

## ROCKVILLE CENTER SIDEWALK AND ADA UPGRADES

Vernon, CT

The State of Connecticut, Department of Transportation, Standard Specifications for Roads, Bridges and Incidental Construction, Form 818, 2020, as revised by the Supplemental Specifications dated July 2023 (otherwise referred to collectively as "CTDOT Form 818") is hereby made part of this contract, as modified by the Special Provisions contained herein.

"Form 818" and Supplemental Forms may be viewed at the State of Connecticut, Department of Transportation's website at [www.ct.gov/dot](http://www.ct.gov/dot)

**All references to Commissioner, Department, Engineer, and State anywhere within the Contract Documents and Form 818 shall be interpreted to mean Town of Vernon or a duly authorized agent of the Town. Any questions or ambiguity regarding any definitions shall be brought to the immediate attention of the Town of Vernon.**

### **CONTRACT TIME AND LIQUIDATED DAMAGES**

Sixty (60) calendar days will be allowed for completion of the work on this project and the liquidated damages charge to apply will be five hundred Dollars (\$500) per calendar day.

## INDEX TO STANDARD SPECIFICATIONS

### TECHNICAL SPECIFICATIONS

List of Items of Work directly referenced in the CTDOT Form 818, Supplements and Amendments Thereto.

#### BASE BID

<b><u>ITEM</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>CTDOT FORM 818 SECTION NUMBER</u></b>
0201001	CLEARING AND GRUBBING	2.01
0202529	CUT BITUMINOUS CONCRETE PAVEMENT	2.02
0811001	CONCRETE CURBING	8.11
0813021	6" GRANITE STONE CURBING	8.13
0921048	DETECTABLE WARNING STRIP	9.21
0922500	BITUMINOUS CONCRETE DRIVEWAY (COMMERCIAL)	9.22
0922501	BITUMINOUS CONCRETE DRIVEWAY	9.22
0924006	CONCRETE DRIVEWAY RAMP	9.24
0944000	FURNISHING AND PLACING TOPSOIL	9.44
0950005	TURF ESTABLISHMENT	9.50
0970007	TRAFFICPERSON (UNIFORMED FLAGGER)	9.70
1210101	4" WHITE EPOXY RESIN PAVEMENT MARKINGS	12.10
1210105	EPOXY RESIN PAVEMENT MARKINGS, SYMBOLS AND LEGENDS	12.10
1210106	12" WHITE EPOXY RESIN PAVEMENT MARKINGS	12.10

## **TABLE OF CONTENTS OF SPECIAL PROVISIONS**

Note: This Table of Contents has been prepared for the convenience of those using this contract with the sole express purpose of locating quickly the information contained herein; and no claims shall arise due to omissions, additions, deletions, etc., as this Table of Contents shall not be considered part of the contract.

## Table of Contents

### PERMITS AND/OR REQUIRED PROVISIONS

#### **SPECIAL PROVISIONS (Included in this Document)**

NOTICE TO CONTRACTOR – COORDINATION WITH EXISTING UTILITY COMPANIES

NOTICE TO CONTRACTOR – EXISTING UTILITIES

NOTICE TO CONTRACTOR – POTENTIAL MODIFIED AWARD

NOTICE TO CONTRACTOR – CONTRACTOR TRAINING REQUIREMENT FOR 10-HOUR OSHA

CONSTRUCTION SAFETY AND HEALTH COURSE

NOTICE TO CONTRACTOR – VEHICLE EMISSIONS

NOTICE TO CONTRACTOR – PROTECTION OF EXISTING FACILITIES

ITEM #0219011A	CATCH BASIN SEDIMENT FILTER
ITEM #0406005A	PAVEMENT REPLACEMENT PERMANENT
ITEM #0921001A	CONCRETE SIDEWALK
ITEM #0921002A	CONCRETE SIDEWALK – 8" THICK
ITEM #0921005A	CONCRETE SIDEWALK RAMP
ITEM #0971001A	MAINTENANCE AND PROTECTION OF TRAFFIC
ITEM 0975004A	MOBILIZATION AND PROJECT CLOSEOUT
ITEM #0980020A	CONSTRUCTION SURVEYING
ITEM #1208931A	SIGN FACE SHEET ALUMINUM (TYPE IX RETROREFLECTIVE SHEETING)

## **NOTICE TO CONTRACTOR – COORDINATION WITH EXISTING UTILITY COMPANIES**

As required by State Law, the Contractor shall contact “Call Before You Dig.” Telephone 1-800-922-4455 for the location of public utility underground facilities in accordance with section 16-345 of the Regulations of the Department of Public Utility Control. The underground activities should be clearly delineated within the areas of proposed excavation prior to performing actual excavation. The notification to “Call Before You Dig” must be made at least 48 hours in advance.

Contractors are cautioned that it is their responsibility to verify location, conditions and filed dimensions of all existing features as actual conditions may differ from information shown on the plans or continued elsewhere in the specifications.

The Contractor shall place fill or excavate to within 1 foot of finished grade before poles/anchors are set. Additionally, the Contractor is required to mark out necessary road markings (edge of curb, sidewalk etc.) in field prior to pole/anchor placement.

