adequately assure that the policy meets the above requirements.

If, at any time, any of the said policies shall be or become unsatisfactory to the Town, as to form or substance, or if a surety issuing any such shall become unsatisfactory to the Town, the Bidder shall promptly obtain a new policy, submit same to the Purchasing Agent for approval and submit a certificate thereof as

INSURANCE AND INDEMNIFICATION REQUIREMENTS

hereinabove required. Upon the failure of the Bidder to furnish, deliver or maintain same, this contract, at the election of the Town, may be forthwith declared suspended, discontinued or terminated. Failure of the Bidder in the above shall not relieve same from any/all liability under the contract, nor shall the insurance requirements be construed to conflict with the obligations of the Bidder concerning indemnification.

In the event that claims in excess of these amounts are filed by reason of any operations under this contract, the amount of excess of such claims, or any portion thereof, may be withheld from payment due or to become due the Bidder until such time as the Bidder shall furnish such additional security covering such claims as may be determined by the Town.

Note: Proof of insurance in accordance with these specifications must accompany bid submission.

APPENDIX II

ORDINANCE PROVIDING FOR LOCAL PREFERENCE

ORDINANCE PROVIDING FOR LOCAL PREFERENCE

TOWN BASED BUSINESS

The term “town based business” shall mean a business with a principal business located within the Town of Wethersfield. A business shall not be considered a town based business, unless evidence submitted with each bid submitted by said business to establish that said business has a bona fide principal place of business in Wethersfield. Such evidence may include evidence of ownership of or a long term lease of the real estate from which the principal place of business is operated, or payment of property taxes on the personal property of the business to be used in performance of the bid.

LOWEST RESPONSIBLE BIDDERS

On any project the lowest responsible bidder shall be determined in the following order:

Provided that such town based resident bidder shall have met all other requirements set forth in this article, any Town based resident bidder which has submitted a bid not more than ten (10) percent higher than the lowest most responsible bid may be awarded the bid provided such town based bidder agrees to accept the award of the bid at the amount of the lowest most responsible bid.

If more than one town based resident bidder has submitted a bid not more than ten (10) percent higher than the lowest responsible bid, the lowest responsible bidder shall be that one of the town based resident bidders which had submitted the lowest bid.

IMPLEMENTATION OF LOCAL BIDDER PREFERENCE

Any local vendor meeting the requirements of a local vendor as defined in the above ordinance responding to the solicitation shall be required to submit a signed Local Bidder Affidavit form with their bid submittal. Failure to submit an affidavit form, approved by the Town of Wethersfield, may result in your disqualification as a local vendor and ineligibility for contract award.

RESTRICTION OF USE OF LOCAL BIDDER PREFERENCE

This section shall not apply in those instances where the bid requested involves a cooperation purchasing arrangement between the Town and other municipalities or the State of Connecticut.

APPENDIX III

AFFIDAVIT PURSUANT TO THE ORDINANCE PROVIDING FOR LOCAL PREFERENCE

**AFFIDAVIT PURSUANT TO THE
ORDINANCE PROVIDING FOR LOCAL PREFERENCE**

(It is not necessary to submit this form unless you are a Wethersfield Town-based Business)

The undersigned, being duly sworn, disposes and says as follows:

1. That he/she is over the age of eighteen (18) years of age;
2. That he/she believes in and understands the obligations of an oath;
3. That he/she is submitting a bid as a “town based business”, pursuant to those conditions delineated in the Town of Wethersfield’s Ordinance Providing for Local Preference.

Name of Local Bidder
(Please Print)

Date

Signature of Local Bidder

APPENDIX IV

MUNICIPAL CODE - CHAPTER 105 NOISE CONTROL

MUNICIPAL CODE - CHAPTER 105 **NOISE CONTROL**

- § 105-1 Title
- § 105-2 Purpose
- § 105-3 Definitions
- § 105-4 Noise Measurement Procedures
- § 105-5 Noise Levels
- § 105-6 Background and Impulse Noise
- § 105-7 Exceptions
- § 105-8 Vehicle Noise Restrictions
- § 105-9 Penalties For Offenses
- § 105-10 Variances
- § 105-11 More Stringent Provisions to Apply

[HISTORY: Adopted by Town Council of the Town of Wethersfield as Secs. 3-4-1 through 3-4-12 of the Code of 1972 Section 105-3 amended at time of adoption of Code; see Ch. 1, General Provisions, Art. II. Other amendments noted where applicable.]

GENERAL REFERENCES

Noise to attract sales – See Ch. 116.

§ 105-1 Title

The short title of this chapter shall be the “Town of Wethersfield Noise Control Ordinance”.

§ 105-2 Purpose

It is recognized that people have a right to and should be ensured an environment free from excessive sound and vibration that may jeopardize their health, safety or welfare or degrade the quality of their lives. This chapter is enacted to protect, preserve and promote the health, safety, welfare and quality of life for the citizens of Wethersfield through the reduction, control and prevention of noise.

§ 105-3 Definition

1. BACKGROUND NOISE – Noise of a measurable intensity which exists at a point as a result of a combination of many distant sources individually indistinguishable. In statistical terms, it is the level which is exceeded ninety (90%) of the time (L90) in which the measurement is taken.
2. BUSINESS ZONE: - Those areas so designated under Business Zone No. 1 (B-1), Business Zone No. 2 (B-2), Planned Development – Office Zone (PD-O) and Planned Development – Business Zone – (PD-B) of the Zoning Regulations of the Town of Wethersfield.
3. CHIEF OF POLICE – The Chief of Police of the Town of Wethersfield or a duly authorized officer subject to his order.
4. CONSTRUCTION – The assembly, erection, substantial repair, alteration, demolition or site preparation for or of public rights-of- way, buildings or other structures, utilities or property.
5. CONSTRUCTION EQUIPMENT – Any equipment or device operated by fuel or electric power used in construction or demolition work.
6. DAYTIME HOURS – The hours between 7:00 a.m. and 10:00 p.m. Monday through Saturday and the hours between 9:00 a.m. and 10:00 p.m. on Sunday.
7. DECIBEL – A unit of measurement of the sound level, the symbol for which is “db.”.
8. DEMOLITION – Any dismantling, intentional destruction or removal of structures, utilities, public or private right-of way surfaces or similar property.

MUNICIPAL CODE - CHAPTER 105
NOISE CONTROL

9. DOMESTIC POWER EQUIPMENT – Includes but not limited to power saws, drills, grinders, lawn and garden tools and other domestic power equipment intended for use in residential areas by a homeowner.
10. EMERGENCY VEHICLE – Any motor vehicle authorized by any local authority to have sound warning devices, such as sirens and bells, which can lawfully be used when responding to an emergency.
11. EMERGENCY WORK – Work made necessary to restore property to a safe condition following an emergency or work required to protect persons or property from exposure to imminent changes.
12. EXCESSIVE NOISE – Any sound, the intensity of which exceeds the standards set forth in §105-5.
13. IMPULSE NOISE – Sound of short duration, usually less than one (1) second, with an abrupt onset and rapid decay.
14. INDUSTRIAL ZONE – Those areas so designated under the Industrial Zone (I) and Industrial Park Zone (IP) of the Zoning Regulations of the Town of Wethersfield.
15. INTRUSION ALARM – A device with an audible signal and which, when activated, indicates an intrusion by an unauthorized person.
16. MOTOR VEHICLE – A vehicle as defined in Subdivisions (30) and (31) of Section 14-1, Connecticut General Statutes, Revision of 1958, as amended.
17. MUFFLER – A device for abating sound such as escaping gases.
18. NIGHTTIME HOURS – The hours between 10:00 p.m. and 7:00 a.m. Sunday evening through Saturday morning and between 10:00 p.m. and 9:00 a.m. Saturday evening through Sunday morning.
19. NOISE LEVEL – The sound-pressure level as measured with a sound-level meter using the A-weighting network. The sound level is designated “db(A)” or “db(a)”.
20. PERSON – Any individual, firm, partnership, association, syndicate, company, trust, corporation, municipality, agency or political or administrative subdivision of the state or other legal entity of any kind.
21. PREMISES – Any building, structure, land or portion thereof, including all appurtenances, owned or controlled by a person. A noise emitter's premises including contiguous publicly dedicated street and highway rights-of-way, all road rights-of way and waters of the state.
22. PROPERTY LINE – That real or imaginary line along the ground surface and its vertical extension which separates real property owned or controlled by any person from contiguous real property owned and controlled by another person and which separates real property from the public right-of-way.
23. PUBLIC RIGHT-OF-WAY – Any street, avenue, boulevard, highway, sidewalk, alley, park, waterway, railroad or similar place which is owned or controlled by a government entity.
24. RECREATIONAL VEHICLE – Any internal-combustion-engine-powered vehicle which is being used for recreational purposes.
25. RESIDENTIAL ZONES – Those areas so designated under Special Resident Zone (SR), AA Residence Zone, A-1 Residence Zone, A Residence Zone, B Residence Zone, C Residence Zone, Planned Development – Medium Density Residence Zone (PD-MDR), Planned Development – High Density Residence Zone (PD-HDR) and Planned Development – Elderly Housing Zone (PD-EH) of the Zoning Regulations of the Town of Wethersfield.
26. SOUND – A transmission of energy through solid, liquid or gaseous media in the form of vibrations which constitute alterations in pressure or position of the particles in the medium and which, in air, evoke physiological sensations, including but not limited to an auditory response when impinging on the ear.

MUNICIPAL CODE - CHAPTER 105 **NOISE CONTROL**

27. **SOUND LEVEL METER** – An instrument used to measure sound levels. A “sound-level-meter” shall conform, as a minimum, to the American National Standards Institute operational specifications for sound level meters §1.4-1971 (Type S2A).
28. **SOUND-PRESSURE LEVEL** – Twenty (20) times the logarithm to the base 10 of the ratio of the pressure of a sound to the reference pressure of a sound to the reference pressure of twenty (20) micronewtons per square meter (20×10^6 newtons/meters²) or two ten-thousandths (0.0002) dyne per square centimeter, and is expressed in decibels (db).

§ 105-4 Noise Measurement Procedure

For the purpose of determining noise levels as set forth in this chapter, the following guidelines shall be applicable.

- A. A person conducting sound measurements shall have been trained in the techniques and principles of sound-measuring equipment and instrumentation.
- B. Instruments used to determine sound-level measurement shall be sound-level meters as defined in this chapter.
- C. The following steps should be taken when preparing to take sound level-measurements:
 1. The instrument manufacturer's specific instructions for the preparation and use of the instrument shall be followed.
 2. Measurements to determine compliance with § 105-5 shall be taken at a point that is located more or less (1) foot beyond the property line of the noise emitter's premises and within the noise receptor's premise.
 3. The recommended practices for determining statistical noise levels shall be those as outlined in the document entitled “Connecticut Noise Survey Data Form No. 101”.

§ 105-5 Noise Levels

It shall be unlawful for any person to emit or cause to be emitted any noise beyond the property lines of his/her premises in excess of the following noise levels:

Zone in Which Noise Receptor is Located

Zone in Which Noise Emitted is Located	Industrial [db(A)]	Business [db(A)]	Residential Daytime Hours[db(A)]	Residential Nighttime Hours[db(A)]
Industrial	70	66	61	51
Business	62	62	55	45
Residential	62	55	55	45

§ 105-6 Background and Impulse Noise

- A. In those individual cases where the background noise levels caused by sources not subject to this chapter exceed the standards contained herein, a source shall be considered to cause excessive noise if the noise emitted by such source exceeds the background noise levels by five (5) db(A), provided that no source subject to the provisions of this chapter shall emit noise in excess of eighty (80) db(A) at any time and provided that this section does not decrease the permissible levels of other sections of this chapter.
- B. No person shall cause or allow the emission of impulse noise in excess of eighty (80) db peak sound-pressure level during nighttime hours to any residential zone.
- C. No person shall cause or allow the emission of impulse noise in excess of one hundred (100) db peak sound-pressure level at any time to any zone.

MUNICIPAL CODE - CHAPTER 105
NOISE CONTROL

§ 105-7 Exceptions

- A. This chapter shall not apply to noise emitted by or related to:
 1. Natural phenomena.
 2. Any bell or chime from any building clock, school or church.
 3. Any siren, whistle or bell lawfully used by emergency vehicles or any other alarm systems used in an emergency situation.
 4. A public emergency sound signal.
 5. Warning devices required by the Occupational Safety and Health Administration or other state or federal safety regulation
 6. Farming equipment or farming activity.
 7. An emergency.
 8. Snow removal equipment.
- B. The following shall be exempt from this chapter, subject to special conditions as specified.
 1. Noise generated by construction equipment which is operated during daytime hours, provided that the operation of construction equipment during nighttime hours shall not exceed the maximum noise levels as specified in § 105-5.
 2. Noise from domestic power equipment operated during daytime hours.
 3. Noise from demolition work conducted during daytime hours, provided that when considered emergency work, demolition shall be exempted at all times from the noise levels set in this chapter.
 4. Noise created by any aircraft flight operations which are specifically preempted by Federal Aviation Administration.
 5. Noise created by any recreational activities which are permitted by law and for which a license or permit has been granted by the town, including but not limited to parades, sporting events, concerts and fireworks displays.
 6. Noise created by blasting other than that conducted in connection with construction activities shall be exempted, provided that the blasting is conducted between 8:00 a.m. and 5:00 p.m. local time, at specified hours previously announced to the local public and provided that a permit for such blasting has been obtained from local authorities,
 7. Noise created by leaf, refuse and solid waste collection, provided that the activity is conducted during the hours specified in this Code, or if no hours are specified or are specifically prohibited, then during daytime hours. [Amended 9-7-1993]
 8. Noise created by fire or intrusion alarm shall, from time of activation of the audible signal, emit noise for a period of time not exceeding ten (10) minutes when such alarm is attached to a vehicle or thirty (30) minutes when attached to any building or structure.
 9. Public-address systems used in election campaign activities during daylight hours only.

§ 105-8 Vehicle Noise Restrictions

The following activities are prohibited:

- A. Motor vehicle noise. All motor vehicles operated within the limits of the Town of Wethersfield shall be subject to the noise levels set forth in the regulations authorized in Section 14-80a of the Connecticut General Statutes.

MUNICIPAL CODE - CHAPTER 105
NOISE CONTROL

- B. Motor vehicle sound-amplifying devices. No sound-amplifying devices on or within motor vehicles shall emit noise in excess of the noise levels as specified in §105-5.
- C. Recreational vehicles noise. No person shall create or cause to be created any unreasonably loud or disturbing noise due to the operation of a recreational vehicle. A noise shall be deemed to be unreasonably loud and a violation of this chapter when the noise so generated exceeds the noise level standards set forth in §105-5.

§ 105-9 Penalties For Offenses

Any person in violation of any of the provisions of this chapter shall be deemed guilty of a misdemeanor and, upon conviction thereof, shall be fined in an amount not to exceed fifty dollars (\$50). Each day that such violation continues after the time for correction of the violation given in an order shall constitute a continuing violation, and the amount of the fine shall be doubled for each day said violation continues, said fine not to exceed four hundred dollars (\$400) per day.

§ 105-10 Variances

- A. Any person living or doing business in Wethersfield may apply to the Chief of Police for a variance from one (1) or more of the provisions of this chapter which are more stringent than the Connecticut Department of Environmental Protection regulations for the control of noise, provided that the applicant supplies all of the following information to the Chief of Police at least twenty (20) days prior to the start of the activity for which the variance is sought:
 1. The location and nature of the activity
 2. The time period and hours of operation of said activity.
 3. The nature and intensity of the noise that will be generated.
- B. No variance from this chapter shall be granted unless it has been demonstrated that:
 1. The proposed activity will not violate any provisions of the Connecticut Department of Environmental Protection regulations;
 2. The noise levels generated by the proposed activity will not constitute a danger to the public health; and
 3. Compliance with this chapter constitutes an unreasonable hardship on the applicant.
- C. The application for a variance shall be reviewed and approved or rejected at least five (5) days prior to the start of the proposed activity. Approval or rejection shall be made in writing and shall state the condition(s) of approval, if any, or the reason(s) for rejection.
- D. Failure to rule on an application within the designated time shall constitute approval of the variance.

§ 105-11 More Stringent Provisions to Apply

All provisions of the Zoning Regulations of the Town of Wethersfield which are more stringent than those set forth herein shall remain in force. If, for any reason, any word, clause, paragraph or section of this chapter shall be held to make the same unconstitutional or be superseded by any State laws or regulations, this chapter shall not thereby be invalidated, and the remainder of the chapter shall continue in effect.

APPENDIX V
TREE PROTECTION

TREE PROTECTION

1. PURPOSE

- (a) The purpose of these specifications is to provide guidelines for the preservation of beneficial urban or community trees during the construction and installation of underground utilities and/or road or sidewalk improvements.

2. GENERAL

- (a) Trees located near construction and excavation projects are impacted in two major areas; above ground impacts such as trunk injuries and broken branches. Corrective treatments are directed to the trunk or branches as needed. However, damage to a tree's root system is not obvious and not easily treated. The underground portions of a tree are just as important as the above ground parts.

The roots of a healthy tree will extend anywhere between one and one-half to three times the tree's height. This distance can be considered as the tree's root zone. Anytime construction enters within the drip line of a tree, you are operating in the Critical Root Zone of that tree. Trenching within the drip line of a tree can sever 30% - 50% of the trees root system, depending how close it is to the tree's trunk. Soil compaction by heavy equipment and general operations will further diminish the tree's ability to sustain itself. The following specifications are provided to preserve street trees during construction and to reduce tree mortality due to construction and associated impacts.

- (b) Wood products with pentachlorophenol and creosote are not permitted near trees.
- (c) Alkaline clays or limestone should not be used as fill or paving near trees.
- (d) Concrete should be mixed in thick plastic tarp or outside the site.

3. IMPLEMENTATION

- (a) Protection and repair of impacts to above ground portions of street trees.

1. Prior to beginning any construction activities a CT Licensed Arborist or tree service should remove all trees designated for removal and, where appropriate, the Arborist or tree service should prune tree branches for Crown Elevation and Safety Pruning. The minimum pruning height may be increased if large trenching equipment may damage higher limbs and branches. This will reduce the possibility of breaking or damaging limbs with equipment during construction. Also, at this time, the Arborist or tree service should prune (thin) all trees identified to be significantly impacted by the construction and designated for protection. This will reduce leaf surface and help to compensate for root loss. The extent of pruning should be proportional to the amount of root system impacted. If the trees to be pruned are on private property, approval of the property owner must be obtained prior to the work.
2. During construction, extreme care should be exercised to avoid equipment damage to the tree trunks and lower branches. Damaged or broken branches and tree trunk injuries should be reported to the Engineer and be professionally treated as soon as possible.
3. Where designated by the Engineer and prior to construction, trees requiring protection shall be fenced off and/or the trunks protected from equipment damage.
4. All pruning or treatment for damaged trees shall be approved by the Engineer.

- (b) Root Zone Protection:

TREE PROTECTION

1. Before beginning any construction activities, trees to be retained shall be protected with fencing. The purpose of the fencing is to prevent root damage to soil compaction. Soil compaction can be caused by heavy equipment, truck traffic, and stockpiling fill or other construction materials on the root system of a tree. As much of the tree's root zone as possible should be fenced off. The minimum area to be fenced off would be that area within the drip line of the tree; otherwise known as the Critical Root Zone. The fencing should be highly visible, of sturdy construction, and at least four feet high. Fences may be snow fence, synthetic fabric, or plastic fence. If traffic over tree roots is unavoidable, contractor shall furnish and spread several inches of wood chips on the soil or install a root system bridge.
2. Any excavation within the Critical Root Zone will be done carefully so as to minimize damage to tree roots. No more than 25% of roots within drip line of tree shall be disturbed. In no case are tree roots to be ripped, torn or crushed during excavation. Bulldozers and backhoes are not acceptable means for root cutting. Instead, all tree roots with a diameter of one-half (1/2) inch or larger shall be cut cleanly with sharp lopping shears. Tree roots too large for lopping shears may be cut with a power cutoff saw equipped with a fiber masonry blade. Roots must be protected from sunlight and drying action, and covered with soil, mulch or damp burlap. Following such root pruning, backfill adjacent to the roots shall be good-quality topsoil mixed with an equal amount of peat moss. Excavated roots will be backfilled with soil as soon as possible following pruning to prevent moisture stress; and in no case will roots be left exposed longer than the end of the work day on which they were first uncovered.
3. Immediately after construction, all existing affected trees within the project area shall be fertilized by high pressure liquid injection method with a slow release (5-30-30) organic fertilizer mixed with an organic root growth enhancer, at rate of 75 gallons per 1,000 square feet root area (12 lb. fertilizer per 100 gallons of water). Trees shall be regularly watered if rainfall is inadequate during construction.

(c) Tree Removal and Replacement

1. Where existing trees are shown on the plans to be removed, the Contractor shall remove the tree only if it has been posted and marked for removal by the Town of Wethersfield Tree Warden. The trees shall be removed by a qualified Arborist or an experienced tree removal firm. The tree trunk shall be cut, as close to the ground surface as possible and the stump shall be ground to a point at least 12 inches below the ground surface. All wood and debris shall be removed from the site and disposed of in a proper manner.
2. The plans may designate that new trees be planted in available space within the street right-of-way or within easement areas. If new trees are to be planted, the trees shall have a minimum caliper and height called for in the plans.
3. Tree removal and planting shall be paid at the unit price bid for the appropriate item in the Bid Form.

(d) Tree / Shrub Lifting Replanting

1. Where designated on the Construction Drawings, certain trees and shrubs shall be temporarily lifted from their current position and transplanted back to their original or to new locations.
2. By utilizing a large "tree spade", relatively small trees and shrubs (ranging from 1" to 10" caliper measurement) can be lifted, the trench excavated, the pipe installed,

TREE PROTECTION

the trench backfilled and the tree/shrub reset as a series of operations over a generally short period of time. It is essential that the following specifications are followed exactly to ensure that any additional damage is not done to the trees above and beyond the impact of the planned excavation.

3. Tree Lifting: A large size tree space capable of moving trees 10" DBH should be utilized. This type of equipment can dig and lift trees and shrubs while preserving a large volume root ball. While the tree spade is holding the tree and root ball, the trench can be excavated, the sewer line can be installed, and the trench can be partially backfilled. It is important that the backfill is properly compacted for the replanting of the tree so that the tree will not settle. If the tree is allowed to settle or lower its position relative to its original grade, the development of the tree will be affected.
4. Tree Re-Planting: Once the tree is replaced in its original position in the landscape, the tree planting hole shall be backfilled in a zone two feet wide adjacent to the root ball with the original topsoil removed from the trench that has been mixed with an equal amount (50 – 50) with peat moss. Excavated trees must be backfilled the same day to prevent drying. If the planting or backfilling is delayed, the tree shall be watered as recommended by the Arborist.
 - a. The tree shall then be staked in a triangular configuration to ensure stability.
 - b. The tree or shrub shall be thoroughly watered at the time of replanting and watered at least weekly for an amount equivalent of 1" of rain.
5. Tree Fertilization and Aeration.
 - a. Because the root system of the tree has been diminished by transplanting, it is important to fertilize the tree to provide a nutrient rich environment for re-growth.
 - b. Immediately after construction this tree shall be fertilized by high-pressure liquid injection method with a slow release organic fertilizer mixed with an organic root growth enhancer.
 - c. The following rates will apply:
12 lbs. of Doggett 5-30-30 tree fertilizer (or approved equivalent) per 100 gallons of water. Apply 75 gallons of this mixture per 1,000 square feet of available root area. Soil injection should be 8-12 inches deep using an injector probe at 150 – 200 lbs. Pressure. Injection shall begin two feet out from the trunk of the tree and be spaced two and a half feet apart, injecting on a grid extending to the outer most limit of the root ball.
6. The cost of the designated tree/shrub lifting and re-planting shall be included in the price bid for the respective bid item.

(e) When directed by the Engineer and prior to the construction or replacement of sidewalks, a root barrier shall be installed along sidewalks that are adjacent to all trees, which are to remain. The length of the root barrier required shall be as recommended by the Tree Warden or as directed by the Engineer. In no case shall the length of the root barrier be less than 12 feet. Unless otherwise directed by the Engineer, root barriers shall have a minimum depth of 24 inches.

(f) Compensation for Damaged or Destroyed Trees: The Town of Wethersfield Tree Warden will evaluate the condition of each tree within the project area and calculate the dollar value of the damage done to each tree during construction. The total value of the tree damage will be deducted from the Contractor's final payment.

APPENDIX VI
NO-BID RESPONSE FORM

TOWN OF WETHERSFIELD
Purchasing Office
505 SILAS DEANE HIGHWAY
WETHERSFIELD, CT 06109
“NO BID” RESPONSE

Name of Bid/RFP/RFQ: _____

Date of Bid Opening: _____

For tracking, audit, and record-keeping purposes, we would very much appreciate knowing the reason why you have chosen not to submit a proposal for the above-referenced Public Bid, RFP or RFQ.

Would you please take a moment to provide a brief explanation below for not submitting a proposal to us for this purchase?

Please also indicate if you would like to continue to receive bids and quotes from us in the future for above-referenced related purchases. If we do not receive this form back, we will assume you are no longer interested in receiving bids and quotes from us.

Please continue to send me bids, quotes, and RFPs. Yes _____ No _____

Company name _____

Mailing address _____

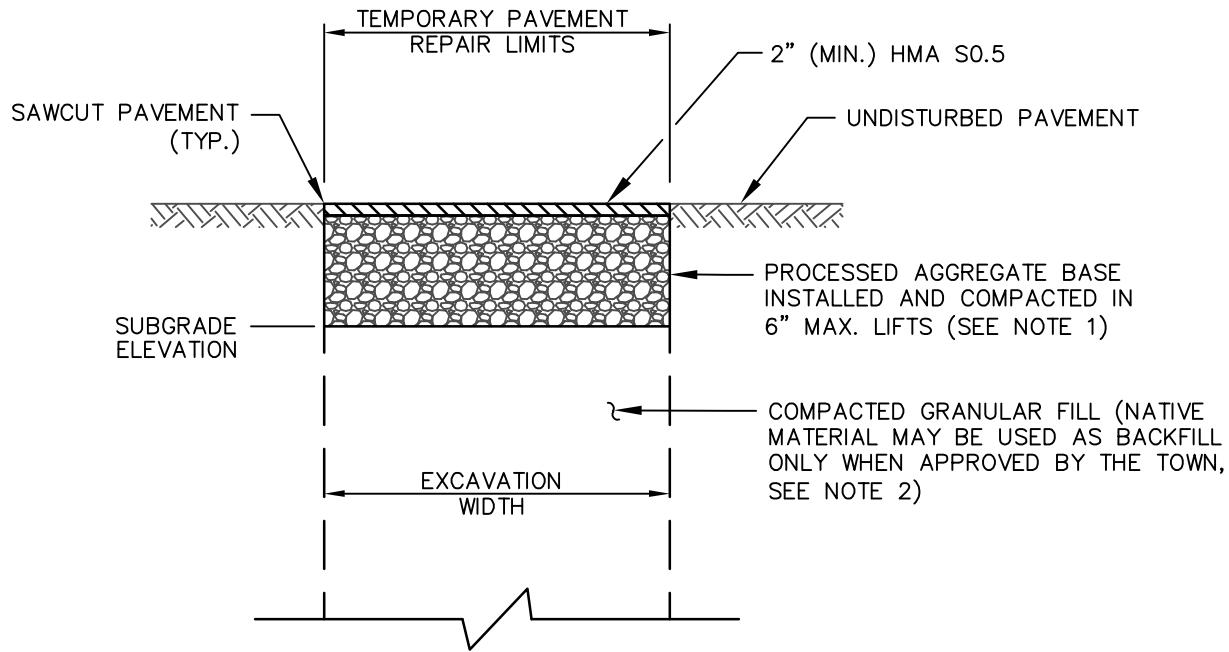
Phone _____ Fax _____ Email _____

Your name _____ Date _____

This may be mailed, faxed, or e-mailed back to us at:

Town of Wethersfield
Attn: Purchasing Office
505 Silas Deane Highway
Wethersfield, CT 06109
Fax: 860 721-2997
E-mail: miguel.robles@wethersfieldct.gov
Thank you for your response.