The Contractor shall consider in his bid any inconvenience and work required to meet these conditions. The work to repair or replace any damage to utilities caused by the Contractor’s operations will be solely at the Contractor’s expense, in accordance with Form 818, Section 1.07.

The Contractor shall notify the Engineer prior to the start of his work and shall be responsible for all coordination. The Contractor shall allow the Engineer complete access to the work.

The Contractor is hereby notified that any utility work schedules will have to be accommodated prior to proceeding. The Contractor shall coordinate with the utility companies to accommodate his schedule with all utility company schedules. Any inconvenience or delay that may result from the utility company work shall be included in the contract bid for the work.

The contractor shall notify the following utility company representatives a minimum of two (2) weeks prior to the start of the construction work that could affect their utilities.

**STORM WATER – TOWN OF VERNON**

David Smith, PE, LS  
Town Engineer  
860-870-3663  
dsmith@vernon-ct.gov

**TOWN OF VERNON DEPARTMENT OF PUBLIC WORKS**

Dwight Ryniewicz  
Director of Public Works  
860-870-3500

**COMCAST OF CONNECTICUT, INC**

Christopher Simeone  
Construction Manager CT/NY  
860-491-6701  
Christopher\_simeone@cable.comcast.com

**COXCOM, LLC**

Nick Gonsalves  
Land Use Agent  
401-895-0838  
Nick.gonsalves@cox.com

**CROWN CASTLE FIBER, LLC**

Eric Clark  
Operations Manager  
(O) 203-649-3904 (M) 860-863-8311  
Eric.clark@crowncastle.com

**GONETSPEED**

Ken Lane  
OSP Market Manager Connecticut  
860-874-4494  
Ken.lane@gonetspeed.com

**FRONTIER COMMUNICATIONS OF CONNECTICUT**

Lynne Delucia  
Manager – ENgineering and Construction  
(O) 203-238-5000 (M) 860-967-4389  
lynne.m.delucia@ftr.com

**EVERSOURCE ENERGY**

Mark Bonjuklian  
Manager – Distribution Projects and Programs  
203-845-3456  
mark.bonjuklian@eversource.com

**EVERSOURCE ENERGY GAS**

Kenneth Cook

Lead Engineer, Gas Project Engineering

860-978-5465

kenneth.cook@eversource.com

**THE CONNECTICUT WATER COMPANY**

Mr. David Peeling, PE

Director of Engineering

860-664-6007

david.peeling@ctwater.com

## **NOTICE TO THE CONTRACTOR – EXISTING UTILITIES**

Existing utilities, shall be maintained during construction except as stated in the notice to contractor and/or noted on the plans. The Contractor shall verify the location of underground, structure mounted, and overhead utilities. Construction work within the vicinity of utilities shall be performed in accordance with current safety regulations.

The Contractor shall notify “Call before You Dig,” telephone: 1-800-922-4455, for the location of public utilities, in accordance with Section 16-345 of the Regulations of the Department of Utility Control.

Contractors are cautioned that it is their responsibility to verify locations, conditions, and field dimensions of all existing features, as actual conditions may differ from the information shown on the plans or contained elsewhere in the specifications.

Also, refer to “Section 1.07 - Legal Relations and Responsibilities.”

**The Contractor is hereby notified that the utility company manholes, valve boxes, gate boxes, etc located within the project area that need adjustment to meet proposed grades will be adjusted by the Contractor. The Contractor shall be responsible for coordinating with each respective utility company prior to final paving and sidewalk construction to ensure that all facility adjustments comply with the respective utility company requirements and specifications. Cost associated with this coordination and/or work shall be included on the other items of work.**

**NOTICE TO CONTRACTOR - POTENTIAL MODIFIED AWARD  
SCHEDULE**

The contractor is hereby given notice that this contract may not be awarded until all Federal and State financial approvals have been received. If all financial approvals are not received, this contract may be withdrawn and re-advertised at the direction of the Municipality, in consultation with the State. This shall not be the basis for any claims by any bidder.



**NOTICE TO CONTRACTOR – CONTRACTOR TRAINING  
REQUIREMENT FOR 10-HOUR OSHA CONSTRUCTION SAFETY AND  
HEALTH COURSE**

In accordance with Connecticut General Statute 31-53b and Public Act No. 08-83, the Contractor is required to furnish proof that any person performing the work of a mechanic, laborer or worker pursuant to the classifications of labor under section 31-53, 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.

Proof of compliance with the provisions of the statute shall consist of a student course completion card issued by the federal Occupational Safety and Health Administration, or other such proof as deemed appropriate by the Commissioner of the Connecticut Department of Labor, dated no earlier than five years prior to the commencement of the project. Each employer shall affix a copy of the construction safety course completion card for each applicable employee to the first certified payroll submitted to the Department of Transportation on which the employee's name first appears.

Any employee required to complete a construction safety and health course as required that has not completed the course, shall have a maximum of fourteen (14) days to complete the course. If the employee has not been brought into compliance, they shall be removed from the project until such time as they have completed the required training.