APPENDIX VII
STANDARD CONSTRUCTION DETAILS



NOTES:

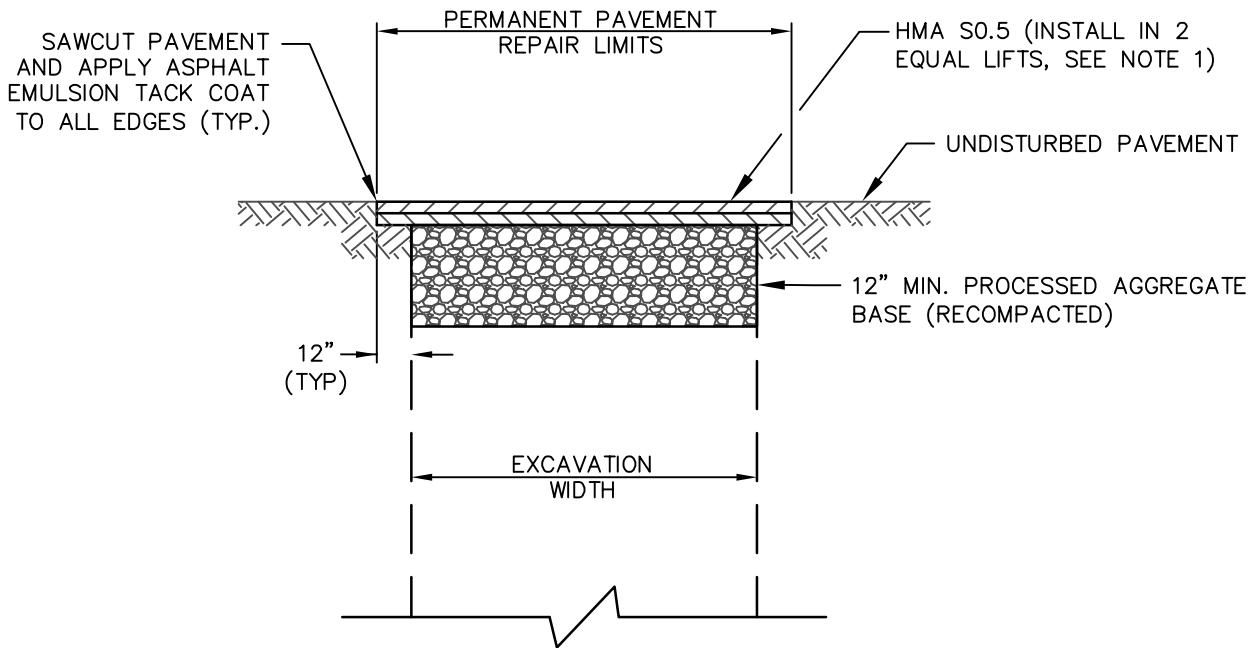
1. PROCESSED AGGREGATE BASE SHALL BE INSTALLED TO PROVIDE 12" MIN. THICKNESS BELOW THE BOTTOM OF THE EXISTING PAVEMENT SECTION
2. WHEN REQUIRED BY THE TOWN, THE CONTRACTOR SHALL SUBMIT TEST RESULTS CONFIRMING THAT COMPACTION OF THE TOTAL TRENCH AREA MEETS 95% COMPAKTED DENSITY.
3. TEMPORARY PAVEMENT REPAIRS SHALL BE INSTALLED AND REMAIN IN PLACE FOR A MINIMUM OF NINETY (90) DAYS BEFORE PERMANENT REPAIRS ARE COMPLETED.
4. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO CTDOT FORM 817 STANDARDS.

**TOWN OF WETHERSFIELD
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION**

**2018-2019 SIDEWALK PROGRAM
STANDARD CONSTRUCTION DETAILS**

**TEMPORARY PAVEMENT
REPAIR**

DRAWN BY: LB	DATE: FEBRUARY 2018	Sheet No.
REVIEWED BY: DM		
APPROVED BY: DG	SCALE: NONE	1 of 14



NOTES:

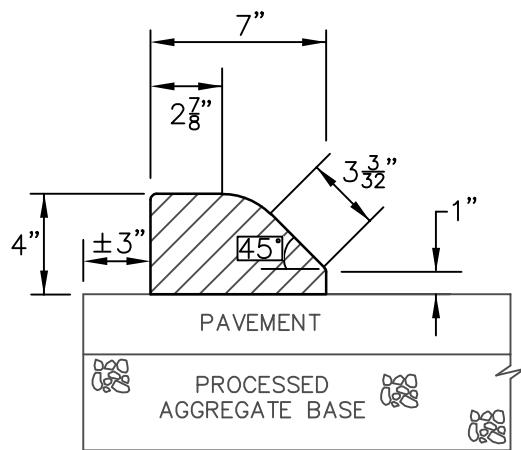
1. NEW PAVEMENT SHALL MATCH EXISTING PAVEMENT THICKNESS OR BE INSTALLED WITH A 4" MIN. THICKNESS, EXCEPT FOR MAJOR TOWN ROADS LISTED ON SHEET 14 WHERE A 5" MIN. PAVEMENT THICKNESS IS REQUIRED.
2. TEMPORARY PAVEMENT REPAIRS SHALL REMAIN IN PLACE FOR A MINIMUM OF NINETY (90) DAYS BEFORE PERMANENT REPAIRS ARE COMPLETED.
3. ALL JOINTS BETWEEN NEW AND EXISTING PAVEMENT SHALL BE SEALED WITH A LIQUID BITUMINOUS CONCRETE SEALER.
4. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO CTDOT FORM 817 STANDARDS.

**TOWN OF WETHERSFIELD
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION**

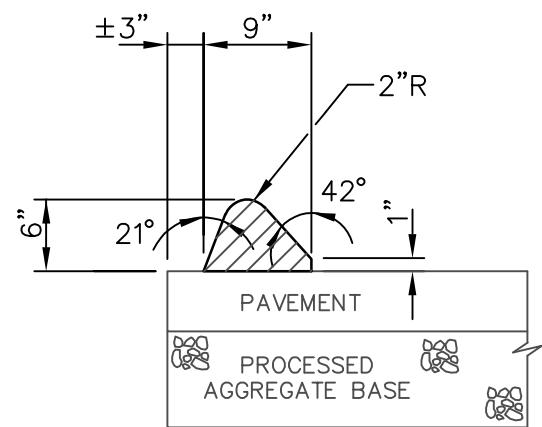
**2018-2019 SIDEWALK PROGRAM
STANDARD CONSTRUCTION DETAILS**

**PERMANENT PAVEMENT
REPAIR**

DRAWN BY: LB	DATE: FEBRUARY 2018	Sheet No.
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APPROVED BY: DG	SCALE: NONE	2 of 14



**4" BITUMINOUS CONCRETE
PARK CURB**



**6" BITUMINOUS CONCRETE
LIP CURB**

NOTE:

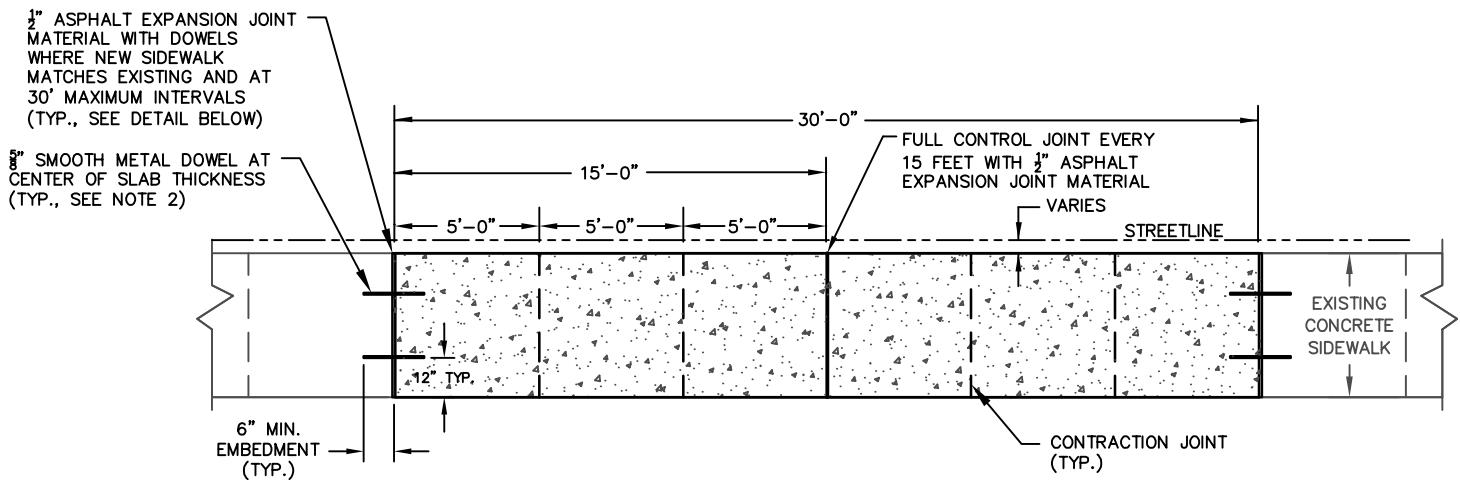
1. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO CTDOT FORM 817 STANDARDS.

**TOWN OF WETHERSFIELD
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION**

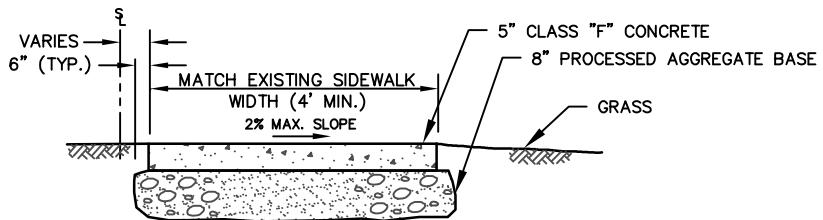
**2018-2019 SIDEWALK PROGRAM
STANDARD CONSTRUCTION DETAILS**

**BITUMINOUS CONCRETE
CURB**

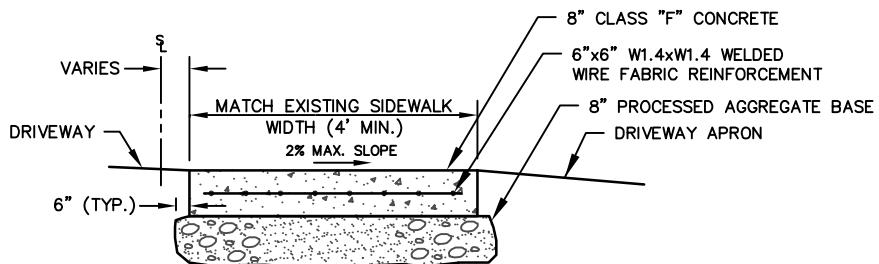
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REVIEWED BY: DM	SCALE: NONE	
APPROVED BY: DG		3 of 14



PLAN



SECTION VIEW OF
5" CONCRETE SIDEWALK
(FOR PEDESTRIAN TRAFFIC ONLY)



SECTION VIEW OF
8" REINFORCED CONCRETE SIDEWALK
(FOR VEHICLE TRAFFIC)

NOTES:

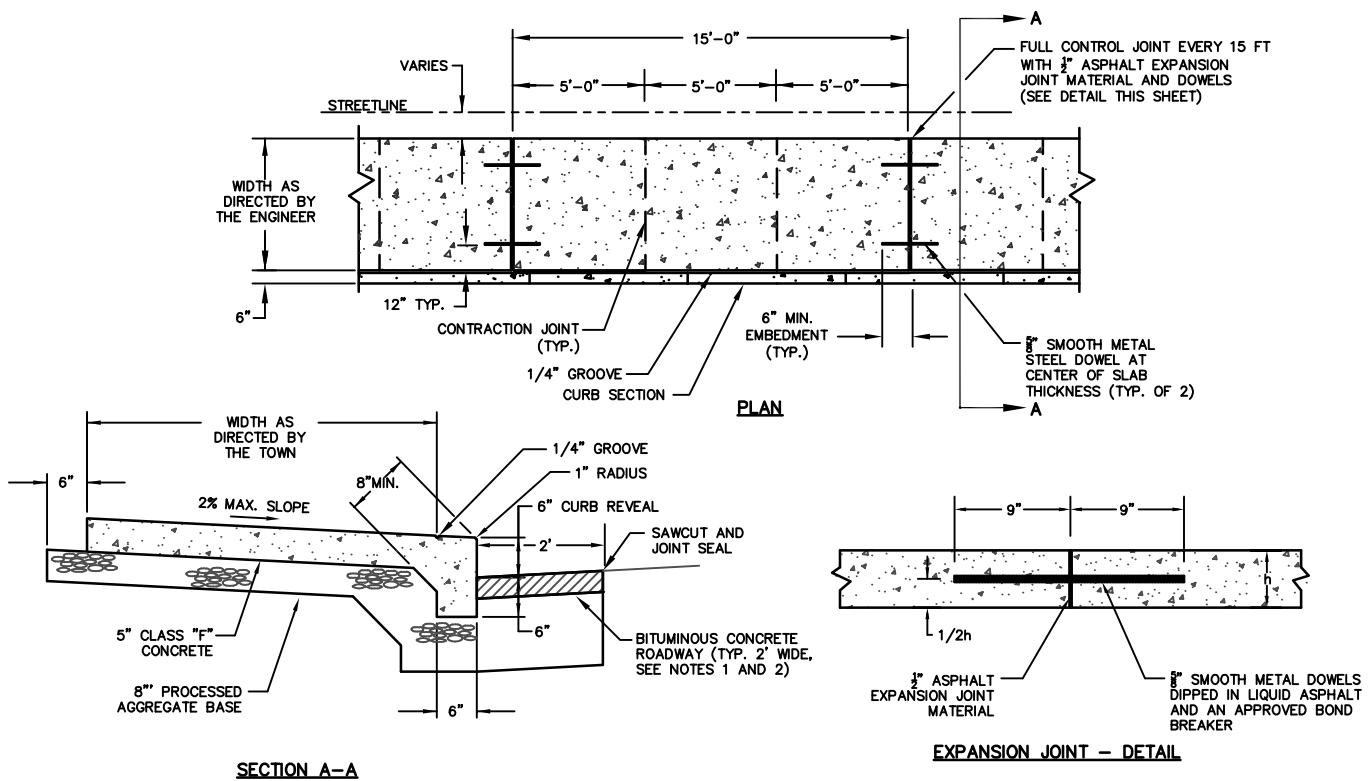
1. NO UTILITY POLES, SIGNS OR OTHER OBSTRUCTIONS SHALL BE LOCATED WITHIN THE LIMITS OF NEW 5" OR 8" CONCRETE SIDEWALK.
2. DOWELS SHALL BE DIPPED IN LIQUID ASPHALT AND AN APPROVED BOND BREAKER OR PLASTIC SLEEVE MUST BE PROVIDED ON ONE SIDE OF THE JOINT PRIOR TO INSTALLATION.
3. LIMITS OF DISTURBANCE TO ADJACENT LAWN AREAS AND DRIVEWAYS SHALL BE MINIMIZED DURING CONSTRUCTION.
4. REINFORCED CONCRETE SIDEWALK MUST BE INSTALLED ACROSS ALL DRIVEWAYS TO ACCOMMODATE VEHICLE LOADS. SEE BITUMINOUS CONCRETE DRIVEWAY APRON DETAIL FOR ASSOCIATED REQUIREMENTS.
5. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO CTDOT FORM 817 STANDARDS.

**TOWN OF WETHERSFIELD
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION**

**2018-2019 SIDEWALK PROGRAM
STANDARD CONSTRUCTION DETAILS**

CONCRETE SIDEWALK

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NOTES:

1. NEW PAVEMENT SHALL MATCH EXISTING PAVEMENT THICKNESS OR BE INSTALLED WITH A 4" MIN. THICKNESS, EXCEPT FOR MAJOR TOWN ROADS LISTED ON SHEET 14 WHERE A 5" MIN. PAVEMENT THICKNESS IS REQUIRED.
2. PROCESSED AGGREGATE BASE SHALL BE INSTALLED TO PROVIDE 12" MIN. THICKNESS BELOW THE BOTTOM OF THE EXISTING PAVEMENT SECTION.
3. NO UTILITY POLES, SIGNS OR OTHER OBSTRUCTIONS SHALL BE LOCATED WITHIN THE LIMITS OF NEW MONOLITHIC CONCRETE SIDEWALK AND CURB.
4. DOWELS SHALL BE DIPPED IN LIQUID ASPHALT AND AN APPROVED BOND BREAKER OR PLASTIC SLEEVE MUST BE PROVIDED ON ONE SIDE OF THE JOINT PRIOR TO INSTALLATION.
5. LIMITS OF DISTURBANCE TO ADJACENT LAWN AREAS AND DRIVEWAYS SHALL BE MINIMIZED DURING CONSTRUCTION.
6. REINFORCED CONCRETE SIDEWALK MUST BE INSTALLED ACROSS ALL DRIVEWAYS TO ACCOMMODATE VEHICLE LOADS. SEE BITUMINOUS CONCRETE DRIVEWAY APRON DETAIL FOR ASSOCIATED REQUIREMENTS.
7. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO CTDOT FORM 817 STANDARDS.

**TOWN OF WETHERSFIELD
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION**

**2018-2019 SIDEWALK PROGRAM
STANDARD CONSTRUCTION DETAILS**

**5" MONOLITHIC CONCRETE
SIDEWALK AND CURB**

DRAWN BY: LB	DATE: FEBRUARY 2018	Sheet No.
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CONCRETE SIDEWALK RAMP NOTES

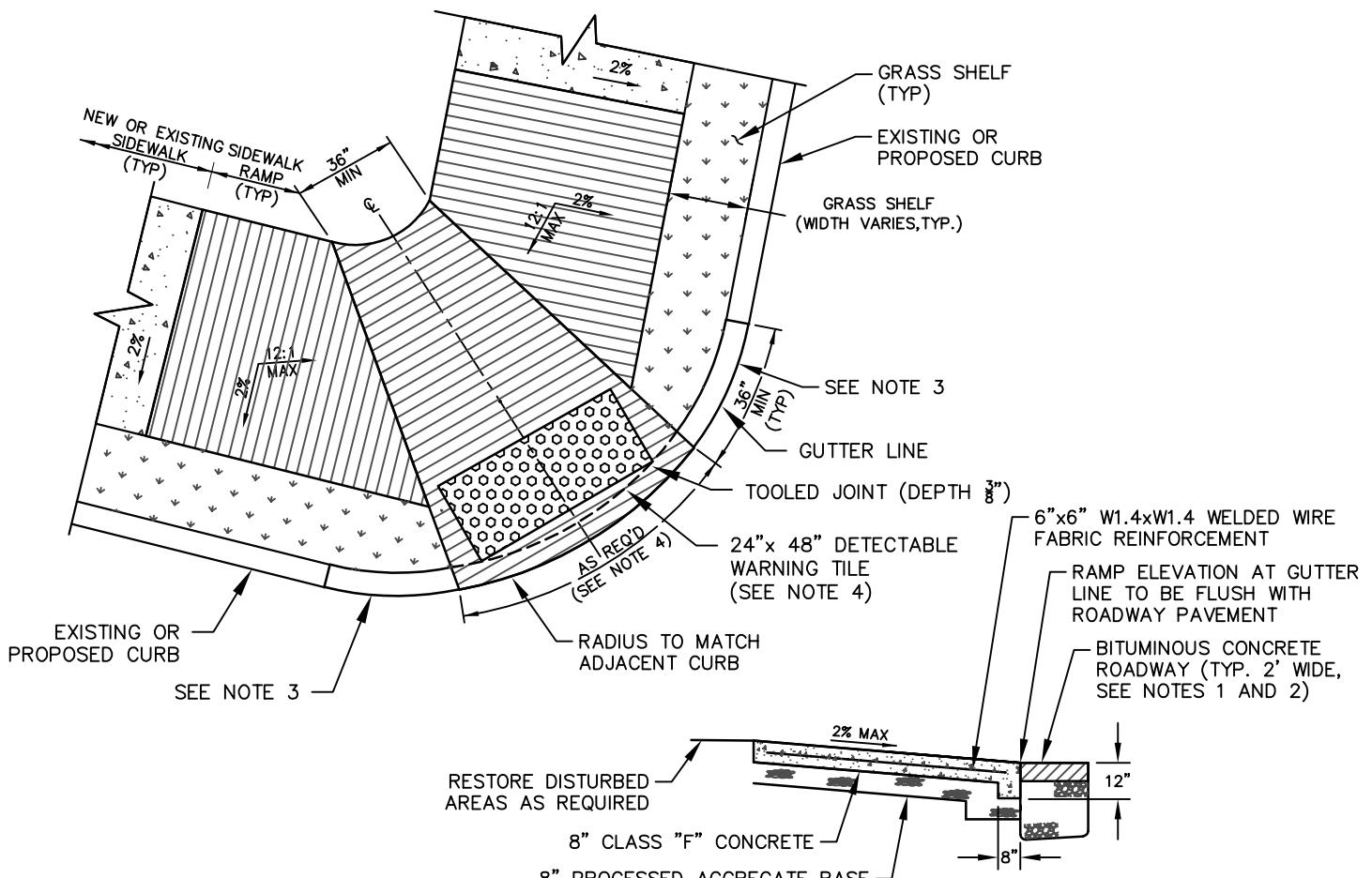
1. ALL SIDEWALK RAMPS SHALL COMPLY WITH THE APPLICABLE STATUTES OF THE STATE OF CONNECTICUT AND FEDERAL REQUIREMENTS CONCERNING THE CONSTRUCTION OF SIDEWALK RAMPS TO MEET AMERICANS WITH DISABILITIES (ADA) STANDARDS.
2. SIDEWALK RAMPS SHALL BE CONSTRUCTED AT ALL EXISTING AND PROPOSED PEDESTRIAN CROSSINGS AND WHERE DIRECTED BY THE TOWN. WHENEVER FEASIBLE, SEPARATE RAMPS SHALL BE PROVIDED FOR EACH PEDESTRIAN CROSSING.
3. IN GENERAL, SIDEWALK RAMPS LOCATED NEAR STREET CORNERS SHALL BE CONSTRUCTED AT THE ENDS OF THE CURB RADIUS (I.E. POINTS OF CURVATURE AND TANGENT) UNLESS APPROVED OTHERWISE BY THE TOWN.
4. UTILITY POLES, SIGNS AND OTHER OBSTRUCTIONS SHALL NOT BE LOCATED WITHIN THE LIMITS OF RAMPS WHENEVER FEASIBLE. IF UNAVOIDABLE, A CLEARANCE OF 36" MINIMUM MUST BE PROVIDED BETWEEN THE OBSTRUCTION AND THE BACK EDGE OF THE RAMP OR FACE OF CURB.
5. SIDEWALK RAMPS SHALL BE INSTALLED ENTIRELY WITHIN THE PUBLIC RIGHT-OF-WAY. CARE SHALL BE TAKEN NOT TO DISTURB EXISTING MONUMENTATION THAT MAY PRESENT IN THE VICINITY.
6. WHENEVER FEASIBLE, SIDEWALK RAMPS SHALL NOT BE INSTALLED WITHIN THE LIMITS OF PROPOSED OR EXISTING CATCH BASINS.
7. THE FINAL TEXTURE OF THE CONCRETE RAMP SURFACE SHALL MATCH EXISTING, ADJACENT SIDEWALK.
8. CARE SHALL BE TAKEN TO ASSURE UNIFORM GRADE ON THE RAMP, FREE OF SAGS, LIPS AND ABRUPT GRADE CHANGES.
9. THE HAUNCH AT THE BOTTOM OF THE RAMP SHALL BE POURED INTEGRALLY WITH THE RAMP, SET FLUSH WITH THE GUTTER LINE, AND BEVELED.
10. WHEREVER FEASIBLE, MAXIMUM SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE SIDEWALK RAMP OR ACCESSIBLE ROUTE SHALL NOT EXCEED 5%. MAXIMUM COMBINED GRADE OF RAMP AND ADJOINING SURFACE SHALL NOT EXCEED 13%.
11. REMOVAL AND REPLACEMENT OF EXISTING SIDEWALK TO ACCOMMODATE NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION/CONTRACTION JOINT OR DUMMY JOINT THAT PROVIDES A MAXIMUM 12:1 SLOPE AS SHOWN IN THE DETAIL OR 15', WHICHEVER IS CLOSER, UNLESS OTHERWISE DIRECTED BY THE TOWN.
12. SIDEWALK RAMPS AT MARKED CROSSINGS SHALL BE COMPLETELY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES.
13. EXPANSION JOINTS IN CONCRETE SHALL MATCH THOSE IN ADJACENT SIDEWALKS BUT IN NO CASE SHALL THE SPACING BETWEEN EXPANSION JOINTS EXCEED 15' UNLESS OTHERWISE DIRECTED BY THE TOWN.
14. RAISED ISLANDS IN CROSSINGS SHALL HAVE SIDEWALK RAMPS AT BOTH SIDES AND A LEVEL AREA WITH A 4 FT MINIMUM LENGTH BETWEEN THE RAMPS IN THE AREA OF THE ISLAND INTERSECTED BY THE CROSSINGS. IF THIS CANNOT BE ACHIEVED, THE RAISED ISLAND SHALL BE CUT THROUGH LEVEL WITH THE ROADWAY.
15. INSTALL EDGE OF DETECTABLE WARNING TILES 6" FROM THE EDGE OF ROAD AND ALIGN DOMES ON A SQUARE GRID IN THE DIRECTION OF PEDESTRIAN TRAVEL.
16. LIMITS OF DISTURBANCE TO ADJACENT DRIVEWAY AND LAWN AREAS SHALL BE MINIMIZED DURING CONSTRUCTION.
17. ANY QUESTIONS PERTAINING TO LOCATION AND DIMENSIONS OF CONCRETE SIDEWALK RAMPS AND/OR PLACEMENT OF DETECTABLE WARNING TILES SHALL BE DIRECTED TO THE TOWN PRIOR TO INSTALLATION.
18. IMMEDIATELY NOTIFY THE TOWN IF EXISTING TREE ROOTS ARE ENCOUNTERED DURING THE WORK TO DISCUSS PROPER REMOVAL TO AVOID DAMAGING THE ASSOCIATED TREE.
19. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO CTDOT FORM 817 STANDARDS.
20. SEE ASSOCIATED SIDEWALK RAMP DETAILS FOR ADDITIONAL INFORMATION.