This section does not apply to employees of public service companies, as defined in section 16-1 of the 2008 supplement to the General Statutes, 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.

The internet website for the federal Occupational Safety and Health Training Institute is <http://www.osha.gov/fso/ote/training/edcenters>.

Additional information regarding this statute can be found at the Connecticut Department of Labor website, <http://www.ctdol.state.ct.us/wgwkstnd/wgemenu.htm>.

Any costs associated with this notice shall be included in the general cost of the contract. In addition, there shall be no time granted to the contractor for compliance with this notice. The contractor's compliance with this notice and any associated regulations shall not be grounds for claims as outlined in Section 1.11 – "Claims".

## **NOTICE TO CONTRACTOR - VEHICLE EMISSIONS**

All motor vehicles and/or construction equipment (both on-highway and non-road) shall comply with all pertinent State and Federal regulations relative to exhaust emission controls and safety.

The contractor shall establish staging zones for vehicles that are waiting to load or unload at the contract area. Such zones shall be located where the emissions from the vehicles will have minimum impact on abutters and the general public.

Idling of delivery and/or dump trucks, or other equipment shall not be permitted during periods of non-active use, and it should be limited to three minutes in accordance with the Regulations of Connecticut State Agencies Section 22a-174-18(b)(3)(c):

No mobile source engine shall be allowed "to operate for more than three (3) consecutive minutes when the mobile source is not in motion, except as follows:

- (i) When a mobile source is forced to remain motionless because of traffic conditions or mechanical difficulties over which the operator has no control,
- (ii) When it is necessary to operate defrosting, heating or cooling equipment to ensure the safety or health of the driver or passengers,
- (iii) When it is necessary to operate auxiliary equipment that is located in or on the mobile source to accomplish the intended use of the mobile source,
- (iv) To bring the mobile source to the manufacturer's recommended operating temperature,
- (v) When the outdoor temperature is below twenty degrees Fahrenheit (20 degrees F),
- (vi) When the mobile source is undergoing maintenance that requires such mobile source be operated for more than three (3) consecutive minutes, or
- (vii) When a mobile source is in queue to be inspected by U.S. military personnel prior to gaining access to a U.S. military installation."

All work shall be conducted to ensure that no harmful effects are caused to adjacent sensitive receptors. Sensitive receptors include but are not limited to hospitals, schools, daycare facilities, elderly housing and convalescent facilities. Engine exhaust shall be located away from fresh air intakes, air conditioners, and windows.

A Vehicle Emissions Mitigation plan will be required for areas where extensive work will be performed in close proximity (less than 50 feet (15 meters)) to sensitive receptors. No work will proceed until a sequence of construction and a Vehicle Emissions Mitigation plan is submitted in writing to the Engineer for review and all comments are addressed prior to the commencement of any extensive construction work in close proximity (less than 50 feet (15 meters)) to sensitive receptors. The mitigation plan must address the control of vehicle emissions from all vehicles and construction equipment.

If any equipment is found to be in non-compliance with this specification, the contractor will be issued a Notice of Non-Compliance and given a 24 hour period in which to bring the equipment into compliance or remove it from the project. If the contractor then does not comply, the Engineer shall withhold all payments for the work performed on any item(s) on which the non-conforming equipment was utilized for the time period in which the equipment was out of compliance.

Any costs associated with this "Vehicle Emissions" notice shall be included in the general cost of the contract. In addition, there shall be no time granted to the contractor for compliance with this notice. The contractor's compliance with this notice and any associated regulations shall not be grounds for claims as outlined in Section 1.11 – "Claims".

## **NOTICE TO CONTRACTOR - PROTECTION OF EXISTING FACILITIES**

The Contractor is hereby notified that caution should be taken during clearing and grubbing operations, earthwork and site construction, and grading near existing concrete walls, masonry walls, curbing, sidewalks, driveways, landscaping, signs, etc. that are adjacent to the project site.

Excavation and work of any type shall be accomplished in such a manner that will not disturb any existing facility.

It shall be the Contractor's sole responsibility for any damage incurred during construction. All costs related to the repair shall be borne by the Contractor at no additional cost to the Town.

The Contractor shall consider, in his bid, any inconvenience and work required to safeguard the existing facilities.

## **ITEM #0219011A – CATCH BASIN SEDIMENT FILTER**

*Add the following:*

### **2.19.02 – Material:**

Include catch basins inserts. Catch basin insert type to be approved by the Engineer and as detailed in the drawings.

### **2.19.04 - Method of Measurement:**

*Add the following:*

This work will be measured for payment by the actual number Each of “Catch Basin Sediment Filters” installed and accepted.

Delete the last sentence in the first paragraph and substitute the following:

Replacement systems damaged by the Contractor’s operation or rendered inoperative by any cause as a result of early installation without approval of the Engineer will not be measured for payment.

### **2.19.05 – Basis of Payment:**

*Add the following:*

Payment for this work will be made at the Contract unit price per Each for “Catch Basin Sediment Filter” complete in place, which price shall include all materials, equipment, tools and labor incidental to the installation, maintenance, replacement, removal and disposal of the system and surplus material. No payment shall be made for the clean out of accumulated sediment.

Pay Item

Catch Basin Sediment Filter

Pay Unit

EA.

## **ITEM # 0406005A - PAVEMENT REPLACEMENT PERMANENT**

*Section 4.06 Bituminous Concrete is supplemented as follows:*

### **4.06.01 – Description:**

The work under this item shall consist of the replacement of bituminous pavement where indicated or directed by the Engineer. The work for this item includes excavation for the proposed permanent pavement section, subbase and base material grading and compaction, the placement and compaction of processed aggregate base, tack coat and hot mix asphalt (HMA).

### **4.06.04 – Method of Measurement:** *Replace with the following:*

This work shall be measured by the total area, in square yards, of “Pavement Replacement Permanent.”

### **4.06.05 – Basis of Payment:** *Replace with the following:*

This work will be paid for at the contract unit price per square yard of “Pavement Replacement Permanent.” The price shall include all tools, materials, labor, and equipment used for this activity, including, but not limited to: granular base excavation and removal, HMA and Processed Aggregate Base used in the construction of the patch, compaction and/or formation of granular base, and tacking agent. No payment will be issued to the contractor prior to document submissions required.

#### Pay Item

Pavement Replacement Permanent

#### Pay Unit

S.Y.

**ITEM #0921001A – CONCRETE SIDEWALK**

**ITEM #0921002A – CONCRETE SIDEWALK – 8” THICK**

**ITEM #0921005A – CONCRETE SIDEWALK RAMP**

**9.21.02 – Materials:**

*Add the following:*

Reinforcement: Shall meet the requirements of Article M.06.01.

**9.21.04 – Methods of Measurement:**

*Add the following:*

**7. Reinforcement:** This material will not be measured for payment, but the cost shall be included in the Contract price for Concrete Sidewalk, Concrete Sidewalk – 8” Thick, and Concrete Sidewalk Ramp.

**9.21.05 – Basis of Payment:**

*In the first paragraph, add the following after “gravel or reclaimed miscellaneous aggregate” and before “equipment”: Reinforcement*

## **ITEM NO. 0971001A – MAINTENANCE AND PROTECTION OF TRAFFIC**

### **Article 9.71.01 – Description** *is supplemented by the following:*

The Contractor shall maintain and protect traffic as described by the following and as limited in the special provision for Section 1.08 - Prosecution and Progress:

#### **West Main St, Brooklyn St, and Vernon Ave:**

The Contractor shall maintain and protect a minimum of 1 lane of traffic in each direction with each lane on a paved travel path not less than 11 feet in width, with the following exceptions:

1. During the allowable periods and when the Contractor is actively working, the Contractor will be permitted to maintain and protect at least an alternating one-way traffic operation on a paved travel path not less than 11 feet in width and no more than 300 feet in length, unless specified elsewhere in the Contract. There shall be no more than one alternating one-way traffic operation within the Project limits without prior approval of the Engineer.
2. The Contractor will be permitted to close pedestrian sidewalks and detour pedestrian traffic. The Contractor shall notify the Town at least 7 days in advance of implementing the pedestrian detour.

#### **Commercial and Residential Driveways**

The Contractor shall maintain access to and egress from all commercial and residential driveways throughout the Project limits. The Contractor will be permitted to temporarily close affected driveways while actively working with coordination and permission from the owner and/or proprietor.

#### **Intermediate Term Sidewalk Closures**

The Contractor shall maintain and protect existing pedestrian accommodations, or a minimum of 4 feet in width, on all existing sidewalks, sidewalk ramps, and access to pedestrian pushbuttons, with the following exception:

- During the allowable periods and when the Contractor is actively constructing pedestrian amenities, the Contractor will be allowed to close pedestrian sidewalks and sidewalk ramps and restrict access to pedestrian pushbuttons for no more than a continuous 48-hour period of time.

No more than two corners of an intersection may be closed for an intermediate term sidewalk closure at any time. Where all four corners of an intersection have sidewalks and sidewalk ramps, diagonal corners shall not be closed at the same time.

During the intermediate term sidewalk closure, all approaches to the sidewalk shall be blocked by Construction Barricade Detectable with Sidewalk Closed signs.

The Contractor shall ensure that traffic control signals with pedestrian phases where access to the pushbuttons cannot be provided are revised at the start of the closure to automatically activate the pedestrian phase every signal cycle.

Intermediate term sidewalk closures may be extended to 72 hours with prior approval of the Engineer.

### **Article 9.71.03 - Construction Methods** *is supplemented as follows:*



## **General**

Unpaved travel paths will only be permitted for areas requiring full depth and full width reconstruction. The unpaved section shall be the full width of the road and shall be perpendicular to the travel lanes. The Contractor will be allowed to maintain traffic on processed aggregate for a duration not to exceed 10 calendar days and opposing traffic lane dividers shall be used as a centerline.

The Contractor is required to delineate any raised structures within the travel lanes, so that the structures are visible day and night, unless there are specific Contract plans and provisions to temporarily lower these structures prior to the completion of work.

When the installation of all intermediate courses of bituminous concrete pavement is completed for the entire roadway, the Contractor shall then install the final course of bituminous concrete pavement.