**TOWN OF WETHERSFIELD
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION**

**2018-2019 SIDEWALK PROGRAM
STANDARD CONSTRUCTION DETAILS**

**CONCRETE SIDEWALK RAMP
NOTES**

DRAWN BY: LB	DATE: FEBRUARY 2018	Sheet No.
REVIEWED BY: DM	SCALE: NONE	
APPROVED BY: DG		6 of 14



SECTION OF SIDEWALK RAMP AT Q

NOTES:

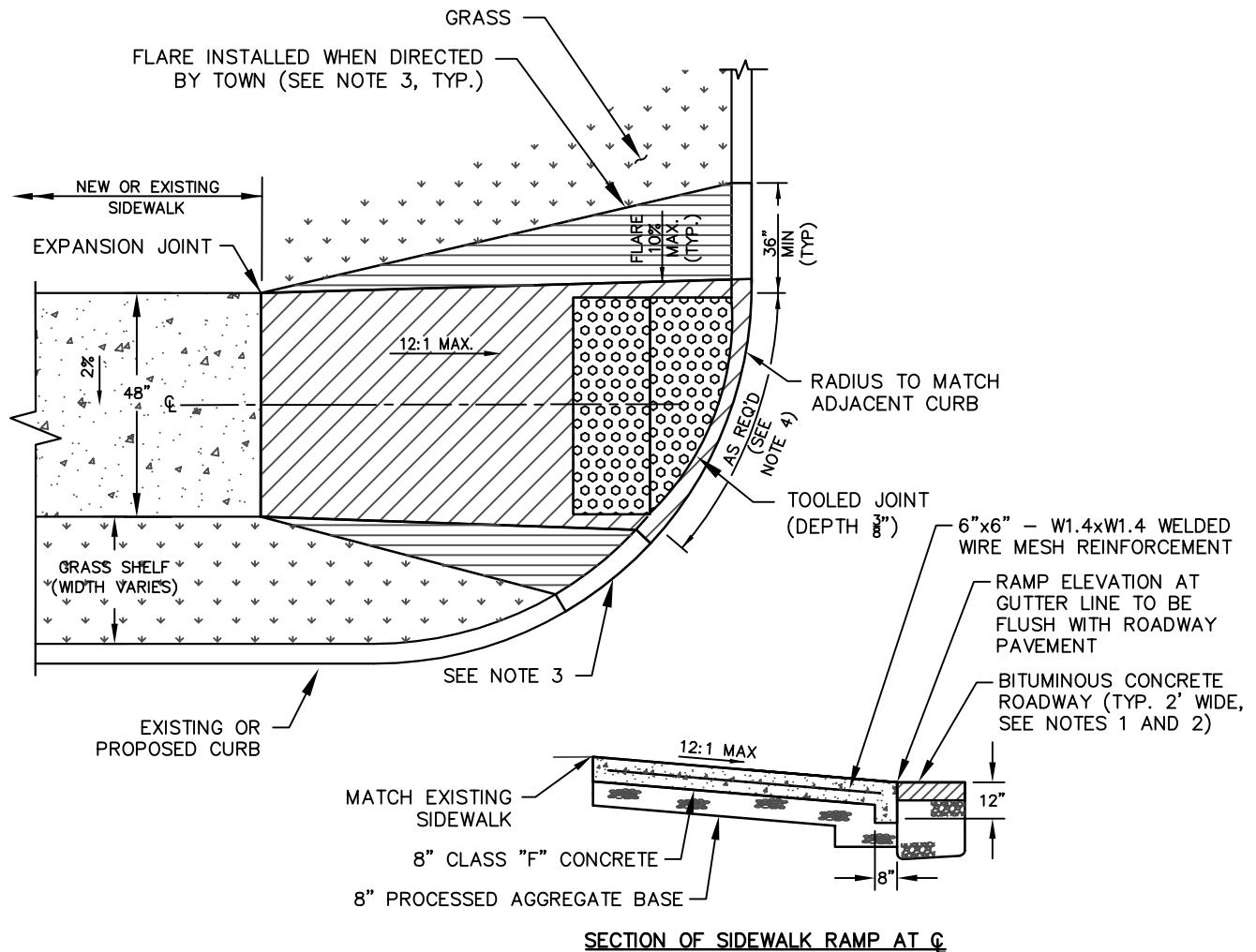
1. NEW PAVEMENT SHALL MATCH EXISTING PAVEMENT THICKNESS OR BE INSTALLED WITH A 4" MIN. THICKNESS, EXCEPT FOR MAJOR TOWN ROADS LISTED ON SHEET 14 WHERE A 5" MIN. PAVEMENT THICKNESS IS REQUIRED.
2. PROCESSED AGGREGATE BASE SHALL BE INSTALLED TO PROVIDE 12" MIN. THICKNESS BELOW THE BOTTOM OF THE EXISTING PAVEMENT SECTION
3. TRANSITION BITUMINOUS CONCRETE CURB TO MATCH SIDEWALK RAMP. IF CONCRETE FLARES (WINGS) ARE NECESSARY TO ACCOMMODATE ADJACENT GRADES, FLARES AND CONCRETE CURB SHALL BE POURED AND PAID WITH SIDEWALK RAMP.
4. POUR CONCRETE RAMP TO PROVIDE A 6" MINIMUM CLEARANCE BETWEEN DETECTABLE WARNING TILE AND EDGE OF RAMP.
5. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO CTDOT FORM 817 STANDARDS.
6. REFER TO CONCRETE SIDEWALK RAMP NOTES FOR ADDITIONAL INFORMATION.

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**CONCRETE SIDEWALK RAMP
TYPE A**

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NOTES:

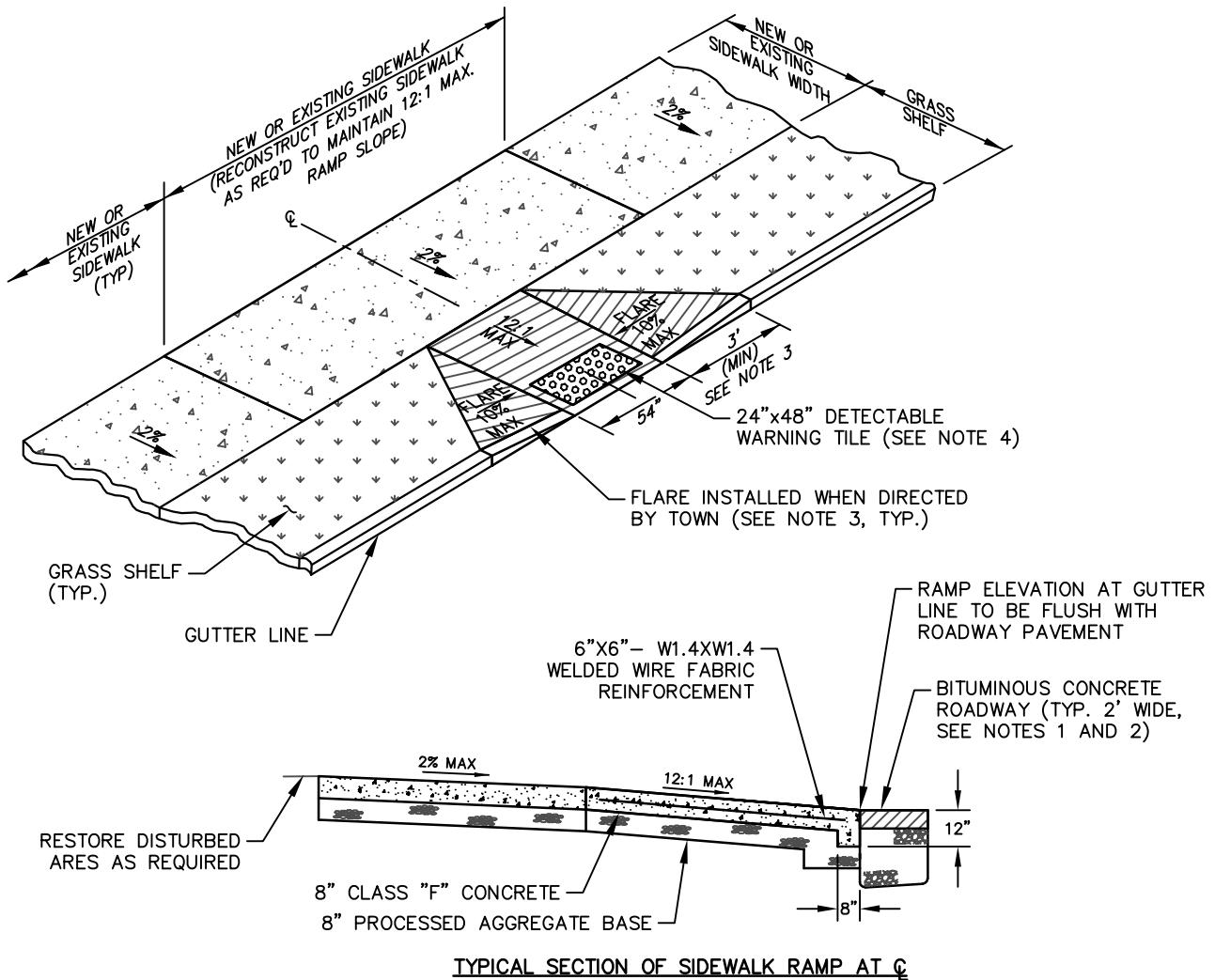
1. NEW PAVEMENT SHALL MATCH EXISTING PAVEMENT THICKNESS OR BE INSTALLED WITH A 4" MIN. THICKNESS, EXCEPT FOR MAJOR TOWN ROADS LISTED ON SHEET 14 WHERE A 5" MIN. PAVEMENT THICKNESS IS REQUIRED.
2. PROCESSED AGGREGATE BASE SHALL BE INSTALLED TO PROVIDE 12" MIN. THICKNESS BELOW THE BOTTOM OF THE EXISTING PAVEMENT SECTION.
3. TRANSITION BITUMINOUS CONCRETE CURB TO MATCH SIDEWALK RAMP. IF CONCRETE FLARES (WINGS) ARE NECESSARY TO ACCOMMODATE ADJACENT GRADES, FLARES AND CONCRETE CURB SHALL BE POURED AND PAID WITH SIDEWALK RAMP.
4. POUR CONCRETE RAMP TO PROVIDE A 6" MINIMUM CLEARANCE BETWEEN DETECTABLE WARNING TILE AND EDGE OF RAMP.
5. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO CTDOT FORM 817 STANDARDS.
6. REFER TO CONCRETE SIDEWALK RAMP NOTES FOR ADDITIONAL INFORMATION.

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**CONCRETE SIDEWALK RAMP
TYPE B**

DRAWN BY: LB	REVIEWED BY: DM	DATE: FEBRUARY 2018	Sheet No.
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NOTES:

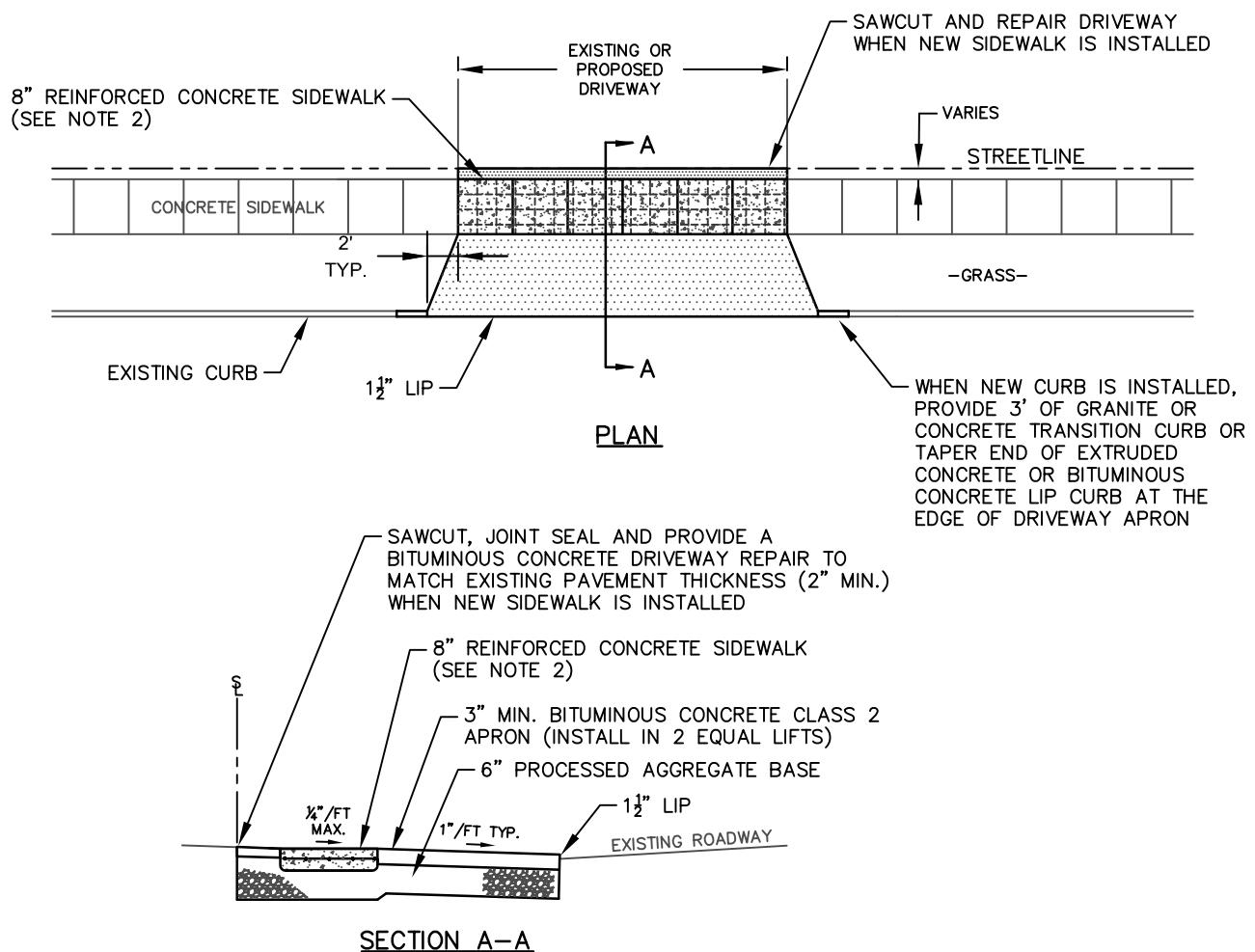
1. NEW PAVEMENT SHALL MATCH EXISTING PAVEMENT THICKNESS OR BE INSTALLED WITH A 4" MIN. THICKNESS, EXCEPT FOR MAJOR TOWN ROADS LISTED ON SHEET 14 WHERE A 5" MIN. PAVEMENT THICKNESS IS REQUIRED.
2. PROCESSED AGGREGATE BASE SHALL BE INSTALLED TO PROVIDE 12" MIN. THICKNESS BELOW THE BOTTOM OF THE EXISTING PAVEMENT SECTION.
3. TRANSITION BITUMINOUS CONCRETE CURB TO MATCH SIDEWALK RAMP. IF CONCRETE FLARES (WINGS) ARE NECESSARY TO ACCOMMODATE ADJACENT GRADES, FLARES AND CONCRETE CURB SHALL BE POURED AND PAID WITH SIDEWALK RAMP.
4. POUR CONCRETE RAMP TO PROVIDE A 6" MINIMUM CLEARANCE BETWEEN DETECTABLE WARNING TILE AND EDGE OF RAMP.
5. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO CTDOT FORM 817 STANDARDS.
6. REFER TO CONCRETE SIDEWALK RAMP NOTES FOR ADDITIONAL INFORMATION.

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**2018-2019 SIDEWALK PROGRAM
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**CONCRETE SIDEWALK
RAMP TYPE C**

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NOTES:

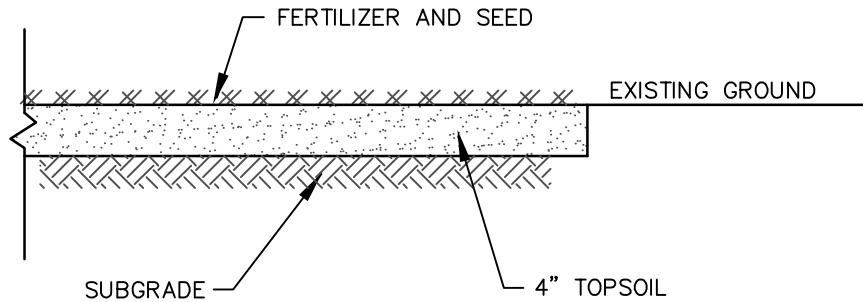
1. SEE RESPECTIVE DETAILS FOR CONCRETE SIDEWALK AND CURB REQUIREMENTS.
2. REINFORCED CONCRETE SIDEWALK MUST BE INSTALLED ACROSS DRIVEWAY LIMITS TO ACCOMMODATE VEHICLE LOADS. REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION.
3. MINIMUM DISTANCE BETWEEN MULTIPLE DRIVEWAY OPENINGS SHALL BE 10'.
4. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO CTDOT FORM 817 STANDARDS.

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**2018-2019 SIDEWALK PROGRAM
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**BITUMINOUS CONCRETE DRIVEWAY
APRON (WITH SIDEWALK)**

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NOTES:

1. PERMANENT GRASS SEED MIX SHALL BE APPLIED FROM APRIL 1 THOUGH JUNE 15 OR AUGUST 15 THROUGH OCTOBER 1 AND SHALL MEET CTDOT FORM 817 AS FOLLOWS:

Species*	Proportion by Weight (Mass) (Pounds)	Minimum Purity (Percent)	Minimum Germination (Percent)
VELVET BENTGRASS, (AGROSTIS CANINA) CERTIFIED VARIETY OR EQUAL CERTIFIED VARIETY	25	96	85
RED FESCUE (FESTUCA RUBRA L. SSP. RUBRA) CERTIFIED VARIETY OR EQUAL CERTIFIED VARIETY	35	97	80
PARTRIDGE PEA (CHAMAECRISTA FASCICULATA) CERTIFIED VARIETY	10	95	90
INDIAN GRASS (SORGHASTRUM NUTANS) CERTIFIED VARIETY	15	95	90
CANADA WILDRYE (ELYMUS CANADENSIS) CERTIFIED VARIETY	5	95	90
KENTUCKY BLUE GRASS (POA PRATENSIS) CERTIFIED VARIETY	10	95	90

* UNDER NO CIRCUMSTANCES SHALL RYEGRASS, ITALIAN RYE OR ANY OTHER SEED BE ADDED TO THE SEED MIXTURE UNLESS APPROVED BY THE TOWN.

2. PERENNIAL RYEGRASS (LOLIUM PRENNE) SHALL BE APPLIED AS TEMPORARY GRASS SEED FROM MARCH 15 THROUGH JULY 1 OR AUGUST 1 THROUGH OCTOBER 15.

**TOWN OF WETHERSFIELD
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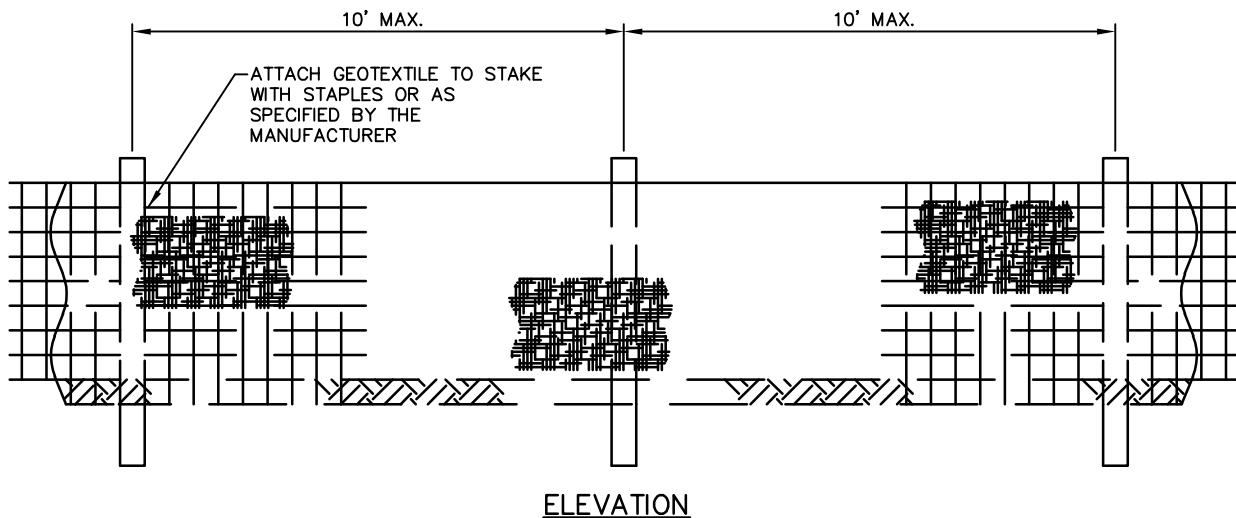
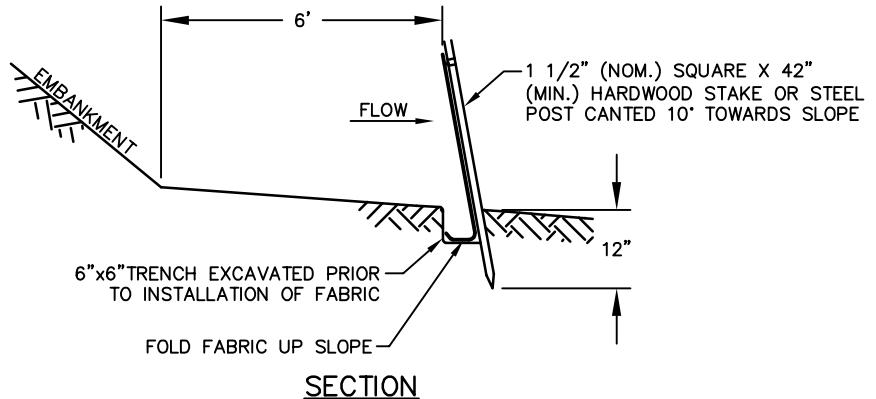
**2018-2019 SIDEWALK PROGRAM
STANDARD CONSTRUCTION DETAILS**

LAWN RESTORATION

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NOTES:

1. SEDIMENT CONTROL FABRIC SHALL BE A GEOTEXTILE MATERIAL TREATED TO RESIST DEGRADATION FROM EXPOSURE TO SUNLIGHT AND MUST BE LISTED ON THE CONNECTICUT DEPARTMENT OF TRANSPORTATION APPROVED MATERIALS LIST.
2. AFTER FOLDING FABRIC EDGE, BACKFILL TRENCH WITH ORIGINAL SOIL AND BUTTRESS THE SPLAY WITH MULCH OR LEAF LITTER.

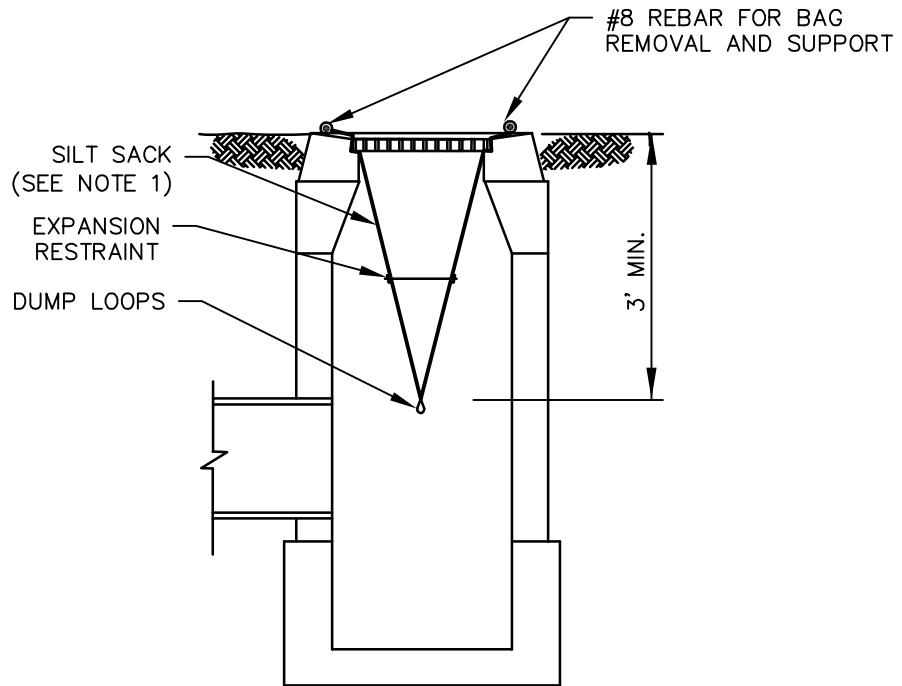


**TOWN OF WETHERSFIELD
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SILT FENCE

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NOTES:

1. SILT SACKS SHALL BE HI-FLOW SILTSACK® 'TYPE A' FOR TYPE "C-L" CB TOPS AND 'TYPE B' WITH CURB DEFLECTORS FOR TYPE "C" CB TOPS OR OTHER STRUCTURES WITH CURB INLETS AS MANUFACTURED BY ACF ENVIRONMENTAL, INC OR APPROVED EQUAL.
2. SILT SACKS SHALL BE PROVIDED WITH INTERNAL OVERFLOWS.
3. SILT SACKS SHALL BE EMPTIED WHEN THEY HAVE COLLECTED 6" TO 12" OF SEDIMENT. INSPECT EVERY 1 TO 2 WEEKS AND AFTER EVERY MAJOR RAINFALL EVENT.