When the Contractor is excavating adjacent to the roadway, the Contractor shall provide a 3-foot shoulder between the work area and travel lanes, with traffic drums spaced every 50 feet. At the end of the work shift if the vertical drop-off exceeds 3 inches, the Contractor shall provide a temporary bituminous concrete traversable slope of 4:1 or flatter that is acceptable to the Engineer.

When an existing sign is to be relocated or replaced, the work shall be completed during the same work shift.

The field installation of a signing pattern shall constitute interference with existing traffic operations and shall not be allowed, except during the allowable periods.

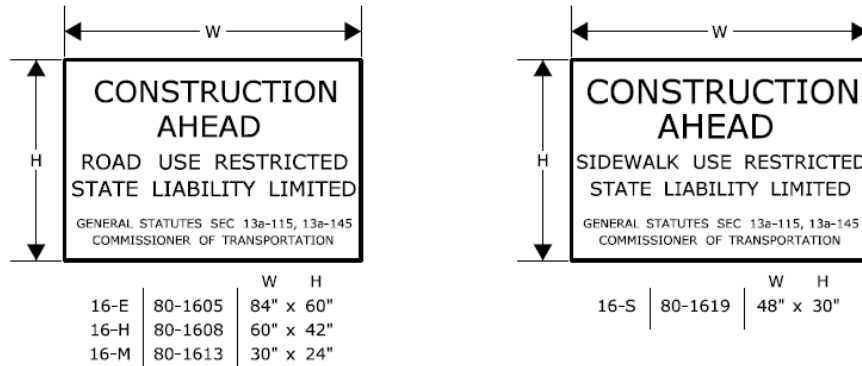
## **Existing Signing**

The Contractor shall maintain all existing overhead and side-mounted signs within the Project limits throughout the duration of the Project. The Contractor shall temporarily relocate signs and sign supports as many times as deemed necessary and shall install temporary sign supports if necessary and as directed by the Engineer.

## **Signing Patterns**

The Contractor shall erect and maintain all signing patterns in accordance with the traffic control plans contained herein. Proper distances between advance warning signs and proper taper lengths are mandatory.

## SERIES 16 SIGNS



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 RAMP 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 RAMP, OTHER STATE ROADWAYS, AND MAJOR TOWN/CITY ROADWAYS.

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

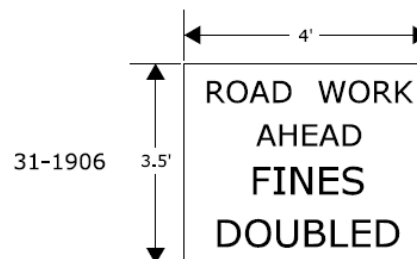
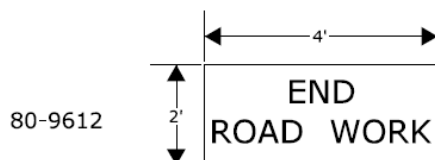
## REGULATORY SIGN "ROAD WORK AHEAD, FINES DOUBLED"

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*  
Charles S. Harlow  
2012.06.05 11:35:43-04'00"  
PRINCIPAL ENGINEER