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SILT SACK

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LOCAL ROADS REQUIRING 5" MIN. HMA 50.5 PAVEMENT THICKNESS

ROAD NAME	FROM	TO
CHARTER ROAD	ROCKY HILL TOWN LINE	MAPLE STREET (STATE RTE 3)
CHURCH STREET	WOLCOTT HILL ROAD	MAIN STREET
FOLLY BROOK BOULEVARD	NOTT STREET	HARTFORD TOWN LINE
GOFF ROAD	PROSPECT STREET (STATE RTE 287)	NOTT STREET
GRISWOLD ROAD	PROSPECT STREET (STATE RTE 287)	MAPLE STREET (STATE RTE 3)
HANG DOG LANE	HIGHLAND STREET	MAPLE STREET (STATE RTE 3)
HARTFORD AVENUE	STATE STREET	HARTFORD TOWN LINE
HIGHLAND STREET	ROCKY HILL TOWN LINE	GRISWOLD ROAD
MAIN STREET	SPRING STREET	STATE STREET
MARSH STREET	MAIN STREET	MEADOW VIEW ROAD
MIDDLETOWN AVENUE	ROCKY HILL TOWN LINE	MAPLE STREET (STATE RTE 3)
MILL STREET	MAPLE STREET (STATE RTE 3)	MIDDLETOWN AVENUE
NOTT STREET	BERLIN TURNPIKE (STATE RTE 5/15)	SILAS DEANE HIGHWAY (STATE RTE 99)
RIDGE ROAD	PROSPECT STREET (STATE RTE 287)	HARTFORD TOWN LINE
SPRING STREET	MAPLE STREET (STATE RTE 3)	MAIN STREET
STATE STREET	HARTFORD AVENUE	MAIN STREET
THORNBUSH ROAD	HIGHLAND STREET	PROSPECT STREET (STATE RTE 287)
TWO ROD HIGHWAY	NEWINGTON TOWN LINE	HIGHLAND STREET
WELLS ROAD	SILAS DEANE HIGHWAY (STATE RTE 99)	SPRING STREET
WOLCOTT HILL ROAD	PROSPECT STREET (STATE RTE 287)	HARTFORD TOWN LINE

STATE ROADS REQUIRING CTDOT ENCROACHMENT PERMITS

ROAD NAME	FROM	TO
BERLIN TURNPIKE (STATE RTE 5/15)	NEWINGTON TOWN LINE	WILBUR CROSS HIGHWAY (STATE RTE 5/15)
BERLIN TURNPIKE (STATE RTE 314)	WILBUR CROSS HIGHWAY (STATE RTE 5/15)	JORDAN LANE (STATE RTE 314)
BERLIN TURNPIKE (STATE RTE 543)	JORDAN LANE (STATE RTE 314)	HARTFORD TOWN LINE
INTERSTATE 91	HARTFORD TOWN LINE	ROCKY HILL TOWN LINE
JORDAN LANE (STATE RTE 314)	BERLIN TURNPIKE (STATE RTE 5/15)	SILAS DEANE HIGHWAY (STATE RTE 99)
MAPLE STREET (STATE RTE 3)	ROCKY HILL TOWN LINE	ELM STREET
NOTT STREET (STATE ROUTE 422)	SILAS DEANE HIGHWAY (STATE RTE 99)	HARTFORD AVENUE
PROSPECT STREET (STATE RTE 287)	NEWINGTON TOWN LINE	MAPLE STREET (STATE RTE 3)
SILAS DEANE HIGHWAY (STATE RTE 99)	ROCKY HILL TOWN LINE	HARTFORD TOWN LINE
STATE ROUTE 3	ELM STREET	GLASTONBURY TOWN LINE
WELLS ROAD (STATE RTE 175)	NEWINGTON TOWN LINE	SILAS DEANE HIGHWAY (STATE RTE 99)
WILBUR CROSS HIGHWAY (STATE RTE 5/15)	BERLIN TURNPIKE (STATE RTE 5/15)	HARTFORD TOWN LINE

NOTES:

1. ALL PAVEMENT REPAIRS WITHIN TOWN ROADS SHALL BE COMPLETED IN ACCORDANCE WITH DETAILS PROVIDED IN THIS DRAWING SET.
2. ALL PAVEMENT REPAIRS IN STATE ROADS REQUIRE A CTDOT ENCROACHMENT PERMIT AND SHALL BE COMPLETED AS DIRECTED BY THE CTDOT.

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**2018-2019 SIDEWALK PROGRAM
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**PAVEMENT REPAIR REQUIREMENTS
FOR MAJOR ROADS**

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APPENDIX VIII

TECHNICAL SPECIFICATIONS

BITUMINOUS CONCRETE CURB

DESCRIPTION

“Bituminous Concrete Curb” of the type specified includes the furnishing and installation of machine laid or hand placed bituminous concrete, constructed on a prepared bituminous concrete pavement to the dimensions and details shown on the Plans or as directed by the Engineer.

MATERIALS

Bituminous concrete shall conform to the requirements of Section M.04 (Curb Mix) of Form 817.

Tack coat shall conform to the requirements of Section M.04 of Form 817.

CONSTRUCTION METHODS

Construction methods shall conform to the requirements of Section 8.15.03 of Form 817.

MEASUREMENT AND PAYMENT

“Bituminous Concrete Curb” of the type specified will be measured and paid at the contract unit price for the actual number of linear feet installed as measured along the top of the curb, installed and accepted, complete in place, including all materials, equipment, tools and labor incidental thereto.

Backfilling of the curb with acceptable fill material to within four (4) inches of finished grade and restoration of lawn areas immediately behind curb in accordance with “Restoration of Lawn Areas” as specified elsewhere in these Specifications is included in this item.

The following items will not be measured separately for payment, but shall be considered as included in the unit price bid for “Bituminous Concrete Curb” of the type specified:

1. Removal and disposal of existing curb
2. Surface cleaning and preparation of existing bituminous concrete surface
3. Bituminous concrete
4. Tack Coat
5. Backfill and restoration of adjacent lawn areas

Pay Items

4" Bituminous Concrete Park Curb
6" Bituminous Concrete Lip Curb

Pay Unit

Linear Foot
Linear Foot

BITUMINOUS CONCRETE DRIVEWAY

DESCRIPTION

“Bituminous Concrete Driveway” includes the construction of a bituminous concrete driveway and driveway aprons, constructed on a processed aggregate base course in the locations and to the dimensions and details shown on the Plans or as directed by the Engineer.

MATERIALS

Processed Aggregate Base shall conform to the requirements of “Processed Aggregate Base” elsewhere in these Specifications.

Bituminous concrete shall be Class 2 as specified in Section M.04.02 of Form 816 or hot mix asphalt (HMA) S0.375 as specified in Section M.04 of Form 817.

The tack coat to be used on all cold joints shall conform to the requirements of Section M.04 of Form 817.

Joint seal shall conform to the requirements of Section M.04.01.8 of Form 817.

CONSTRUCTION METHODS

Construction methods shall conform to the requirements of Section 9.22.03 of Form 817.

All soft and yielding material shall be removed and replaced with “Granular Fill” as specified elsewhere in these Specifications.

Where a joint is created, the existing pavement shall be sawcut square in a vertical and horizontal direction. The joint between the new and old pavement shall be sealed with an approved joint sealant.

MEASUREMENT AND PAYMENT

“Bituminous Concrete Driveway” will be measured and paid at the contract unit price for the actual number of square feet installed and accepted in accordance with limits identified below, complete in place, including all materials, equipment, tools and labor thereto.

Replacement of driveways and aprons located adjacent to new sidewalk installations shall be included in the cost of the associated concrete sidewalk bid items. This item shall only be used when adjustments to vertical elevations of the sidewalk and/or driveway are required and approved by the Engineer prior to construction. In these instances, the pay limits shall be for areas located 12" beyond the limits of new sidewalk.

When directed by the Town, this item shall also include temporary placement and removal of ramping (lumber or other means approved by the Town) to allow access to driveways during construction.

Driveways and aprons damaged due to carelessness on the part of the Contractor shall be restored by the

BITUMINOUS CONCRETE DRIVEWAY

Contractor, as directed by the Engineer, at no expense to the Town.

The following items will not be measured separately for payment, but shall be considered as included in the unit price bid for "Bituminous Concrete Driveway":

1. Excavation
2. Formation and compaction of subgrade and base materials
3. Processed aggregate base
4. Removal and disposal of existing sidewalks or pavement within the driveway or apron excavation limits
5. Bituminous Concrete Class 2 or HMA S0.5
6. Tack coat
7. Sawcutting
8. Joint sealant
9. Lumber for ramping
10. Restoration of disturbed lawn areas

Pay Items

Bituminous Concrete Driveway

Pay Unit

Square Foot

BITUMINOUS CONCRETE PAVEMENT REMOVAL

DESCRIPTION

“Remove Bituminous Concrete Pavement” shall consist of the permanent removal of existing bituminous concrete pavement **only when specifically shown on the Plans or directed by the Engineer**. This item is used only where the existing bituminous concrete surface is being removed and replaced with grass (i.e. narrowing of a road, removal of sidewalk or ramps, etc.).

Removal of existing bituminous concrete surfaces necessary for the construction of new concrete sidewalk, ramps, curb or road pavement, and for trenches, conduits or test pits is included in the unit price bid for those items.

MATERIALS

Not applicable.

CONSTRUCTION METHODS

The existing pavement shall be sawcut square in a vertical and horizontal direction.

MEASUREMENT AND PAYMENT

“Remove Bituminous Concrete Pavement” will be measured and paid at the contract unit price for the actual number of square yards of existing bituminous concrete pavement removed **only within areas shown on the Plans or where directed by the Engineer** and shall include all material, labor, tools and equipment incidental thereto.

Removal of existing bituminous concrete pavement associated with the construction of sidewalks, ramps, curbs, roadways, culverts, conduits, or test pits will not be measured separately for payment, but its cost shall be considered as included in the unit price bid for the associated item.

The following items will not be measured separately for payment, but shall be considered as included in the unit price bid for “Remove Bituminous Concrete Pavement”:

1. Excavation
2. Installation of granular fill or processed aggregate base
3. Formation and compaction of subgrade
4. Removal and disposal of pavement and excavated material
5. Sawcutting

Pay Items

Remove Bituminous Concrete Pavement

Pay Unit

Square Yard

BITUMINOUS CONCRETE ROADWAY

DESCRIPTION

“Bituminous Concrete Roadway” of the pavement thickness specified shall consist of the constructing a full depth pavement repair in an existing roadway where shown on the Plan or where directed by the Engineer. The pavement structure shall consist of bituminous concrete constructed on a prepared stabilized base and in accordance with lines and grades shown on the Plans or as directed by the Engineer.

MATERIALS

Bituminous Concrete shall conform to the requirements of hot mix asphalt (HMA) S0.5 as specified in Section M.04 of Form 817.

All materials will be supplied from a plant certified and approved by the State of Connecticut, Department of Transportation.

If it is found that any Bituminous Mixture, even though meeting the requirements of the Job Mix Formula, fails to perform satisfactorily, the producer shall on notice (1) immediately cease furnishing the material, (2) take immediate corrective steps to provide a mix which does perform satisfactorily.

When bituminous concrete is laid, only material conforming to the requirements of these specifications and approved by the Engineer shall be used in the work. If tests of samples removed from the work reveal that the mixture is inconsistent or that other than approved materials have been incorporated in the mixture, or that the mixture is not in accordance with the specifications and the product proves unsatisfactory, the Town reserves the right to demand the replacement of the unsatisfactory bituminous concrete. All expenses of the Town incidental to such replacement, including all costs incurred in putting the road in satisfactory condition, shall be paid by the Contractor.

Processed aggregate base shall conform to the specification for “Processed Aggregate Base” provided elsewhere in these Specifications.

The tack coat to be used on all cold joints shall conform to the requirements of Section M.04 of Form 817.

Joint seal shall conform to the requirements of Section M.04.01.8 of Form 817.

CONSTRUCTION METHODS

Construction methods shall conform to the requirements of Section 4.06.03 of Form 817.

In areas where, on account of physical limitations, it is impractical to operate the paving equipment, the Engineer will permit the use of other type spreader or the mixture may be spread and screeded by hand.

The Contractor shall cut a minimum of six (6) inches beyond each side of the area to be repaired or disturbed area with a cutting saw. The saw cut shall be vertical and in straight lines.

BITUMINOUS CONCRETE ROADWAY

MEASUREMENT AND PAYMENT

“Bituminous Concrete Roadway” of the pavement thickness specified will be measured and paid at the contract unit price for the actual number of square feet completed and accepted, to the limits and dimensions as shown on the plans and details or as directed by the Engineer, and all material, labor, tools and equipment incidental thereto.

As required, this item shall include temporary placement and removal of processed aggregate base (or other means approved by the Town) to allow access to concrete sidewalks and ramps during construction.

The following additional items will not be measured separately for payment, but shall be considered as included in the unit price bid for “Bituminous Concrete Roadway”:

1. Excavation
2. Formation and compaction of subgrade and base materials
3. Processed aggregate base
4. Removal and disposal of existing sidewalks or pavement within the driveway or apron excavation limits
5. Bituminous concrete (hot mix asphalt)
6. Tack coat
7. Sawcutting
8. Joint sealant
9. Temporary placement and removal of processed aggregate base material to grade (when directed by the Engineer)

Due to existing pavement conditions in some areas, the Engineer may direct the Contractor to reconstruct larger pavement repairs to provide suitable joints between new and existing pavement, which shall be measured and paid for in accordance with this Specification.

<u>Pay Items</u>	<u>Pay Unit</u>
Bituminous Concrete Roadway (4" HMA S0.5)	Square Feet
Bituminous Concrete Roadway (5" HMA S0.5)	Square Feet

BRICK PAVERS

DESCRIPTION

“Brick Pavers” includes the furnishing and installation of brick pavers to grade that match existing, adjacent pavers to the extent possible. It also includes the furnishing and installation of additional base material necessary to achieve the desired grade and polymeric sand for filling joints.

“Reset Brick Pavers” includes the removal and resetting of existing brick pavers to grade. It also includes the furnishing and installation of additional base material necessary to achieve the desired grade and polymeric sand for filling joints.

MATERIALS

Stone dust base material shall conform to the requirements for “Screenings” of Section M.01.01 of the Form 817.

Polymeric sand shall be as Flexlock as manufactured by New England Silica Inc., 1370 John Fitch Boulevard, P.O. Box 185, South Windsor, CT (860-289-7778, newenglandsilica.com) or approved equal.

CONSTRUCTION METHODS

Existing pavers shall be carefully removed to the limits shown on the Plan, stockpiled and protected as directed by the Engineer.

Additional stone dust, if required, shall be installed, graded and compacted. Pavers shall be reset on the compacted base in the same pattern as the existing. Polymeric sand shall be installed between the joints in accordance with the manufacturer’s requirements and the surface shall be swept.

MEASUREMENT AND PAYMENT

“Brick Pavers” will be measured and paid at the contract unit price for the actual number of square feet of brick pavers furnished, installed and accepted, complete in place, which price shall include furnishing and installing stone dust base material and polymeric sand, and shall constitute full compensation for all materials, tools, equipment and labor incidental thereto.

“Reset Brick Pavers” will be measured and paid at the contract unit price for the actual number of square feet of existing brick pavers removed, stored, reset and accepted, complete in place, which price shall include furnishing and installing stone dust base material and polymeric sand, and shall constitute full compensation for all materials, tools, equipment and labor incidental thereto.

Pay Items

Brick Pavers
Reset Brick Pavers

Pay Unit

Square Foot
Square Foot

CONCRETE SIDEWALK AND CONCRETE SIDEWALK RAMPS

DESCRIPTION

“5” Concrete Sidewalk” includes the construction of concrete sidewalk on a prepared processed aggregate base course in conformance with the lines, grades, dimensions and details as shown on the Plans or as directed by the Engineer. It shall also include the sawcutting, removal and disposal of existing sidewalk, tree roots, steps, ramps or pavement within the required excavation limits.

“5” Monolithic Concrete Sidewalk and Curb” includes the construction of concrete curb and sidewalk, monolithically poured, on a prepared processed aggregate base course in conformance with the lines, grades, dimensions and details as shown on the Plans or as directed by the Engineer. It shall also include the sawcutting, removal and disposal of existing sidewalk, tree roots, steps, ramps or pavement within the required excavation limits.

“8” Reinforced Concrete Sidewalk” includes the construction of concrete sidewalk reinforced with welded wire fabric on a prepared processed aggregate base course in conformance with the lines, grades, dimensions and details as shown on the Plans or as directed by the Engineer. It shall also include the sawcutting, removal and disposal of existing sidewalk, tree roots, steps, ramps or pavement within the required excavation limits.

“8” Reinforced Concrete Sidewalk Ramp” includes the construction of a concrete ramp reinforced with welded wire fabric on a prepared processed aggregate base course in conformance with the lines, grades, dimensions and details as shown on the Plans, or as directed by the Engineer. It shall also include the sawcutting, removal and disposal of existing sidewalk, tree roots, steps, ramps or pavement within the required excavation limits.

“Detectable Warning Tile” includes the installation of a new tile insert within an existing concrete sidewalk ramp that is in good structural condition and does not warrant complete replacement at locations identified by the Engineer. **This item is only for retrofit installation of detectable warning tile inserts within existing concrete sidewalk ramps at locations directed by the Engineer (this item does not apply to installations in new concrete sidewalk ramps).**

“Waterproofing and Exterior Protection Admixture” includes the addition of admixture to the concrete mix of the thickness specified for new sidewalks and ramps at Town facilities to minimize impacts of heavy salt application only at locations directed by the Engineer.

Concrete sidewalk and ramp elevations shall match existing adjacent sidewalks and bottom of sidewalk ramps shall be installed flush with adjacent pavement surfaces or as directed by the Engineer. Contractor shall confirm the required sidewalk ramp elevations with the Engineer prior to placement of forms. If not approved by the Engineer, the forms or finished concrete ramps may need to be removed and replaced to the correct elevation at the Contractor’s expense.

MATERIALS

1. Concrete

CONCRETE SIDEWALK AND CONCRETE SIDEWALK RAMPS

- a. The concrete furnished shall conform in respects to composition, transportation, mixing and placing to Class "F" Concrete (4,400 psi) as specified in Section M.03.01 of Form 817 or as modified herein.
- b. Test concrete in accordance with AASHTO or ASTM Standard Test Methods as listed herein.
- c. All concrete mixes shall include air entraining and water reducing admixtures and, as needed, a retarder or accelerator. All admixtures must be on the Connecticut DOT approved list.
- d. Entrained air contents shall be maintained as follows:

<u>Nominal Max Aggregate Size</u>	<u>Average Air Content</u>
3/8"	7.5%
1/2"	7.0%
3/4"	6.0%

A range of $\pm 1.5\%$ from the required average is permissible for field tests.

Test for air content of fresh concrete shall be made during construction. Due to the effects of mixing and vibration, samples for air content preferably should be taken from concrete after it has been placed by qualified technicians per ASTM C-231 or C-233 periodically or at any time as requested by the Engineer.

Slump at the point of placement shall be 4" ± 1 ".

- e. Water used in mixing concrete shall be clean, and free from deleterious amounts of acids, alkalis, or organic materials.
- f. No additional materials will be added to the concrete mix at the job site without the prior approval of the Engineer.

2. Reinforcing

- a. Welded wire mesh (WWM) shall be used in sidewalk across all driveways, ramps and at specified locations. The WWM shall be 6"x6" W1.4xW1.4 and conform to the latest AASHTO M 55M/M 55-94 "Standard Specifications for Welded Steel Wire Fabric for Concrete Reinforcement".

Written requests may be made to substitute synthetic fibers such as Fibermesh or approved equal for welded wire mesh with written approval of the Engineer. The addition rate shall be 1.5 lb/cu yard.

- b. Smooth metal dowels shall be $\frac{5}{8}$ " in diameter and 18 inches in length. All metal dowels shall conform to the requirements of AASHTO M31-92, Grade 60.
- c. Deformed bars shall conform to AASHTO M31-92, Grade 60.

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d. Bond breaker shall be Reed Wax #100 Emulsion as manufactured by Roger A. Reed, Inc., Reading, MA (1-781-944-4640) or approved equal.

3. Construction/Isolation Joint Material

Joint material shall be $\frac{1}{2}$ " thick, non-extruding type, equal in width to the slab width and thickness, and conform to AASHTO M33-93, Asphaltic Expansion Joint Materials.

4. Forms

The forms used shall be straight and firmly supported and staked to the line and grades as shown on the plans or as directed by the Engineer. The forms shall be free from warp and shall be of sufficient strength to resist springing out of shape. All forms shall be cleaned and oiled before use.

5. Curing Materials

A liquid membrane curing compound such as Masterkure by Master Builders or approved equal and meeting AASHTO M148-91 shall be applied in accordance with the manufacturer's instructions over the completed concrete surface area.

6. Processed Aggregate Base

Processed aggregate base shall conform to the requirements of "Processed Aggregate Base" provided elsewhere in these Specifications.

7. Granular Fill

Granular fill shall conform to the requirements of "Granular Fill" provided elsewhere in these Specifications.

8. Detectable Warning Tiles

Detectable warning surfaces must comply with the detectable warnings on walking surfaces section of the Americans with Disabilities Act (Title 49 CFR TRANSPORTATION, Part 37.9 STANDARDS FOR ACCESSIBLE TRANSPORTATION FACILITIES, Appendix A, Section 4.29.2 DETECTABLE WARNINGS ON WALKING SURFACES).

For consistency with existing panels installed in Town, detectable warning tiles shall be a 24" x 48", vitrified polymer composite (VPC), cast-in-place, replaceable panel with 8-bolt pattern as manufactured by ADA Solutions, Inc., P.O. Box 3, North Billerica, MA 01862 (1-800-372-0519) with brick red color conforming to Federal Colors that is homogeneous throughout the tile. **Refer to General Provisions Item #11 in the Instructions to Bidders for additional information regarding proposed substitutions.**

Detectable warning tiles and accessories must be produced by a single manufacturer for the entire project.

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Panels shall be suitably packaged or crated to prevent damage in shipment or handling. Finished surfaces shall be protected by sturdy wrappings, and panel type shall be identified by part number.

Detectable warning tiles shall be guaranteed in writing for a period of FIVE (5) YEARS from the date of final acceptance of the project. The guarantee includes defective work, breakage, deformation, fading and chalking of finishes, and loosening of panels. Protect panels against damage during construction period to comply with detectable panel manufacturer's specification.

9. Waterproofing and Exterior Protection Admixture

When directed by the Engineer, a waterproofing and exterior protection admixture shall be added to the concrete mixture to minimize impacts of heavy salt application at Town facilities. This admixture shall be as Vapor Lock 20/21 as manufactured by Specialty Products Group, 6254 Skyway Road, P.O. Box 915, Smithville, ON, L0R 2A0, Canada (1-877-957-4326, info@spgGoGreen.com, www.spgGoGreen.com) or approved equal.

CONSTRUCTION METHODS

1. Excavation

Excavation, including the removal and disposal of any type of existing sidewalk, tree roots, curb, ramp, steps or pavement, shall be made to the required depths below the finished grade as shown on the plans or as directed. All soft and yielding material below the required excavation limits shall be removed and replaced with granular fill.

2. Granular Fill and Processed Aggregate Base

Granular fill if required for the subgrade and processed aggregate base shall be placed in layers not to exceed six inches (6") in depth and to such a depth that after compaction it shall be at the specified depth below the finished grade of the walk.

3. Forms

Forms shall be straight, free from warp and of sufficient strength to resist springing from the pressure of the concrete. Forms shall be of minimum 5" depth and shall have a flat surface on the top. Forms shall be securely staked, braced and held firmly to the required line and grade and shall be sufficiently tight to prevent leakage of mortar. All forms shall be cleaned and oiled or wetted before concrete is placed against them. Sheet metal templates one-eighth ($\frac{1}{8}$) inch in thickness, of the full depth and width of the walk, shall be spaced at intervals of fifteen feet (15') or as directed by the Engineer. If the concrete is placed in alternate sections, these templates shall remain in place until concrete has been placed on both sides of the template. As soon as the concrete has obtained its initial set, the templates shall be removed.

4. Joints

- a. **Construction Joints:** At maximum intervals of thirty feet (30'), install a construction joint as detailed on the drawings. Install dowels as shown on the drawings. Minimum embedment on

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each side of the joints shall be nine inches (9"). All dowels shall be straight, square on the ends with no burrs. Locate at the center of the slab on 12" centers. Bars must be carefully aligned and square with the form face. Prevent bonding to the concrete on one side of the joint by using a plastic sleeve over the dowel or coat with an approved bond breaker. Alternate protected end on each side of the joints.

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 $\frac{3}{4}$ " in diameter and twelve (12) inches in depth at 24" on centers into the existing concrete slab. The dowels, dipped in a liquid asphalt and coated with an approved bond breaker or plastic sleeve shall be set into the existing sidewalk slab prior to the placement of concrete. The dowels are to be level with the latitude pitch of the sidewalk and shall conform to the details of these specifications. Any variations in dowel installation procedures must be approved by the Engineer.

Other locations to which dowels may be required will be directed by the Engineer.

- b. **Control Joints:** Follow joint spacing as shown on the drawings. At intervals of approximately fifteen (15) feet, a full control joint shall be provided. A tooled joint, to the depth of 3/8 of an inch, shall be installed at approximately five (5) foot intervals along the sidewalk. The resulting areas should be as square as practical. All joints shall be installed using straight guides set at right angles to the longitudinal direction of the walk.
- c. **Isolation Joints:** Isolation joints will be installed wherever concrete is placed against already installed concrete of structures such as curbing, building, or other, previously existing paving.

If it becomes necessary to adjust the locations, horizontal or vertical dimensions of the above listed items due to interference with utilities or for other valid reasons, the Contractor, with the approval of the Engineer, shall construct said items to the modified dimensions and locations.

5. Concrete Placement and Finishing

- a. **Subgrade Preparation:** The subgrade shall be approved by the Engineer prior to placement of concrete. The grade will be free of soft areas, roots, rubble and large stones. It shall be fully compacted and graded to provide the specified slab thickness within $\pm\frac{1}{4}$ ".
- b. **Forms:** Align forms as shown on drawings and secure to provide straight edges and uniform curves. Remove only after the concrete has gained sufficient strength to prevent chipping or raveling of the edges.
- c. Where required, install welded wire mesh. Support the mesh on concrete bricks or other supports so that it will remain in the upper third of the slab.
- d. Moisten the subgrade before starting concrete placement to eliminate water loss.
- e. Place continuously, using construction joints at locations shown on the drawings or as approved by the Engineer. If an interruption occurs of a duration that may cause a cold joint, install a construction joint as described in this specification.