## 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 (AA), (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

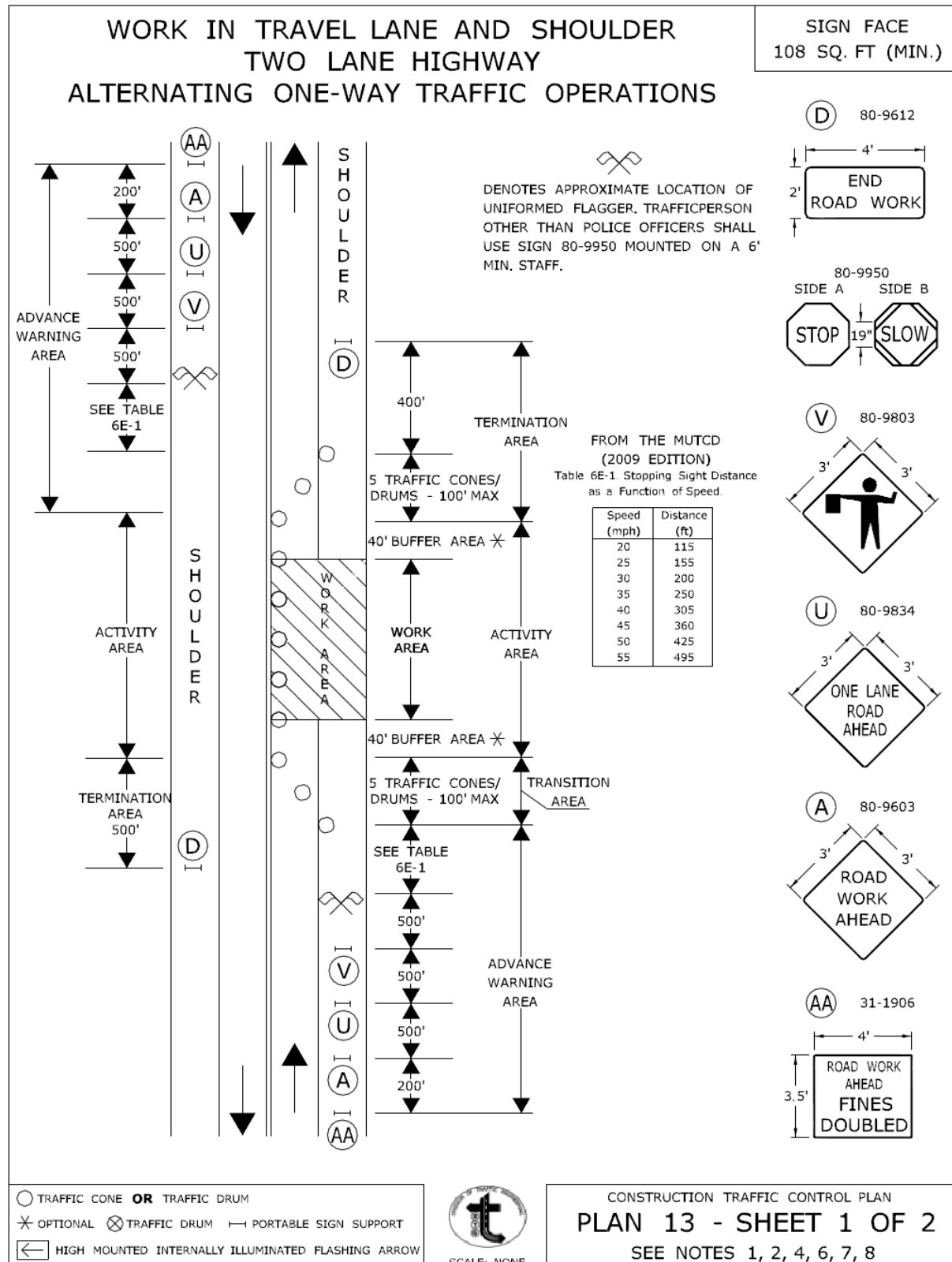
### CONSTRUCTION TRAFFIC CONTROL PLAN NOTES

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'



CONNECTICUT DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING & CONSTRUCTION

APPROVED

*Charles S. Harlow*  
Charles S. Harlow  
2012.06.05 15:55:23-04'00"  
PRINCIPAL ENGINEER

# 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 **OR** 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

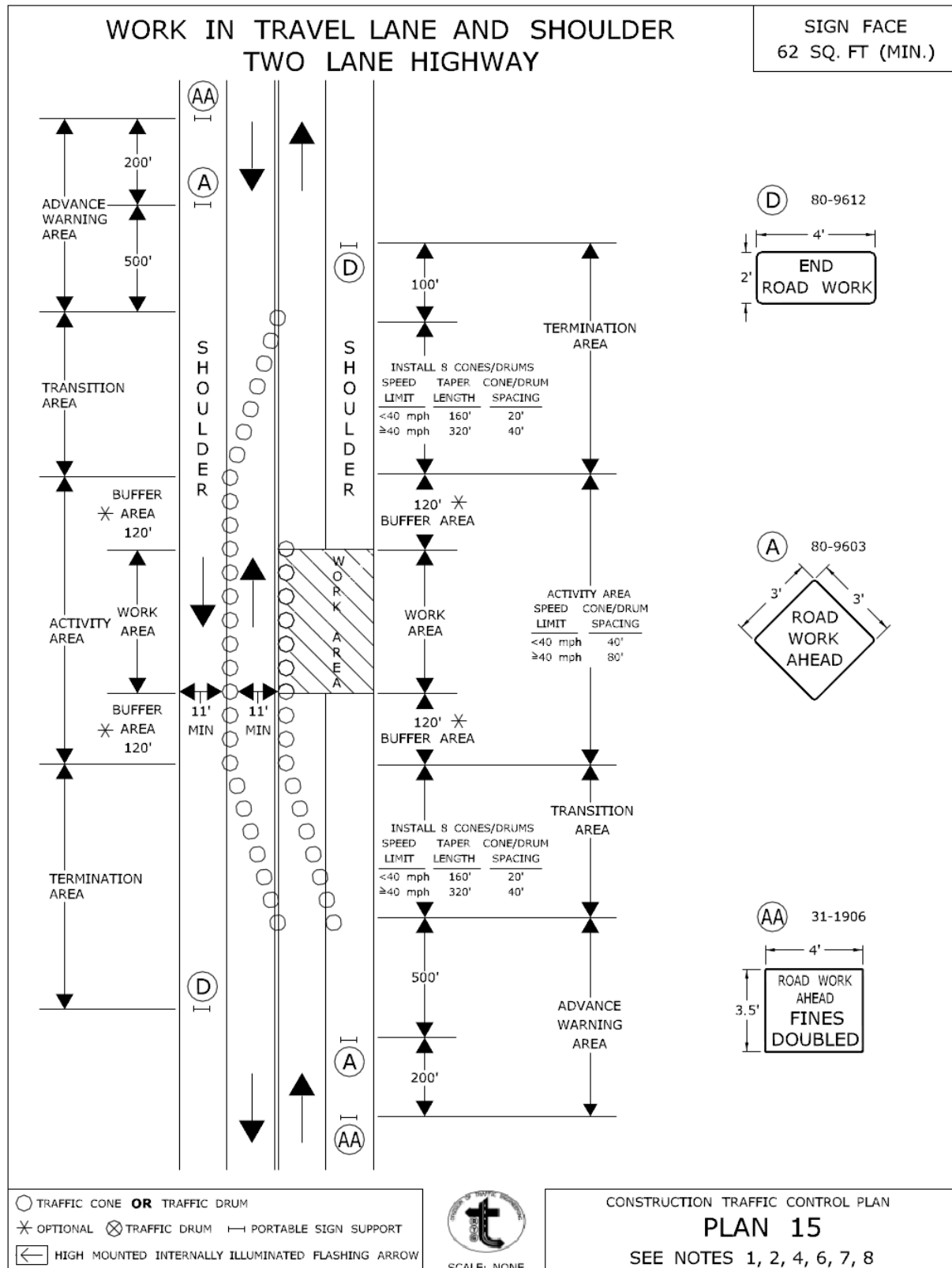
CONNECTICUT DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING & CONSTRUCTION