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- f. Water may be added to the truck mixer to adjust the slump when the discharge begins, only if the concrete is below the specified water cement ratio and maximum slump upon arrival at the job site. Water shall not be added to the batch at any later time. If higher slumps are required, use a high range water reducer such as Rheobuild 1000 by Master Builders or equal as approved by the Engineer.
- g. Screed the concrete to grade, bull float or darbie, consolidate formed edges by spading with a hand float, and leave until edging can begin. Allow to harden sufficiently so that a foot leaves only a slight imprint. Floating should not begin until the water sheen has disappeared. The surface shall be worked and floated with a wooden, aluminum or magnesium float or finishing machine using float blades. The outside edges of the slab shall be edged with one-quarter ($\frac{1}{4}$) inch radius tool.

The slab shall then be broomed crosswise with a fine hair broom leaving the surface free from all tool marks. Tooled joints and edges shall only be provided where directed by the Engineer.

Concrete shall be protected so that little or no moisture is lost during the early stages of hardening. Newly placed concrete shall not be permitted to dry out too fast and must be protected from the sun and drying winds. This may be done continuously wet.

- h. Immediately upon the disappearance of the water sheen following the final finishing and before any marked dehydration or checking occurs, the curing compound shall be applied using an approved spraying device. The sprayer shall deliver a fine spray with uniform coverage. Coverage rate shall be that recommended by the curing compound manufacturer.
- i. The Contractor shall have on the job, at all times, sufficient polyethylene film or waterproof paper to provide complete coverage in the event of rain. Protect the surface if rain occurs before final set or use for curing in the event of a breakdown of the spray equipment.
- j. If rain falls on the newly coated sidewalk before the curing film has dried sufficiently to resist damage, or if the film is damaged in any other manner, the contractor shall reapply same. Treated surfaces shall be protected from all foot or vehicular traffic for a sufficient period of time to prevent damage.

6. Reinforcing

Reinforcing of the type specified shall be used in all concrete sidewalk ramps and at concrete sidewalks which cross driveways. Welded wire fabric for concrete reinforcement shall be embedded at mid-depth in the slab.

7. Detectable Warning Tile

All sidewalk ramps shall have detectable warning tiles as shown on the Plan or as directed by the Engineer.

Installer shall be certified in writing by the detectable warning tile manufacturer as qualified for installation and someone that is familiar with the manufacturer's installation requirements and has

CONCRETE SIDEWALK AND CONCRETE SIDEWALK RAMPS

successfully completed tile installations similar in material, design, and extent required for this project. The manufacturer's supervisor shall be present for the first installation.

The detectable warning tile shall be set directly in poured concrete according to the Plans, the manufacturer's specifications or as directed by the Engineer. The Contractor shall place two 25 pound concrete blocks or sandbags on each tile to prevent the tile from floating after installation in wet concrete.

For installation within existing concrete sidewalk ramps, sawcut existing concrete 2" beyond limits of tile and remove of all concrete within limits of sawcut (entire slabs thickness). Install two (2) steel dowels centered and spaced at 24" O.C. on each 48" edge of the opening (4 dowels total) before furnishing and placing new concrete in accordance with associated Specification. Tiles shall be installed flush to the surrounding concrete on all edges.

8. Special Conditions

a. Low Temperature Placements:

No concrete is to be placed when air temperature is below 50°F unless additional precautions are taken and prior approval is given by the Engineer. The Engineer must approve all placements below 50°F. No concrete will be placed on frozen sub-grade or at temperatures below 20°F. Concrete exposed to temperatures below 40°F after placement must be protected through the use of insulating blankets, a six (6) inch layer of straw that is maintained in a dry condition by a covering of plastic sheeting, or other appropriate methods.

The minimum temperature of fresh concrete immediately after placing and for the first four (4) days shall be maintained above 55 degrees F for Type II cement. Concrete made with Type III cement, if approved by the Engineer, must be maintained above 55 degrees F for the first three (3) days. In addition to the above requirements an additional three (3) days of protection from freezing shall be maintained.

In these instances, the concrete must be protected for a period of not less than seven (7) days with a layer of burlap, nine (9) inches of hay, and another covering layer of burlap. Polyethylene or tar paper may be used in lieu of burlap provided it is placed in such a manner as to exclude the contact of the insulating hay directly with the atmosphere.

Any concrete placed during cold weather that is damaged because of freezing shall be replaced at the Contractor's own expense.

- b. Special consideration for high temperature placements and rapid drying conditions should be discussed with the Engineer. No additional materials will be added to the concrete mix at the job site without the prior approval of the Engineer.**
- c. Where reconstruction of an existing approach walk is required, the reconstructed portion of the approach walk shall match the existing approach walk in color, texture and appearance.**

CONCRETE SIDEWALK AND CONCRETE SIDEWALK RAMPS

9. Curb Transitions

Curb transitions shall be provided when sidewalk ramps are adjacent to existing and proposed curb. Concrete ramp flares (wings) with concrete curb transitions shall only be poured with the ramp when directed by the Engineer.

10. Backfilling and Removal of Surplus Material

The sides of all finished concrete work shall be backfilled to the limits shown on the drawings or as directed by the Engineer, with suitable material thoroughly compacted and finished flush with the top of the concrete. All surplus material shall be removed and the site left in a neat and presentable condition to the satisfaction of the Engineer.

11. Protection

The Contractor shall protect newly poured concrete surfaces so as to prevent damage from falling objects, vandalism, etc. The Contractor shall repair or remove and replace any damaged or defaced concrete surface at his own expense. Determination to repair or remove and replace will be at the sole discretion of the Engineer.

12. Utility Adjustments

If an existing utility box, valve box or manhole is located within the limits of the new sidewalk or ramp, the Contractor shall be responsible for the coordination and scheduling with the owner of the facility, for the adjustment of the facility to grade, if necessary.

13. Signs

Existing signs shall be relocated from within new sidewalks and ramps; however, when this is not feasible, temporary support posts must be provided during the construction for all existing signs within the limits of construction. Where signs must be installed within the concrete, the Contractor shall also provide a PVC sleeves set flush to the grade of the new sidewalk or ramp to accommodate sign posts at the locations directed by the Engineer.

14. Notifications

The Contractor shall notify the Engineering Division at 860-721-2850 a minimum of twenty-four (24) hours prior to start of construction at specific locations and also one (1) hour prior to placement of processed aggregate base material and pouring of concrete so the Town can inspect for proper excavation depths and elevations for installation of base material and concrete forms, respectively.

If available, an inspector will inspect the site before installation of base material and the concrete pour. If an inspector is not available or should fail to arrive at the site within one (1) hour, the contractor may install base material and pour concrete provided the all work is completed in accordance with these specifications.

Any questions or concerns regarding new sidewalk and ramp elevations shall be directed to the Engineer prior to placement of forms.

CONCRETE SIDEWALK AND CONCRETE SIDEWALK RAMPS

15. Testing and Inspection

The Engineer is authorized to conduct or have such tests conducted, as are deemed necessary for concrete used in work under these specifications. The contractor shall furnish representatives of the Town with concrete under job conditions for the collection of standard test cylinders. The Engineer shall base its approval of methods and details of proportioning, batching, mixing, and placing of concrete upon the results of these tests.

At any time, the Engineer may require batch plant inspections to certify the weights of all materials as batched into trucks serving projects within the Town.

16. Batch Plant Approval

Any concrete producer may be required to demonstrate the plant and equipment meet all requirements as established by ASTM Designation C-94-67 and shall also be currently approved by the State of Connecticut.

MEASUREMENT AND PAYMENT

“5” Concrete Sidewalk” will be measured and paid at the contract unit price for the actual number of square feet of installed and accepted concrete sidewalk, complete in place, which prices shall include all equipment, tools, materials and labor incidental thereto.

“5” Monolithic Concrete Sidewalk and Curb” will be measured and paid at the contract unit price for the actual number of square feet of installed and accepted monolithic concrete sidewalk and curb measured along the top surface from face of curb to back of walk, complete in place, which prices shall include all equipment, tools, materials and labor incidental thereto.

“8” Reinforced Concrete Sidewalk” will be measured and paid at the contract unit price for the actual number of square feet of installed and accepted reinforced concrete sidewalk, complete in place, which prices shall include all equipment, tools, materials and labor incidental thereto.

“8” Reinforced Concrete Ramps” will be measured and paid at the contract unit price for the actual number of square feet of installed and accepted reinforced concrete sidewalk ramps, complete in place, which prices shall include all equipment, tools, materials and labor incidental thereto.

“Detectable Warning Tile” will be measured and paid at the contract unit price for each tile installed within existing concrete sidewalk ramps completed and accepted at locations directed by the Engineer (this item is not for installation within new concrete sidewalk ramps), including all equipment, tools, materials and labor incidental thereto.

“Waterproofing and Exterior Protection Admixture” shall be added to concrete mix installed to the thickness specified only in locations where directed by the Engineer and shall be measured and paid at the contract unit price based on the square footage of concrete sidewalk and ramps installed and accepted with this additive, complete in place, which prices shall include all equipment, tools, materials and labor incidental thereto.

CONCRETE SIDEWALK AND CONCRETE SIDEWALK RAMPS

When required, these items shall include temporary placement and removal of processed aggregate base (or other means approved by the Town) to prevent trip hazards or other safety concerns during construction.

When submitting invoices to the Engineer for payment, the contractor shall include a copy of the delivery slips for each truck load of concrete delivered for installation of sidewalks and ramps that includes all data required in ASTM C-94, Paragraph 14 Certification.

The following additional items will not be measured separately for payment, but shall be considered as included in the unit price bid for "5" Concrete Sidewalk", "5" Monolithic Concrete Sidewalk and Curb", "8" Reinforced Concrete Sidewalk", "8" Reinforced Concrete Sidewalk Ramp", and "Detectable Warning Tile":

1. Excavation
2. Compaction and formation of subgrade and base materials
3. Granular fill subgrade and processed aggregate base
4. Steel dowels, mesh and other reinforcement
5. Sawcutting and removal of existing sidewalks, tree roots, steps, ramps, driveways or roadway within the excavation limits shown in the details
6. Concrete mix
7. Expansion joints
8. Curing materials
9. Furnishing and installing detectable warning tiles and associated adhesives, sealants and anchors
10. Installing curb transitions or concrete ramp flares (wings)
11. Adjustment of existing valve boxes, utility boxes or handholes to grade
12. Providing temporary sign supports for existing signs during construction
13. PVC sleeves for signs that must be installed within concrete
14. Restoration of adjacent bituminous concrete driveway and aprons
15. Restoration of disturbed lawn areas
16. Temporary placement and removal of processed aggregate base material to grade (when directed by the Engineer)

Granular fill used to replace unsuitable material or used as borrow material to bring the sidewalk subbase to grade will be paid under the item "Granular Fill" elsewhere in these Specifications. Granular fill will only be paid for if placement is approved by the Engineer prior to construction.

The resetting of existing signs on new sign supports within the limits or near sidewalk or ramp construction will be paid under the item "Reset Sign" provided elsewhere in these Specifications.

CONCRETE SIDEWALK AND CONCRETE SIDEWALK RAMPS

<u>Pay Items</u>	<u>Pay Unit</u>
5" Concrete Sidewalk	Square Foot
5" Monolithic Concrete Sidewalk and Curb	Square Foot
8" Reinforced Concrete Sidewalk	Square Foot
8" Reinforced Concrete Sidewalk Ramp	Square Foot
Detectable Warning Tile*	Each
Waterproofing and Exterior Protection Admixture for 5" Thick Concrete (additional cost per SF of concrete)	Square Foot
Waterproofing and Exterior Protection Admixture for 8" Thick Concrete (additional cost per SF of concrete)	Square Foot

**Only applies to tiles installed within existing sidewalk ramps, not for tiles within new sidewalk ramps*

EROSION AND SEDIMENTATION CONTROLS

DESCRIPTION

“Silt Fence” includes the furnishing, placing, maintaining and removal of manufactured geotextile silt fence where shown on the Plans or where directed by the Engineer.

“Hay Bales” includes the furnishing, placing, maintaining and removal of hay bales where shown on the Plans or where directed by the Engineer.

“Silt Sack” includes the furnishing, placing, maintaining and removal of manufactured geotextile silt sacks specifically made to protect catch basins where shown on the Plans or where directed by the Engineer.

“Construction Entrance” includes the furnishing and installation of a temporary crushed stone pad on a geotextile surface located so as to prevent dirt and mud from tracking onto existing pavement. The exact location(s) of “Construction Entrance” shall be determined by the Engineer.

“Turbidity Curtain” includes the furnishing, placing, maintaining and removal of manufactured geosynthetic material where shown on the Plans and as directed by the Engineer.

For this contract, there will be no direct payment for erosion and sedimentation controls and the associated costs shall be included in the unit prices bid for other Contract items.

MATERIALS

Geotextile shall conform to Section M.08.01.26 of Form 816.

Silt Sack shall be Hi-Flow Siltsack® Type A (for Type “C-L” catch basin tops) and Type B with curb deflector (for Type “C” catch basin tops or other structure with curb inlets) as manufactured by ACF Environmental, Inc., Richmond, VA (800-448-3636) or approved equal. Silt sack shall be provided with internal overflows and meet the following criteria:

<u>Properties</u>	<u>Test Method</u>	<u>Units</u>
Grab Tensile Strength	ASTM D-4632	265 lbs
Gran Tensile Elongation	ASTM D-4632	20%
Puncture	ASTM D-4833	135 lbs
Mullen Burst	ASTM D-3786	420 psi
Trapezoid Tear	ASTM D-4533	45 lbs
UV Resistance	ASTM D-4355	90%
Apparent Opening Size	ASTM D-4751	#20 U.S. Sieve
Flow Rate	ASTM D-4491	200 gal/min/sq ft
Permittivity	ASTM D-4491	1.5/sec

Crushed stone for Construction Entrances shall conform to “Grading A” of Section M.02.06 of Form 816.

EROSION AND SEDIMENTATION CONTROLS

Turbidity curtain shall be manufactured by ACF Environmental, Richmond, VA (800-448-3636) or approved equal.

RESPONSIBILITY

It is the Contractor's sole responsibility to provide and continually inspect and maintain all erosion and sedimentation control measures on the site. Failure to do so may result in enforcement actions by the Town of Manchester or State of Connecticut. The erosion and sedimentation control measures shown on the Plans or in these Specifications are intended as a guideline to show the minimal control measures required based on the intended construction. Additional control measures may be necessary depending upon the Contractor's operations and scheduling of the project.

CONSTRUCTION DETAILS

Geotextile sedimentation control systems may consist of either a prefabricated geotextile fence or a geotextile fence assembled by the Contractor in the field. Geotextile sedimentation control systems shall be installed so that the bottom four (4) inches of the fabric is buried by either trenching or by laying the four (4) inch section horizontally on the ground and burying by ramping the soil up to the control fence. All geotextile fences shall be a least 36 inches in exposed height as installed, with not less than a two (2) degree and not more than a 20 degree inclination toward the potential silt source. Hardwood posts shall have a minimum cross-section size of at least 1.5 inches by 1.5 inches and a minimum length of 30 inches. Steel posts shall be at least 0.5 pound per linear foot with a minimum length of 48 inches. Spacing between posts shall not exceed ten (10) feet, and all posts shall be driven a minimum of 12 inches into the ground. When joints between sections of geotextile sedimentation control systems are necessary, geotextile shall be spliced together only at a support post, with a minimum six (6) inch overlap, and securely sealed.

The installations shall be maintained or replaced until they are no longer necessary for the purpose intended or are ordered removed by the Engineer. Cleanout of accumulated sediment shall be accomplished when one-half of the original height of the sedimentation control system, as installed, becomes filled with sediment or as ordered by the Engineer.

The geotextile fence systems will be completely removed from the project at the completion of the project, unless specifically authorized by the Engineer to be left in place.

Unless a specific type of sedimentation control system is indicated on the plans or directed by the Engineer, the type of system will be at the Contractor's option.

Silt sacks shall be installed in accordance with manufacturer's instructions and shall be emptied when they have collected 6" to 12" of sediment and when directed by the Engineer. Silt sacks shall be inspected every 1 to 2 weeks and after every major rainfall event.

Turbidity curtains shall be installed in accordance with manufacturer's instructions.

Erosion and sedimentation control measures shall be installed prior to any excavation, grubbing or other operation that disturbs existing ground.

EROSION AND SEDIMENTATION CONTROLS

MEASUREMENT AND PAYMENT

Not applicable. Associated costs shall be included in the prices bid for other Contract items.

EXCAVATION

DESCRIPTION

“Earth Excavation” shall consist of the removal and satisfactory disposal of all material taken from the area between existing ground and the **finished grade** of new sidewalk, pavement or slope, unsuitable material when directed by the Engineer. Excavation below the finished grade of new sidewalk, pavement or slope necessary to install new sidewalk, pavement or slope is included in the unit price bid for “5” Concrete Sidewalk,” “5” Concrete Sidewalk and Curb Monolithic”, “8” Reinforced Concrete Sidewalk”, “8” Reinforced Concrete Sidewalk Ramp”, “Bituminous Concrete Roadway” or “Restoration of Lawn Areas” of the type specified. **This item only applies to areas outside of limits where it is included in other Contract bid items.**

“Rock Excavation” shall consist of the removal and satisfactory disposal of rock in definite ledge formation and boulders, or the portion of boulders, one cubic yard or more in volume, within the excavation limits as described in “Earth Excavation” above.

“Ditch Excavation” shall consist of the removal and satisfactory disposal of all material taken from the area between existing ground and the finished grade of a new ditch.

“Rock in Trench Excavation” shall consist of the removal and satisfactory disposal of rock in definite ledge formation and boulders, or the portion of boulders, one cubic yard or more in volume, within the trench excavation limits.

“Rock in Foundation Excavation” shall consist of the removal and satisfactory disposal of rock in definite ledge formation and boulders, or the portion of boulders, one cubic yard or more in volume, within the foundation excavation limits for structures and traffic control foundations.

“Test Pit Excavation” shall consist of the careful excavation to determine the horizontal and vertical location and size and material of an existing underground utility where shown on the plans or as directed by the Engineer.

Trench excavation for new drainage culverts, underdrains or conduit is included in the unit price bid for “Culvert”, “Underdrain” or “Conduit” of the size and type specified.

CONSTRUCTION METHODS

Construction methods shall conform to the requirements of Section 2.02.03 of Form 817.

All soft and yielding material within the subgrade shall be removed and replaced with “Granular Fill” provided elsewhere in these Specifications.

MEASUREMENT AND PAYMENT

“Earth Excavation” shall be measured and paid at the contract unit price per cubic yard excavated, including all materials, equipment, tools and labor thereto. Payment lines shall coincide with the slope and grade lines as shown on the plans. In no case will the payment limits extend beyond the lines and grades shown on the plans and cross sections. **This item only applies to areas outside of limits where it is included in other Contract bid items.**

EXCAVATION

“Rock Excavation” and “Rock in Trench Excavation” shall be measured and paid at the contract unit price per cubic yard excavated, including all materials, equipment, tools and labor thereto. Payment lines shall coincide with the slope and grade lines as shown on the plans in areas where rock is encountered. The payment lines will be based on a predetermined limit as mutually agreed to by the Engineer and Contractor. Prior to any rock excavation, the Engineer and Contractor shall survey the conditions and agree on the payment limits for each item. In no case will the payment limits extend beyond the lines and grades shown on the plans and cross sections.

“Ditch Excavation” shall be measured and paid at the contract unit price per cubic yard excavated, including all materials, equipment, tools and labor thereto. Payment lines for shall coincide with the slope and grade lines as shown on the plans. The stockpiling, re-excavation and final placement of material will not be measured for payment. The amount of excavation will be determined by the average end area method.

“Rock in Foundation Excavation” shall be measured and paid at the contract unit price per cubic yard excavated, including all materials, equipment, tools and labor thereto. The payment lines will be based on a predetermined limit as mutually agreed to by the Engineer and Contractor. Prior to any rock excavation, the Engineer and Contractor shall survey the conditions and agree on the payment limits for each item.

“Test Pit Excavation” shall be measured and paid at the contract unit price per cubic yard excavated, including all materials, equipment, tools and labor thereto.

Trench excavation for culverts, underdrains and conduits will not be measured for payment; its costs shall be considered as included in the cost for the associated Contract bid item.

Only additional excavation (other than rock) ordered below or outside the pays limits included in other items as defined herein for adjustment of grade or replacement of unsuitable material, as solely determined by the Engineer will be measured and paid in these items. Excavation for curbs, sidewalk and pavement will not be measured for payment; its costs shall be considered as included in the cost for the appropriate item herein.

The prices for the above items shall constitute full compensation for all equipment, tools, and labor incidental to the completion of the excavation, the formation and compaction of embankments, the formation and compaction of subgrades, and the disposal of surplus or unsuitable material in accordance with these Specifications.

<u>Pay Items</u>	<u>Pay Unit</u>
Earth Excavation*	Cubic Yard
Rock Excavation	Cubic Yard
Ditch Excavation	Cubic Yard
Rock in Trench Excavation	Cubic Yard
Rock in Foundation Excavation	Cubic Yard
Test Pit Excavation	Cubic Yard

**Only applies to areas outside of limits where it is included in other Contract bid items.*

GRANULAR FILL

DESCRIPTION

“Granular Fill” includes the furnishing and installation of material to be used as a foundation for structures, to replace unstable material below sidewalks and ramps and within slopes and shoulders, to replace rock and unsuitable material in trenches and elsewhere as indicated on the Plans or Specifications or where directed by the Engineer.

MATERIALS

Granular fill shall conform to the requirements of Section M.02.01 of Form 817.

CONSTRUCTION METHODS

When granular fill is used for foundation for structures, as backfill or to replace rock or unsuitable material, it shall be deposited in layers not over six (6) inches in depth, with each layer thoroughly compacted before the addition of other layers.

MEASUREMENT AND PAYMENT

“Granular Fill” shall be measured in place and paid for at the contract unit price per cubic yard after compaction within the payment lines shown or as specified by the Engineer, complete in place, which price shall constitute full compensation for all materials, tools, equipment and labor incidental thereto.

Only granular fill used to replace unsuitable material and rock in trenches or other areas directed by the Engineer and not included in other Contract bid items will be measured for payment.

Pay Items

Granular Fill

Pay Unit

Cubic Yard

MAINTENANCE AND PROTECTION OF TRAFFIC

DESCRIPTION

“Maintenance and Protection of Traffic” includes the furnishing, installation, maintenance, adjusting, cleaning, storing and removal when no longer required of all temporary signs, cones, drums, barricades or other approved traffic control devices necessary to maintain and protect traffic within the project area in accordance with the Plans and Specifications. It also includes furnishing certified, uniformed flagpersons capable of safely directing traffic around the work area during all lane closures where uniformed police officers are not required or when directed by the Engineer and other pertinent work necessary to comply with this specification.

This work shall also include, but is not limited to:

- notifying public authorities of any proposed traffic changes;
- furnishing, installing, relocating, replacing and removal of traffic cones, traffic drums, barricades, temporary marking tape, and opposing traffic lane dividers;
- furnishing, installing, and removing the material for a temporary traversable slope in those areas where a longitudinal dropdown exists;
- furnishing, installing, and removing the material for a temporary transition where a transverse dropdown exists;
- temporarily relocating existing signs and sign supports as many times as deemed necessary and furnishing, installing, and removing temporary sign supports and foundations if necessary during construction; and
- removal or sanding of snow or ice or removal of leaves on the roadway or sidewalk if the Contractor's operations interfere with the removal or sanding of snow or ice or the removal of leaves by the public authorities or adjoining land owners in an ordinary manner with regular highway equipment.

“Uniformed Police Officers” includes providing uniformed police officers for traffic control only on streets identified on the Town of Wethersfield Traffic Control Requirements by Street (refer to map in associated Appendix for additional information) and includes the contractor scheduling, coordinating and paying for uniformed policemen for traffic control for work when required by the Engineer and/or the Wethersfield Police Department. Additional information on Police Department rates and requirements, and to schedule for police protection may be arranged by calling 860-721-2923. Charges related to Contractor's failure to prepare for and schedule police will be at Contractor's sole expense.

“Construction Area Signs” includes the furnishing of sheet aluminum or plywood construction signs and supports required on the project in accordance with the Plans, the Manual of Uniform Traffic Control Devices (MUTCD) or as directed by the Engineer.

For this contract, there will be no direct payment for maintenance and protection of traffic and the associated costs shall be included in the unit prices bid for other Contract items.

Based on previous Sidewalk Programs and anticipated work areas, the estimated total cost for uniformed police officers where required for traffic control during this contract is \$10,000.

SUBMITTALS

Town of Wethersfield, Connecticut
2018-2019 Sidewalk Construction and Repair Contract
Bid No. 2018-08

TECHNICAL SPECIFICATIONS
**MAINTENANCE AND PROTECTION
OF TRAFFIC**
TS-25

MAINTENANCE AND PROTECTION OF TRAFFIC

Unless a Traffic Detour Plan is provided in these Specifications by the Town, all temporary road closures and detours proposed by the Contractor must be approved by the Engineer prior to implementation. In these instances, the Contractor shall submit a plan of the proposed detour, complete with sign patterns, and estimated duration of detour to the Engineer for approval at least seven (7) days prior to execution. Detours will only be considered for infrequent, short-term operations.

MATERIALS

Traffic Drums

The traffic drums shall be manufactured plastic or rubber designed in accordance with the latest edition of the MUTCD. The device shall be stabilized with sandbags or other approved means. The traffic drum shall have, at a minimum, two 4" wide retroreflective orange stripes and two 6" wide retroreflective white stripes. The stripes shall be placed horizontally and alternated with the orange stripe on top. The sections of the traffic drum not covered with retroreflective sheeting shall be orange. Either Type III or Type VI Retroreflective Sheeting, in accordance with Section M.18.09 of Form 817 shall be used

Traffic Cones

Traffic Cones shall be constructed of materials to a thickness to withstand impact without damage to cones or to vehicles. The traffic cones shall be 42" tall and of sufficient mass or have bases to which ballast may be added to assure that they will not be blown over or displaced by wind from passing vehicles. Traffic cones shall be reflectorized utilizing Type VI retro reflective sheeting in accordance with Sub article M.18.09 of Form 817.

Barricades

Barricades shall conform to the requirements of Section 9.79.02 of Form 817.

Construction Area Signs

Construction Area signs includes the furnishing of sheet aluminum or plywood construction signs and supports required on the project in accordance with the plans, the Manual of Uniform Traffic Control Devices (MUTCD) or as directed by the Engineer. Signs faces shall be of retro reflective sheeting, High Intensity Prismatic (Type III) and conform to Section 12.20 of Form 817. Each sign will be paid for once, regardless of the number of times it is used on the project. When the signs are no longer required on the project, they shall remain the property of the Contractor.

Opposing Traffic Lane Dividers

Opposing Traffic Lane Dividers shall conform to the requirements of Section 6F.76 of the MUTCD utilizing Type III Reflective sheeting

Any other traffic control devices shall meet the minimum material requirements of Form 817 and the Manual of Uniform Traffic Control Devices (MUTCD).

MAINTENANCE AND PROTECTION OF TRAFFIC

RESTRICTIONS

During working hours, the Contractor shall maintain at least one lane of traffic a minimum 10' in width on a gravel or paved surface with uniformed flagpersons directing traffic throughout the project area. At the end of each work day, the Contractor shall open the roadway to travel in both directions on a gravel or paved surface at least 20' in width with all applicable signs, cones, drums, barricades and lane dividers required by the Engineer.

The Contractor shall schedule operations such that travel by the general public on gravel surfaces is limited to two (2) weeks.

Temporary transverse drop-offs between pavement and milled pavement or between pavement and gravel shall have a maximum 10:1 slope. Temporary longitudinal drop-offs between pavement and milled pavement or between pavement and gravel shall have a maximum 3:1 slope.

REQUIREMENTS

In addition to requirements specified herein, this work shall be completed in accordance with Section 9.70.03 of Form 817.

The Contractor shall maintain and protect traffic in the project area in accordance with the requirements and regulations of the Town of Wethersfield and these Specifications. Unless otherwise specified, the Contractor must maintain pedestrian and vehicular traffic to permit access to businesses, factories, residences, and intersecting streets.

1. Advanced Warning: It shall be the sole responsibility of the Contractor to forewarn the Town's Local Regulatory Agencies (including but not limited to the Physical Services and Engineering Divisions, Police and Fire Departments and Board of Education) at least 72 hours in advance of changes in traffic patterns due to reduction of pavement widths or closing of streets.
2. Access: The Contractor shall arrange his/her operations to properties along the street including temporary bridges to driveways, and provide access to fire hydrants, manholes, gate boxes, or other utilities. Whenever any trench obstructs traffic in or to any public way, private driveway, or property entrance, the Contractor shall take such steps as required to maintain necessary traffic and access including temporary bridging if required. The Contractor shall confine his/her occupancy of public or traveled ways to the smallest space compatible with the efficient and safe performance of the work.

The Contractor shall observe and obey all local and state laws, ordinances, regulations and permits in relation to the obstruction of streets and highways, keeping passageways open and protecting traffic where there may be danger from blasting or other construction activities.

If the Contractor's operations interfere with the removal or sanding of snow or ice by the public authorities or adjoining land owners, in an ordinary manner with regular highway equipment, the Contractor shall be required to perform such services for the public authorities or adjoining owners without charge. If the Contractor fails to do so, he shall reimburse the said authorities or adjoining

MAINTENANCE AND PROTECTION OF TRAFFIC

owners or the Town for any additional cost to them for doing such work occasioned by conditions arising from the Contractor's operations, occupancy, or trench surfaces, together with any damage to the equipment of said parties by those conditions, or claims of any parties for damage or injury or loss by reason of failure to remove snow or ice or to sand icy spots under these conditions.

3. Maintenance: The Contractor shall maintain all traffic control devices on the project. Traffic control devices shall be cleaned periodically to maintain retroreflectivity. Any damaged traffic control devices shall be immediately removed and replaced. It is the Contractors responsibility to move, adjust or relocate traffic control devices as his operations change.
4. Non-Performance: Should the Contractor or his/her employees neglect to maintain traffic control devices as required in these Specifications, the Engineer may shut the work down. If the Contractor fails to take corrective action, the Engineer may immediately and without notice, furnish, install and maintain traffic control devices. The cost thereof shall be borne by the Contractor and may be deducted from any amount due or to become due to the Contractor under this contract.

The Contractor will be held responsible for any damages that the Town, Engineer, Governmental units, or their heirs or assigns may have to pay as a consequence of the Contractor's failure to protect the public from injury, and the same may be deducted from any payments that are due or may become due to the Contractor under this contract.

5. Uniformed Flagperson: The Contractor shall be responsible for providing certified and adequately equipped personnel for directing traffic around the work area during all lane closures where uniformed police officers are not required and where directed by the Engineer to provide adequate protection of the traveling public. Flagpersons must be certified by the American Traffic Safety Services Association (ATSSA) or the National Safety Council (NSC).
6. Uniformed Police Officers: On designated streets within the Town, the Contract requires the use of Town of Wethersfield uniformed police officers to be used to supplement the Contractor's traffic control operations when available. It is the Contractor's responsibility to schedule, coordinate and make payment in a timely manner for the use of uniformed police officers with the Police Department. The Town of Wethersfield Police Department requires payment for services within fourteen (14) days of work. A portion of the cost to provide uniformed police officers on the streets defined in the Traffic Control Ordinance will be measured separately for payment as specified herein.

TRAFFIC CONTROL PATTERNS

Traffic control patterns shall be used when a work operation requires that all or part of any vehicle or work area protrudes onto any part of a travel lane or shoulder. For each situation, the installation of traffic control devices shall be based on the following:

Speed and volume of traffic
Duration of operation
Exposure to hazards

Traffic control patterns shall be uniform, neat and orderly so as to command respect from the motorist.

MAINTENANCE AND PROTECTION OF TRAFFIC

In the case of a horizontal or vertical sight restriction in advance of the work area, the traffic control pattern shall be extended to provide adequate sight distance for approaching traffic.

If a lane reduction taper is required to shift traffic, the entire length of the taper should be installed on a tangent section of roadway so that the entire taper area can be seen by the motorist.

Any existing signs that are in conflict with the traffic control patterns shall be removed, covered, or turned so that they are not readable by oncoming traffic.

When installing a traffic control pattern, a “buffer area” must be provided which shall be free of equipment, workers, materials and parked vehicles.

When required by the Engineer, the Contractor shall install temporary marking tape to designate traffic lanes until such time permanent pavement markings included in the Contract are installed.

Although each situation must be dealt with individually, conformity with the typical traffic control pattern contained herein is required. In a situation not adequately covered by the typical traffic control plans, the Contractor must contact the Engineer for assistance prior to setting up a traffic control patterns.

ALLOWABLE ADJUSTMENT OF SIGNS AND DEVICES SHOWN ON THE TRAFFIC CONTROL PLANS

The traffic control patterns contained herein show the location and spacing of signs and devices under ideal conditions. Signs and devices should be installed as shown on these patterns whenever possible.

The proper application of the traffic control patterns and installation of traffic control devices depends on actual field conditions.

Adjustments to the traffic control patterns/plans shall be made only at the direction of the Engineer to improve the visibility of the signs and devices and to better control traffic operations. Adjustments to the traffic control plans shall be based on safety of work forces and motorists, abutting property requirements, driveways, side roads, and the vertical and horizontal curvature of the roadway.

The Engineer may require that the traffic control pattern be located significantly in advance of the work area to provide better sight line to the signing and safer traffic operations through the work zone.

Table I indicates the minimum taper length required for a lane closure based on the posted speed limit of the roadway. These taper lengths shall only be used when the recommended taper lengths shown on the traffic control patterns cannot be achieved.

TABLE I – MINIMUM TAPER LENGTHS

POSTED SPEED LIMIT MILES PER HOUR	MINIMUM TAPER LENGTH IN FEET FOR A SINGLE LANE CLOSURE
30 OR LESS	180

MAINTENANCE AND PROTECTION OF TRAFFIC

35	250
40	320
45	540
50	600
55	660
65	780

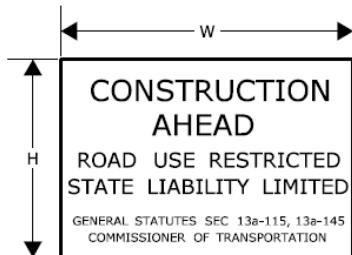
The following DOT coded signs are anticipated to be used during the project. Where applicable, “STATE” shall be revised to “TOWN” and “COMMISSIONER OF TRANSPORTATION” shall be revised to “LOCAL TRAFFIC AUTHORITY”:

80-9424 Arrow	80-9612 End Road Work
80-9602 Road Work Ahead	80-9803 Flagman
31-1906 Fines Doubled	80-9834 One Lane Road Ahead

Series 16 signs shall be post mounted at the beginning and end of the project area as applicable.

MAINTENANCE AND PROTECTION OF TRAFFIC

SERIES 16 SIGNS



		W	H
16-E	80-1605	84" x 60"	
16-H	80-1608	60" x 42"	
16-M	80-1613	30" x 24"	



		W	H
16-S	80-1619	48" x 30"	

THE 16-S SIGN SHALL BE USED ON ALL PROJECTS THAT REQUIRE SIDEWALK RECONSTRUCTION OR RESTRICT PEDESTRIAN TRAVEL ON AN EXISTING SIDEWALK.

SERIES 16 SIGNS SHALL BE INSTALLED IN ADVANCE OF THE TRAFFIC CONTROL PATTERNS TO ALLOW MOTORISTS THE OPPORTUNITY TO AVOID A WORK ZONE. SERIES 16 SIGNS SHALL BE INSTALLED ON ANY MAJOR INTERSECTING ROADWAYS THAT APPROACH THE WORK ZONE. ON LIMITED-ACCESS HIGHWAYS, THESE SIGNS SHALL BE LOCATED IN ADVANCE OF THE NEAREST UPSTREAM EXIT RAMP AND ON ANY ENTRANCE RAMPS PRIOR TO OR WITHIN THE WORK ZONE LIMITS.

THE LOCATION OF SERIES 16 SIGNS CAN BE FOUND ELSEWHERE IN THE PLANS OR INSTALLED AS DIRECTED BY THE ENGINEER.

SIGNS 16-E AND 16-H SHALL BE POST-MOUNTED.

SIGN 16-E SHALL BE USED ON ALL EXPRESSWAYS.

SIGN 16-H SHALL BE USED ON ALL RAMPS, OTHER STATE ROADWAYS, AND MAJOR TOWN/CITY ROADWAYS.

SIGN 16-M SHALL BE USED ON OTHER TOWN ROADWAYS.

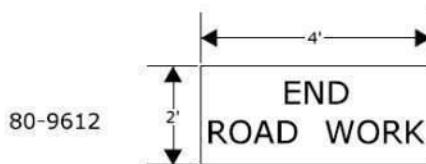
REGULATORY SIGN "ROAD WORK AHEAD, FINES DOUBLED"

THE REGULATORY SIGN "ROAD WORK AHEAD FINES DOUBLED" SHALL BE INSTALLED FOR ALL WORK ZONES THAT OCCUR ON ANY STATE HIGHWAY IN CONNECTICUT WHERE THERE ARE WORKERS ON THE HIGHWAY OR WHEN THERE IS OTHER THAN EXISTING TRAFFIC OPERATIONS.

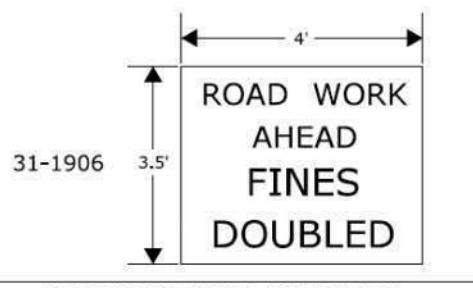
THE "ROAD WORK AHEAD FINES DOUBLED" REGULATORY SIGN SHALL BE PLACED AFTER THE SERIES 16 SIGN AND IN ADVANCE OF THE "ROAD WORK AHEAD" SIGN.

"END ROAD WORK" SIGN

THE LAST SIGN IN THE PATTERN MUST BE THE "END ROAD WORK" SIGN.



SCALE: NONE



CONSTRUCTION TRAFFIC CONTROL PLAN
REQUIRED SIGNS

CONNECTICUT DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION

APPROVED


Charles S. Harlow
PRINCIPAL ENGINEER

Charles S. Harlow
2012.06.05 11:35:43-04'00'

MAINTENANCE AND PROTECTION OF TRAFFIC

NOTES FOR TRAFFIC CONTROL PLANS

1. IF A TRAFFIC STOPPAGE OCCURS IN ADVANCE OF SIGN (A), THEN AN ADDITIONAL SIGN (A) SHALL BE INSTALLED IN ADVANCE OF THE STOPPAGE.
2. SIGNS (A), (A), AND (D) SHOULD BE OMITTED WHEN THESE SIGNS HAVE ALREADY BEEN INSTALLED TO DESIGNATE A LARGER WORK ZONE THAN THE WORK ZONE THAT IS ENCOMPASSED ON THIS PLAN.
3. SEE TABLE 1 FOR ADJUSTMENT OF TAPERS IF NECESSARY.
4. IF THIS PLAN REMAINS IN CONTINUOUS OPERATION FOR MORE THAN 36 HOURS, THEN TRAFFIC DRUMS SHALL BE USED IN PLACE OF TRAFFIC CONES.
5. ANY LEGAL SPEED LIMIT SIGNS WITHIN THE LIMITS OF A ROADWAY / LANE CLOSURE AREA SHALL BE COVERED WITH AN OPAQUE MATERIAL WHILE THE CLOSURE IS IN EFFECT, AND UNCOVERED WHEN THE ROADWAY / LANE CLOSURE IS RE-OPENED TO ALL LANES OF TRAFFIC.
6. IF THIS PLAN REMAINS IN CONTINUOUS OPERATION FOR MORE THAN 36 HOURS, THEN ANY EXISTING CONFLICTING PAVEMENT MARKINGS SHALL BE ERADICATED OR COVERED, AND TEMPORARY PAVEMENT MARKINGS THAT DELINEATE THE PROPER TRAVELPATHS SHALL BE INSTALLED.
7. DISTANCES BETWEEN SIGNS IN THE ADVANCE WARNING AREA MAY BE REDUCED TO 100' ON LOW-SPEED URBAN ROADS (SPEED LIMIT < 40 MPH).
8. IF THIS PLAN IS TO REMAIN IN OPERATION DURING THE HOURS OF DARKNESS, INSTALL BARRICADE WARNING LIGHTS - HIGH INTENSITY ON ALL POST-MOUNTED DIAMOND SIGNS IN THE ADVANCE WARNING AREA.
9. A CHANGEABLE MESSAGE SIGN SHALL BE INSTALLED ONE HALF TO ONE MILE IN ADVANCE OF THE LANE CLOSURE TAPER.
10. SIGN (P) SHALL BE MOUNTED A MINIMUM OF 7 FEET FROM THE PAVEMENT SURFACE TO THE BOTTOM OF THE SIGN.

TABLE 1 - MINIMUM TAPER LENGTHS

POSTED SPEED LIMIT (MILES PER HOUR)	MINIMUM TAPER LENGTH FOR A SINGLE LANE CLOSURE
30 OR LESS	180' (55m)
35	250' (75m)
40	320' (100m)
45	540' (165m)
50	600' (180m)
55	660' (200m)
65	780' (240m)

METRIC CONVERSION CHART (1" = 25mm)

ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC
12"	300mm	42"	1050mm	72"	1800mm
18"	450mm	48"	1200mm	78"	1950mm
24"	600mm	54"	1350mm	84"	2100mm
30"	750mm	60"	1500mm	90"	2250mm
36"	900mm	66"	1650mm	96"	2400mm



SCALE: NONE

CONSTRUCTION TRAFFIC CONTROL PLAN

NOTES

CONNECTICUT DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION

APPROVED

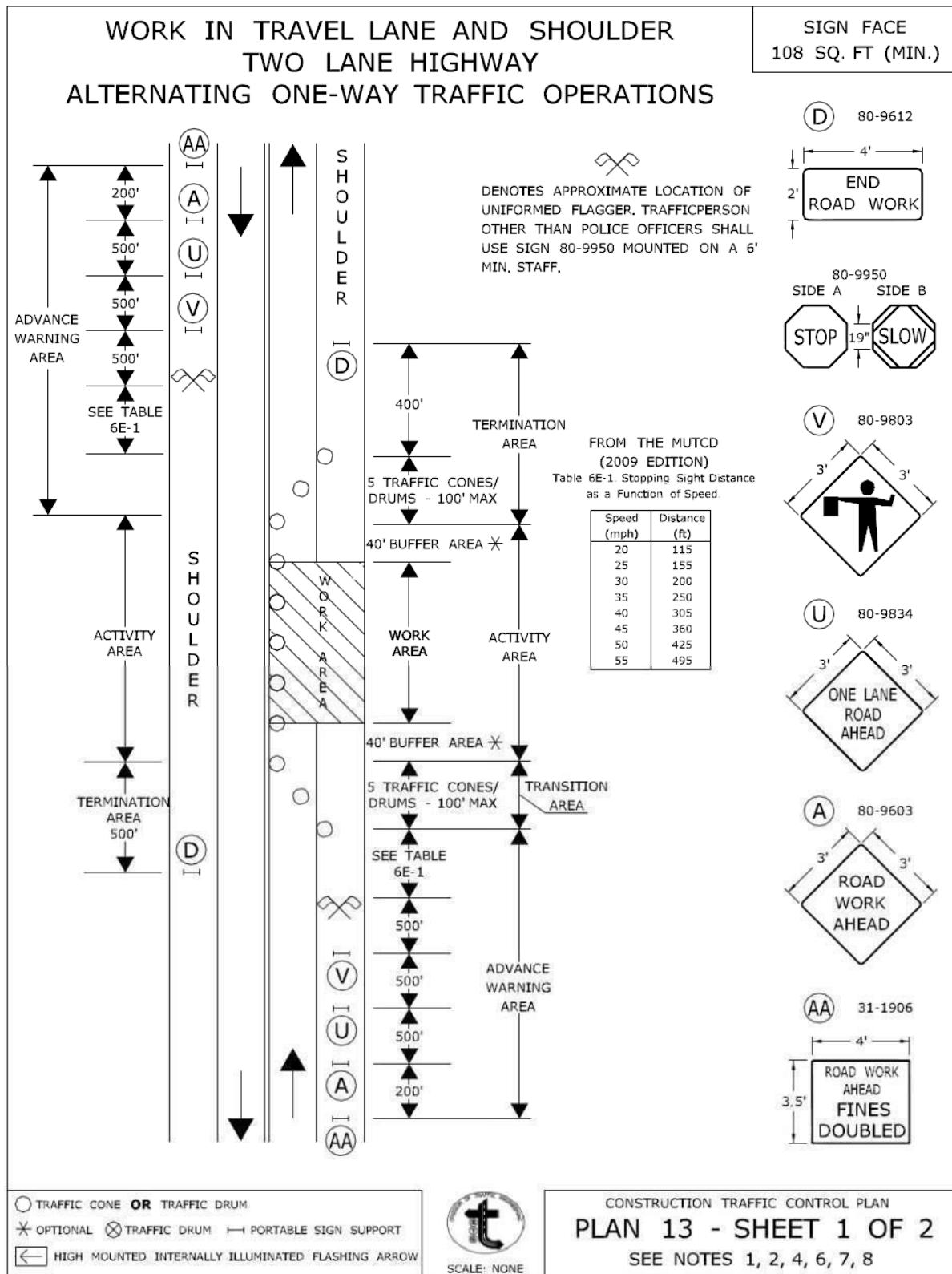

Charles S. Harlow
PRINCIPAL ENGINEER

Charles S. Harlow
2012-06-05 15:50:35-04:00

Town of Wethersfield, Connecticut
2018-2019 Sidewalk Construction and Repair Contract
Bid No. 2018-08

TECHNICAL SPECIFICATIONS
MAINTENANCE AND PROTECTION
OF TRAFFIC
TS-32

MAINTENANCE AND PROTECTION OF TRAFFIC



CONNECTICUT DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION

Town of Wethersfield, Connecticut
2018-2019 Sidewalk Construction and Repair Contract
Bid No. 2018-08

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Charles S. Harlow
2012-06-05 15:55:23-04'00'
PRINCIPAL ENGINEER

TECHNICAL SPECIFICATIONS
MAINTENANCE AND PROTECTION
OF TRAFFIC
TS-33

MAINTENANCE AND PROTECTION OF TRAFFIC

WORK IN TRAVEL LANE AND SHOULDER TWO LANE HIGHWAY ALTERNATING ONE-WAY TRAFFIC OPERATIONS

SIGN FACE
108 SQ. FT (MIN.)

HAND SIGNAL METHODS TO BE USED BY UNIFORMED FLAGGERS

THE FOLLOWING METHODS FROM SECTION 6E.07, FLAGGER PROCEDURES, IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," SHALL BE USED BY UNIFORMED FLAGGERS WHEN DIRECTING TRAFFIC THROUGH A WORK AREA. THE STOP/SLOW SIGN PADDLE (SIGN NO. 80-9950) SHOWN ON THE TRAFFIC STANDARD SHEET TR-1220 01 ENTITLED, "SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS" SHALL BE USED.

A. TO STOP TRAFFIC

TO STOP ROAD USERS, THE FLAGGER SHALL FACE ROAD USERS AND AIM THE STOP PADDLE FACE TOWARD ROAD USERS IN A STATIONARY POSITION WITH THE ARM EXTENDED HORIZONTALLY AWAY FROM THE BODY. THE FREE ARM SHALL BE HELD WITH THE PALM OF THE HAND ABOVE SHOULDER LEVEL TOWARD APPROACHING TRAFFIC.



B. TO DIRECT TRAFFIC TO PROCEED

TO DIRECT STOPPED ROAD USERS TO PROCEED, THE FLAGGER SHALL FACE ROAD USERS WITH THE SLOW PADDLE FACE AIMED TOWARD ROAD USERS IN A STATIONARY POSITION WITH THE ARM EXTENDED HORIZONTALLY AWAY FROM THE BODY. THE FLAGGER SHALL MOTION WITH THE FREE HAND FOR ROAD USERS TO PROCEED.



C. TO ALERT OR SLOW TRAFFIC

TO ALERT OR SLOW TRAFFIC, THE FLAGGER SHALL FACE ROAD USERS WITH THE SLOW PADDLE FACE AIMED TOWARD ROAD USERS IN A STATIONARY POSITION WITH THE ARM EXTENDED HORIZONTALLY AWAY FROM THE BODY. TO FURTHER ALERT OR SLOW TRAFFIC, THE FLAGGER HOLDING THE SLOW PADDLE FACE TOWARD ROAD USERS MAY MOTION UP AND DOWN WITH THE FREE HAND, PALM DOWN.



- TRAFFIC CONE TRAFFIC DRUM
- * OPTIONAL TRAFFIC DRUM PORTABLE SIGN SUPPORT
- HIGH MOUNTED INTERNALLY ILLUMINATED FLASHING ARROW



SCALE: NONE

CONSTRUCTION TRAFFIC CONTROL PLAN
PLAN 13 - SHEET 2 OF 2
SEE NOTES 1, 2, 4, 6, 7, 8

APPROVED

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2012.06.05 15:55:45-04:00
PRINCIPAL ENGINEER

CONNECTICUT DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION

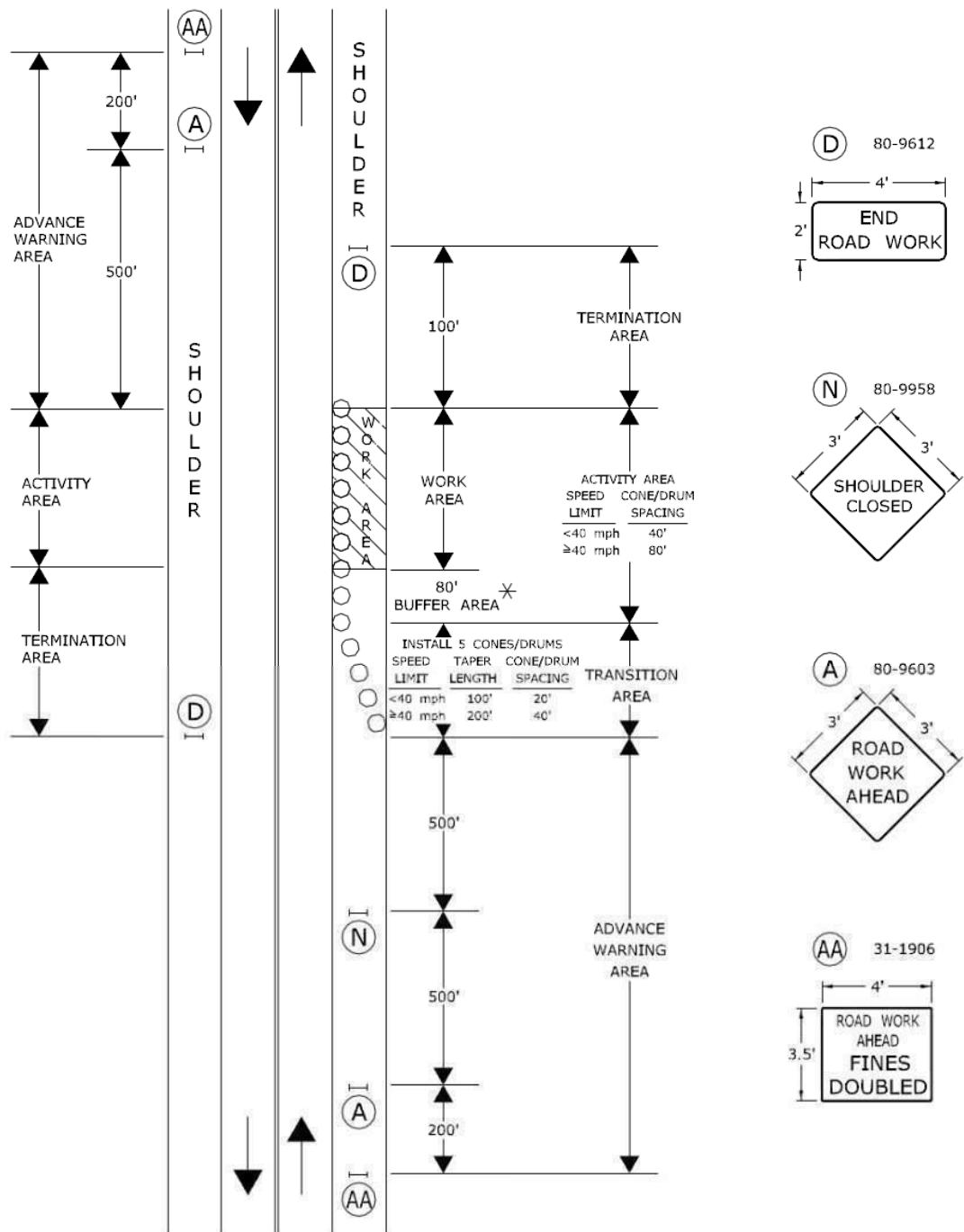
Town of Wethersfield, Connecticut
2018-2019 Sidewalk Construction and Repair Contract
Bid No. 2018-08

TECHNICAL SPECIFICATIONS
MAINTENANCE AND PROTECTION
OF TRAFFIC
TS-34

MAINTENANCE AND PROTECTION OF TRAFFIC

WORK IN SHOULDER - TWO LANE HIGHWAY

SIGN FACE
71 SQ. FT (MIN.)