APPROVED

*Charles S. Harlow*  
PRINCIPAL ENGINEER

Charles S. Harlow  
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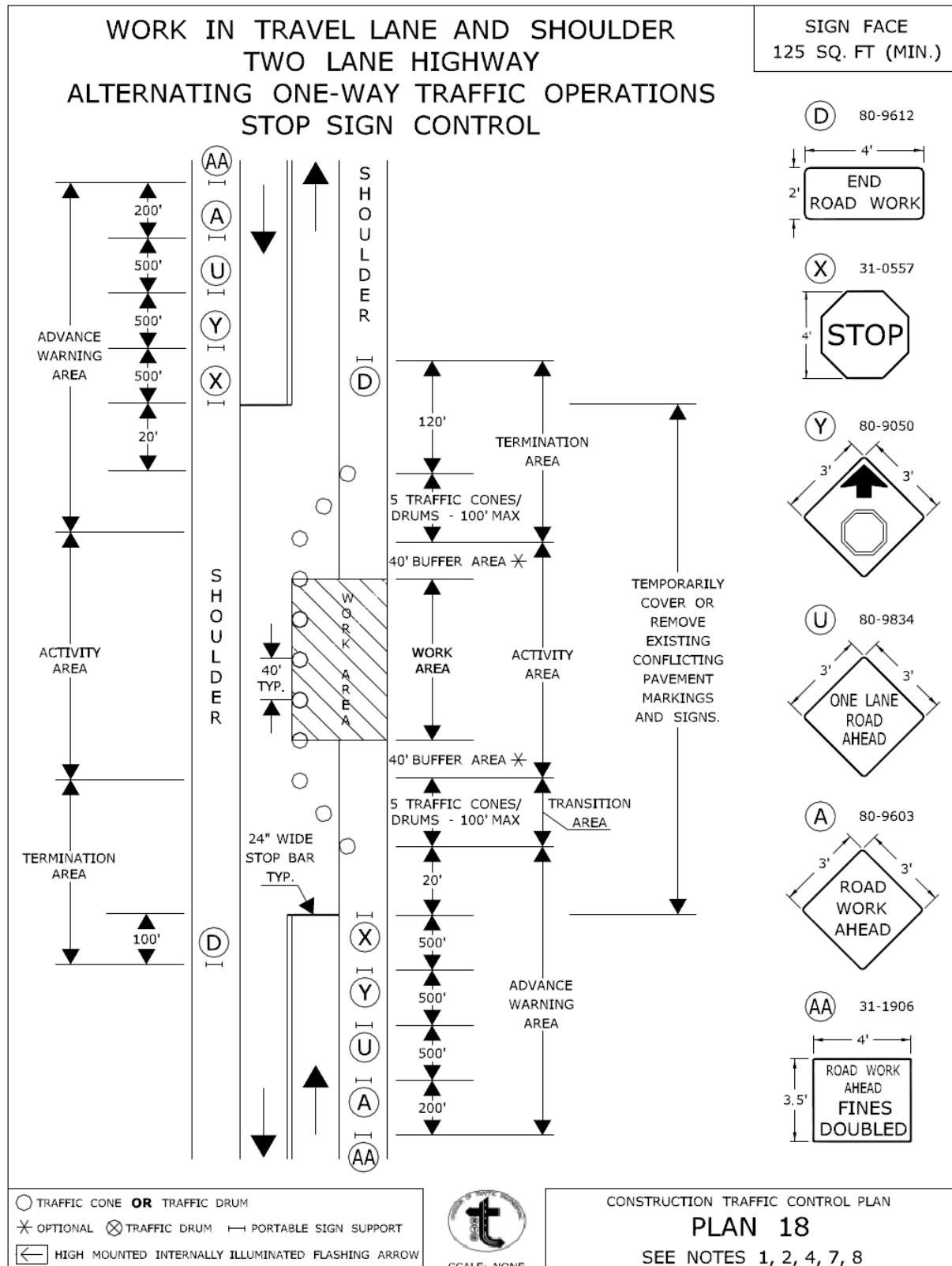


CONNECTICUT DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING & CONSTRUCTION

APPROVED

*Charles S. Harlow*  
Charles S. Harlow  
2012.06.05 15:56:29-04'00"  
PRINCIPAL ENGINEER





CONNECTICUT DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING & CONSTRUCTION

APPROVED

2012.06.05 15:57:37-0400



**Article 9.71.05 – Basis of Payment** *is supplemented by the following:*

The temporary relocation of signs and supports, and the furnishing, installation and removal of any temporary supports shall be paid for under the item “Maintenance and Protection of Traffic”. Temporary overhead sign supports and foundations shall be paid for under the appropriate item(s).

The cost of furnishing, installing, and removing the material for the 4H:1V traversable slope shall be included in item “Maintenance and Protection of Traffic”.

## **ITEM NO. 0975004A – MOBILIZATION AND PROJECT CLOSEOUT**

Section 9.75 is supplemented as follows:

### **9.75.01 – Description:**

*Replace the word “Department” with “Town” in Article 9.75.01-3:*

*Add the following:*

7. Closeout Submittals: Submit written certification that the Contract Documents have been reviewed, Work has been inspected, and that Work is complete in accordance with Contract Documents and ready for Engineer’s inspection. Provide closeout submittals to Engineer that are required by governing authorities. Maintain on site, one (1) set of the following record documents; record actual revisions to the Work. The following is a list of submittals that should be included in the closeout submittals:
  - a. Contract Drawings
  - b. Specifications
  - c. Addenda
  - d. Change Orders, Clarifications and other Modifications to the Contract
  - e. Reviewed shop drawings, product data, and samples
  - f. Location and dimensions of any Work that was altered from the original Contract Documents.
8. Specifications: Legibly mark and record at each Product section description of actual products installed including the following:
  - a. Manufacturers name and product model and number
  - b. Product substitutions or alternatives utilized
  - c. Changes made by Addenda and Modifications
9. Warranties
  - a. Provide suplicate notarized copies
  - b. Execute and assemble documents from Subcontractors, suppliers, and manufacturers
  - c. Submit prior to final Application for Payment
  - d. For items of Work delayed beyond date of Substantial completion, provide updated submittal within ten days after acceptance, listing date of acceptance as start of warranty period.
10. Final Payment Applications: Submit final Application for Payment identifying total adjusted Contract Sum, previous payments, and sum remaining due.

## **ITEM #0980020A – CONSTRUCTION SURVEYING**

### **9.80.03 Construction Methods**

*Add the following:*

- V. Establishing Existing Conditions for the purpose of replacing sidewalks and curbs in their existing location:
  - 1. Prior to the removal of existing sidewalks and curbs that are identified to be replaced in their same location on the project drawings, the Contractor shall establish and document the existing sidewalk and curb alignment, limits and any other critical features. Such staking shall be provided for the purpose of reconstructing the sidewalks to the same alignment and limits as the existing sidewalks and curbs unless otherwise shown on the construction documents.

**ITEM #1208931A – SIGN FACE - SHEET ALUMINUM (TYPE IX RETROREFLECTIVE SHEETING)**

*Section 12.08 is supplemented and amended as follows:*

**12.08.01—Description:**

*Add the following:*

This item shall also include field testing of metal sign base posts as directed by the Engineer.

**12.08.03—Construction Methods:**

*Delete the last sentence and add the following:*

Metal sign base posts shall be whole and uncut. Sign base post embedment and reveal lengths shall be as shown on the plans. The Contractor shall drive the metal sign base posts by hand tools, by mechanical means or by auguring holes. If an obstruction is encountered while driving or placing the metal sign base post, the Contractor shall notify the Engineer who will determine whether the obstruction shall be removed, the sign base post or posts relocated, or the base post installation in ledge detail shall apply. Backfill shall be thoroughly tamped after the posts have been set level and plumb.

**Field Testing of Metal Sign Posts:** When the sign installations are complete, the Contractor shall notify the Engineer the Project is ready for field testing. Based on the number of posts in the Project, the Engineer will select random sign base posts which shall be removed by the Contractor for inspection and measurement by the Engineer. After such inspection is completed at each base post location, the Contractor shall restore or replace such portions of the work to the condition required by the Contract. Refer to the table in 12.08.05 for the number of posts to be field tested.

**12.08.04—Method of Measurement:**

*Add the following:*

The work required to expose and measure sign base post length and embedment depth using field testing methods, and restoration of such work, will not be measured for payment and shall be included in the general cost of the work.

**12.08.05—Basis of Payment:**

*Replace the entire Article with the following:*

This work will be paid for at the Contract unit price per square foot for “Sign Face - Sheet Aluminum” of the type specified complete in place, adjusted by multiplying by the applicable Pay Factor listed in the table below. The price for this work shall include the completed sign, metal sign post(s), span-mounted sign brackets and mast arm-mounted brackets, mounting hardware, including reinforcing plates, field testing, restoration and replacement of defective base post(s), and all materials, equipment, and work incidental thereto.