TRAFFIC CONE **OR** TRAFFIC DRUM
 OPTIONAL TRAFFIC DRUM PORTABLE SIGN SUPPORT
 HIGH MOUNTED INTERNALLY ILLUMINATED FLASHING ARROW



CONSTRUCTION TRAFFIC CONTROL PLAN

PLAN 14

SEE NOTES 1, 2, 4, 7, 8

CONNECTICUT DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION

APPROVED

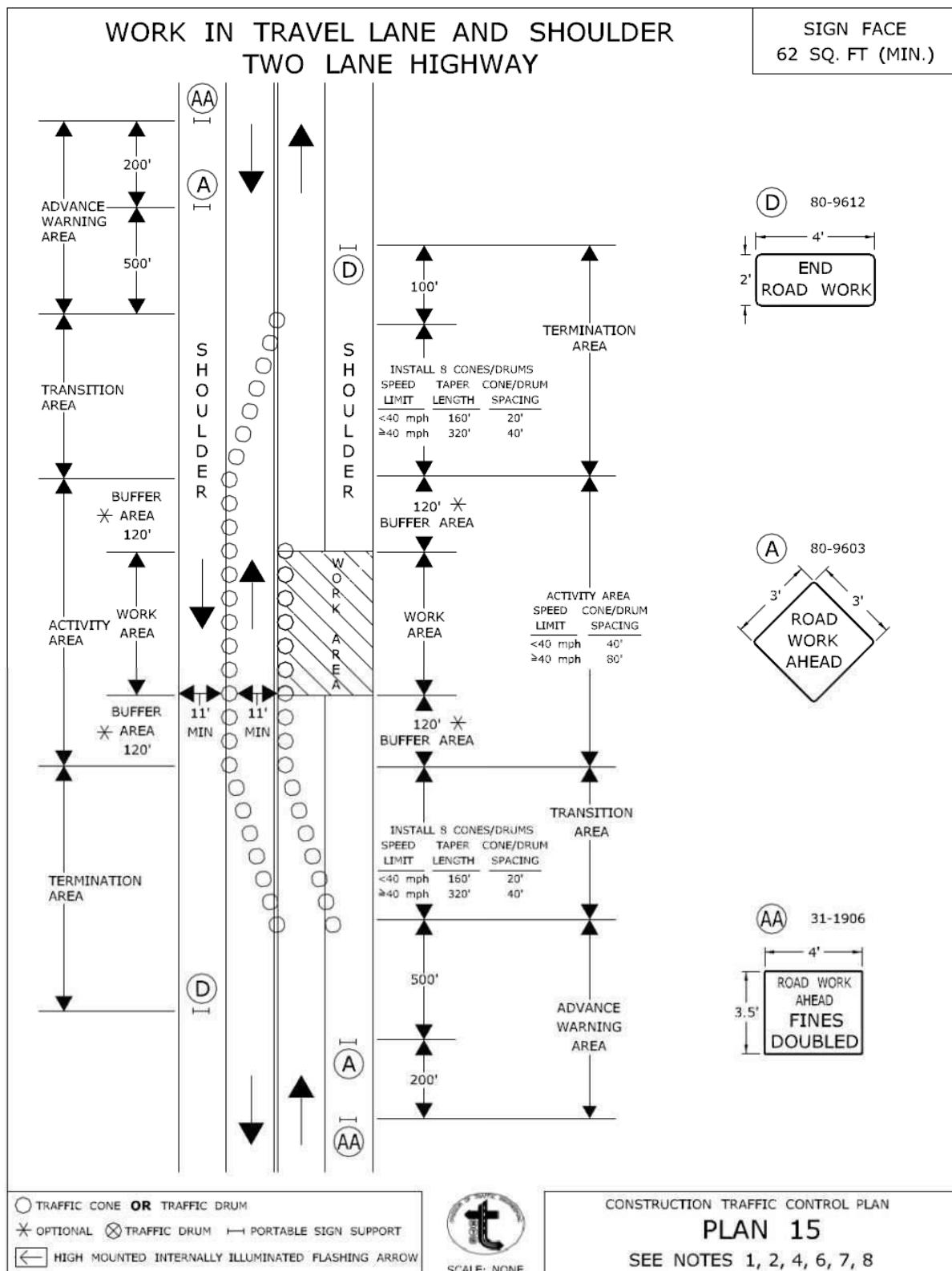
Charles S. Harlow
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Charles H. _____
PRINCIPAL ENGINEER

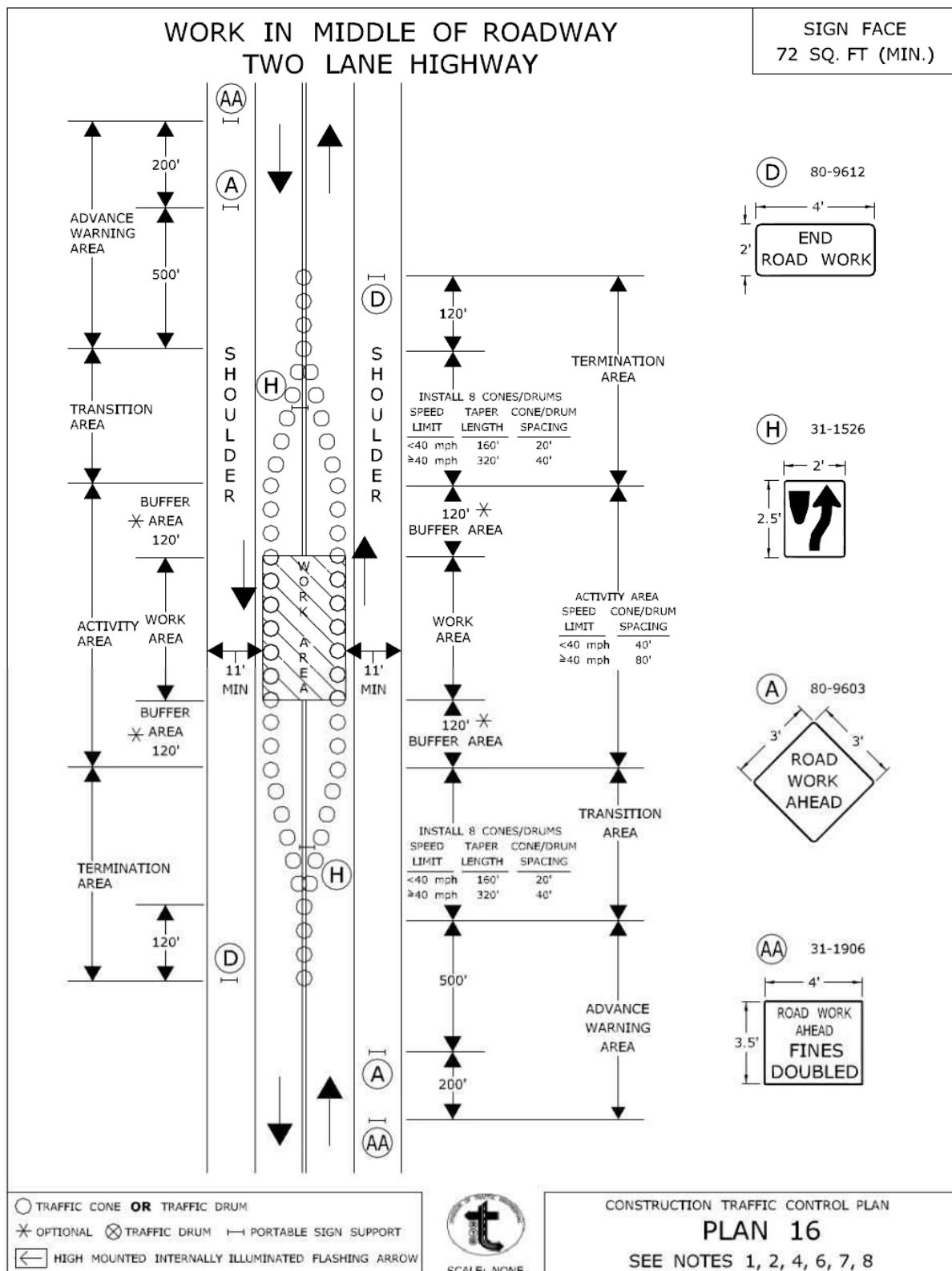
Town of Wethersfield, Connecticut
2018-2019 Sidewalk Construction and Repair Contract
Bid No. 2018-08

TECHNICAL SPECIFICATIONS
**MAINTENANCE AND PROTECTION
OF TRAFFIC**
TS-35

MAINTENANCE AND PROTECTION OF TRAFFIC



MAINTENANCE AND PROTECTION OF TRAFFIC



CONNECTICUT DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION

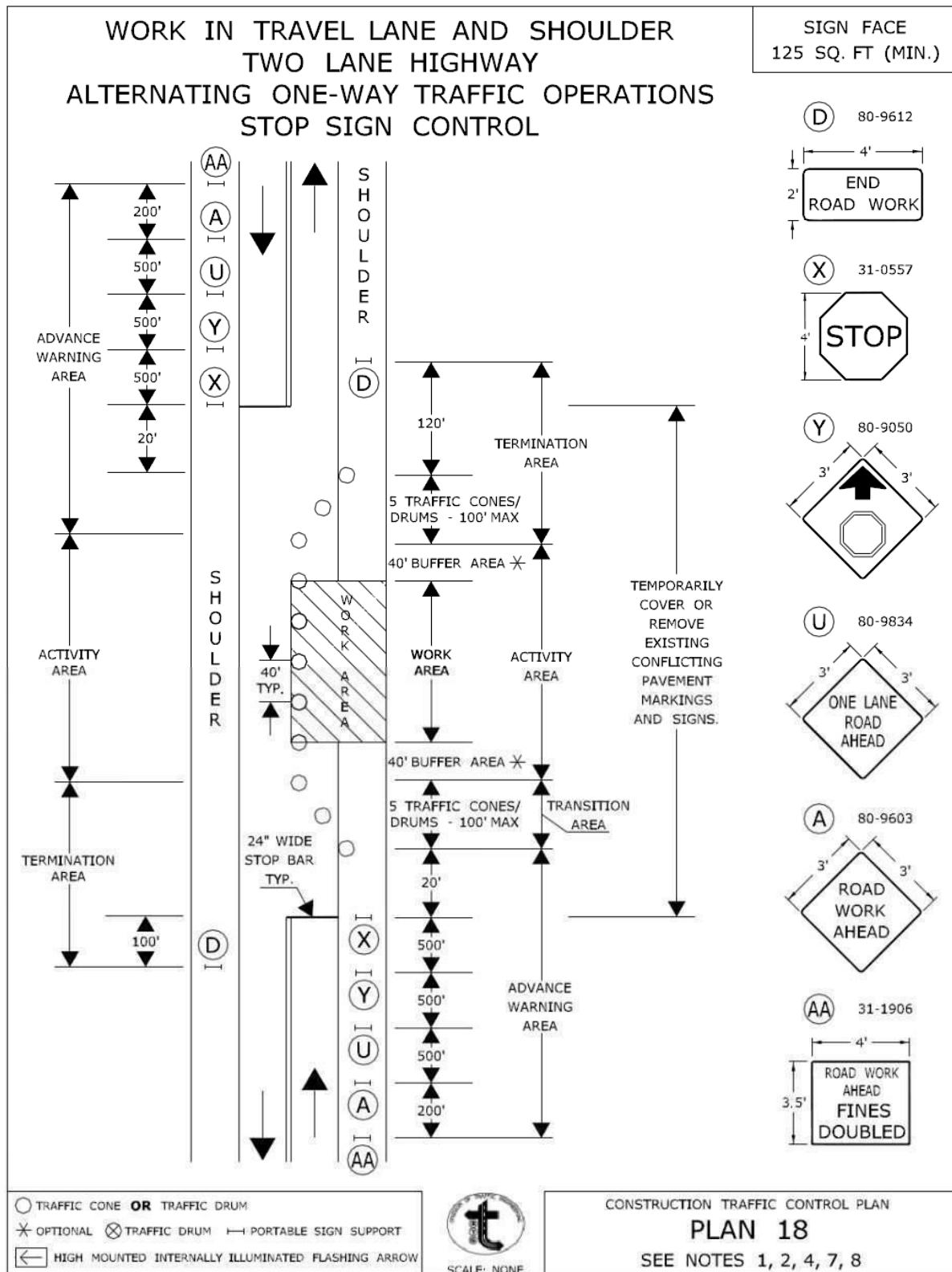
Town of Wethersfield, Connecticut
2018-2019 Sidewalk Construction and Repair Contract
Bid No. 2018-08

APPROVED

Charles S. Harlow
2012.06.05 15:56:51-04'00
PRINCIPAL ENGINEER

TECHNICAL SPECIFICATIONS
**MAINTENANCE AND PROTECTION
OF TRAFFIC**
TS-37

MAINTENANCE AND PROTECTION OF TRAFFIC



CONNECTICUT DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION

Town of Wethersfield, Connecticut
2018-2019 Sidewalk Construction and Repair Contract
Bid No. 2018-08

TECHNICAL SPECIFICATIONS
MAINTENANCE AND PROTECTION
OF TRAFFIC
TS-38

MAINTENANCE AND PROTECTION OF TRAFFIC

MEASUREMENT AND PAYMENT

Not applicable. Associated costs shall be included in the prices bid for other Contract items.

MATERIAL SUBMITTAL REQUIREMENTS

DESCRIPTION

The Contractor shall submit shop drawings, working drawings and product data for the preliminary list of items identified below for review and approval by the Town prior to fabrication, purchase and delivery to the site. Note that the list is preliminary and it is the Contractor's responsibility to identify and provide all required submittals in accordance with the Contract. This list may be modified by the Town at any time during the project.

MATERIAL SUBMITTALS

Technical Specification	Submittal Description
Bituminous Concrete Curb	Bituminous Concrete Mix & Tack Coat
Bituminous Concrete Driveway	Bituminous Concrete Mix, Tack Coat, Joint Seal & Processed Aggregate Base Test Results
Bituminous Concrete Roadway	Bituminous Concrete Mix, Tack Coat & Processed Aggregate Base Test Results
Brick Pavers	Brick Pavers, Joint Filler and Stone Dust Test Results
Concrete Sidewalk and Ramps	Concrete Mix Design, Reinforcing, Dowels, Joint Material, Bond Breaker, Shop Drawings and Material Test Reports of Detectable Warning Tiles, Manufacturer Certification for Qualified Contractors & Processed Aggregate Base Test Results
Erosion and Sedimentation Control	Geotextile, Silt Sacks & Crushed Stone Test Results
Granular Fill	Granular Fill Test Results
Maintenance and Protection of Traffic	Traffic Detour Plan (when required)
Processed Aggregate Base	Processed Aggregate Base Test Results
Reset Sign	Metal Sign Post and PVC Sleeve (when applicable)
Restoration of Lawn and Wetland Areas and Erosion Control Blanket	Topsoil, Fertilizer, Seed Mix and Erosion Control Blanket
Root Barrier	Root Barrier

Note:

Test results for Processed Aggregate Base shall include testing for sieve, hardness and soundness. Only sieve test results are required for all other materials.

PROCESSED AGGREGATE BASE

DESCRIPTION

“Processed Aggregate Base” shall consist of furnishing and installing processed aggregate base as a foundation for bituminous concrete roadways, concrete sidewalks and ramps, curbs, driveways and other items in conformity with the lines, grades, compacted thickness and typical cross-section as shown on the Plans or as directed by the Engineer.

MATERIALS

1. Gradation

Coarse and fine aggregates shall be combined and mixed by approved methods so that the resulting material shall conform to requirements of Section M.05.01 of Form 817 as follows:

Square Mesh Sieves	Percent Passing By Weight
Pass 2-1/2"	100
Pass 2"	95 - 100
Pass 3/4"	50 - 75
Pass 1/4"	25 - 45
Pass #40	5 - 20
Pass #100	2 - 12

2. Coarse Aggregate

Coarse aggregate shall be broken stone. The broken angular stone shall be the product resulting from the artificial crushing of rocks, boulders, or large cobblestones, substantially all faces of which have resulted from the crushing operation. It shall be free of soft disintegrating pieces, mud, dirt, organic or other injurious material.

When tested by means of the Los Angeles Machine, using AASHTO Method T-96, the coarse aggregate shall not have a loss of more than 50 percent.

When tested by magnesium sulfate solution for soundness, using AASHTO Method T104, the coarse aggregate shall show a loss of not more than 15 percent at the end of 5 cycles.

3. Fine Aggregate

Fine aggregate shall be natural sand, stone sand, screenings or any combination thereof.

The fine aggregate shall be limited to material 95 percent of which passes a No. 4 sieve having square openings and not more than 8 percent of which passes a No. 200 sieve. The material shall be free from clay, loam and deleterious materials.

PROCESSED AGGREGATE BASE

4. Plasticity

When screenings or any combination of screenings and natural sand or any combination of stone sand and natural sand are used, the following requirements shall apply:

When the fraction of the dry sample passing the No. 100 mesh sieve is 6 percent or less by weight, no plastic limit test will be made.

When the fraction of the dry sample passing the No. 100 mesh sieve is greater than 6 percent and not greater than 10 percent by weight, that fraction shall not have sufficient plasticity to permit the performing of the plastic limit test, using AASHTO Method T 90.

When the fraction of the dry sample passing the No. 100 mesh sieve is greater than 10 percent by weight, the sample shall be washed; and additional material passing the No. 100 mesh sieve shall be determined by AASHTO Method T 146, except that the No. 100 mesh sieve shall be substituted for the No. 40 mesh sieve where the latter is specified in AASHTO Method T 146. The combined materials that have passed the No. 100 mesh sieve shall not have sufficient plasticity to permit the performing of the plastic limit test using AASHTO Method T 90.

CONSTRUCTION METHODS

Coarse aggregate shall be broken stone. Only one type of coarse aggregate shall be used on a project unless otherwise permitted by the Engineer.

Prior to placing the bottom coarse of the processed aggregate base, the prepared subbase shall be maintained true to line and grade. After the aggregate is spread, it shall be thoroughly compacted and bound by use of equipment approved by the Engineer. Water may be used during the compaction and binding operation.

When the bottom course has been completed, as specified above, the top course aggregate shall be spread over it to such thickness that, after final compaction and binding, the total thickness of the two courses will equal that thickness specified for the completed base. The top course shall be spread, compacted and bound exactly as specified above for the bottom course.

The final surface of the subbase course shall be fine graded so that, after final compaction and just prior to placement of base or pavement courses, the surface elevation shall not vary more than one-quarter inch above or below the design grade at any location. The surface shall be completed to the above tolerance and approved by the Engineer prior to any work at a given location to place an overlying course. If after approval, the course becomes displaced or disturbed in any way for any reason, the Contractor shall repair and regrade the damage to the satisfaction of the Engineer prior to placing the overlying course. All repaired sections shall be recompacted until they meet the requirements as stated herein.

MEASUREMENT AND PAYMENT

Not applicable. Associated costs shall be included in the prices bid for other Contract items.

RESET SIGN

DESCRIPTION

“Reset Sign” includes the resetting of existing signs on new breakaway type metal sign posts furnished by the Contractor at the locations shown on the Plans or where directed by the Engineer.

MATERIALS

Metal sign posts shall conform to the requirements of Section M.18.14 of Form 817.

CONSTRUCTION METHODS

Placement and dimensions of copy, border and mounting holes shall conform to details of the Department of Transportation typical details.

Signs shall be mounted on metal sign posts. Metal sign posts shall be driven or the holes augered and the backfill thoroughly tamped after the posts have been set level and plumb.

When signs are to be placed in new concrete sidewalk, the Contractor shall provide a PVC sleeve, at the locations approved by the Engineer, to accommodate the resetting of signs.

The overlap for breakaway posts shall extend four inches (4") above finished grade.

MEASUREMENT AND PAYMENT

“Reset Sign” will be measured and paid at the contract unit price for each sign installed and accepted, complete in place, including all materials, equipment, tools and labor incidental thereto.

The following items will not be measured separately for payment, but shall be considered as included in the unit price bid for “Reset Sign”:

1. Metal breakaway sign posts
2. PVC Sleeves
3. Brackets and other miscellaneous hardware

Pay Items

Reset Sign

Pay Unit

Each

RESTORATION OF LAWN AND WETLAND AREAS AND EROSION CONTROL BLANKET

DESCRIPTION

“Restoration of Lawn Areas” includes all work required to establish turf, including the furnishing and installation of screened topsoil and of a specified slurry mixture of seed, fiber, fertilizer and stabilizer emulsion with hydro-mulch equipment, where shown on the Plans or where directed by the Engineer. **This item only applies to areas outside of limits where it is included in other Contract bid items and as directed by the Engineer. Any disturbance of lawns beyond the grading limits shown on the Plans shall be restored to its original condition by the Contractor at no expense to the Town.**

“Restoration of Wetland Areas” includes all work required to establish vegetation, including the furnishing and installation of screened topsoil, and of a specified slurry mixture of seed, fiber, fertilizer and stabilizer emulsion with hydro-mulch equipment, within the wetlands areas identified on the Plan or where directed by the Engineer.

“Erosion Control Blanket” includes the furnishing and installation of a manufactured straw/fiber blanket at the locations shown on the Plans or where directed by the Engineer.

MATERIALS

Fertilizer: 18-18-5, (Nitrogen, Phosphoric Acid, Potassium), water-soluble or an approved equal at a rate of 25-lbs per 1,000-sq. ft. Submit Manufacturer’s product specifications and guaranteed purity analysis for fertilizer.

Mulch: Cellulose fiber mulch shall conform to the requirements of Section M.13.05.3 of Form 816. Apply at a minimum rate of 40 lbs/ 1,000 SF.

Tackifier: Organic tackifier shall be applied at rate of 70 lbs/acre

Topsoil: The term topsoil used herein shall mean a soil meeting the soil textural classes established by the United States Department of Agriculture Classification System based upon the proportion of sand, silt, and clay size particles after passing a two (2) millimeter (mm) sieve and subjected to a particle size analysis. The topsoil shall not contain less than 6% nor more than 20% organic matter as determined by loss-on-ignition of oven dried samples dried at 105 degrees centigrade.

The following textural classes shall be acceptable:

Loamy sand, including coarse, loamy fine, and loamy very fine sand

Sandy loam, including coarse, fine and very fine sandy loam

Loam

Silt loam, with not more than sixty (60) percent silt

The topsoil to be furnished by the Contractor shall be loose, friable, reasonably free of admixtures of subsoil, free from refuse, stumps, roots, brush, weeds, rocks, and stones $\frac{1}{2}$ inch and over in all dimensions. The topsoil shall also be free from any material that will prevent the formation of a suitable seedbed or prevent seed germination and plant growth.

RESTORATION OF LAWN AND WETLAND AREAS AND EROSION CONTROL BLANKET

Seed: Shall be fresh and clean and new crop seed composed of an evenly graded mixture by proportion and testing minimum percentages of purity and germination indicated, or as approved by the Engineer.

The seed mixture for lawns <=3:1 slope with mowing required shall have no noxious weeds in mix and shall be CRCOG General Purpose Mix manufactured by Pro Lawn Supply, Inc., Worcester, MA (1-866-554-SEED) or approved equal and shall generally conform to the following requirements:

	Proportion by Weight (Percent)	Minimum Germination (Percent)
Catalina Perennial Rye	33.0	90
Boreal Creeping Red Fescue	33.0	87
Part Kentucky Bluegrass	33.0	85
Other Ingredients	1.0	-

The seed mixture for channel embankments and lawns >3:1 slope with mowing not required shall have no noxious weeds in mix and shall generally conform to the following requirements:

	Proportion by Weight (Percent)	Minimum Germination (Percent)
Creeping Red Fescue	54.0	85
Redtop	5.0	85
Crown Vetch	40.0	90
Other Ingredients	1.0	-

The seed mixture for wetlands areas shall be submitted to the Engineer for review and approval.

Erosion control blanket: shall be a machine produced mat consisting of 100% coconut fiber. The blanket shall be of consistent thickness with the coconut fiber evenly distributed over the entire area of the mat. The blanket shall be covered on the top side with heavyweight photodegradable polypropylene netting having ultraviolet additives to delay breakdown and an approximate 5/8 inch x 5/8 inch mesh, and on the bottom side with a lightweight photodegradable polypropylene netting with an approximate ½ inch x ½ inch mesh. The blanket shall be sewn together on 1 ½ inch centers with degradable thread.

Coconut fiber erosion control blanket shall be C125 as manufactured by North American Green, or approved equal. The C125 erosion control blanket shall have the following properties:

RESTORATION OF LAWN AND WETLAND AREAS AND EROSION CONTROL BLANKET

Material content

Coconut Fiber	100%
Netting	Both sides, heavyweight UV stabilized (3 lb/1000 sq ft approx wt)
Thread	100% Black Polypropylene

Physical Specifications

Width	6.67 feet
Length	108 feet
Weight	44 lbs +/- 10%
Area	80 sq yds
Stitch spacing	1.5 inches

Wire staples are to be produced from 11 gauge .118 to .120 bright basic industrial quality 1008/1010 wire, minimum cast, light oil protection. The staples shall be produced in a 6" x 1" x 6" U-shaped configuration.

CONSTRUCTION METHODS

Construction methods shall be those established as agronomically acceptable and feasible and which are approved by the Engineer.

The existing ground shall be graded to a reasonably true surface.

Topsoil shall be spread and shaped to meet existing elevation, after settlement and compaction has occurred, and have a minimum depth of four (4) inches with all stone larger than $\frac{1}{2}$ " removed.

In wetland areas, 8" of native topsoil/organic matter shall be stripped, stockpiled and reused for wetlands plantings.

It shall be the Contractor's responsibility to restore to the line, grade and surface all eroded areas with approved material and to keep topsoiled areas in acceptable condition until the completion of the construction work.

Examine work area before proceeding with any work and notify the Engineer in writing on conditions which may prevent the proper execution of this work. Failure to report unsuitable conditions will require the contractor to rectify unacceptable work at no additional cost to the Town.

Allow the planting area soil surface to dry out for one day only prior to the hydroseeding application. Exercise care not to allow the soil surface to be overly saturated with water prior to the hydroseeding installation. At the same time the soil surface should not become too dry during this period. There should be some residual moisture within the first 1/4 inch of the soil surface.

Notify the Engineer at least 48 hours prior to starting the hydroseeding operation. The Engineer shall be present during the hydroseeding operation and has final determination if conditions are acceptable for hydroseed application.

RESTORATION OF LAWN AND WETLAND AREAS AND EROSION CONTROL BLANKET

Application rates for hydroseed shall be as defined by the manufacturer.

Apply the hydroseed in the form of a slurry consisting of organic soil amendments, commercial fertilizer, and any other chemicals that are called out. When hydraulically sprayed onto the soil, the mulch shall form a blotter-like material. Direct the spray operation so that this procedure will drill and mix the slurry components into the soil, the slurry spray will also penetrate the soil surface, thus ensuring maximum impregnation and coverage. The impregnation and mixing of the components will help in retaining moisture while stabilizing soil surface from superficial erosion.

Do not leave the hydroseeding slurry components in the hydroseeding machine for more than two (2) hours because of possible seed destruction. If slurry components are left idle for more than two hours in the machine, add 50% more of the originally specified seed mix to any slurry mixture which has not been applied within the two hours after mixing. Add 75% more of the original seed mix to any slurry mixture which has not been applied eight (8) hours after mixing. All mixtures more than eight (8) hours old, must be disposed, offsite, at the contractor's expense.

Spray the area with a uniform visible coat, using the dark color of the cellulose fiber as a visual guide. The slurry shall be applied in a downward drilling motion via a fan stream nozzle. Insure that all of the slurry components enter and mix with the soil. Insure the uniformity of the hydroseed application.

Exercise special care to prevent any of the slurry from being sprayed onto any hardscape areas including concrete walks, fences, walls, buildings, etc. Remove all slurry sprayed onto these surfaces at the contractor's expense.

Contractor shall save all seed and fertilizer tags and fiber mulch bags for the Engineer to verify compliance with the drawings and specifications.

The Contractor shall maintain the area until sufficient seed growth has occurred to stabilize the soil. This includes the restoration of all eroded areas, and the placing and maintaining of erosion control measures as required to prevent further erosion.

Normal seeding season shall be:

For Grass:

Spring seeding - April 1 through June 15

Fall seeding - August 15 through October 1

For Wildflower:

Spring seeding - March 1 to May 15

Fall seeding - November 15 to December 15

Seeding at other times will be allowed only with permission of the Engineer.

The Contractor may be required to top dress and reseed certain areas to achieve sufficient, uniform turf establishment.

RESTORATION OF LAWN AND WETLAND AREAS AND EROSION CONTROL BLANKET

Any existing topsoil at the site to be used must be screened to the satisfaction of the Engineer.

MAINTENANCE

Upon completion of hydroseeding operations, maintain all hydroseeded areas for a period of 90 calendar days as follows:

1. Germination stage irrigation: Approximately 24 hours after hydroseeding the planting areas, initiate the watering sequence. Leave the water on long enough to moisten the soil thoroughly to the depth of the slurry mulch taking care not to super saturate or wash away the slurry and seed. Perform frequent, light irrigation until the seed has germinated. Repair all seed washings and erosion.
2. Establishment stage irrigation: After germination, reduce each watering. The specific watering program shall be approved by the Engineer.

Fertilize all hydroseeded areas with an approved commercial fertilizer approximately thirty (30) calendar days from the start of the maintenance period.

ACCEPTANCE

Final approval and acceptance will be given in writing by the Engineer following a final acceptance inspection. The Engineer reserves the option to extend the maintenance period to achieve complete germination of all turf or other plant materials with a uniform height, color and density throughout all hydroseeded areas. Final acceptance may be given at the end of the ninety (90) calendar day maintenance period if an acceptable germination of turf and adequate plant establishment has been obtained, as determined by the Engineer.

GUARANTEE AND REPLACEMENT

Provide a guarantee for a period of one (1) year after final acceptance, that the installed grass areas be at least the quality and condition as at the time of acceptance. Rehydroseed unacceptable areas during the guarantee period. The guarantee shall not include damage or loss of turf due to acts of God, acts of vandalism or negligence on the part of the Town.

MEASUREMENT AND PAYMENT

“Restoration of Lawn Areas” and “Restoration of Wetland Areas” will be measured and paid at the contract unit price for the actual number of square yards of turf and wetland establishment accepted, complete in place, including all materials, equipment, tools and labor incidental thereto.

RESTORATION OF LAWN AND WETLAND AREAS AND EROSION CONTROL BLANKET

“Restoration of Lawn Areas” only applies to areas outside of limits where it is included in other Contract bid items. Any disturbance of lawns beyond the grading limits shown on the Plans shall be restored to its original condition by the Contractor at no expense to the Town.

The following items will not be measured separately for payment, but shall be considered as included in the unit price bid for “Restoration of Lawn Areas” or “Restoration of Wetland Areas”:

1. Excavation
2. Grading
3. Topsoil
4. Fertilizer, seed and mulch
5. Topdressing and reseeding
6. Watering
7. Lawn areas outside the grading limits that are disturbed by the Contractor

Final payment for this item will not be issued until grass is established to the approval of the Engineer. Partial payments may be made, but in no case will more than 50% of the item be paid until the grass is established to the approval of the Engineer.

“Erosion Control Blanket” will be measured and paid at the contract unit price for the actual number of square yards of erosion control matting and appurtenances installed and accepted, complete in place, including all materials, equipment, tools and labor incidental thereto. Turf establishment under the erosion control blanket will be measured and paid at the contract unit price for “Restoration of Lawn Areas”.

<u>Pay Items</u>	<u>Pay Unit</u>
Restoration of Lawn Areas*	Square Yard
Restoration of Wetland Areas	Square Yard
Erosion Control Blanket	Square Yard

**Only applies to areas outside of limits where it is included in other Contract bid items.*

ROOT BARRIER

DESCRIPTION

“Root Barrier” includes the furnishing and installation of barrier along trees near driveways, sidewalks and ramps where directed by the Engineer.

MATERIALS

Root barrier shall be Model No. UB24-2 as manufactured by Deep Root Green Infrastructure LLC, 101 Montgomery Street, Suite 2850, San Francisco, CA 94104 (1-800-458-7668, www.deeproot.com) or approved equal.

CONSTRUCTION METHODS

Construction methods shall conform to the manufacturer’s requirements and as directed by the Engineer.

Refer to the Town of Wethersfield Tree Protection Ordinance for additional information

MEASUREMENT AND PAYMENT

“Root Barrier” will be measured and paid at the contract unit price for the actual number of square feet measured along the face of the barrier installed and accepted, complete in place, including all materials, equipment, tools and labor incidental thereto.

The following will not be measured separately for payment, but shall be considered as included in the unit price bid for “Root Barrier”:

1. Excavation
2. Trimming and disposal of tree roots
3. Backfill and compaction
4. Restoration of adjacent lawn areas

Pay Items

Root Barrier

Pay Unit

Square Foot

APPENDIX IX

TOWN OF WETHERSFIELD TRAFFIC CONTROL REQUIREMENTS BY STREET

**Also available at
www.wethersfieldct.gov/engineering**

APPENDIX X

STATE OF CONNECTICUT PREVAILING WAGE RATES

Project: 2018-2019 Sidewalk Construction And Repair

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

ID#: H 24368

**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: 2018-08

Project Town: Wethersfield

FAP Number:

State Number:

Project: 2018-2019 Sidewalk Construction And Repair

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	30.21
2) Carpenters, Piledrivermen	32.60	25.34

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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	48.55	20.45
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4a) Painters: Brush and Roller	32.72	20.45
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4b) Painters: Spray Only	35.72	20.45
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4c) Painters: Steel Only	34.72	20.45
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4d) Painters: Blast and Spray 35.72 20.45

4e) Painters: Tanks, Tower and Swing 34.72 20.45

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) 39.15 25.17+3% of gross wage

6) Ironworkers: Ornamental, Reinforcing, Structural, and Precast Concrete Erection 35.47 33.39 + 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) 41.62 30.36

----LABORERS---- -

8) Group 1: Laborer (Unskilled), Common or General, acetylene burner, concrete specialist 29.25 19.50

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9) Group 2: Chain saw operators, fence and guard rail erectors, pneumatic tool operators, powdermen 29.50 19.50

10) Group 3: Pipelayers 29.75 19.50

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 29.75 19.50

12) Group 5: Toxic waste removal (non-mechanical systems) 31.25 19.50

13) Group 6: Blasters 31.00 19.50

Group 7: Asbestos/lead removal, non-mechanical systems (does not include leaded joint pipe) 30.25 19.50

Group 8: Traffic control signalmen 16.00 19.50

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Group 9: Hydraulic Drills 29.30 18.90

---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 19.50 + a

13b) Brakemen, Trackmen 31.28 19.50 + a

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

14) Concrete Workers, Form Movers, and Strippers 31.28 19.50 + a

15) Form Erectors 31.60 19.50 + a

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

16) Brakemen, Trackmen, Tunnel Laborers, Shaft Laborers	31.28	19.50 + a
17) Laborers Topside, Cage Tenders, Bellman	31.17	19.50 + a
18) Miners	32.22	19.50 + a

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

18a) Blaster	38.53	19.50 + a
19) Brakemen, Trackmen, Groutman, Laborers, Outside Lock Tender, Gauge Tenders	38.34	19.50 + a

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20) Change House Attendants, Powder Watchmen, Top on Iron Bolts 36.41 19.50 + a

21) Mucking Machine Operator 39.11 19.50 + a

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

Two axle trucks 29.13 22.32 + a

Three axle trucks; two axle ready mix 29.23 22.32 + a

Three axle ready mix 29.28 22.32 + a

Four axle trucks, heavy duty trailer (up to 40 tons) 29.33 22.32 + a

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Four axle ready-mix 29.38 22.32 + a

Heavy duty trailer (40 tons and over) 29.58 22.32 + a

Specialized earth moving equipment other than conventional type on-the road
trucks and semi-trailer (including Euclids) 29.38 22.32 + a

----POWER EQUIPMENT OPERATORS----

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) 39.30 24.05 + a

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) 38.98 24.05 + a

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) 38.24 24.05 + a

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Group 4: Trenching Machines; Lighter Derrick; Concrete Finishing Machine; CMI Machine or Similar; Koehring Loader (Skooper) 37.85 24.05 + 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" Mandrel) 37.26 24.05 + a

Group 5 continued: Side Boom; Combination Hoe and Loader; Directional Driller. 37.26 24.05 + a

Group 6: Front End Loader (3 up to 7 cubic yards); Bulldozer (rough grade dozer). 36.95 24.05 + 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). 36.61 24.05 + a

Group 8: Mechanic, Grease Truck Operator, Hydroblaster, Barrier Mover, Power Stone Spreader; Welder; Work Boat under 26 ft.; Transfer Machine. 36.21 24.05 + 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). 35.78 24.05 + a

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Group 10: Vibratory Hammer, Ice Machine, Diesel and Air Hammer, etc. 33.74 24.05 + a

Group 11: Conveyor, Earth Roller; Power Pavement Breaker (whiphammer), Robot Demolition Equipment. 33.74 24.05 + a

Group 12: Wellpoint Operator. 33.68 24.05 + a

Group 13: Compressor Battery Operator. 33.10 24.05 + a

Group 14: Elevator Operator; Tow Motor Operator (Solid Tire No Rough Terrain). 31.96 24.05 + a

Group 15: Generator Operator; Compressor Operator; Pump Operator; Welding Machine Operator; Heater Operator. 31.55 24.05 + a

Group 16: Maintenance Engineer/Oiler 30.90 24.05 + a

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Group 17: Portable asphalt plant operator; portable crusher plant operator; portable concrete plant operator. 35.21 24.05 + a

Group 18: Power Safety Boat; Vacuum Truck; Zim Mixer; Sweeper; (minimum for any job requiring CDL license). 32.79 24.05 + a

**NOTE: SEE BELOW

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

20) Lineman, Cable Splicer, Technician 47.14 6.5% + 20.98

21) Heavy Equipment Operator 42.43 6.5% + 18.84

22) Equipment Operator, Tractor Trailer Driver, Material Men 40.07 6.5% + 18.27

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23) Driver Groundmen 25.93 6.5% + 8.53

23a) Truck Driver 35.36 6.5% + 16.88

----LINE CONSTRUCTION----

24) Driver Groundmen 30.92 6.5% + 9.70

25) Groundmen 22.67 6.5% + 6.20

26) Heavy Equipment Operators 37.10 6.5% + 10.70

27) Linemen, Cable Splicers, Dynamite Men 41.22 6.5% + 12.20

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28) Material Men, Tractor Trailer Drivers, Equipment Operators 35.04 6.5% + 10.45

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Welders: Rate for craft to which welding is incidental.

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

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

ALL Cranes: When crane operator is operating equipment that requires a fully licensed crane operator to operate he receives an extra \$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 journeyperson instructing and supervising the work of each apprentice in a specific trade.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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 ULTMATELY 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.

CONNECTICUT DEPARTMENT OF LABOR
WAGE AND WORKPLACE STANDARDS DIVISION

CONTRACTORS WAGE CERTIFICATION FORM
Construction Manager at Risk/General Contractor/Prime Contractor

I, _____ of _____
Officer, Owner, Authorized Rep. Company Name

do hereby certify that the _____
Company Name

_____ Street

_____ City

and all of its subcontractors will pay all workers on the

_____ Project Name and Number

_____ Street and City

the wages as listed in the schedule of prevailing rates required for such project (a copy of which is attached hereto).

_____ Signed

Subscribed and sworn to before me this _____ day of _____, _____.

_____ Notary Public

Return to:

Connecticut Department of Labor
Wage & Workplace Standards Division
200 Folly Brook Blvd.
Wethersfield, CT 06109

Rate Schedule Issued (Date): _____

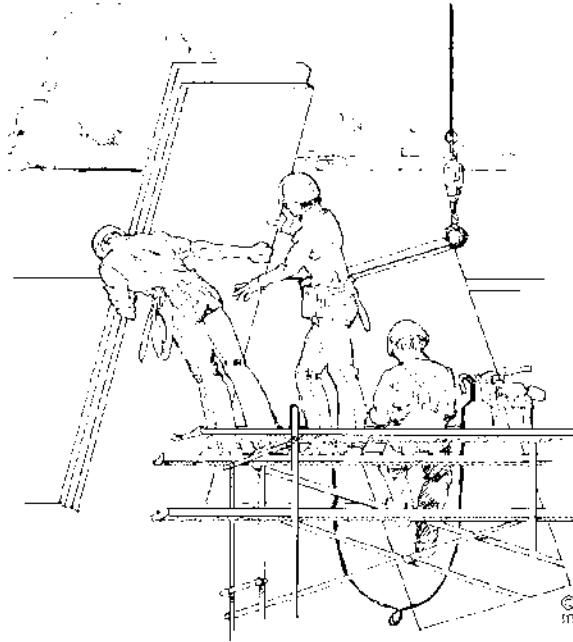
~NOTICE~

TO ALL CONTRACTING AGENCIES

Please be advised that Connecticut General Statutes Section 31-53, requires the contracting agency to certify to the Department of Labor, the total dollar amount of work to be done in connection with such public works project, regardless of whether such project consists of one or more contracts.

Please find the attached "Contracting Agency Certification Form" to be completed and returned to the Department of Labor, Wage and Workplace Standards Division, Public Contract Compliance Unit.

✉ Inquiries can be directed to (860)263-6543.



CONNECTICUT DEPARTMENT OF LABOR
WAGE AND WORKPLACE STANDARDS DIVISION
CONTRACT COMPLIANCE UNIT

CONTRACTING AGENCY CERTIFICATION FORM

I, _____, acting in my official capacity as _____,
authorized representative _____ title _____

for _____, located at _____,
contracting agency _____ address _____

do hereby certify that the total dollar amount of work to be done in connection with

_____, located at _____,
project name and number _____ address _____

shall be \$_____, which includes all work, regardless of whether such project
consists of one or more contracts.

CONTRACTOR INFORMATION

Name: _____

Address: _____

Authorized Representative: _____

Approximate Starting Date: _____

Approximate Completion Date: _____

Signature

Date

Return To: Connecticut Department of Labor
Wage & Workplace Standards Division
Contract Compliance Unit
200 Folly Brook Blvd.
Wethersfield, CT 06109

Date Issued: _____

[New] In accordance with Section 31-53b(a) of the C.G.S. each contractor shall provide a copy of the OSHA 10 Hour Construction Safety and Health Card for each employee, to be attached to the first certified payroll on the project.

In accordance with Connecticut General Statutes, 31-53 Certified Payrolls with a statement of compliance shall be submitted monthly to the contracting agency.				PAYROLL CERTIFICATION FOR PUBLIC WORKS PROJECTS WEEKLY PAYROLL												Connecticut Department of Labor Wage and Workplace Standards Division 200 Folly Brook Blvd. Wethersfield, CT 06109			
CONTRACTOR NAME AND ADDRESS:												SUBCONTRACTOR NAME & ADDRESS				WORKER'S COMPENSATION INSURANCE CARRIER			
PAYROLL NUMBER	Week-Ending Date		PROJECT NAME & ADDRESS																
PERSON/WORKER, ADDRESS and SECTION	APPR RATE %	MALE/ FEMALE AND RACE*	WORK CLASSIFICATION	DAY AND DATE							Total ST Hours	BASE HOURLY RATE	TYPE OF FRINGE BENEFITS Per Hour 1 through 6 (see back)	GROSS PAY FOR ALL WORK PERFORMED THIS WEEK	TOTAL DEDUCTIONS			GROSS PAY FOR THIS PREVAILING RATE JOB	CHECK # AND NET PAY
				S	M	T	W	TH	F	S					Total	O/T Hours	TOTAL FRINGE BENEFIT PLAN CASH		
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***FRINGE BENEFITS EXPLANATION (P):**

Bona fide benefits paid to approved plans, funds or programs, except those required by Federal or State Law (unemployment tax, worker's compensation, income taxes, etc.).

Please specify the type of benefits provided:

1) Medical or hospital care _____ 4) Disability _____
2) Pension or retirement _____ 5) Vacation, holiday _____
3) Life Insurance _____ 6) Other (please specify) _____

CERTIFIED STATEMENT OF COMPLIANCE

For the week ending date of _____,

I, _____ of _____, (hereafter known as

Employer) in my capacity as _____ (title) do hereby certify and state:

Section A:

1. All persons employed on said project have been paid the full weekly wages earned by them during the week in accordance with Connecticut General Statutes, section 31-53, as amended. Further, I hereby certify and state the following:

- a) The records submitted are true and accurate;
- b) The rate of wages paid to each mechanic, laborer or workman and the amount of payment or contributions paid or payable on behalf of each such person to any employee welfare fund, as defined in Connecticut General Statutes, section 31-53 (h), are not less than the prevailing rate of wages and the amount of payment or contributions paid or payable on behalf of each such person to any employee welfare fund, as determined by the Labor Commissioner pursuant to subsection Connecticut General Statutes, section 31-53 (d), and said wages and benefits are not less than those which may also be required by contract;
- c) The Employer has complied with all of the provisions in Connecticut General Statutes, section 31-53 (and Section 31-54 if applicable for state highway construction);
- d) Each such person is covered by a worker's compensation insurance policy for the duration of his employment which proof of coverage has been provided to the contracting agency;
- e) The Employer does not receive kickbacks, which means any money, fee, commission, credit, gift, gratuity, thing of value, or compensation of any kind which is provided directly or indirectly, to any prime contractor, prime contractor employee, subcontractor, or subcontractor employee for the purpose of improperly obtaining or rewarding favorable treatment in connection with a prime contract or in connection with a prime contractor in connection with a subcontractor relating to a prime contractor; and
- f) The Employer is aware that filing a certified payroll which he knows to be false is a class D felony for which the employer may be fined up to five thousand dollars, imprisoned for up to five years or both.

2. OSHA~The employer shall affix a copy of the construction safety course, program or training completion document to the certified payroll required to be submitted to the contracting agency for this project on which such persons name first appears.

(Signature)

(Title)

Submitted on (Date)

*****THIS IS A PUBLIC DOCUMENT***
DO NOT INCLUDE SOCIAL SECURITY NUMBERS**

Weekly Payroll Certification For Public Works Projects (Continued)

PAYROLL CERTIFICATION FOR PUBLIC WORKS PROJECTS

Week-Ending Date:
Contractor or Subcontractor Business Name:

WEEKLY PAYROLL

*IF REQUIRED

12/9/2013

WWS-CP2

NOTICE: THIS PAGE MUST BE ACCCOMPANIED BY A COVER PAGE (FORM # WWS-CPI)

PAGE NUMBER _____ OF

[New] In accordance with Section 31-53b(a) of the C.G.S. each contractor shall provide a copy of the OSHA 10 Hour Construction Safety and Health Card for each employee, to be attached to the first certified payroll on the project.

In accordance with Connecticut General Statutes, 31-53 Certified Payrolls with a statement of compliance shall be submitted monthly to the contracting agency.		PAYROLL CERTIFICATION FOR PUBLIC WORKS PROJECTS												Connecticut Department of Labor Wage and Workplace Standards Division 200 Folly Brook Blvd. Wethersfield, CT 06109							
WEEKLY PAYROLL																					
CONTRACTOR NAME AND ADDRESS: Landon Corporation, 15 Connecticut Avenue, Northford, CT 06472														SUBCONTRACTOR NAME & ADDRESS XYZ Corporation 2 Main Street Yantic, CT 06389				WORKER'S COMPENSATION INSURANCE CARRIER Travelers Insurance Company POLICY # #BAC8888928 EFFECTIVE DATE: 1/1/09 EXPIRATION DATE: 12/31/09			
PAYROLL NUMBER 1		Week-Ending Date 9/26/09		PROJECT NAME & ADDRESS DOT 105-296, Route 82										BASE HOURLY RATE	TYPE OF FRINGE BENEFITS Per Hour 1 through 6 (see back)	GROSS PAY FOR ALL WORK PERFORMED THIS WEEK	TOTAL DEDUCTIONS			GROSS PAY FOR THIS PREVAILING RATE JOB	CHECK # AND NET PAY
PERSON/WORKER, ADDRESS and SECTION	APPR RATE % FEMALE AND RACE*	WORK CLASSIFICATION Trade License Type & Number - OSHA 10 Certification Number	DAY AND DATE							Total ST Hours	FEDERAL WITH- HOLDING	STATE WITH- HOLDING	LIST OTHER								
			S 20	M 21	T 22	W 23	TH 24	F 25	S 26	Total O/T Hours											
HOURS WORKED EACH DAY																					
Robert Craft 81 Maple Street Willimantic, CT 06226	M/C	Electrical Lineman E-1 1234567 Owner OSHA 123456	8	8	8	8	8	8	S-TIME 40	1. \$ 5.80 2. \$ Base Rate 3. \$ 2.01	\$ 1,582.80			P-xxxx	\$ 1,582.80	#123 \$ xxx.xx					
Ronald Jones 212 Elm Street Norwich, CT 06360	65%	M/B	Electrical Apprentice OSHA 234567	8	8	8	8	8	O-TIME	4. \$ 5. \$ Cash Fringe 6. \$	\$ 1,464.80	xx.xx	xxx.xx	xx.xx	G-xxx	\$ 1,464.80	#124 \$ xxx.xx				
Franklin T. Smith 234 Washington Rd. New London, CT 06320 SECTION B	M/H	Project Manager	8						S-TIME 8	1. \$ 2. \$ Base Rate 3. \$	\$ 1,500.00	xx.xx	xx.xx	xx.xx	M-xx.x		#125 xxx.xx				
								O-TIME	4. \$ 5. \$ Cash Fringe 6. \$												
7/13/2009 WWS-CPI	*IF REQUIRED			*SEE REVERSE SIDE												PAGE NUMBER <u>1</u> OF <u>2</u>					

OSHA 10 ~ATTACH CARD TO 1ST CERTIFIED PAYROLL

***FRINGE BENEFITS EXPLANATION (P):**

Bona fide benefits paid to approved plans, funds or programs, except those required by Federal or State Law (unemployment tax, worker's compensation, income taxes, etc.).

Please specify the type of benefits provided:

1) Medical or hospital care Blue Cross 4) Disability _____
2) Pension or retirement _____ 5) Vacation, holiday _____
3) Life Insurance Utopia 6) Other (please specify) _____

CERTIFIED STATEMENT OF COMPLIANCE

For the week ending date of 9/26/09,

I, Robert Craft of XYZ Corporation, (hereafter known as
Employer) in my capacity as Owner (title) do hereby certify and state:

Section A:

1. All persons employed on said project have been paid the full weekly wages earned by them during the week in accordance with Connecticut General Statutes, section 31-53, as amended. Further, I hereby certify and state the following:
 - a) The records submitted are true and accurate;
 - b) The rate of wages paid to each mechanic, laborer or workman and the amount of payment or contributions paid or payable on behalf of each such employee to any employee welfare fund, as defined in Connecticut General Statutes, section 31-53 (h), are not less than the prevailing rate of wages and the amount of payment or contributions paid or payable on behalf of each such employee to any employee welfare fund, as determined by the Labor Commissioner pursuant to subsection Connecticut General Statutes, section 31-53 (d), and said wages and benefits are not less than those which may also be required by contract;
 - c) The Employer has complied with all of the provisions in Connecticut General Statutes, section 31-53 (and Section 31-54 if applicable for state highway construction);
 - d) Each such employee of the Employer is covered by a worker's compensation insurance policy for the duration of his employment which proof of coverage has been provided to the contracting agency;
 - e) The Employer does not receive kickbacks, which means any money, fee, commission, credit, gift, gratuity, thing of value, or compensation of any kind which is provided directly or indirectly, to any prime contractor, prime contractor employee, subcontractor, or subcontractor employee for the purpose of improperly obtaining or rewarding favorable treatment in connection with a prime contract or in connection with a prime contractor in connection with a subcontractor relating to a prime contractor; and
 - f) The Employer is aware that filing a certified payroll which he knows to be false is a class D felony for which the employer may be fined up to five thousand dollars, imprisoned for up to five years or both.
2. OSHA~The employer shall affix a copy of the construction safety course, program or training completion document to the certified payroll required to be submitted to the contracting agency for this project on which such employee's name first appears.

Robert Craft owner 10/2/09
(Signature) (Title) Submitted on (Date)

Section B: Applies to CONNDOT Projects ONLY

That pursuant to CONNDOT contract requirements for reporting purposes only, all employees listed under Section B who performed work on this project are not covered under the prevailing wage requirements defined in Connecticut General Statutes Section 31-53.

Robert Craft owner 10/2/09
(Signature) (Title) Submitted on (Date)

Note: CTDOL will assume all hours worked were performed under Section A unless clearly delineated as Section B WWS-CP1 as such. Should an employee perform work under both Section A and Section B, the hours worked and wages paid must be segregated for reporting purposes.

*****THIS IS A PUBLIC DOCUMENT*****
*****DO NOT INCLUDE SOCIAL SECURITY NUMBERS*****

**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.



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.